# INFORMATION DISORDER MACHINES

WEAPONIZING NARRATIVE AND THE FUTURE OF THE UNITED STATES OF AMERICA



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Technical Report by Brian David Johnson From 2019 Threatcasting Workshop hosted at Arizona State University produced by Cyndi Coon.



The Threatcasting Lab is supported by





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When I created the threatcasting process the intent was not only to envision possible threats but to empower people and organizations to take action. The Threatcasting Lab at Arizona State University's charter is to empower by bringing together people and organizations to collaborate and using the output of the lab to create tools that help make organizations and people safer in the future.

- Brian David Johnson Director Threatcasting Lab

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### ASU Threatcasting Lab Team

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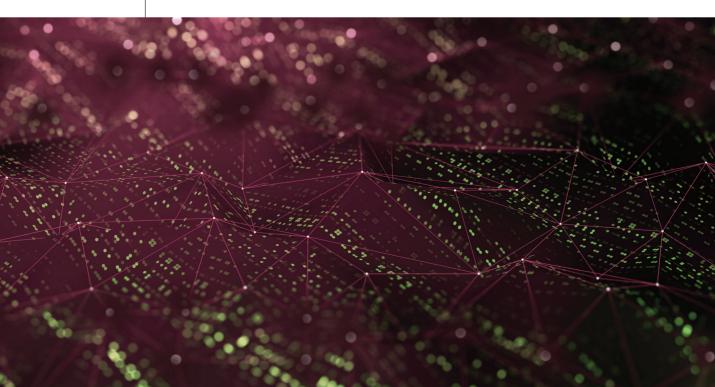


### Arizona State University Threatcasting lab

The Threatcasting Lab at Arizona State University serves as the premier resource for strategic insight, teaching materials, and exceptional subject matter expertise on Threatcasting, envisioning possible threats ten years in the future. The lab provides a wide range of organizations and institutions actionable models to not only comprehend these possible futures but to a means to identify, track, disrupt, mitigate and recover from them as well. Its reports, programming and materials will bridge gaps, and prompt information exchange and learning across the military, academia, industrial, and governmental communities.

### Information Disorder Machines

In the coming decade, advances in technologies like artificial intelligence (AI), machine learning (ML), quantum computing, the internet of things (IoT), smart cities, and autonomous vehicles in land, sea and air will enable adversaries of the United States to mechanize information disorder to influence, manipulate, and harm organizations and individuals. These coming information disorder machines (IDMs) will be targeted broadly at groups and geographies. AI and ML will allow for increased if not complete automation, allowing IDMs to adapt in real-time down to the individual level, creating personalized attacks while operating at a mass scale. The emerging threat of IDMs lie in the unique pairing of their real-time microtargeting and the macro effects that can have at scale. This is a direct threat to national and global security as well as a threat to the future of the United States of America.



### **Threat Futures:**

- Adversaries use IDMs to incite violence and tribalism, encourage anti-federalism, inspiring populations (regardless of political affiliation) to question the authority and relevance of the United States government and the union. This destabilization will distract populations, governments, and militaries, focusing on inflamed issues so that other adversaries can gain advantages elsewhere.
- Generally, adversaries will exploit desperate conditions or catastrophic events to sow unrest and inspire mistrust in traditional organizations and governments, ultimately encouraging individuals to move to violence.
- Adversaries (foreign and domestic) will use IDMs to incite public outrage and destabilize entire business areas (e.g., technology, medical, education).
- Domestic extremists and terrorists will use IDMs to further their domestic agendas, causing harm to individuals and destabilizing organizations.
- Corporations will use IDMs to increase profits, reach, and competitive edge while causing harm to individuals and each other.
- Domestic businesses as proxies for foreign adversaries will employ IDMs to target and harm citizens, steal intellectual property, and destabilize the United States.

- Citizens and special interest groups (nontraditional adversaries) will use IDMs to weaken the union of the United States, the education system, and the strength and resiliency of society.
- IDMs will weaken belief and participation in the military and education systems, making the nation vulnerable and less competitive globally.

The Threatcasting Workshop also identified a range of possible ways to disrupt, mitigate, and recover from the threat of IDMs. These actions span across multiple domains including government, military, industry, trade associations, academia, and average citizens. A single organization can not meet the threat of IDMs; over the next decade, each domain will need to learn to inform, collaborate, and support the others.

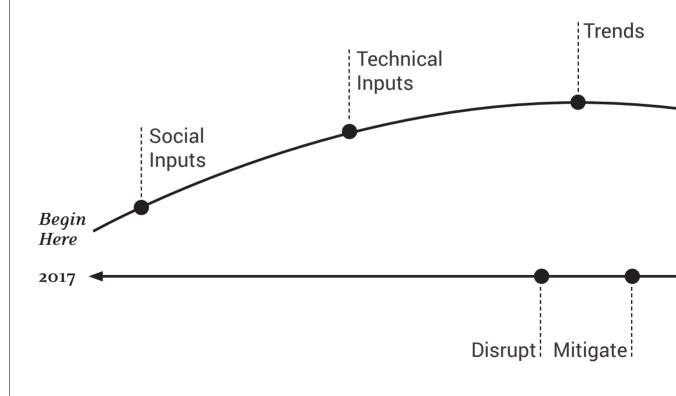
- Business, governmental, and public recognition that IDMs are a threat to economic stability and national security.
- The cultural conversation about IDMs exploitation of the worst of ourselves against ourselves.
- Development of technologies to detect, uncover, and attribute the use of IDMs.
- Support of watchdog organizations to detect IDM activity and the conditions under which they will thrive.

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# Threatcasting A Brief Overview

Threatcasting is a conceptual framework and process (see Figure below) that enables multidisciplinary groups to envision and plan systematically against threats ten years in the future. Groups explore how to transform the future they desire into reality while avoiding an undesired future. *The threatcasting process is described in detail in Appendix 1.* 

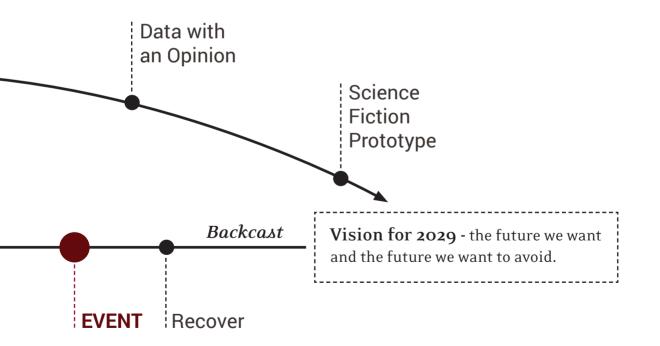
Threatcasting uses inputs from social science, technical research, cultural history, economics, trends, expert interviews, and even a little science fiction. These various inputs allow the creation



of potential futures (focused on the fiction of a person in a place doing a thing). Some of these futures are desirable while others are to be avoided. By placing the threats into a fiction story, it allows readers to imagine what needs to be done today and then three years into the future to empower or disrupt the targeted future scenario. The framework also illustrates what flags, or warning events, could appear in society that indicate the progress toward the threat future.

Threatcasting is a human-centric process, and therefore the humans that participate in a threatcasting session are important. Diversity of age, experience, and education within small groups are key but tied to a common thread - they are practitioners. Threatcasting is a theoretical exercise undertaken by practitioners with special domain knowledge of how to specifically disrupt, mitigate, and recover from theoretical threat futures. Additionally, a few participants are curated to be outliers, trained foresight professionals, and young participants for a fresh and multi-generational perspective in the groups. When using threatcasting on military problems, the mixture of participants are from academia, private industry, government, and the military.

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# Introduction

*"Weaponized narrative is an attack that seeks to undermine an opponent's civilization, identity, and will. By generating confusion, complexity, and political and social schisms, it confounds response on the part of the defender."* 

A fast-moving information deluge is an ideal environment for this kind of adversarial attack. A firehose of narrative attacks gives the targeted populace little time to process and evaluate. It is cognitively disorienting and confusing – especially if the opponents barely realize what's occurring. Opportunities abound for emotional manipulation undermining the opponent's will to resist.

"What is Weaponized Narrative?" (Arizona State University: Weaponized Narrative Initiative, 2019), https://weaponizednarrative.asu.edu/.

The following report captures the goals, subject matter expert inputs, raw data, and findings of Arizona State University's Threatcasting Lab Workshop exploring the future of Weaponized Narrative. The findings exposed multiple threat areas and the coming of information disorder machines (IDMs) that could harm individuals, organizations, and even the entire United States of America. To empower people and organizations to disrupt, mitigate and recover from these potential threats the findings in this report identify not only specific threats but also provide recommendations through which organizations and individuals can disrupt, mitigate, and recover from the future of effects of IDMs.



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# Threatcasting Workshop Goals

The Weaponizing Narrative Threatcasting Workshop is intended to assist broader communities with envisioning future threats and vulnerabilities made increasingly more complex by rapidly evolving information technologies and weaponized narratives designed to sow chaos and polarization among targeted populations. America's adversaries in the world realize that currently, they cannot defeat us in a head-to-head military conflict, so they will rely heavily on attacking America's institutions, and the values that hold them up even before war has begun.

Adversarial methods use the combination of weaponized narratives, the susceptibility of Western ideals, and historical divisions that exist between groups within societies to achieve their diplomatic and strategic aims. These methods allow adversaries to deny attribution for false narratives or may use covert military activities designed to deceive.

Future information technologies, such as AI-enabled algorithms that can automatically generate narratives, are going to speed up the abilities of adversaries to influence targeted populations and get them to act in a manner that is advantageous to the adversary.

David M. Beskow and Kathleen M. Carley, "Social Cybersecurity: An Emerging National Security Requirement," Military Review (Mar/Apr 2019): 118. See also Brad Allenby, "Information Technology and the Fall of the American Republic," Jurimetrics 59, (Forthcoming 2019).

How can the United States imagine and bring together the resources across multiple domains that will be capable of supporting a national-level strategy for competing in the future information environment?

Using the Threatcasting process Arizona State University's Threatcasting Lab convened over 40 practitioners together for two days on the campus of ASU in Tempe, AZ to explore possible and potential threats futures based on subject matter expert inputs (see appendix).

The group developed 24 threat futures (see appendix) that formed the basis of raw data that has been analyzed for the results of this report.



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# Information Disorder

For the Threatcasting Workshop, we explored the future of Weaponized Narrative by using the term and concept of "information disorder." This term was coined in a 2017 Council of Europe Report, "Information Disorder. Toward an interdisciplinary framework for research and policymaking" by Dr. Claire Wardle and Hossein Derakhshan. The report introduces information disorder in this way:

"We, therefore, introduce a new conceptual framework for examining information disorder, Identifying the three different types: mis-, dis- and mal-information. Using the dimensions of harm and falseness, we describe the differences between these three types of information:

**Mis-information** is when false information is shared, but no harm is meant.

**Dis-information** is when false information is knowingly shared to cause harm.

**Mal-information** is when genuine information is shared to cause harm, often by moving information designed to stay private into the public sphere."

Claire Wardle and Hossein Derakhshan "Information Disorder. Toward an Interdisciplinary Framework for Research and Policy Making," (Council of Europe, 2017): 5.

Functionally, the concept of information disorder provides a means to capture, understand, and specify the types of narratives and how they are being used.

Recently, building off Information Disorder (DES) Ben Decker explored the concept of Adversarial Narratives. "Intentionally distributed narratives that seek to enrage and divide Internet users without a required chronology or sequence of web artifacts can be defined as adversarial narratives. To further flesh out that definition. we can understand adversarial narratives as narratives rooted in, involving, or strongly characterized by conflict or opposition between actors and their interests, and especially between a social in-group and an outgroup. Adversarial narratives can be identified by key characteristics within the contents and meaning of web artifacts, as well as how they are distributed. When these types of adversarial narratives are deployed, they create a series of smaller conflicts among asymmetric actors.

For our discussion, an adversarial narrative creates a networked conflict, in that it takes place at least partially over electronic communications networks. employing the tools and functionality of those systems to influence other actors' behavior and linked outcomes, and which may result in harms or setbacks to the interests of one party. By describing this paradigm as a conflict, instead of war. our definition can include a broader range of hybrid threat agents, including state actors, private influence operators, grassroots trolls, and pure rent-seekers. Motivations can organize them (from political to financial) and degree of structure (from highly centralized to decentralized), yet they all abuse and exploit adversarial narratives across the web ecosystem.

Adversarial narratives are effective because they inflame social tensions by exploiting and amplifying perceived grievances of individuals, groups, and institutions. The term itself is agnostic to the truth-value of the messaging contained. This is an important distinction to make because... there are kernels of factual legitimacy located throughout the narrative. It is only later on, once the narrative begins to travel upstream, do the fabricated conspiracy elements come into play."

### Information disorder provides a means to capture, understand, and specify the types of narratives and how they are being used.

Ben Decker, "Adversarial narratives are the new model for disinformation," Global Disinformation Index, (2019). https://disinformationindex.org/2019/08/adversarial-narratives-are-the-new-model-for-disinformation/

### THREAT FUTURE 1

### There will be Blood

#### November 2028. San Antonio, TX

The video shocked Tammy, enraged her into action. The socialists had gone too far...they were now deputizing illegal immigrants, confiscating gun owners property and using it to "protect" polling stations...they were rigging the election...denying people their right to vote. Tammy grabbed her AR-15 and decided to do something about it...

The video shocked Diego, enraged him into action. The alt-right militias were beating up women of color, not allowing them to enter the polling station to vote...accusing them of being illegals and handing them over to ICE. Diego grabbed a bat and decided to do something about it...

Tensions at the polling station continued to rise as more people arrived...both sides screamed accusations. Tensions at the polling station continued to rise as more people arrived...both sides screamed accusations... neither would back down. The election and democracy was at stake.

Then the pushing started... someone got hit in the face... another was pushed to the ground...a man rushed at Tammy with a bat...she jumped back, pulled the trigger...Diego collapsed... blood pouring from his chest. The violence continued...

Three months later...after the funerals and trials... both videos were revealed to be fakes, shared by foreign state-backed social media influences on both sides...but by then nobody believed it or cared...the election was rigged...

(Blue Chip 2)

### THREAT FUTURE 2

### New Texas Rising

#### 2029. Dallas, TX

A decade ago nobody thought Texas could leave the United States...now they were just one referendum away. Walking away from the voting station, Pablo checked the latest poll numbers...Stay 42% Leave 43%... Then he saw the message that Star Direct Power, his last remaining client at his law firm, was dropping him because he wasn't "Nex Texas" enough...

Pablo couldn't look away from his video news feed...Militia Violence at the Border... Alt-Right Fraud Found in 2028 election -New Investigation Pending...Secret Federal Government plot held back Corpus Christi hurricane relief...Stay 43% Leave 48%

Pablo voted Stay but didn't see how that would happen...the barrage of local disputes...the disputed 2028 election...it seemed all of Texas

Puerto Rico, Samoa, and Hawaii lost confidence in the federal government. was fixated on self-determination... Stay 44% Leave 48%

New Texas might be the first, but it wasn't the last...Pacific Northwest climate radicals would be next...Puerto Rico, Samoa, and Hawaii lost confidence in the federal government...there was talk that the Mormons were taking pre-emptive steps...

Amidst the noise, no one had time to pay attention to the foreign action in South America...What did that have to do with New Texas?... Stay 44% Leave 53%...

(White Chip 1, Grey Pawn 1)

# Information Disorder Machines

In the coming decade, advances in technologies like artificial intelligence (AI), machine learning (ML), quantum computing, the internet of things (IoT), smart cities, and autonomous vehicles in land, sea and air will enable adversaries of the United States to mechanize information disorder to influence, manipulate, and harm organizations and individuals.

IDMs present a unique possible and potential threat to national security and public safety. The broader concept of an IDM is not completely new and novel. In 2017 Matt Chessen authored a report for the Atlantic Council entitled, "The MADCOM Future: How Artificial Intelligence will Enhance Computational Propaganda, Reprogram Human Culture and Threaten Democracy...and What Can Be Done About It." Chessen describes the MADCOM future as a time when "Emerging artificial intelligence (AI) tools will provide propagandists radically enhanced capabilities to manipulate human minds. Human cognition is a complex system, and AI tools are very good at decoding complex systems. Interactions on social media, browsing the Internet, and even grocery shopping provide thousands of data points from which technologists can build psychological profiles on nearly every citizen. When provided rich databases of information about us. machines will know our personalities, wants, needs, annovances, and fears better than we know them ourselves. Over the next few years, MADCOMs-the integration of AI systems into machinedriven communications tools for use in computational propaganda-will gain enhanced ability to influence people, tailoring persuasive, distracting, or intimidating messaging toward individuals based on their unique personalities and backgrounds, a form of highly personalized propaganda."

It is the intersection of these coming technologies when combined with information disorder, weaponized, and adversarial narratives that the real threat of IDM is exposed.

The use of Information Disorder by adversaries to destabilize and discredit is not new either. During WWII a Nazi propaganda campaign was launched in 1934 and lasting throughout the war. Paul Joseph Goebbels, the Reich Minister of Propaganda, set up a shortwave radio system called the "weltrundfunksender," or "world broadcasting station." Goebbels referred to it as his "longrange propaganda artillery." Germany used the system to send false news of the "Communist Jewish conspiracy" around the world, mostly directed to North America. At the time mainstream newspapers often called the information out as propaganda and avoided repeating it. Both the NYT and the Chicago Daily Tribune specifically referred to this tactic as "fake news," attributing it not only to Germany but also to the Soviet Union in the early 1930s.

The novel aspect of IDMs are the scope and scale that emerging technologies will afford adversities and organizations. They will be able to target organizations, geographies, and groups, and then let the IDM adapt to each individual in these groups in real-time, adjusting to their changing habits, opinions, and actions. This "microtargeting," or the idea of influencing the individual to achieve macro effects, will be able to be deployed at a scale that has yet to be seen.

Matt Chessen, "The MADCOM Future: How Artificial Intelligence Will Enhance Computational Propaganda, Reprogram Human Culture, and Threaten Democracy... And What Can be Done About It," The Atlantic Council (September 29,2017), https://weaponizednarrative.asu.edu/publications/madcom-future-how-artificialintelligence-will-enhance-computational-propaganda.

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# Adversary: A Failure of Vocabulary

### adversary (n. and adj.)

ad•ver•sary

noun.

a. Law. An opposing party in a dispute or legal action.b. gen. A person who (or occasionally a thing which) takes up an antagonistic position, or acts in a hostile manner; an antagonist, enemy, foe; (in weakened use) an opponent in a game, contest, etc.

### adjective.

a. Opposing, antagonistic, hostile, inimical; adverse.



The collective threat futures identified a wide range up traditional adversaries such as foreign adversaries (FA), proxies for FA (businesses, organizations), criminals, and domestic extremists. However, the threat futures also identified organizations who would not be considered adversaries but who could use IDMs in the future to influence individuals. These nontraditional adversaries included corporations, political parties, and special interest groups.

The scope of these organizations' influence occasionally existed in illegal or prohibited areas, but often, these organizations operated in gray areas or areas that were completely legal. However, ultimately, in each threat future where these organizations were using IDMs, they caused harm to the individuals and sometimes to larger organizations, states, regions, or the entire United States. The same techniques, as well as the same potential goals and targets, are equally apt to be used by entities traditionally considered "adversaries" by defense thinkers, as well as entities traditionally considered outside the defense purview altogether such as businesses. Any defenses against IDMs will necessarily have equal effects on businesses, organizations, domestic extremists, hostile foreign states, and so forth.

Therefore we find ourselves lacking the vocabulary to describe all of the organizations that might use IDMs. It exposes how influence in gray areas outside current law could change how we would define harm in the coming future and the nature of the response allowed by the U.S. Constitution.

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### THREAT FUTURE 3

# The Worst of Ourselves

#### September 2028. Atlanta, GA

"Where are the police?" Dr. Connie Dunne thought to herself. Outside, the car protesters amassed in front of her woman's health clinic. Both sides screamed at the other...the air was electric with violence...

They were all there for her...pro, and anti... the video of her performing a careless and unsanitary late-term abortion went viral...it was fake, but that didn't seem to matter now... Connie looked at the screen in her car...

"That's where the police are..." she shook her head. Across Atlanta groups clashed... abortion, guns, immigration, race...it felt like next month's election would decide the fate of the nation. The police couldn't keep up... it was rumored they were about to declare martial law...the aggression in Europe barely registered...

### Both sides screamed at the other...the air was electric with violence.

Connie's phone rang. "Hello."

"Connie, they have everything...they have everything!" Her mother was panicked and in tears.

"Wait, mom what? What do you mean? Who?"

"Someone got in...I don't know how...it's all out there...your bank account and taxes...Dad's medical records...Billy's DUI... all of it...all of it. It's all over the internet...those people..."

"Mom wait slow down..."

A savage crash and crackle of glass threw Connie back in her seat. A protester stood outside her car...crowbar in hand...

"She's over here!" he yelled to the mass. "That killer is over here!"

The protesters rushed her car.

"Mom...call, 911." Connie was sure they were going to kill her.

(Orange Pawn 2)

### THREAT FUTURE 4

# A Family Affair

#### 2029. Ottumwa, IA.

They destroyed her life...took everything...her husband George...the farm...now they were after her son Tom. Lilly Smythe never knew it was happening...that it was linked...until it was almost too late...now she knew she had to fight back...

Just a year ago Lilly thought her recent rise and online fame would be good for the family farm...everyone was interested in their soybean farming technique and data analysis...but it made her a target... SCO Holdings wanted her land, the farm's intellectual property, and her silence...none of the locals knew about the foreign state behind the massive corporation...

First, they went after George...targeted him... manipulated his digital feeds...changed him... connected him with Carol...When George stole their algorithms, the farm was lost...the divorce would be final in three weeks.

### When George stole their algorithms, the farm was lost.

Then they went after her... using George's betrayal...her success online...the failure of the farm...video by video... post by post...the community turned against her...the local church shunned her...

Now they went after Tom... at 13 he was impressionable... obsessed with online gaming...they used it as a way to introduce him to porn...connect him with the wrong people...Tom was withdrawing...disconnecting from his previous life...

Worried, Tom's local friends start a digital militia...reach out to Lilly...making the connection back to SCO...Lilly sees her chance...she might not be able to save her marriage or the farm, but at least she can try to save her son...

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# The Worst of Ourselves Ourselves Against Ourselves

Multiple threat futures explored scenarios where an IDM enabled harm to come to individuals with no adversary at all. The very existence of IDM and their ability to use the worst of ourselves against ourselves, exploit confirmation biases and filter bubbles that then ultimately turn us against ourselves. Several threat futures explored the weakening of our education system, crumbling of our society, and the peaceful dissolution of the United States of America simply because of environmental pressures without a specified adversary.

In every threat future generated in the workshop, IDMs utilize individuals' fears, prejudices, beliefs, and opinions to micro-target messages, media information, and narratives. These narratives are new and uniquely personalized to influence, manipulate, and harm. IDMs use the worst parts of ourselves against us with no opinion or judgment on the individual's beliefs. The goal of the IDM is to use those beliefs to get the person to change, destabilize their values, and take actions that they normally would not.

Recent early examples of this type of activity can be seen in the 2018 paper, "Acting the Part: Examining Information Operations Within #BlackLivesMatter Discourse." The researchers studied how Twitter accounts from the Russian Internet Research Agency (RU-IRA) shaped the online discourse during the #BlackLivesMatter movement and shootings in the U.S. during 2016.

The researchers noted, "Russian information operations were active in the #BlackLivesMatter discourse (using) a network graph of retweets to learn that at least 29 of these accounts did have a meaningful presence within the information flows of this discourse... different RU-IRA accounts were participating on both "sides" of the conversation—within two structurally distinct communities."

They found that the influence activity was split nearly 50/50 between those who were pro and those where were anti, meaning the IDM was used just to fuel a negative discourse without picking aside. Although the RU-IRA's agenda in #BlackLivesMatter is not known for certain, it is clear that causing civil turmoil within the United States would only help Russian strategic goals.

Perhaps the RU-IRA are taking a page from Ender's Game in which we find the same type of narrative manipulation happening behind the scenes for selfish reasons. The siblings of the protagonist, Ender Wiggins, used the pseudonyms Locke and Demosthenes to "take sides" in an online political debate about a war that would ensue following the end of the Formic Wars against the book's alien invaders. The debate eventually led to real war on Earth (notably between the United States and the countries of the so-called Second Warsaw Pact) and Peter Wiggins, the man behind "Locke," was eventually elected Hegemon.

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### **Business Proxies**

Unique to many of the threat futures developed in the workshop were instances of state and non-state adversaries using local, national, or international corporations that acted as a front or proxy for a foreign adversary. These business proxies then would use IDMs to exert influence or even destabilize other businesses, individuals, the economy, and national security. These proxies gave distance and plausible deniability to the adversaries.

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### Weaponizing Authenticity

In the face of a future where foreign adversaries and organizations increasingly deploy IDMs, how might we defend against a future where the truth no longer equals the truth? If IDMs can destabilize governments and organizations, incite violence and mistrust, stoke tribalism and partisanship, then how do we counter these effects? Two of the threat futures identified two possible counters to IDMs and explored the weaponization of truth and authenticity. Essentially they tapped into a culture that was unaware of IDMs and had grown weary and suspicious of being manipulated. In such a future, authenticity and truth can be weaponized to push back against IDM.

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# **Catastrophes as Amplifiers**

Multiple threat futures identified social, economic, or natural disaster situation that opened up a window of opportunity for an adversary or organization to deploy IDMs for political or personal gain. These catastrophes made people more vulnerable to the effect of IDMs and created a landscape where populations could be more easily destabilized. The catastrophe was a condition that allowed the effects of the IDMs to be amplified.

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### THREAT FUTURE 5

### The Authenticity Revolution

2029.

"All human beings have three lives: public, private, and secret."

– Gabriel García Márquez,

Zhang didn't mean to become a symbol...she didn't plan to launch a revolution...she just wanted some [space] for her secret life. Zhang just cut off her data for the weekend...

She didn't realize that going offline set off a red alert in the regime...triggered her team, handlers, and representatives to contact her... an official hand delivers a letter urgently, and she is summoned to meet with the Minister... Zhang realizes the significance of her actions... in a synthetic world, receiving something material from someone physically appearing on her doorstep signals just how far out of line she's gone. Her accounts are frozen, and her publishing keys have been removed. She has no ability to post or contact with people...

Zhang began to see the litany of the fakes that she and everyone else had come to quietly abhor...fake reports on natural disasters...fake government reports about official corruption...fake government reports about disease...fake government reports about prosperity...fake government reports about crackdown on Muslims...fake veil of safety and security...fake reports about potential adversaries...fake government reports about the success of colonialism...fake impression that people are happy...fake genes are being added to their children...Authenticity Revolution is born...

Young people made the quiet action of taking the stairs instead of the elevator...people decide to take the scenic route to work instead

Human beings become the malware in the system. The Revolution has begun... of the most efficient path... people choose not to wear biometric sensors. A fashion movement blooms around anti-surveillance apparel with high design mini Faraday cage purses and messenger bags. Art is handwritten. Music is listened to live. Skateboard culture explodes.

Human beings become the malware in the system...AI, and data-centric bondage mechanisms become unmoored...the Revolution has begun...

(White Pawn 1&2)

NOTE: For further discussion and analysis of this scenario see appendix

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# Implications and Actions

"Disorder can be socially, and often personally or positionally, subjective. One person or group's 'order' is another person or group's 'disorder'. These differences of opinion can drive politics and social action. ... The more complicated the system and its social ordering, ... the more likely it is that the system will fall into a state that can be labeled disordered by some group, requiring recurring forms of remedial action to maintain the ideal order...the cost in work and resources of maintaining complex societies in their order is unrelenting. Eventually, the costs are likely to exceed the returns. ... Disorder will always appear and always has politics."

Jonathan Paul Marshall, James Goodman, Didar Zowghi, and Francesca da Rimini, Disorder and the Disinformation Society: The Social Dynamics of Information, Networks and Software, (New York: Routledge, 2015): 7,

https://www.taylorfrancis.com/books/9781315693460.

A thematic analysis of the unedited future scenarios developed by the workshop teams shows several implications. The first is that information and communication technology development leads the charge in disruptive social, political, ideological, and institutional change. Each future scenario included some form of communication means, usually, but not always, on a social media platform where content and information can be conveyed on a one-to-many basis. The future scenarios included technology not yet perfected, such as ubiquitous autonomous social credit scores influencing which "tribe" someone belongs to or real-time deep fake manipulation during a live stream event.

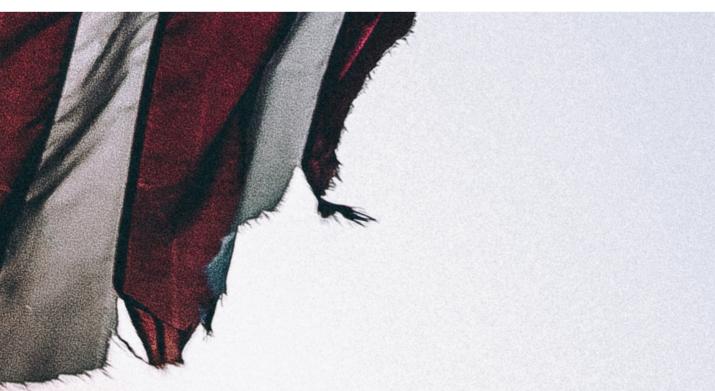


The second major implication is that IDMs are used to manipulate the social levers that motivate people and organizations to action. While technology changes were embedded in every scenario, it is not the case; however, that technology will determine the future; in every future prototype, technology is a catalyst that exacerbates underlying and pre-existing social conditions. Scenarios also did not focus on traditional benchmarks of success, such as business profits or educational achievement, as a motivating force for social change; what they did focus on were the powerful forces like individuals' perception of long-standing institutions, trust in government processes, and social inequalities.

Adversaries that manipulated perception, trust or enflamed visibility of social inequalities were far more likely to incite radical social change. And not all change needs to be violent or counter-cultural; some scenarios suggested IDMs would motivate people towards change through lawful democratic processes, such as a constitutional secession of Texas.

The third significant implication is that any solution to IDM activity cannot be successful through government intervention alone. Industries that use IDM tools (e.g., AI, machine learning, targeted advertising) and those that develop the technology behind IDM tools (e.g., academia, major technology companies) have equal skin in the game and are co-responsible for the well-being of social stability.

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# Flags: External Indicators

The Threatcasting process not only maps possible and potential threats 10 years in the future but also attempts to identify the flags or external indicators that could happen that would suggest a specific threat future was underway. Often, flags are sequential, with less apparent precursors already in effect, and the more alarming flags still over the horizon, yet it remains unsolved how to monitor them at scope and scale.

The implications from the IDM findings reveal a palette of flags, or events and realized situations, identified directly and indirectly from the threat future data, giving us specific areas to monitor for the progression of the possible threat futures. Marshall et al. propose that the progression of disorder is always subjective and therefore, the flags to look for that forecast the imminent threat, may also be subjective.

## TECHNOLOGY

- IDM Enabling Technology Development
  - The ability for AI and ML to specifically target an individual, processing their digital and data footprint (e.g., social media, media consumption, purchasing history, calendar, physical movement, domestic and civic activity) to specifically tailor media, messaging and data to influence their activity. Additionally, this IDM can adapt as the individual data footprint changes and morphs.
  - Advertising and marketing technologies that track individual consumer behavior and provide them personalized advertising from a preset collection of ads and messaging. This is followed by technology that can generate personal advertising in real-time.

## Opaque Technologies

- The continued use and rise of social media applications and closed platforms that can be co-opted by adversaries and/or that are immune to government oversight and control.
- The continued use and rise of opaque algorithms that are not auditable or accountable for their decisions.

### **CULTURAL & SOCIAL**

- Diminishing Faith in the Union
  - Popularity of the idea of a "Constitutional crises" and increasing conflict between local and national law enforcement
  - Public perception that sentiment towards the federal government is trending negatively followed by a growing fear that the government is no longer in control and needs to be bypassed to achieve social aims.
- Truth no longer equals the Truth
  - Lack of recognized and trusted individuals and organizations that can distinguish between real and fake information, cognitive psychology, behavioral economics, and post-modern media.
    - Cultural acceptance of deep fakes as the norm leads to the ubiquity of false information.

- Public trust in traditional knowledge development deteriorates and then fails.
- Local Conflicts
  - Local and national media facilitating local echo chambers to be exploited by a bad actor.
  - Insular groups are incentivizing certain behaviors over others.
  - Continued rise of racial tensions in states and schools.
  - Increased occurrences of community-level conflicts.
- Educational Shifts
  - Lack of college matriculation and increased drop-outs.
  - Rise of private alternative degrees.
  - Companies no longer valuing college degrees.

## ECONOMIC

- An economic crisis that weakens the US pushing companies to be open to unregulated Chinese investment.
- Chinese dominance in AI and tech advancements, especially those that require vast amounts of personal data to fine-tune.

### **CATASTROPHIC EVENTS**

Catastrophes are inevitable; as a flag, they are an external indicator of increased stress and an open window for IDM exploitation and activity.

- Pandemic disease outbreak.
- Natural environmental disasters (e.g., fire, flood, famine, rising sea levels).

## **ADVERSARY BEHAVIOUR**

- New Alliances
  - Adversary working directly with alt-right and -left, therefore, delegitimizing national conflict resolution.
  - Non-allied foreign governmental partnerships influence social media platform policies.
  - Unregulated foreign entity on social media.
- New Targets
  - Personalized adversarial (e.g., government, corporation) targeting directed at individuals and family members in different ways.
- Economic Enablers
  - Foreign governments unregulated purchasing of American companies
  - Acquisition of proprietary, personal, and other sensitive information through covert means.

## Actions

The Threatcasting Workshop uncovered not only threats and flags but also actions that could be taken to help mitigate, disrupt, and/or recover from the threats. Three high-level actions are centered on further research, technological and process tools, and regulation and oversight. These actions constitute a "whole of society" approach to problem-solving and have been applied to specific domain areas with detailed steps that can be taken.

All of these actions must be fluid to keep up with technology as it continues to change. As soon as a stopgap or detection protocol is created, adversaries will work on the way to defeat it, so there must be a dedication to continued monitoring and analysis. These action points also assume that the threat of IDMs are not because of the incremental changes that they bring about, but because they are aimed at fundamental institutional values and the future of the United States of America.

### GENERAL

- Business, governmental and public recognition that IDMs are a threat to economic stability and national security
   Conduct digital resilience campaigns.
- Cultural conversation about IDMs exploitation of the worst of ourselves against ourselves
- Develop info, facts and narrative concerning common benefits of domestic and international leadership
  - Explore new ways to deal with conflict resolution, such as making discourse and disagreement acceptable.
  - Weaponize authenticity Use truth and authenticity as an antidote or counter to IDMs and as a pillar of democracy.
  - Recognize digital addiction as a valid health emergency.

Development of technologies to detect, uncover and attribute the use of IDMs

- Develop general education on the limits of technology and the ability to detect deep fakes.
- Support of watchdog organizations to detect IDM activity and the conditions under which they will thrive
  - Actively work to discredit extremist information activities

### **MILITARY / GOVERNMENT**

- Develop and deploy counter-narratives and emphasize communal global factchecking.
- Develop laws around medical misinformation.
- Develop government standards and industry (self) policing for technology development.
- Acceptance of a valid third party in the U.S. government.
- Review of foreign purchases of US companies for awareness of proxy activity.
- Mandate tools to identify manipulative actions in AI and tech.
- Congressional commission on data, info sec, online manipulation, parents education.

- Adopt safe AI standards nationally and in collaboration with industry.
- Mandatory military draft allowing first-hand experiences to speak to the mission and trust of the military.
- Seek financial security of public schools.
- Increased awareness and action from citizens and government against misinformation sources.
- Foster organizational and local government resilience, rapid response team to expose deep fakes and misinformation during catastrophes.

### **ACADEMIA / EDUCATION**

- Develop general education on the limits and ability to detect deep fakes.
- Develop education on stepping back from technology.
- Develop technology to backtrack all social media friends (non-Al).
- Education for the public about the consumption of networked information, legislation, and technology to regulate.
- Offer financial incentives, lower costs, and watch enrollment in post-secondary education.

#### Industry / Trade Association / Non-Profit

- Cooperate with governments on factchecking without violating freedom of speech rights.
- Deploy counter-narratives, communal global fact-checking, laws around medical misinformation.
- Develop industry standards for prodemocracy/pro-privacy norms and principles around AI and social scoring or incentivizing systems.

### **CULTURAL / CITIZEN**

- General awareness and hardening against psychological manipulation.
- Become informed parents and schools, peer groups, community.
- Seek education for the public about the consumption of networked information, legislation, and technology to regulate.
- Understand that the cloud is not your friend.
   "Never trust a computer you can't lift."

#### ADDITIONAL SOURCES NOT YET CITED

Maan, A. (2015, December 3). "Narratives are about 'meaning,' not 'truth." Foreign Policy. Retrieved from https://foreignpolicy. com/2015/12/03/narratives-are-aboutmeaning-not-truth/.

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## THREATCASTING METHODOLOGY

While the threatcasting methodology was briefly discussed at the beginning of this report, this appendix provides more details to inform "how the sausage is made".

The key to the process is the people. Participants come with a range of experiences, expertise, education, and passion. They are pre-assigned into 3-4 person groups for the duration of the process. They groups are specifically curated to take advantage of the diversity within the larger group. This small group assures that every member can express her/himself. Also the small group size allows for in-depth discussion and debate.

A fundamental component of the threatcasting process is selecting the appropriate research inputs to feed the future modeling. These focus themes are selected to explore how their evolution from today contributes to the future but also how the intersection of the focus areas' growth modify each other. To select these themes, senior leaders inside the problem space and thought leaders outside the problem space are consulted on what "keeps them up at night" or what they feel no one is focused on yet to determine the severity and urgency of the proposed themes.

Next we curate and find SMEs to inform and bring these focus areas to life within the threatcasting sessions. These SMEs are individuals that can quickly describe the current state of their domain and how it might evolve over the next decade. They provide clarity to help participants hone and define threats in the future. Transcripts for the SMEs' input are transcribed in Appendix 2.

## **THREATCASTING IS A FOUR PHASE METHODOLOGY.** Phase One: Research Synthesis

Research synthesis is the first phase of the threatcasting methodology. The purpose of this phase is to allow each small group to process the implications of the SME provided data while gathering the intelligence, expertise, and knowledge of the participants in the Research Synthesis Workbooks. These workbooks are located in Appendix 3.

During this phase, all participants listen to each SME's presentation but they are assigned a specific presentation on which to take notes. At the conclusion of the presentations, they break into their assigned small group. Within these groups, they identify key elements and interesting points from their assigned presentation and conduct initial analysis. They explore, for each of these points: 1) what the larger implication of that point would be within the future, 2) characterize this as either positive or negative, and 3) list ideas for what we should do about it. The "we" is purposely broad as the input can be personal to the small group, the collected team in the room, the entire company, or the entire human race.

The output of the research analysis phase is a numbered list of these key points from the SMEs as determined by participants.

## Phase Two: Futurecasting

The core of the threatcasting methodology begins with phase two of the process. Each future is based upon the Research Synthesis Workbooks.

At the start of this phase, the participants return to their small groups and select a single data point from each of the SME presentations as described in the Research Synthesis Workbook roll-up. Groups make selections via random sampling with replacement for each SME. The instrument for sampling are 20-sided dice. Without this randomness, people often pick "easy" data points that fit with their view of the future. These points establish the framework of the future environment that they will model.

After establishing the visualization of the environment, the group imagines a specific person living in that future. The group envisions who the character is, whom their family is, and the broader community with which they identify. Then the group explores where the character lives, thinks about their occupation and visualizes what constitutes their normal way of life. 45

The physical or digital instantiation of the problem caused by the threat is the "event". To better model and understand the event, the small group is asked a series of questions which are recorded in the worksheets in Appendix 3. Going beyond just the "5Ws" of traditional information gathering (who, what, when where, why) these prompts are specifically designed to create a more well-rounded narrative describing the threat.

Then our perspective changes and the groups see the event from the adversary's perspective; exploring potential roadblocks or barriers and thinking about new business models and practices to enable the event. We imagine the technology that would help facilitate the threat and what support systems are required. Finally, we think about the training necessary to enable this threat. This change in perspective helps the small group to better define the threat, visualize the adversary's motivations, and understand their desired end state that will be disrupted, mitigated and recovered from.

The end state of the futurecasting phase is that each small group has created a story about the future.

## Phase Three: Backcasting

The third phase of threatcasting is the backcasting process. Here, still in these small groups, focused on the narrative they have created and the threat that they described – the groups think about what could be done to disrupt, mitigate, and/or recover from their defined threat actor.

During backcasting, there are two types of events that the groups explore. The first are gates. Gates are things that defenders (government, military, industry, etc) have control over that could disrupt, mitigate, and/or recover from the threat. These are things that will occur along the path from today to T+10 years. The second event type are flags. Flags are things the defenders don't have control over but once they occur, there is no going back. These flags should have a significant effect on the envisioned future. These are events we should be watching out for as heralds of the future to come.

Once the events are imagined, the small groups then timeline the actions to disrupt, mitigate, or recover from the threat. Thinking about the actionable objectives that need to occur in the next four years and also in the four years after that in order to protect against the future described threat. This iterative exercise gives the participants a chance to see how actions today can be built upon, achieving and interim goal and eventually guarding against the threat.

At the end of phase three, each small group reports out, telling the larger group a story about their person in a place with a problem. They describe the threat and what could be done to disrupt, mitigate and recover from that threat. Finally, the session ends with a discussion of the process and the collection of threats. The assembled group looks for patterns in the aggregated futures and also looks for areas that were not discussed. The session is concluded, leaving the entire group to continue to think about the futures.

## Phase Four: Analysis and Final Report

Following the threatcasting session, the moderators use the Research Synthesis Workbooks as well as the small group Threatcasting Workbooks as raw data for a post-analysis. Reviewing each workbook, the team of moderators look for patterns in the futures and for areas that were not explored.

This synthesis exercise generates an aggregation of multiple futures and threats. Secondary research as well as the backcasting details from the practitioners give the team the raw data needed to make specific recommendations for near and long terms actions to be taken. The final report collects the SME inputs, the participant worksheets and the team's post analysis. The post-analysis consists of multiple clustering and aggregation exercises to determine the patterns in all of the futures modeled during the event. These clusters are then examined in light of the SME presentations, looking for possible inconsistencies or areas that need more clarification. Additionally the team highlights areas that perhaps the groups did not model but were strong themes in the SME presentations. Combining all of these together, the team makes specific recommendations for next steps and areas of action, informed by the backcasting (gates, flags, milestones) provided by the participants.

## **RESEARCH INPUTS: SME TRANSCRIPTIONS**

Three curated inputs from cross-industry experts helped inform the futures we modeled.

Transcripts of the videos are located below. The following research inputs were transcribed by machine and were not further edited. Some context might be missing or misplaced.

## Benjamin T Decker CEO of Memetica, a digital investigations consultancy SME Video Transcript

My name is Benjamin T. Decker. I'm the founder and CEO of Medica, a digital investigations consultancy as well as a threat analyst at the global disinformation index and a contributor to the New York times visual investigations team. As any major headline will tell you, we're living in an era of weaponize paranoia, a war over the truth, and the erosion of the scientific method. In dissecting the problem at large, which we will call information disorder, we can identify three basic kinds of problematic information. Misinformation is the unintentional sharing of inaccurate information. While this information, our main bucket is the deliberate fabrication or manipulation of media mal information otherwise known as leaks are the intentional publication of private information with malintent disinformation is platform agnostic. It jumps from one site to another, often bursting from the darkest corners of the internet to the most open public squares too quickly for any one company to intervene, a meme that's down ranked on Facebook for say a false headline can still find its way to Twitter, Instagram, YouTube, or Reddit.

Malicious actors who have exploited and leveraged vulnerabilities and platform architectures to launch disinformation campaigns, online harassment and other forms of information disorder campaigns are often coordinated and anonymized forums and other fringe digital platforms for it being amplified across Facebook to exploit platform algorithms and maximize public interfacing 47

exposure. Memes are one of the most problematic types of content featured in any dissent formation campaign. Richard Dawkins first coined the term in 1976 defining it as a unit of cultural information spread by invitation. While Lemoore Schiffman recently updated the term by defining memes as a new form of civic participation. Mimetic just information is particularly concerning conspiracy theorists and radicalized racist who remained at the fringes for decades hijack the digital ecosystem to push ideas into the mainstream, shifting the Overton window as they claim by creating weaponized media infused with nominal partisan political issues such as immigration and national security in order to cloak more toxic views on race, gender, and religion.

The amplifiers of this content are most effective as a critical juncture along the path of red pilling, I. E. the recruitment of more mainstream and critically minded individuals into such a toxic echo chambers. In order to map the disinformation landscape, we can divide the web into four types of platforms. Open networks like Facebook, Twitter, YouTube, anonymized networks like four Chan, gab, Reddit, and discord. Secure networks like signal, telegram, WhatsApp, and then there's the dark web, each bucket of platforms, so there was a different purpose in mimetic disinformation campaigns. Ostensibly there are four general utilities, content creation, strategic communication, tactical dissemination and amplification. Just information agents, whether domestic, political operatives, farright trolls or those acting purely for the Lowe's. Operate a bit like brush fire, arsonists setting small blazes of information in places such as four Reddit and gab where it's easy to for sparks to jump over the firebreaks and go main stream.

More bad actors often stand at the ready to fan the flames. Once in me, he was in wider circulation. Many disinformation campaigns are often defined by their ability to garner media coverage using online media strategies to push for offline consequences for the intended target. This could mean pushing a narrative so far into the mainstream that it necessitates press conferences, initiates political protests, or at its worst insights mass casualty attacks against innocent civilians. We've seen the ultimate consequences of mimetic disinformation play out in Pittsburgh, Christchurch, and most recently Poway California, where radicalize the internet is, and it's took their mimetic online activities offline. resulting in the mass murder of innocent prayer worshipers in each of the three shootings, but far more so in New Zealand, in California, the perpetrators intricately planned media operations alongside mass casualty attacks to achieve two gains, kill members of a community perceived as the oppressive enemy, and inspire others to commit similar atrocities and join a leaderless and transgression movement promoting violent extremism.

## Vint Cerf, PhD (Chair) and David Bray, PhD (Executive Director) People-Centered Internet coalition SME Video Transcript

My name is David Bray. I'm Executive Director for the People-Centered Internet Coalition. And I'm here with Vint Cerf who is both the chair for the People-Centered Internet Coalition as well as an internet luminary in terms of his role, pivotal role in helping to co-create the internet. And we're here to talk to you the about the challenges of dealing with polarizing misinformation and social wedges that are created and how we collectively might play a role in as part of open societies to try and address it. And so with that, I'll start with asking you a provocative sort of thought experiment in terms of what could we do to help people become more aware of their biases, confirmation bias when they're locked in and they're no longer receptive to facts swaying their position.

#### Vint Cerf:

So this is actually a real challenge because not everyone wants to be reminded that they have biases and they don't want to be told you're wrong about something or your beliefs around, uh, this, this sort of that you can't tell me I'm wrong. Attitude is pretty hard to get over. So, I think we have to be more subtle about how we help people discover their biases or their...[pauses]

#### **David Bray:**

Cognitive ease?

#### Vint Cerf:

Well, it's not cognitive ease. It's the problem when you get into confirmation bias, that's the problem. We get people who are, uh, get comfortable in a feedback loop that says the only thing that must be true is what they believe, et cetera. I know that there are some people who when they encounter misinformation or what they think might be misinformation, uh, will actively go and look for Snopes, for example, to see whether something is known to be, uh, simply, uh, you know, an urban legend. But not everyone's willing to do that. We should draw attention to those kinds of sources of information that are available and we want to highlight information sources that we believe are trustable. Um, but I think as you imply and all of this, we have to find, you use the term cognitive ease. I think that's very valuable. How do we make people comfortable asking questions? Like, where did this information come from?

#### David Bray:

Excellent. And, and add my own thoughts about this there. There may need to be efforts to try and monitor and help people be aware of in the last five or six actions that you've done. You've tended to go this way and you might be okay with it. Or the technology could actually hold a reflection to ourselves and say, here at least when it comes to either hiring biases or approaching new sources, you tend to go to these outlets. It's almost like we need to have the ability to hold a mirror up to ourselves and let us know if we, we seem to be consistently going one way and maybe we're okay with that. But in this increasingly challenging world in which there's all these different information sources, we need to embody what Lincoln said, which is I do not like this man. I must get to know him better.

#### Vint Cerf:

So speaking of this, in mirrors in particular, the internet in some ways is a mirror of this society thing we live in. Certainly, does social media. as an example. And if we don't like what we see in the mirror, changing the mirror doesn't help very much. Uh, even though 49 there are people who would say, well, can I just suppress this information? Can I just filter it out so that nobody will see it? That's called censorship. And even though, uh, we generally tend away from that here in the US and because of our freedom of speech commitment. It does raise an interesting question. At what point is, is it, uh, censorship that that's bad, uh, when you decide to suppress certain information and when is it a question of either national security or safety, um, example, you know, uh, injections, uh, of vaccinations cause autism is not true. It's been proven that to be true. And vet some people still believe it. At what point do we decide we should filter that out?

#### David Bray:

That is the, the, the great question that hopefully everyone gathered at Arizona state university might be able to help answer, Oh, add my own sort of lens to that, which is we've tolerated to the degree uses of confirmation bias and cognitive easing for the purposes of whether it's advertisements or marketing where something's repeated to you over and over and now you really want to buy it. Or for political rhetoric purposes and political influence purposes where maybe something is skewed in terms of how it's shared with the public or it's repeated enough. And so, it's trying to make you think, and the interesting question is, at what point is that kind of like removing wrinkles through Botox? But the trouble is botulism toxin can also paralyze you, stop you breathing or even kill you. The question is, when are we okay with skewed information, misinformation or using cognitive ease effects for advertisements or political rhetoric? And when do we draw the line and say, okay, now we're actually beginning to kill society. And I think that's going to be the hard question and we look forward to what people can say.

### Vint Cerf:

The sort of the core question is, at what point is the cure worse than the disease?

R. Bradley Snyder President New Amsterdam Consulting Executive Director Dion Initiative for Child Well-Being and Bullying-Prevention Award-Winning Researcher, Author, Activist, and Aging Malcontent SME Video Transcript

The generation of children born somewhere after the mid-1990s is alternatively known as the "Plurals Generation," the "Homeland Generation," and even "Generation Z." And it is the most diverse generation in the history of the United States. It's diverse not only in terms of its demographics, but it's diverse in terms of its friends' circles and in terms of its preferences, its likes and its dislikes. Some of this diversity stems from things that we, as the adults, have done for them. First, we've created a society that has become more equitable and has increasingly valued diversity, but we've also given them powerful, powerful digital tools that have allowed them to experience the world without borders, without constraints. They'd been called "digital natives" because the tools that they had from the earliest memories were capable of all these amazing things, and they were always with them. And, as a result, they've started to expect certain things from their experience.

First of all, they expect that, if they want to participate in a story, in a campaign, in a movement, they want to be able to do that wherever and whenever they are and, kind of, however they want to participate. It's easiest to think of in terms of a story like Harry Potter. A child who enjoys the story Harry Potter wants to be able to sometimes watch the movies. when they're in that mood. Sometimes they want to be able to watch short clips about the movie. Sometimes they might want to see a video of somebody who is a lot like them talking about what they like about the movie. Sometimes they might want to read stories that were created by other people that liked the movie as much as they do that expand that original story. Sometimes they want to be able to play a video game about that story so that they can feel like they're actually inside it, and the powerful tools that we've given them as adults allow them to do that, to participate in that story wherever, whenever, and however they want to.

The downside, of course, is that if you have a story, if you have a campaign if you have a product that doesn't allow them to experience it in all of these different ways that the current generation wants to, well they'll leave that story, that product, that campaign. They'll find a different one, or maybe they might even create their own. You know, starting in the late fifties we moved as a society from a more authoritarian way of parenting to a more participatory style. What that means is over the last seven decades, we've slowly started to involve our children in more decision-making processes, and we've exposed them to more of our own feelings and our own experiences as adults. Consequently, our kids are pretty stressed. This current generation has levels of stress that have never been seen before, and it's partially because not only do they have their own stress of trying to become fully formed humans in a very complicated world, but they also now experience the stress of the adults around them. As a result, this generation is a very serious generation. They're very, very committed to causes. They're committed to their own family's financial stability, but they're also committed to a more equitable, more ecological future for everyone, and they understand hard work and they are willing to put in the hard work to make those things a reality. It's a pretty amazing generation. I'm looking forward to seeing what they do.

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## Further Analysis of Weaponizing Authenticity

"Weaponized Authenticity" and "The Authenticity Revolution" refer to the scenario in which deep fakes and similar ever-more-potent in-development weapons in the narrative attack arsenal become ubiquitous. As a result, increasing numbers of people no longer believe anything they view or read or hear on the internet.

This loss of trust leads to the battle cry, "Never trust a truth you can't touch." (This is an homage – conscious or not – to the Enlightenment principle that truth can be recognized only by the evidence of the human senses to which reason has been applied.)

In this scenario, The Authenticity Revolution starts behind the Chinese Great Firewall. All indicators suggest this scenario is already nascent today. As this future unfolds, and the internet fragments, other armored and ring-fenced communities emerge where there is no access to verifiable external reality via electronic means. In those places, similar home-grown revolts also spread.

These revolts are against anything perceived as possibly being controlled and exploited by others in a malicious fashion. Especially in highly controlled societies, innocent behavior becomes a signifier of those sympathizing with or participating in the revolution (e.g., taking the stairs rather than using elevator technology).

"The messages are a potent amalgam [in China] of contempt for railway authorities, suspicion of government explanations and shoe-leather journalism by citizens and professionals alike. "From a Hubei Province blogger. "I just watched the news on the train crash in Wenzhou, but I feel like I still don't even know what happened. Nothing is reliable anymore. I feel like I can't even believe the weather forecast. Is there anything that we can still trust?"

"The government censors assigned to monitor public opinion have let most, though hardly all of the weibo posts stream onto the Web unimpeded. However, many experts say they are riding a tiger. For the very nature of Weibo posts, which spread faster than censors can react, makes weibos beyond easy control. Moreover, their mushrooming popularity makes controlling them a delicate matter."

"A worker comes to Beijing, to Communist Party headquarters, and asks to see Chairman Mao.

A soldier stops him. "You can't see Mao," he says. "He's dead."

The worker returns the next day and again asks for Mao. The same soldier turns him away: "You can't see him. He's dead."

The third day, the worker returns, and insists: "I must see Chairman Mao."

The soldier loses his temper. "I told you yesterday and the day before that. Chairman Mao is dead. Dead! Dead! Dead!"

"I know," says the worker, with a smile. "I just love hearing you say it."

That is the first joke I remember learning. I was 6 years old when I committed it to memory and started retelling it.

You may say that a small child telling a joke like that is "not normal." Then again, we're seeing and hearing a lot these days that is "not normal." It's what we say when we see slippage in our democracies when authoritarian leaders violate norms."

"A seemingly youthful Chinese vlogger known as "Your Highness Qiao Biluo" was outed to be a 58-year-old woman when the face filtering software she used to make her look younger glitched during a Livestream.

"The vlogger used a beauty filter to pose as a much younger-looking woman on Chinese live streaming website Doyu. During a live stream with a different vlogger, Qiao Biluo's face filtering software stopped working, revealing her true likeness to her viewers — and raising questions about how we present ourselves on the web."

The revolt against the influencers:

"Over lunch this spring, Nikola Burnett, a 15-year-old who always carries two cameras — one film and one digital — sat staring at an Instagram selfie, perplexed. The subject was Miquela Sousa, better known as Lil Miquela, a 19-year-old Brazilian-American model, musical artist, and influencer with over a million Instagram followers, who is computergenerated. "She's not real, right?" Nikola asked me shyly. She knew the answer, but something about Miquela made her question what her eyes were telling her."

"These twenty acres feel like both a real and a symbolic bulwark between a receding life of authenticity and the digital realm of vicarious experience. "There are things about the modern world that I am not going to get on board with," Manning says as we pause to admire a persimmon tree that figures into several of his poems."

"Generally, millennials and Gen Z have a more nuanced understanding of advertising and manipulation than any generation before them. They see through the tricks of the trade and instead want something genuine."

these could serve as examples of push back such as Instagram "influencers."

https://www.nytimes.com/2019/04/03/world/philippines-hotel-influencers-social-media.html

https://www.theverge.com/2017/8/13/16125852/identify-twitter-bot-botometer-spambot-program

https://www.nbcnews.com/tech/tech-news/after-mueller-report-twitter-bots-pushed-russiagate-hoax-narrative-n997441 even recent LinkedIn example (A spy reportedly used an Al-generated profile picture to connect with sources on LinkedIn)

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https://www.theverge.com/2019/6/13/18677341/ai-generated-fake-faces-spy-linked-in-contacts-associated-press

https://www.theatlantic.com/technology/archive/2019/04/influencers-are-abandoning-instagram-look/587803/ possibly Twitter bots.

## **IDM RESEARCH SYNTHESIS WORKBOOKS**

After listening to the three-curated inputs each group, assigned to one speaker, synthesized what they heard and plotted data points accordingly. With each data point they carefully examined implications of this data point, if the implication was positive or negative, and any thoughts around what might be done to encourage the positive data point or mitigate the negative. The first twelve pages of this appendix contain the role up of all the groups' data points for each speaker. This was necessary for the threatcasting inputs. The second half of this appendix shows all the raw data for each group individually.

The information found in the following pages is raw data and has not been spell checked or edited in any manner.

#	Data Point	Implication	Positive or Negative?	What should we do?
1	Diverse: demographics, preferences, likes/dislikes	Contributes to fragmentation across society (but isn't the main driver of it); also: hopeful and idealistic; forcing traditional organizations (i.e. churches, universities) to relook traditions of acceptance	positive	Either increase tribalism & fragmentation OR increase inclusiveness at potential the cost of maintaining traditions
-	oneise, demographics, preferences, incloudings	Borderless world - may be providing basis for nativism and xenophobia; sexual contact starts later, but exposure to pornography is earlier and more intense —> easier to isolate self than create	positive	Encourage non-geographic similarity a connection; must consider the implicat
2	Given powerful digital tools "digital natives"	relationships; physical geography matters less	negative	of a technological fix Generate support from large
3	Universal acceptance	Also seeing a rise in identity politics	positive	geographically diverse groups
4	Expectations: participate whenever, wherever, however	If there are products w/o experiental expectations - leave or create own; relying on own experiences is a cognitive bias which leads to easier acceptance of tribal narrative; "Truth, "Beilef," "Acceptance," and "identity" are different	negative	Opportunity to drive people off product platforms) or towards products (or platforms) based on participatory expectations; opportunities to "detox" take a break from tech
	Marketing and product-oriented organizations control the technology	Limiting or controlling the tech is not viable; too many interests; dual-use with positive/negative uses; whole of society contexts make it useful for many different domains	negative	
6	Participatory parenting	Conservative person tends to more authoritarian parenting style —> specific to class structures and world view; more liberal person tend to more participatory parenting style; context of course matters;	negative	Cutting off from mainstream culture (i. home schooling) due to threat that kid being influenced too strongly
_	High stress dealing with own youth and adult	High stress <b>relies heavily on heuristics</b> (i.e. one's "narrative") rather than "system 2" rational analysis; External manipulator can use this info and fear, anger, other powerful behavior drivers to move to		add delays into the system, so the co
7	situations	action "Equity" is a trick word> to libertarian, equity	negative	responses drop
8	Committed to equity and own family finances	means keep what you earn; to others, (egalitarians) equity means sharing amongst all;	positive	
9	What is impact of older generation?	Lack of "adult" mentorship; use of "adult" organizations to communicate to next generation (builds "tribal" societies); victory of Rosseau over Voltaire	negative Transition to US tribalism may have future benefits akin to other tribal structures	form interest-based connections acro generations
10	Perspective from privileged American gen Z	Brains develop differently ; two-tiered culture (access vs non-access)	negative	form interest-based connections acro priviledge/non
11	Hard to descern misinformation and disinformation	in order to know facts you have to investigate multiple sources, and shorter attentional span and overwelming data makes a single individual might be interesting in digging for the truth. Only really care if it is entertaining, but fact based narrative is not required. Distrust of fact based scientific narrative that cannot be experienced.	also hard to prove validity of sources or arguments. (The Death of Expertise) the digitalize of online sources and broad availailbity of information lets all become experts. Still takes time to ingest data. How do you acknowledge experts. Involvement of experts in false narratives discredits experts. Deligitimization of these experts.	
12	Friend cycles and preferences and invovlement in choosing	Diversity of Friends and friend groups causes the Z to discredit experts and "think tanks" and as a result will not provide the market as they walk away from the nonexperiential learning with high bar to entry.	We have brought them into the decision making process and will expect to be included. The deference to experts is going to be problematic.	need to have think tanks, educational institutions to have transparent fundii reports to trace the funding and estable the ligitamacy and bias of funding. Nu engage in countering misinformation show the real value of experts. They provide solid, scientific based arguer and aggressively discret false informs Not enought to prove the point, need also address distractors or differing opinions.
	Online Friends are Real	trust element in the internet	Skills to identify online charlatans and in person are different. However, we have to admit we have met people in real life that were trying to decieve us or market to us.	
14	Working for good and value of fairness	project fairness onto others on the internet and reject the idea that others would be trying to deceive them for nederatious reasons.	Will probably not project across cultures. VContactia and other russian media are different and discimating the false narratives aggressively for their own purposes. Campaigns have to address the impact on the social good or create the alignment with the social.	Important to be looking at across cult and platforms to track and enforce ac the russian networks. Similiar to UN to be created to regulate Facebook, il cannot be just be ruled by US Law. A design of thinking of companies vs countries. Beyond Westfalia.
	Experiential Learning on and off line, and	can't control how the experiences are constrained,	Lack of normative causes them to distrust everyone, but trust themselves. The volumne of	Not enough to just put fact based information into the public square. N explain why they need to value a part piece of truthfull information. We nee establish new metrics of trust and fin ways to teach both what is right as w
15	participate in the narrative	difficult to get different opinion They will look for diversity of opinion on the internet as a part of their explortion but it is very hard with architures of internet to break into differnt thoughts. Russian propaganda is also online but in different	variety of narratives and truth gets disregarded.	incorrect Babel Fish type technologies to have
16	Their resources are online, mulitute of public squares online	roussian propagationa is also onlinite but in dimerent forums so you will not find them if you are not on those networks. Reinforcement of bias and huge amount of information available to confirm their biases. The	Believe that the resources reflect the entire world, but are really only a fraction.	time translations across language bar to facilitate a truly global perspective.
17	Enjoy reflections by friends on these they like, not on same tools as the other generations. Utube Channels and peers networks	ability to spend huge amounts of time on one topic limits the time to absorb the breath of society and issues across society.	Positive if you can influence the peer groups, and will be equally difficult for all narratives. Impression bias and clickbait type informtion can	Need to find ways to convince influen members of peer and get these influe to replace the role of experts and auth
18	Many tasks so work to complete to get to next - speed of injestion	A huge amount of stimuli can mask lack of depth Increase of stress for tasks that cannot be finished	cause messages to be transmitted unintentially and operating at the same speed as information is critical.	
10	Tools are always on so need to finish now	quickly, hard to keep the huge list of pririties that need to come back to and attempt to finish. Expect to be able to participate however, whenever and whereever they desire		how do we create the scaffolding to a the information to stick and also have informaiton when it is requested.

20	Diversity among Z and between millentials	How do you educate and inform such a diverse population that are coming with such a diverse backgrouds as well as interests. Will walk away if not involved, but need multiple narratives to engage across the society.	Develop of the message/narrative can take longer than the "news cycle" causing the truth to be shooting after the duck.	Method as well as the product becomes very important. If you choose and succeed with the audience, you still only have a small part. Levels of differsity and interestes are consistently changing.
	Children born after mid-90s are most diverse in terms of friend circles and preferences. Both societal values and because of the digital tools available	(Assumption: valuing diversity means diversity within social circles) - This suggests that there is more potential for people to be exposed to view points and experiences different from their own	Positive	1. Create a campaign that leverages this trend in Gen Z as a motivation for the older generations to do the same thing. 2. Campaign targeting Gen Z to encourage expanding beyond diverse social circles into valuing discourse
22		(Assumption: valuing diversity means that the differences between social circles is greater) - this suggests groups are getting smaller and the distance between them is increasing	Negative	<ol> <li>Campaign targeting Gen Z similar to early 20th Cent to encourage activities that are social good (meeting other people, engaging in discussion) ref Heinekin ad about building a bar</li> </ol>
	They expect to be able to participate in all the data sources (cause, film, game, etc) they have access to and want to be able to participate in a number of ways and situations	The communication that wins init just based on the message, it is also based on the medium that lets Gen Z interact in the ways they want. Which means merit of message is less important than sophistication of medium (which biases for money and resources) and less important than accessibility (the more ways you deliver the message the more likely you are to win - Baader Meinhoff phenomenon)	Negative	Come up with multi-modal methods of communication rather than old fashioned PSAs/websites. Personalization; target audiences need to be able to relate deept).
24	They are more stressed due to their parents sharing more about what is stressing them	Gen Z is indoctrinated into high stress world views at a very early age, which makes it hard to get them to even start to think about how to question those views	Negative	This is not really new, parents always indoctrinate their children. Focus on education around critical thinking
25		The childish behavior (sharing of weaponized memes, etc) of parents is now much more visible to children due to them being on the same social media platforms	negative	Ad campaigns targeting parents to stop role modeling this behavior - this generation's version of "I learned it from watching you dad!"
26		Children that grow up watching their parents spreading weaponized memes will think there's nothing wrong with having political leaders who behave that way and in fact may prefer it Everything they are committed to is utterly critical to	negative	<ol> <li>Focus on education, setting examples and role models of what good behavior looks like - (ala sex ed, stop smoking).</li> <li>Create policy that prevents echo chambers</li> </ol>
27	Very committed to causes, more serious, understand hard work	saving the world (regardless of political leaning).		Create more opportunities for cross-group
21		They are much more likely to be tribal	negative	collaboration 1. Greate more opportunities for cross- group collaboration. 2. Use social media to amplify spaces for constructive collaboration 3. Drive the concept of self-policing; communities are responsible for holding their most extreme members to a standard of good behavior that they
28		lean into things that are uncomfortable	positive	would want to see from the other side
29	They value diversity and want to create more equitable society & environment	Given the opportunity they might be willing to actually voluntarily do work to make this happen	positive	Create a public service program for people to participate in creating positive environments
	This generation has never had "no access" to the Internet		positive	childhinchia
	This generation has had social media from the start			
	World wide this gen pays attention to the latest communication trends and don't want to be left			
	behind This generation has had the war on terror for their			
	entire lives People gain their identity from their groups and we are seeing more fragmentation into smaller and smaller groups			
	Flawed analysis that got us to the discussion of	The perceived power distance between GEN Z and	Initial reaction across the board is negative for all of these data points and implications however we	
35	GEN Z. Protests challenging DoD working with corporate America. The generation should influence what	older generation is an actual reality vs belief. 1% of the population having experience with the DoD. How does the DoD stay on the forefront of the	have not fleshed out.	Drink a beer!
36	projects their companies undertake not just what individual projects "they" undertake.	free world when an inherant distrust is present to what the DoD does.		
37	What drives these technological companies? Generation Z has more leverage with these companies. Their work will have impact not two years from now but two weeks from now.	Is it money, is it resources or is perception that drives these companies? To what extent is their a tension of a company that its purpose is to make money vice provide greater good to the community? Global companiys (perponderance of US companies) are driven by GEN desire. Compromise maybe the true driving initiative. Company is optimizing not soley based on profit. The compromise on the bottom line vs other values.		
	GEN Z willing to work hard but need to see	The need for physical communities will diminish. Perhaps the pressures to hold them together is		
	immediate impact. Active roles in political and social activities.	diminishing or becoming harder Equity issues of relationships as employees of a company vise GEN Z ers as consumers of society. GEN Z will not give up things like Twitter even though it has some of the most hateful and divisiness present.	Negative	
40	Millenials and GEN Z will be 75% of the workforce WOW!			
41	Technology is disaggregating posisty	The amazon example driving companies to certain methodologies shipping to home vs travelling out to purchase things.		
	Technology is disaggregating society. The Industrial Revolution made the US what it is	to purchase things. Institution are inadequate to address the present		
	but the US is no longer in that econmic state. Any place, Anytime, Anyway	much less the future and will brake the paradigm.		
	Self organization takes place now in cyberspce			
44	because of the limits of the terrestrial space.			

Speaker 2 Consolidated				
#	Data Point	Implication	Positive or Negative?	What should we do?
1	Censorship	Is this too broad of an issue?	Can be either	
,	Cognitive Food	entice people to self-reflection, and then engage	Neither	If you want to start a revolution, throw a better
	Cognitive Ease	with learn, and potentially embrace new truths? People on all sides virtual signaling, the internet as a mirror of both the society we live in an the	Neither	party.
	Confirmation Bias	identities we wish to fortify.		
4	how to make people care about	throw a better "party" to entice Distorted reflection as a hall of mirrors - opportunity		As internet become more integrated into society, internet less of a mirror because becomes and
5	the internet as a mirror	to amplify certain divisive features, perpetuate them, threaten/exclude other perspectives	Both	extension of individual selves - As becomes mor integrated, less ability for anonymity
6	self harm/otherize	Self-destructive behavior is no longer *self* destructive in a connected word.		
7	so much of democracy is about the process of contesting knowledge. It works when we're able to have a healthy media/knowledge ecosystem. the fact that so much communication happens out side of the view of media	Ease of access to constantly-present information		
8	things are subtle:memes, not quoting sources, complexity of language, signals&signaling, rhyming as away of signaling meme, playground bullying with machine learning, signals get the confirmation bias going	Journalists, fact-checking, and knowledging contesting / synthesis breaks down. If '90 percent' of human communication is non-verbal, what's the non-verbal communication equilivant of online.		What's the immune system for toxic signaling an non-verbal communication and behaviors. What the relationship between signals, and behaviors' You could argue the best influence attacks are based on hidden or explicit signals that get past a) algorithmic detection b) journalism oversignt, community immune systems to disinformation
9	How to get tone in text, could you identify when someone wants to start a fight, e.g. ends with a period	People defer based on subtities in real life (appearance, gender, height, percieved authority) - have we identified what causes people to defer authority online? Can that be utilized as the subtle way to promote self-reflection?		
10	what's the non-verbal in digital communication			
10	communication			
12	Determining a need for censorship and regulating potentially increasingly-radical conversation/thought			censorship unnecessary? What's the healthy, non-authoritan digital panopticion? How do we reintroduce, non-extreme, human level consequences, build famility and community connect and empathy, and deter toxic behavior. Lots of little sub-conscious corrections, you don' have to internalize and take it personally, or hav it feel like an attack. De-escalation, healing, re- connection to the community are built into the correction to the community are built into the correction to ADDITION to accountability. This happens at the individual level, as well as groups within a community (which probably requires a similar, but different kind of reconciliation, negotiation)
13	Tunnel vision, desperation in the face of change	need to protect homeland, need to sustain self (economically, socially), respond to state- based/non-state-based narrative attacks		principles-based approach to information warfare defending definite truths - promoting democracy vs defending democracy and deciding on whether to adopt multilateralism
14	Lack of transparency	People have the right to know who's whispering in their ear		policy, police the hell out of the platforms to be transparent
15	media and platforms as business	Business model of maximising clicks and ad revenue drives content that is not necessarily journalistic of balanced		regulation of platforms or education of consumers?
16	censorship	Balance of freedom of speech and control		regulate platforms and culture of conversation, not content; self-regulation of communities (platforms that give more ability to self-police, assert rules)
17	critical thinking, education	critical thinkers, media literate audience knows to ask "why"? perpetual learning; constantly reinventing the quality of public discussion		education (discussion, debate); open discussion space and culture; role of good old investigative journalism, the least profitable part of the medi business;
10	peoples preconcieved notions,	A lot of public communications is based on		
	tribalism, identity politics targeting the enemy with tools we cannot target our own people with	stereotypes and in-groupism		
	Information segregation,	Oraștea aska shambaru far da arafimatira di	Negotivo	
	information bubbles extremist content (ISIS, etc.)	Creates echo chambers; feeds confirmation bias Insighting violence in the public sphere	Negative	transparency, notice and takedown
21	extremist content (1515, etc.)	maighting violence in the public sphere	Negalive	stop payng attention to the extremists; educating
22	attention economy Didnt make correlation between	attractive content is on the shallow end		an audience to be demanding identify how confiermation bias promotes esistin narrtives; elaborate additional cognitive biases
23	narrative and confirmation bias which narratives more likely to be	not clear how cognitive bias plays out	both	that might impact narrtive acceptance examine the role of emotion; examine the role of
				stanine the role of chouon, examine the fole of

		have to offer replacement if taking about provinue		
25	can't change the mirror	have to offer replacement if taking about previous narrative; cognitive ease = must make alternative as easy to digest more desirable explanation for the world	negative	re-tool messaging away from "you are wrong" to "here is why the alternative benefits you"; also, make that replacement message easy to disest.
25	botox is a limited treatment	correction has a role	both	better understand which messages are most dangerous (and craft direct counters); identify which narratives are better innoculated with alternative narratives
	Potential for the cure to be worse than the disease	Dealing with misinformation may be better than changing a foundational American value (1st Amendment/Freedom of Speech/Access to Information	negative	Compare the risks of allowing misinformation campaigns to continue with the consequences of limiting speech/access to information; monitor the impact of private actors limiting speech and/or preventing access to platforms (Alex Jones, InfoWars etc.);
28	what if I dont want to look in a mirror	many people feel disinformation a problem, but most won't correct their biases; most people think that misinformatiion is problem for *other* people	negative	educate the next generation on good information hygeine;
29	I do not like the man. I need to get to know him better	Bubbles are a major part of the current problem a broader community of sources helps protect against biases	positive	Encourage news consumers to draw from a borader range of sources; promote mediated/curated discussion across online communities
30	trust is super important	people are more likely to believe a friend than a news reporter	both	news institutions need to rebuild trust; amelioration strategies must leverage grass-roots energy
31	which narratives more likely to be counteracted	resource allocation; amelioration strategies		examine the role of emotion; examime the role of communities/bubbles
	social wedge	We want people to leave bubbles of social media, however is higher education becoming a problem? Controversial thinkers being pushed out of institutions as they are making students uncomfortable. We are training minds early on to opperate in bubble	negative	institutional awareness of differing intellectual thought as aide to stufent minds. Socratic method
33	Who is the arbiter of veracity?	Democratic action requires an informed citizenry, so accurate information is a public good, but at the same time free speech is a cherished, national- identity-forming value, which puts into tension establishing an entity for vetting information accuracy vs. stifling free speech	positive and negative	Provide some easily digestible information provenance to help people verify information. People have to care that they are being gamed, before they can begin to fight the problem. Some people are blissfully ignorant; some people have bigger problems than to care about the existential threat of misinformation. People think "the media" are at fault. Truth is socially constructed, so it is not unconditional. Where is the common value?
	socio-economic drivers of generational perspective (what's important) and values	today's Gen Z'ers and Millenials have a different economic outlook and that drives new values (sharing economy vs. private property ownership) and potentially drive perspectives on the value of socio-political institutions (education, press, govt) as beneficial	risk, with potential negatives;	need resilient institutions and adaptive to societal change that acknowledges how people operate in today's world and what they care about.
35	privacy is changing	used to be that there was a specific difference between private information and public information; public spaces and private spaces; separation between public/work, public and social, private and social, private/family, etcnow those borders have eroded both by virtue of the intrusion of media/social media, and by reconceptualizations (and exploitations) of what is personal/private/public	comes with risk	we need greater awareness of the changing nature of privacy; how do you develop empathy online with only screen-based cues?
	off shoring of critical infrastructurepharmaceutical,	foreign adversaries it can be used for social credit or other means of exploiting citizens; can disrupt		
36	manufacture	institutions and exploit fear.	comes with risk	secure supply chain with blockchain or other tools
37	off shoring of critical infrastructuretechnology talent	foreign adversaries it can be used for social credit or other means of exploiting citizens; can disrupt institutions and exploit fear.	comes with risk	
38	increasingly complicated nature of (nearly every) aspect of society from health care to economy, etc.	rise of populism: sweeping, simplified, emotional arguments to bucket a range of complicated problems into a simplied 'solution' that is really simply a route to power consolidation by the perpetrator of the simplification	comes with risk	
	education	· · · · · · · · · · · · · · · · · · ·		

Speaker 3 Consolidated				
	Data Data i	L. P. D.		Marcola, 14, 14, 20
#	Data Point	Implication	Positive or Negative? Positive - people more aware that this is an issue.	What should we do?
			Negative - bad actors are getting increasingly	Use tools, people, technology to identify early
1	"Weaponized paranoia" is a real threat	People are getting more aware, but it's also Increasingly sophisticated on the practce	sophisticated. Where is real education coming around this? Possibly may erode science and democratic institutions	<ul> <li>what is misinformation? Leverage technology to identify it. Need education, critical thinking throughout population</li> </ul>
2	Using information deliberately to influence: misinformation, disinformation, malinformation	How do you identify right information vs. disinformation	Positive: more attention in figuring Negative: Need more trained workers to find and stop bad behavior is toxic. Rise in mental health challenges.	
	New ways to sift through analysis of	Who designs the programs that sift the information? How do we know it's accurate? How	Rise in mental health challenges.	
3	information (Al programs, more off the shelf options) Track disinformation campaigns to study and	do you make the algorhims fair and open (FAIR ML)	Negative: How do we determine what is "fair"?	
4	categorize the type of disinformation campaigns			
5	Information wars on 2+3 main threats: China & Russia; North Korea, Iran, violent extremism	Move from weapon systems in tradition sense, to information systems. Who is leading that? What is the strategy?		
	Platform agnostic - many types of platforms	Quick and dynamic. Can spread from anywhere		
6	and media that it can go through Integrated attacks - information designed to trigger action designed to get more media and	and to anywhere	Harder to identify what's real and what should require	
7	recruit more actors	It can be sourced and scaled from anywhere	qction. What do you pick to counter?	
8	Immediate amplication through toxic ecochambers (use to amplify disinformation)	More you let it go, the dangerous it becomes	How do you balance regulation with free speech?	More regulation (self regulation or govt) to identify and take extreme views off the platform. Investigate business models around extreme behavior
	Traditional warfair being applied to infomration: Techniques, Tactics & Procedures		Do all countries regulate by the same values?	
10	Cyber-forensics used to discover bad actors on the web to discover coordinated attacks	Need to find people who can create programs to stay abreast of tactics and local cultural context (language is key!)	Negative: where will the talent come from?	
		What makes memes go is how well it gets absorbed. How it gets adapted. In closed societies,		
11	Meme-factories generating disinformation	they are using symbols to get around censorship (rice + bunny rabbit for #metoo)		
	More disinformation campaigns impacting			
12	more sectors (elections, corporation reputations, etc.)		Who is the watch dog?	New standards need to get created? Who is the watch dog
	Rise of deep fakes			
	Increased investment - public and private			
	funding to fuel and combat the issue			
15	malinformation is true, disinformation is false meme is something that spreads like a disease			
16	vector; what's new is memes that cause action in the real world.	memes do not require literacty can be consumed as cat videos		
17	dependent on receptive audiences			
18	digital landscape/terrain			
19	amplification/manipulation			
20	testing at scale/speed/rapid feedback loops			
	influence/interference			
	"platforms" content/atomic unit			
23	diffusion			
	adversarial behavior intent what happened when people decided that gay	divide/polarize		
	marriage was okay? everything you thought you knew was wrong events	speed that these events happens		
	what happened when people decided marijuan			
	was okay? 2nd and 3rd degree implications of current			
28	influence operations 75% of the workforce is going to be gen z and			
	millenial			
	impact of deep fakes? can the chaos creators open to attack by their own people?			
	can the muslims attack the chinese regime?			
22	Assume the tools to create all forms of media effectively have become ubiquitous: ai, augmented reality, deep fake videos, games, movies, media platforms, social networks.			
	Audience Receptivity: Gen Z example of having media everywhere in multiple forms? And how that effects our values and ethics? Synthetic vs. Naturai, Transcending our digital	A new set of values, a cultural revolution to a spiritual revolution, against the tyrannies that seeme inevitable –suppose there is a reaction to all the things that are scaring the shit out of us to one that is focused on ethics and values, people are looking for bedrock. A spiritual revolution. A mass movement towards real.		
	space, ethics? values?	mass movement towards real.		
	What is the path to everything you thought you knew was wrong event?			
36	What are the TTP's to piss on things we know now that are wrong?			
	Post-Truth Society	Tribal truths rule		
	Online social media platforms	Easy to connect and amplify, weaponize		
		Persistent alternative interpretations of reality and		
40	Conspiracy theories	who is in control, narrative trumps truth Creation of a false credibility base, appealing to		
41	Faux insiders	emotions		

42	Alt identities	Bots, fake IDs, malicious actors		
43	Troll farms	Industrialized astroturfing and grassroots		
	Tomarins	propaganda Anyone can propangadize, does not require state-		
44	Propaganda for all	level resources		
45	Cross-border interest groups	Digital tech allows interest groups to act globally		
46	Dedical lovelling	End of expertise, anyone can speak out,		
	Radical levelling	democratized voice and participation		
	Editable history	Blur truths, revisionism		
	Accelerationsim	Speed up events		
49	Millenialism / Apocalyptics			
50	Social Fragmentation	self-imposed segregration?		
51	Hybrid State Warfare			
52	Ideology over epistemology			
		Open societes are vulnerable to state-sponsored		
	Globalization favors closed societies	bad actors		
	audio/video/Photo manipulation	Easy to manage perceptions or edit reality		
55	Revolution rhetoric			
56	Chaos is a ladder	Fomenting chaos creates opportunities for excluded populations		
	Crisis Opportunism			
58	Who is the threat actor?	narratives reinforced / transferred into the		
59	Funded, coopted media	mainstream / enhanced credibility		
60	Technology ignorance	Tech savvy people can manipulate the ignorant		
	Gambler doubling down/sunk cost falacies			
	Long term effects of weaponized narrative			
	(algorhithm based childrens videos)			
63	2020 is going to be a mess			
64	Narrative Trumps Reality	the end of expertise, a society needs a shared narrative to exist	Both	
		Absence of credible authority (idols) creates		
65	People are hungry for authority	opportunities for multiple sources of truth	Negative	Platforms should do risk modeling and
66	Information/disinformation is platform agnostic	Easily accessible anywhere; information/disinformation can jump platforms; solutions often platform specific;	Positive - lots of channels, lots of diversity, lots of options: Negative- disinformation is very hard to combat; no single solution	open source platforms and algorithms; crowdsourced ratings of contents; but if things like ranking algorithms are transparent they are more easily gamed; tracing content as it flows through the internet - who created it? how was it modified? how do I easily find what people are saying about it?; Need to bring back some sort of data curation (can you do this in a way that isn't biased) We don't know who are building the communities. Exposing the malicous
67	Lost tribes can find each other online	Malicious actors can exacerbate social division by linking extremist groups together; small interest groups can find each other and share information, network	Both	commands. Exposing the indiscose organizers in some cases may be useful. Individuals need to be diligent about rooting out the trolls from online communities so malicious actors can't radicalize them. Need Americans to care that Russians and foreign actors are manipulating the information space, even if the message they are pushing aligns with their beliefs Need to provide people graceful exits from the information positions theyve bough into so they don't dig in further- non confrontational messages
68	Open networks	Anyone can message anyone	Both. The problem is that people gravitate to people who confirm their beliefs/ values	Bots and AI can help expose people to alternative dess, indicate when people are tuning into too much bias, help expose alternative sources of information Anonymity is a benefit for human rights activists and idssidents in foreign countries; but in free societies it can be detrimentai; imagine if you walked around Phoenix and half the people were wearing masks. Would you feel safe? We need to acknowledge there should be different rules in different societies based on their legal systems; the more likely it is that they will be persecuted the more they need anonymity
		Information/Messaging can be put out without fear		Anonymity is a benefit for human rights activists and licksidents in foreign countries; but in free societies it can be detrimental; imagine if you walked around Phoenix and half the people were wearing masks. Would you feel safe? Do we need to acknowledge there should be different rules in different societies based on their legal systems; the more likely it is that they will be persecuted the more they need anonymity. What's the greater threat? Do we want anonymity even if it destroys US society? Or do we give up anonymity and find other ways for activists and dissidents to work? Maybe we allow anonymity in small communities but don't allow it for public
69	Anonymized networks	or reprecussions	Both	"broadcasts"
70	Secure networks	Private conversations are enabled; but criminals and malicious actors can operate without law enforcement being able to monitor them	Both	Promote them. Privacy is crucial. Law enforcement needs to find other means to get information.
		facilitate bad behavior, but also could facilitate	Both	Similar to the anonymity network above, but the difference is dark web sites aren't broadcasting, so we should allow anonymity
71	Dark web	privacy, rights activism, etc	bour	broaucasting, so we should allow anonymity

				How do we discourage smart people from
73				doing this? Educate the target audience so they aren't succeptible to manipulation; start in
12	Propaganda is engineered by smart people	Makes it a very hard problem to solve Can persuade easily often using non-verbal	Negative	kindergartend
73	Memes	images	Both	Education is the key
74	Anonymitiy enables bad behavior	see above	see above	see above
75				
76	Some people are unwitting cooperaters in disinformation	People can dig in and not want to change their positions	Negative	Education is the key; give them a graceful ocgnitive exit
77	Algorithms are optimizing	Algorithms can exacerbate filter bubbles; get people addicted to apps and websites; can give you information you really want; generate lots of revenue for companies; Algorithms are good at the status quo, they are bad at exceptions because they're good at recognizing patterns;	Both	Algorithmic transparency: more consumer algorithmic choice; stop optimizing for \$\$\$; You could train an algorithms to find exceptions and find black swans
	Coordinated manipulative activity is in marketing, politics, and mailgn people	Two paths 1) don't allow anyone to use coordinate manipulated activity; 2) allow all of it and work with that environment	Both	Internet should be a public utility and you ban coordinated manipulated activity; Create a pay for use model for Facebook that protects user information
		More people can produce propaganda; tools enable broader, faster dissemination at less cost; Anyone can mass transmit propaganda; information proveance is non-existent.	Negative	See anonymity
80	US defines war differently than adversaries	Information operations in the US are not as valued as kinetic warfare		
	Internet is borderless but our international system is based on soverign borders	International law is based upon the Westphalian nation-state model and physical boundaries	Negative	International policy needs to be updated to account for the new (virtualized) world.
	DIME model of national power - individuals have much more power	Econ- private companies have huge power; bitcoin disrupts currencies; individuals can conduct global information operations; companies conduct diplomacy; individuals can negatively impact diplomacy	Negative	International policy needs to be updated to account for the new (virtualized) world.
	Emergence of virtualized transnational organizations (eg BitNation)		Both	How do the instruments of national power affect virtualized nations? What does military power mean to a virtualized nation?
	Conspiracy theorists and extremists use nominal discussions about things like immigration to inject messages/ shape conversations around racism, sexism, etc			
	Individuals now conducting hybrid operations with mass shootings, media campaigns, trying to spur leaderless virtual movements	Content needs to be pre-created and staged prior to the event		
	difference between disinformation, misinformation, and malinformation			
87	Some information is just low quality not necessarily disinformation			
	Content can be easily tested with mass audiences			
	Video can now be convincingly and cheaply modified			
	Bots are used for amplification			
	Different types of accounts/strategies depending on intent: Bots (amplification), Parody/Spoof (Message testing), Camoflauge/Deep Cover/Account Takeover (Message delivery)	Hard to differentiate legitimate information from misinformation	Negative	Disable anonymity
	No graph theory models to account for prevailing characteristics of social media networks as opposed to social networks	Scale-free networks explains networks in which the prevailing characteristic is link formation. It does not account for link expiration or link breaking (the primary characteristic of social media networks) which account for self-radicalization and confirmation bias.	Negative	Data provenance and public education.
93	Anybody can mass produce information;			

Slot				
Group				
Vembers	Black Pawn			
#	Data Point	Implication	Positive or Negative?	What should we do?
1	"Weaponized paranoia" is a real threat	People are getting more aware, but it's also Increasingly sophisticated on the practce	Positive - people more aware that this is an issue. Negative - bad actors are getting increasingly sophisticated. Where is real education coming around this? Possibly may erode science and democratic institutions	Use tools, people, technology to identify early - what is misinformation? Leverage technology to identify it. Need education, critical thinking throughout population
2	Using information deliberately to influence: misinformation, disinformation, malinformation	How do you identify right information vs. disinformation	Positive: more attention in figuring Negative: Need more trained workers to find and stop bad behavior is toxic. Rise in mental health challenges.	
3	programs, more off the shelf options)	Who designs the programs that sift the information? How do we know it's accurate? How do you make the algorhims fair and open (FAIR ML)	Negative: How do we determine what is "fair"?	
4	Track disinformation campaigns to study and categorize the type of disinformation campaigns			
5	Information wars on 2+3 main threats: China & Russia; North Korea, Iran, violent extremism	Move from weapon systems in tradition sense, to information systems. Who is leading that? What is the strategy?		
6	Platform agnostic - many types of platforms and media that it can go through	Quick and dynamic. Can spread from anywhere and to anywhere		
7	Integrated attacks - information designed to trigger action designed to get more media and recruit more actors	It can be sourced and scaled from anywhere	Harder to identify what's real and what should require qction. What do you pick to counter?	
8	Immediate amplication through toxic ecochambers (use to amplify disinformation)	More you let it go, the dangerous it becomes	How do you balance regulation with free speech?	More regulation (self regulation or govt) to identify and take extreme views off the platform. Investigate business models around extreme behavior
9	Traditional warfair being applied to infomration: Techniques, Tactics & Procedures		Do all countries regulate by the same values?	
10	Cyber-forensics used to discover bad actors on the web to discover coordinated attacks	Need to find people who can create programs to stay abreast of tactics and local cultural context (language is key!)	Negative: where will the talent come from?	
11	Meme-factories generating disinformation	What makes memes go is how well it gets absorbed. How it gets adapted. In closed societies, they are using symbols to get around censorship (rice + bunny rabbit for #metoo)		
12	More disinformation campaigns impacting more sectors (elections, corporation reputations, etc.)		Who is the watch dog?	New standards need to get created? Who is the watch dog
13	Rise of deep fakes			
	Increased investment - public and private funding to fuel and combat the issue			
15				
	Weaponized paranoia is far more suffisticated, wide spread and well coordinated than in the past. Quickly moving from era of online to offline, where people take action, and have attitudes/behaviors influenced based on the			
	information/influence from the information environme	nt. Violent extremism is consistent reminder of t	hisdangerous when influence is acted upon.	
	- Where is the talent going to come from to address t		ustries.	
	- Who regulates? Where does the new "standard" co	me fromestablished and enforced by who?		
	How to continue to ensure "consumption awareness"	- critical and "slow" thinking of information		

Slot				
Group				
Members	White Chip			
#	Data Point	Implication	Positive or Negative?	What should we do?
1	Hard to descern misinformation and disinformation	in order to know facts you have to investigate multiple sources, and shorter attentional span and overwelming data makes a single individual might be interesting in digging for the truth. Only really care if it is entertaining, but fact based narrative is not required. Distrust of fact based scientific narrative that cannot be experienced.	Negative as very hard to show bad behavior and also hard to prove validity of soures or arguments. (The Death of Expertise) the digitialize of online sources and broad availailbity of information lets all become experts. Still takes time to ingest data. How do you acknowledge experts. Involvement of experts in false narratives discredits experts. Deligitimization of these experts.	
2	Friend cycles and preferences and invovlement in choosing	Diversity of Friends and friend groups causes the Z to discredit experts and "think tanks" and as a result will not provide the market as they walk away from the nonexperiential learning with high bar to entry.	We have brought them into the decision making process and will expect to be included. The deffernce to experts is going to be problematic.	need to have think tanks, educational institutions to have transparent funding reports to trace the funding and establish the ligitiamacy and bias of funding. Need to engage in countering misinformation to show the real value of experts. They must provide solid, scientific based arguements and aggressively discret false information. Not enought to prove the point, need to also address dirstractors or differing opinions.
	Online Friends are Real	trust element in the internet	Skills to identify online charlatans and in person are different. However, we have to admit we have met people in real life that were trying to decieve us or market to us.	
4	Working for good and value of fairness	project fairness onto others on the internet and reject the idea that others would be trying to deceive them for naefarious reasons.	Will probably not project across cultures. VContactia and other russian media are different and discimating the false narratives aggressively for their own purposes. Campaigns have to address the impact on the social good or create the alignment with the social.	Important to be looking at across cultures and platforms to track and enforce across the russian networks. Similiar to UN need to be created to regulate Facebook, it cannot be just be ruled by US Law. A new design of thinking of companies vs countries. Beyond Westfalia.
5	Experiential Learning on and off line, and participate in the narrative	can't control how the experiences are constrained, difficult to get different opinion		Not enough to just put fact based information into the public square. Need to explain why they need to value a particular piece of truthfull information. We need to establish new metrics of trust and
	Their resources are online, mulitute of public squares online	They will look for diversity of opinion on the internet as a part of their explortion but it is very hard with architures of internet to break into differnt thoughts. Russian propaganda is also online but in different forums so you will not find them if you are not on those networks.	Believe that the resources reflect the entire world, but are really only a fraction.	Babel Fish type technologies to have real time translations across language barriers to facilitate a truly global perspective.
7	Enjoy reflections by friends on these they like, not on same tools as the other generations. Utube Channels and peers networks	Reinforcement of bias and huge amount of information available to confirm their biases. The ability to spend huge amounts of time on one topic limits the time to absorb the breath of society and issues across society.	Positive if you can influence the peer groups, and will be equally difficult for all narratives.	Need to find ways to convince influential members of peer and get these influencers to replace the role of experts and authority.

8	Many tasks so work to complete to get to next - speed of injestion	A huge amount of stimuli can mask lack of depth	Impression bias and clickbait type informtion can cause messages to be transmitted unintentially and operating at the same speed as information is critical.	
9	Tools are always on so need to finish now	Increase of stress for tasks that cannot be finished quickly, hard to keep the huge list of pririties that need to come back to and attempt to finish. Expect to be able to participate however, whenever and whereever they desire		how do we create the scaffolding to allow the information to stick and also have the informaiton when it is requested.
10	Diversity among Z and between millentials	How do you educate and inform such a diverse population that are coming with such a diverse backgrouds as well as interests. Will walk away if not invovled, but need multiple narratives to engage across the society,	Develop of the message/narrative can take longer than the "news cycle" causing the truth to be shooting after the duck.	Method as well as the product becomes very important. If you choose and succeed with the audience, you still only have a small part. Levels of differsity and interestes are consistenty changing.

Slot	Brad Schneider			
Group Members	Black Chip			
#	Data Point	Implication	Positive or Negative?	What should we do?
1	Diverse: demographics, preferences, likes/dislikes	Contributes to <b>fragmentation</b> across society (but isn't the main driver of it); also: hopeful and idealistic; forcing traditional organizations (i.e. churches, universities) to relook traditions of acceptance	positive	Either increase tribalism & fragmentation OR increase inclusiveness at potentially the cost of maintaining traditions
2	Given powerful digital tools "digital natives"	Borderless world - may be providing basis for nativism and xenophobia; sexual contact starts later, but exposure to pornography is earlier and more intense —> easier to isolate self than create relationships; physical geography matters less	negative	Encourage non-geographic similarity and connection; must consider the implications of a technological fix
3	Universal acceptance	Also seeing a rise in identity politics	positive	Generate support from large geographically diverse groups
4	Expectations: participate whenever, wherever, however	If there are products w/o experiental expectations - leave or create own; relying on own experiences is a cognitive bias which leads to easier acceptance of tribal narrative; "Truth," "Belief," "Acceptance," and "Identity" are different	negative	Opportunity to drive people off products (or platforms) or towards products (or platforms) based on participatory expectations; opportunities to "detox" or take a break from tech
5	Marketing and product-oriented organizations control the technology	Limiting or controlling the tech is not viable; too many interests; dual-use with positive/negative uses; whole of society contexts make it useful for many different domains	negative	
	Participatory parenting	Conservative person tends to more authoritarian parenting style —> specific to class structures and world view; more liberal person tend to more participatory parenting style; context of course matters;	negative	Cutting off from mainstream culture (i.e. home schooling) due to threat that kids are being influenced too strongly
7	High stress dealing with own youth and adult situations	High stress <b>relies heavily on</b> <b>heuristics</b> (i.e. one's "narrative") rather than "system 2" rational analysis; External manipulator can use this info and fear, anger, other powerful behavior drivers to move to action	negative	add delays into the system, so the cortisol responses drop
	Committed to equity and own family finances	"Equity" is a trick word —> to libertarian, equity means keep what you earn; to others, (egalitarians) equity means sharing amongst all;	positive	
9	What is impact of older generation?	Lack of "adult" mentorship; use of "adult" organizations to communicate to next generation (builds "tribal" societies); victory of Rosseau over Voltaire	negative Transition to US tribalism may have future benefits akin to other tribal structures	form interest-based connections across generations
10	Perspective from privileged American gen Z	Brains develop differently ; two- tiered culture (access vs non- access)	negative	form interest-based connections across priviledge/non

in terms of t	Blue Chip Data Point m after mid-90s are most diverse riend circles and preferences. al values and because of the available	Implication (Assumption: valuing diversity means diversity within social circles) - This suggests that there is more potential for people to be exposed to view points and experiences different from their own (Assumption: valuing diversity means that the differences between social circles is greater)	Positive or Negative?	What should we do?           1. Create a campaign that leverages this trend in Gen Z as a motivation for the older generations to do the same thing.           2. Campaign targeting Gen Z to encourage expanding beyond diverse social circles into valuing discourse           1. Campaign targeting Gen Z similar to early 20th Cent to
# Children bo in terms of Both societ	Data Point m after mid-90s are most diverse riend circles and preferences. al values and because of the	(Assumption: valuing diversity means diversity within social circles) - This suggests that there is more potential for people to be exposed to view points and experiences different from their own (Assumption: valuing diversity means that the differences		<ol> <li>Create a campaign that leverages this trend in Gen Z as a motivation for the older generations to do the same thing.</li> <li>Campaign targeting Gen Z to encourage expanding beyond diverse social circles into valuing discourse</li> <li>Campaign targeting Gen Z</li> </ol>
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in terms of t Both societa	riend circles and preferences. I values and because of the	means diversity within social circles) - This suggests that there is more potential for people to be exposed to view points and experiences different from their own (Assumption: valuing diversity means that the differences	Positive	motivation for the older generations to do the same thing. 2. Campaign targeting Gen Z to encourage expanding beyond diverse social circles into valuing discourse 1. Campaign targeting Gen Z
		means that the differences		
		- this suggests groups are getting smaller and the distance between them is increasing	Negative	encourage activities that are social good (meeting other people, engaging in discussion) ref Heinekin ad about building a bar
data source have acces	t to be able to participate in all the s (cause, film, game, etc) they s to and want to be able to n a number of ways and	The communication that wins isn't just based on the message, it is also based on the medium that lets Gen Z interact in the ways they want. Which means merit of message is less important than sophistication of medium (which biases for money and resources) and less important than accessibility (the more ways you deliver the message the more likely you are to win - Baader Meinhoff phenomenon)	Negative	Come up with multi-modal methods of communication rather than old fashioned PSAs/websites. Personalization; target audiences need to be able to relate deeply.
They are m	ore stressed due to their parents e about what is stressing them	Gen Z is indoctrinated into high stress world views at a very early age, which makes it hard to get them to even start to think about how to question those views	Negative	This is not really new, parents always indoctrinate their children. Focus on education around critical thinking
		The childish behavior (sharing of weaponized memes, etc) of parents is now much more visible to children due to them being on the same social media platforms	negative	Ad campaigns targeting parents to stop role modeling this behavior - this generation's version of "I learned it from watching you dad!"
		Children that grow up watching their parents spreading weaponized memes will think there's nothing wrong with having political leaders who behave that way and in fact may prefer it	negative	<ol> <li>Focus on education, setting examples and role models of what good behavior looks like - (ala sex ed, stop smoking).</li> <li>Create policy that prevents echo chambers</li> </ol>
Very comm 4 understand	tted to causes, more serious, hard work	Everything they are commited to is utterly critical to saving the world (regardless of political leaning). They are much more likely to be tribal	negative	Create more opportunities for cross-group collaboration
		They have the potential to do great things and to lean into things that are uncomfortable	positive	<ol> <li>Create more opportunities for cross-group collaboration.</li> <li>Use social media to amplify spaces for constructive collaboration</li> <li>Drive the concept of self- policing; communities are responsible for holding their most extreme members to a standard of good behavior that they would want to see from the other side</li> </ol>
They value 5 equitable so	diversity and want to create more ociety & environment	Given the opportunity they might be willing to actually voluntarily do work to make this happen	positive	Create a public service program for people to participate in creating positive environments
	tion has never had "no access" to			
This genera	tion has had social media from			
	this gen pays attention to what is of Silicon valley and don't want to			
	tion has had the war on terror for			

10	People gain their identity from their groups and we are seeing more fragmentation into smaller and smaller groups		
	https://twitter.com/alexstamos/status/1091710534804594688?s=21		

Slot				
Group Members	Green Pawn			
#	Data Point	Implication	Positive or Negative?	What should we do?
1	Censorship	Is this too broad of an issue?	Can be either	
2	Cognitive Ease	entice people to self-reflection, and then engage with learn, and potentially embrace new truths?	Neither	If you want to start a revolution, throw a better party.
3	Confirmation Bias	People on all sides virtual signaling, the internet as a mirror of both the society we live in an the identities we wish to fortify.		
4	how to make people care about	throw a better "party" to entice		
5	the internet as a mirror	Distorted reflection as a hall of mirrors - opportunity to amplify certain divisive features, perpetuate them, threaten/exclude other perspectives	Both	As internet become more integrated into society, internet less of a mirror because becomes and extension of individual selves - As becomes more integrated, less ability for anonymity
6	self harm/otherize	Self-destructive behavior is no longer *self* destructive in a connected word.		
7	so much of democracy is about the process of contesting knowledge. it works when we're able to have a healthy media/knowledge ecosystem. the fact that so much communication happens out side of the view of media	Ease of access to constantly- present information		
8	things are subtle:memes, not quoting sources, complexity of language, signals&signaling, rhyming as away of signaling meme, playground bullying with machine learning, signals get the confirmation bias going	Journalists, fact-checking, and knowledging contesting / synthesis breaks down. If '90 percent' of human communication is non-verbal, what's the non- verbal communication equilivant of online.		What's the immune system for toxic signaling and non-verbal communication and behaviors. What's the relationship between signals, and behaviors? You could argue the best influence attacks are based on hidden or explicit signals that get past a) algorithmic detection b) journalism oversignt, c) community immune systems to disinformation
	How to get tone in text, could you identify when someone wants to start a fight, e.g. ends with a period	People defer based on subtities in real life (appearance, gender, height, percieved authority) - have we identified what causes people to defer authority online? Can that be utilized as the subtle way to promote self-reflection?		
10	what's the non-verbal in digital communication			
11				

12	Determining a need for censorship and regulating potentially increasingly-radical conversation/thought		Our Design Victory Condition is to render censorship unnecessary? What's the healthy, non- authoritan digital panopticion? How do we reintroduce, non- extreme, human level consequences, build famility and community connect and empathy, and deter toxic behavior. Lots of little sub-conscious corrections, you don't have to internalize and take it personally, or have it feel like an attack. De-escalation, healing, re-connection to the community are built into the correction in ADDITION to accountability. This happens at the individual level, as well as groups within a community (which probably requires a similar, but different kind of reconciliation, negotiation)
13	Tunnel vision, desperation in the face of change	need to protect homeland, need to sustain self (economically, socially), respond to state- based/non-state-based narrative attacks	principles-based approach to information warfare; defending definite truths - promoting democracy vs defending democracy and deciding on whether to adopt multilateralism

Slot				
Group Members	Purple Pawn			
#	Data Point	Implication	Positive or Negative?	What should we do?
1	Lack of transparency	People have the right to know who's whispering in their ear		policy, police the hell out of the platforms to be transparent
2	media and platforms as business	Business model of maximising clicks and ad revenue drives content that is not necessarily journalistic of balanced		regulation of platforms or education of consumers?
3	censorship	Balance of freedom of speech and control		regulate platforms and culture of conversation, not content; self- regulation of communities (platforms that give more ability to self-police, assert rules)
4	critical thinking, education	critical thinkers, media literate audience knows to ask "why"? perpetual learning; constantly reinventing the quality of public discussion		education (discussion, debate); open discussion space and culture; role of good old investigative journalism, the least profitable part of the medi business;
	peoples preconcieved notions, tribalism, identity politics	A lot of public communications is based on stereotypes and in- groupism		
	targeting the enemy with tools we cannot target our own people with			
	Information segregation, information bubbles	Creates echo chambers; feeds confirmation bias	Negative	
8	extremist content (ISIS, etc.)	Insighting violence in the public sphere	Negative	transparency, notice and takedown
9	attention economy	attractive content is on the shallow end		stop payng attention to the extremists; educating an audience to be demanding
10				

Slot				
Group				
Members	Grey Pawn			
#	Data Point	Implication	Positive or Negative?	What should we do?
1	Didnt make correlation between narrative and confirmation bias	not clear how cognitive bias plays out	both	identify how confiermation bias promotes esisting narrtives; elaborate additional cognitive biases that might impact narrtive acceptance
2	which narratives more likely to be effective	resource allocation; amelioration strategies		examine the role of emotion; examime the role of communities/bubbles
	can't change the mirror	have to offer replacement if taking about previous narrative; cognitive ease = must make alternative as easy to digest more desirable explanation for the world	negative	re-tool messaging away from "you are wrong" to "here is why the alternative benefits you"; also, make that replacement message easy to disest.
4	botox is a limited treatment	correction has a role	both	better understand which messages are most dangerous (and craft direct counters); identify which narratives are better innoculated with alternative narratives
	Potential for the cure to be worse than the disease	Dealing with misinformation may be better than changing a foundational American value (1st Amendment/Freedom of Speech/Access to Information	negative	Compare the risks of allowing misinformation campaigns to continue with the consequences of limiting speech/access to information; monitor the impact of private actors limiting speech and/or preventing access to platforms (Alex Jones, InfoWars etc.);
6	what if I dont want to look in a mirror	many people feel disinformation a problem, but most won't correct their biases; most people think that misinformatiion is problem for *other* people	negative	educate the next generation on good information hygeine;
	I do not like the man. I need to get to know him better	Bubbles are a major part of the current problem a broader community of sources helps protect against biases	positive	Encourage news consumers to draw from a borader range of sources; promote mediated/curated discussion across online communities
8	trust is super important	people are more likely to believe a friend than a news reporter	both	news institutions need to rebuild trust; amelioration strategies must leverage grass-roots energy
9	which narratives more likely to be counteracted	resource allocation; amelioration strategies		examine the role of emotion; examime the role of communities/bubbles
10	social wedge	We want people to leave bubbles of social media, however is higher education becoming a problem? Controversial thinkers being pushed out of institutions as they are making students uncomfortable. We are training minds early on to opperate in bubble	negative	institutional awareness of differing intellectual thought as aide to stufent minds. Socratic method
	שטומו אבעעב		Incyalline	

Slot				
Group				
Members	Orange Pawn			
#	Data Point	Implication	Positive or Negative?	What should we do?
1	Who is the arbiter of veracity?	Democratic action requires an informed citizenry, so accurate information is a public good, but at the same time free speech is a cherished, national-identity- forming value, which puts into tension establishing an entity for vetting information accuracy vs. stifling free speech	positive and negative	Provide some easily digestible information provenance to help people verify information. People have to care that they are being gamed, before they can begin to fight the problem. Some people are blissfully ignorant; some people have bigger problems than to care about the existential threat of misinformation. People think "the media" are at fault. Truth is socially constructed, so it is not unconditional. Where is the common value?
2	socio-economic drivers of generational perspective (what's important) and values	today's Gen Z'ers and Millenials have a different economic outlook and that drives new values (sharing economy vs. private property ownership) and potentially drive perspectives on the value of socio-political institutions (education, press, govt) as beneficial	risk, with potential negatives; society in change is susceptible to mis/disinformation, disruption	need resilient institutions and adaptive to societal change that acknowledges how people operate in today's world and what they care about.
3	privacy is changing	used to be that there was a specific difference between private informatioin and public information; public spaces and private spaces; separation between public/work, public and social, private and social, private/family, etc;now those borders have eroded both by virtue of the intrusion of media/social media, and by reconceptualizations (and exploitations) of what is personal/private/public	comes with risk	we need greater awareness of the changing nature of privacy; how do you develop empathy online with only screen-based cues?
	off shoring of critical infrastructure-pharmaceutical, manufacture	foreign adversaries it can be used for social credit or other means of exploiting citizens; can disrupt institutions and exploit fear.	comes with risk	secure supply chain with blockchain or other tools
	off shoring of critical infrastructure-technology talent	foreign adversaries it can be used for social credit or other means of exploiting citizens; can disrupt institutions and exploit fear.	comes with risk	
6	increasingly complicated nature of (nearly every) aspect of society from health care to economy, etc.	rise of populism: sweeping, simplified, emotional arguments to bucket a range of complicated problems into a simplied 'solution' that is really simply a route to power consolidation by the perpetrator of the simplification	comes with risk	
7	education			
8				
9				
10				

Slot	1			
Group				
Members	Brown Chip			
#	Data Point	Implication	Positive or Negative?	What should we do?
1	Flawed analysis that got us to the discussion of GEN Z.	The perceived power distance between GEN Z and older generation is an actual reality vs belief.	Initial reaction across the board is negative for all of these data points and implications however we have not fleshed out.	Drink a beer!
2	Protests challenging DoD working with corporate America. The generation should influence what projects their companies undertake not just what individual projects "they" undertake.	1% of the population having experience with the DoD. How does the DoD stay on the forefront of the free world when an inherant distrust is present to what the DoD does.		
3	What drives these technological companies? Generation Z has more leverage with these companies. Their work will have impact not two years from now but two weeks from now.	Is it money, is it resources or is perception that drives these companies? To what extent is their a tension of a company that its purpose is to make money vice provide greater good to the community? Global companiys (perponderance of US companies) are driven by GEN desire. Compromise maybe the true driving initiative. Company is optimizing not soley based on profit. The compromise on the bottom line vs other values.		
4	GEN Z willing to work hard but need to see immediate impact.	The need for physical communities will diminish. Perhaps the pressures to hold them together is diminishing or becoming harder	Negative	
5	Active roles in political and social activities.	Equity issues of relationships as employees of a company vise GEN Z ers as consumers of society. GEN Z will not give up things like Twitter even though it has some of the most hateful and divisiness present.		
6	Millenials and GEN Z will be 75% of the workforceWOW!			
7	Technology is disaggregating society.	The amazon example driving companies to certain methodologies shipping to home vs travelling out to purchase things.		
8	The Industrial Revolution made the US what it is but the US is no longer in that econmic state.	Institution are inadequate to address the present much less the future and will brake the paradigm.		
9	Any place, Anytime, Anyway			
10	Self organization takes place now in cyberspce because of the limits of the terrestrial space.			

Slot	Ben Decker			
Group Members	White Pawn			
#	Data Point	Inceliantian	Desitive or Negative?	What should we do?
		Implication	Positive or Negative?	what should we do?
1	malinformation is true, disinformation is false	momoo do not roquiro litorooty		
2	meme is something that spreads like a disease vector; what's new is memes that cause action in the real world.	memes do not require literacty can be consumed as cat videos		
3	dependent on receptive audiences			
4	digital landscape/terrain			
5	amplification/manipulation			
6	testing at scale/speed/rapid feedback loops			
7	influence/interference			
8	"platforms" content/atomic unit			
9	diffusion			
10	adversarial behavior intent	divide/polarize		
	what happened when people decided that gay marriage was okay?			
	everything you thought you knew was wrong events	speed that these events happens		
	what happened when people decided marijuan was okay?			
	2nd and 3rd degree implications of current influence operations			
	75% of the workforce is going to be gen z and millenial			
	impact of deep fakes?			
	can the chaos creators open to attack by their own people?			
	can the muslims attack the chinese regime?			
	Assume the tools to create all forms of media effectively have become ubiquitous: ai, augmented reality, deep fake videos, games, movies, media platforms, social networks.			
	Audience Receptivity: Gen Z example of having media everywhere in multiple forms? And how that effects our values and ethics? Synthetic vs. Natural, Transcending our digital space,	A new set of values, a cultural revolution to a spiritual revolution, against the tyrannies that seeme inevitablesuppose there is a reaction to all the things that are scaring the shit out of us to one that is focused on ethics and valuespeople are looking for bedrock. A spiritual revolution. A mass movement towards real.		
	ethics? values?			
	What is the path to everything you thought you knew was wrong event?			
	What are the TTP's to piss on things we know now that are wrong?			

Slot					
Group Members	Blue Pawn	https://www.demdigest.org/wp- content/uploads/2018/08/disinfo-Types-of- Information-Disorder-Venn-Diagram.png	https://medium. com/@jamesbridle/something-is- wrong-on-the-internet- c39c471271d2		https://www.amazon. com/Death-Expertise- Campaign-Established- Knowledge/dp/0190469412
#	Data Point	Implication	Positive or Negative?	What should we do?	
1	Post-Truth Society	Tribal truths rule			Positive
2	Online social media platforms	Easy to connect and amplify, weaponize			Democratic
3	Conspiracy theories	Persistent alternative interpretations of reality and who is in control, narrative trumps truth			Secure
4	Faux insiders	Creation of a false credibility base, appealing to emotions			Fair
5	Alt identities	Bots, fake IDs, malicious actors			Pursuit of Happiness
6	Troll farms	Industrialized astroturfing and grassroots propaganda			
7	Propaganda for all	Anyone can propangadize, does not require state- level resources			
8	Cross-border interest groups	Digital tech allows interest groups to act globally			
9	Radical levelling	End of expertise, anyone can speak out, democratized voice and participation			
10	Editable history	Blur truths, revisionism			
11	Accelerationsim	Speed up events			
12	Millenialism / Apocalyptics				
13	Social Fragmentation	self-imposed segregration?			
14	Hybrid State Warfare				
15	Ideology over epistemology				
16	Globalization favors closed societies	Open societes are vulnerable to state-sponsored bad actors			
17	audio/video/Photo manipulation	Easy to manage perceptions or edit reality			
18	Revolution rhetoric				
19	Chaos is a ladder	Fomenting chaos creates opportunities for excluded populations			
20	Crisis Opportunism				
21	Who is the threat actor?				
22	Funded, coopted media	narratives reinforced / transferred into the mainstream / enhanced credibility			
	Technology ignorance	Tech savvy people can manipulate the ignorant			
24	Gambler doubling down/sunk cost falacies				
	Long term effects of weaponized narrative (algorhithm based childrens videos)				
26	2020 is going to be a mess				
27	Narrative Trumps Reality	the end of expertise, a society needs a shared narrative to exist	Both		
28	People are hungry for authority	Absence of credible authority (idols) creates opportunities for multiple sources of truth	Negative		

Slot				
Group				
Members	Red Pawn			
#	Data Point	Implication	Positive or Negative?	What should we do?
			<b>U</b>	Platforms should do risk modeling and collaborate on solutions;
1	Information/disinformation is platform agnostic	Easily accessible anywhere; information/disinformation can jump platforms; solutions often platform specific;	Positive - lots of channels, lots of diversity, lots of options; Negative- disinformation is very hard to combat; no single solution	algorithmic transparency; open source platforms and algorithms; crowdsourced ratings of contents; but if things like ranking algorithms are transparent they are more easily gamed; tracing content as it flows through the intermet - who created it? how was it modified? how do I easily find what people are saying about it?; Need to bring back some sort of data curation (can you do this in a way that isn't biased)
2	Lost tribes can find each other online	Malicious actors can exacerbate social division by linking extremist groups together; small interest groups can find each other and bora information network		We don't know who are building the communities. Exposing the malicious organizers in some cases may be useful. Individuals need to be diligent about rooting out the trolls from online communities so malicious actors can't radicalize them. Need Americans to care that Russians and foreign actors are manipulating the information space, even if the message they are pushing aligns iwth their beliefs Need to provide people graceful exits from the information positions theyve
	online Open networks	share information, network	Both Both. The problem is that people gravitate to people who confirm their beliefy values	bough into so they don't dig in further- non confrontational messages Bots and AI can help expose people to alternative ideas, indicate when people are tuning into too much bias, help expose alternative sources of information Anonymity is a benefit for human rights activists and idssidents in foreign countries; but in free societies it can be detrimental; imagine if you walked around Phoenix and half the people were wearing masks. Would you feel safe? We need to acknowledge there should be different rules in different societies based on their legal systems; the more likely it is that they will be persecuted the more they need anonymity
	Anonymized networks	Information/Messaging can be put out without fear or reprecussions		Anonymity is a benefit for human rights activists and idssidents in foreign countries; but in free societies it can be detrimental; imagine if you walked around Phoenix and half the people were wearing masks. Would you feel safe? Do we need to acknowledge there should be different rules in different societies based on their legal systems; the more likely it is that they will be persecuted the more they need anonymity. What's the greater threat? Do we want anonymity even if it destroys US society? Or do we give up anonymity and find other ways for activists and dissidents to work? Maybe we allow anonymity in small communities but don't allow it for public "broadcasts"
	Secure networks	Private conversations are enabled; but criminals and malicious actors can operate without law enforcement being able to monitor them	Both	Promote them. Privacy is crucial. Law enforcement needs to find other means to get information.
	Dark web	facilitate bad behavior, but also could facilitate privacy, rights activism, etc	Both	Similar to the anonymity network above, but the difference is dark web sites aren't broadcasting, so we should allow anonymity
	Propaganda is engineered by smart people	Makes it a very hard problem to solve	Negative	How do we discourage smart people from doing this? Educate the target audience so they aren't succeptible to manipulation; start in kindergartend
8	Memes	Can persuade easily often using non-verbal images	Both	Education is the key
9		see above	see above	see above
10				
	Some people are unwitting	People can dig in and not want to		
	cooperaters in disinformation	change their positions Algorithms can exacerbate filter bubbles; get people addicted to apps and websites; can give you information you really want; generate lots of revenue for companies; Algorithms are good at the status quo, they are bad at exceptions because they're good at recognizing patterns;	Both	Education is the key; give them a graceful ocgnitive exit Algorithmic transparency; more consumer algorithmic choice; stop optimizing for \$\$\$; You could train an algorithms to find exceptions and find black swans
	Coordinated manipulative activity is in marketing, politics, and malign people	Two paths 1) don't allow anyone to use coordinate manipulated activity; 2) allow all of it and work with that environment	Both	Internet should be a public utility and you ban coordinated manipulated activity; Create a pay for use model for Facebook that protects user information
	Propaganda is not new; so what has changed?	More people can produce propaganda; tools enable broader, faster dissemination at less cost; Anyone can mass transmit propaganda; information proveance is non-existent.	Negative	See anonymity
	US defines war differently than	Information operations in the US are not as valued as kinetic		
	adversaries Internet is borderless but our international system is based on	warfare International law is based upon the Westphalian nation-state		International policy needs to be updated to account for the new (virtualized)
16	soverign borders DIME model of national power - individuals have much more	model and physical boundaries Econ- private companies have huge power; bitcoin disrupts currencies; individuals can conduct global information operations; companies conduct diplomacy; individuals can	Negative	world. International policy needs to be updated to account for the new (virtualized)
17	power Emergence of virtualized transnational organizations (eg	negatively impact diplomacy	Negative	world. How do the instruments of national power affect virtualized nations? What does
18	BitNation)		Both	military power mean to a virtualized nation?

	Conspiracy theorists and			
	extremists use nominal discussions about things like			
	immigration to inject messages/			
	shape conversations around			
19	racism, sexism, etc			
	Individuals now conducting hybrid			
	operations with mass shootings,			
20	media campaigns, trying to spur	Content needs to be pre-created		
20	leaderless virtual movements	and staged prior to the event		
	difference between disinformation, misinformation, and			
21	misinformation, and malinformation			
	Some information is just low			
	quality not necessarily			
22	disinformation			
	Content can be easily tested with			
23	mass audiences			
	Video can now be convincingly			
24	and cheaply modified			
25	Bots are used for amplification			
	Different types of			
	accounts/strategies depending on			
	intent: Bots (amplification),			
	Parody/Spoof (Message testing), Camoflauge/Deep Cover/Account	Hard to differentiate legitimate		
26	Takeover (Message delivery)	information from misinformation	Negative	Disable anonymity
		Scale-free networks explains		
		networks in which the prevailing		
		characteristic is link formation. It		
	No see hit on a solution to	does not account for link		
	No graph theory models to account for prevailing	expiration or link breaking (the primary characteristic of social		
	characteristics of social media	media networks) which account		
	networks as opposed to social	for self-radicalization and		
27	networks	confirmation bias.	Negative	Data provenance and public education.
28	Anybody can mass produce inform			
29				
30				
	Top level points			
	Anyone can produce mass influence	e campaigns		
	Anonymity is problematic			
	We need to run the Internet as a	a public utility; need a for pay mo	del for Facebook	
	Graceful exits from cognitive pos			
	Graderal exits north cognitive pos	5110115		

## Appendix 5

## FUTURES WORKBOOK DAY ONE AND TWO

In groups, participants develop scenarios based on data inputs from each speaker. The inputs were randomly selected. These scenarios followed a strict outline designed to envision a person in a place with a problem. Participants answered a variety of questions about their character including, "Describe how your person experiences the threat." In addition to designing future scenarios from an individual character's perspective, groups also explored the experience of the adversary.

Finally, groups were pushed to backcast. This foresight tool defined – what we have control over, what we do not have control over, and steps we should take to disrupt, mitigate, and recover from these futures four and eight years out.

This exercise was done twice, once each day, and the workbooks were used to inform the scenarios, found in this report. Participants had between one to two hours to complete the threatcasting process.

The information found in the following pages is raw data and has not been spell checked or edited in any manner.

## FUTURES WORKBOOK DAY ONE

Team Members:	Black Chip
Experience Title:	
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook	
(the rollup for each Slot)	
Caralian 1	Perspective from privileged American gen Z - Brains develop differently ; two-tiered culture (access vs
Speaker 1	non-access) - negative - form interest-based connections across priviledge/non
	censorship - Balance of freedom of speech and control - regulate platforms and culture of conversation,
Speaker 2	not content; self-regulation of communities (platforms that give more ability to self-police, assert rules)
Speaker 3	Ideology over epistemology
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible.	
The power is in the details. Scribes please write as	
though you are writing for someone who is not in the	
room.	
	Anna is a Cuban, black, lesbian, immigrant, 22 y.o.; brilliant technologist brought in by
Who is your person and what is their broader	Space-X; expertise is exo-psychology, or tweaking people's brain activities for members of
community?	the Mars colony; NASA is now a subsidiary of Space-X
Where do they live?	Simple, two-bedroom apartment outside Huntsville, AL - part of the Space-X campus
	Community security problem; "One Planeters" wealthy religious fringe group oppose the Mars mission; conducting "low & slow" attack on integrated cognitive interface to disrupt
	and threaten the mission on the grounds that all mankind should live on Earth; "OP's" goal:
	collapse of the Mars colony from within ( This event happens: "Everyone on Mars walks
What is the threat?	outside without suits! )
	· · · · · · · · · · · · · · · ·
Briefly describe how your person experiences the threat (T	
	Anna connects daily with a brain interface connected to Mars; she feels some dissonance/uncanny valley with her connection b/c "One Planters" have begun manipulating
	her worldview and experiences during off-work hours through home-based computer brain
	interfaces contributing to her social media feeds
What is it? Who else in the person's life is involved? What s	pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or
Threat Actor hoping for? What is the Adversary or Threat A	
	Josie is Anna's girlfriend who is jealous of the time Anna spends time with the colony and the
What willowabilities does this arrange	sophistication of the connection with colonists
What vulnerabilities does this expose?	
	Development of meta-cognitive networks highlights new security vulnerabilities (not just technical, but social)
PART TWO: Experience Questions (from the perspective of	"the person" experiencing the threat)
	Plan of Attack (in order of escalation) 1. Attack Carol Reptuationally and Politically, if that doesn't work 2.
	Attack her at Church, when that doen't work 2a. Get one of their children addicited to neurochemically hypnotic Augemented Reality Porn, then leak it to members of the church. 3. Alongside, try and
	economically seduce George into selling the farm 4. Bring in Carol as mistress to exploit George to steal IP 5. When that doesn't work, cause maximum destruction and chaos by making them get a divorce
Questions (pick two)	. S. Then that doesn't work, badse maximum destruction and chaos by making them get a UIVOICE
"The Event" - How will your person first hear about or	
experience the threat? What events or actions led up to	

it?

What is different and/or the same as previous events or instantiations of the threat?	
When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	Chinese or multinational use the information systems in the church to spy on Lily, and find vectors for gossip and chaos. Church is the attack on Lily begins
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)	
What will the person have to do to access people, services, technology and information they need?	Is she going to be able to keep her name? Try and wipe some of her digital identity? Will that make it worse? How does a person not only deal with an identity attack, but how does she rely on her community to heal an influence and reputation attack?
What are the broader implications of a threat like this? What might a ripple effect look like?	
Question One	PASTE HERE
	What are the broader implications of a threat like this? What might a ripple effect look like?
	Mars colony mission collapses; Space-X goes bankrupt; Mars exploration abandoned; One Planeters "win"
Question Two	PASTE HERE
	"The Event" - How will your person first hear about or experience the threat? What events or actions led up to it?
	Anna is the first person to watch the colony walk out the door
PART THREE. Enabling Questions - Adversary of Threat Acto	or (from the perspective of "the party" bringing about the threat)
Questions (pick two)	
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	
New Practices: What new approaches will be used to	
bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	
Business Models: What new business models and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available today	
that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What	
industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	More is known, more is entangled (business / government connections, the tech and data layers are entangled) in ways that are hard to detect or prevent.
Question One	PASTE HERE
	New Practices: What new approaches will be used to bring about your threat and how will
	the Adversary or Threat Actor enlist the help of the broader community?
	Al system platforms on her cognition that can look for an incursion; One Planeters supported through back channels with an corporate competitor; hacking the girlfriend's Josie's cognition through her recommendation feeds and what she sees and consumes; "Attack AI" developed to establish reflexive (passive) control of Josie
Question Two	PASTE HERE
	Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?
	brain-machine interfaces. Adversarial neural networks. Low-bandwidth communications. Brain mapping. Brain-brain interfaces.
DART FOUR Backcasting - The Defenders /from the person	ctive of the defenders)
PART FOUR– Backcasting - The Defenders (from the perspe	

Examine the combination of both the Experience Questions as well as the Enabling Questions.

Explore what needs to happen to disrupt, mitigate and recover from the threat in the future.

Gates:	
What are the Gates?	Josie's access to Anna; Anna's access to the cognition link; psychologist on Mars; selection of Mars volunteers who are hardened against psychological manipulation;
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.	
1	Space-X contractor, DynCorp "watches the watchers"
2	Space-X C-suite
3	
4	
5	
Flags:	
What are the Flags?	Space weather; One Planeter's narrative & recruiting; Other corporate competitors
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.	
1	
2	
3	
4	
5	
<i>Milestones:</i> What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
1	
2	
3	
4	
5	
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
1	
2	
3	
4	
5	

Team Members:	White Chip
Experience Title:	Preventing Texit
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of	
the research areas in the Research Synthesis Workbook (the rollup for each Slot)	
Speaker 1	They value diversity and want to create more equitable society & environment
Speaker 2	Balance of freedom of speech and control
Speaker 3	Tech savvy people can manipulate the ignorant
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible.	
The power is in the details. Scribes please write as	
though you are writing for someone who is not in the	
room.	
Who is your person and what is their broader	
community?	A 33 year old professsional Latino Man
Where do they live?	Dallas, Texas
	Texas is holding a refendum to succeed from the United. The white majority alt right and alt
What is the threat?	left politics have inflamed identity politics and it appears likely that the country will break apart.
Briefly describe how your person experiences the threat (Th	e Event) and possible 2nd/3rd order effects.
	The minority professional tried to balance his desire for social equity, while he is personally
	privileged yet self identified as a minority and invested in the national economy. Possibly
	unrest as well as economic impact and repercussion for minorities within Texas, as well as
What is it? Who also in the person's life is involved? What s	migrate to border states and Mexico. pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or
Threat Actor hoping for? What is the Adversary or Threat A	
	Family, peers and economic partners in his law firm, as well as church, which is primary
	Latina politically/socially progressive Catholic church. Also concerned about clients at the
	firm. The foreign interferrence creates wedges within the U.S. and looks to break the
	country into several governing entitites or at least create internal division to create freedom of maneuver within Latin America. Cohesive and unified body politic with emboyed national
	government and engaged and committed electorate.
What vulnerabilities does this expose?	
	Lack of legitimate national authority and social divisions are causing the repeat of a BREXIT
	vote, designed by adversaries to divert attention of peer powers.
DADT TMO Experience Questions (from the second states)	"the person" experiencing the threat
PART TWO: Experience Questions (from the perspective of	
Questions (pick two)	
"The Event" - How will your person first hear about or	
experience the threat? What events or actions led up to	
it?	
What is different and/or the same as previous events or	
instantiations of the threat?	

When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)	
What will the person have to do to access people, services, technology and information they need?	
What are the broader implications of a threat like this? What might a ripple effect look like?	
Question One	"The Event" - How will your person first hear about or experience the threat? What events or actions led up to it?
	Clients request new representation as they no longer trust that their latino lawyer can represent in the "New Texas". Heard from the pulpit the concerns that the community would be looking to leave the US and the Church is concerned about religious freedoms after such a split. Reviewing message boards indicate fracturing the idenity politics and advocated the Latino threat to Texas, as the Catholic church is advocating against succession. The Alt Right has convinved the white working class and elite that this cultural war can only be won
Question Two	What are the broader implications of a threat like this? What might a ripple effect look like?
	Pueuto Rico, Somoan, and Hawaiians see that they can no longer trust the US. The environmental extremists in the PNW see a potential to re-envision their utopian evergreen vision. The Mormons look to take pre-emptive steps to secure their postion and rights within the US, and also advocate for additional splintering.
PART THREE: Enabling Questions - Adversary or Threat Actor Questions (pick two)	or (from the perspective of "the party" bringing about the threat)
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do	
these barriers and roadblocks differ geographically? New Practices: What new approaches will be used to bring about your threat and how will the Adversary or	
Threat Actor enlist the help of the broader community? Business Models: What new business models and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
Question One	Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?
	Popularity of the constitutional crisis and the increasing conflict between local and federal authourity. Lack of recognized national experts leads to local and regional media dominating newpaper and TV. Extremist influences sewing fear and division thourgh influence campaign to encite the local echo chamber. The media differences by region facilite the foreign actors malicious information information.
Question Two	Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?

	The adversay will team up with both alt right and alt left to ensure local devision and also
	drive wedge between regional powers within the US. Delegitimizing the national conflict resolution system while emphasizing imaginary Mexican across the borders. Require new public and private partnerships to include influencers and work across community
	boundries.
PART FOUR– Backcasting - The Defenders (from the perspe	ective of the defenders)
Examine the combination of both the Experience Question	
Explore what needs to happen to disrupt, mitigate and reco	-
Gates:	
What are the Gates?	
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.	
1	Information, facts and narrative concerning the common benefits of US for domestic and international leadership.
2	Telecommunication infrastucture and networks
3	Provabley Secure and authentic Quantum Communication infrasturture
	Election finance laws
5	
Flags:	
What are the Flags?	
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching but for as heralds of the future to come.	
1	Bot activity
2	Election Finance limits and contributions
	Racial Tension within states and within schools
	community level conflict
5	Public accusations of law enforcement bias
Milestones:	
What needs to happen in the next 4 years (2019-2023) to	
disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
1	Enhance legitmacy of national authourity
2	Educate the population of the benefits of the national identidy
3	Discredic alt left and alt right
4	Technology to identify algorigm manipulation
5	Prosecute the manipulation and influence operations
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the hreat in your future? What are our actionable objectives?	
1	Identiy ways to flag misinformaiton, disinformation
	new conflict resolution to involve and empower the influences, on and off line
3	
4	
5	

Team Members:	Blue Chip
Experience Title:	Kristallnacht as a meme
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of	
the research areas in the Research Synthesis Workbook	
(the rollup for each Slot)	
Speaker 1	World wide this gen pays attention to the latest communication trends and don't want to be left behind
	word wide this gen pays alteration to the fatest communication trends and don't want to be fet benind
Speaker 2	what if I dont want to look in a mirror
Speaker 3	meme is something that spreads like a disease vector; what's new is memes that cause action in the real
Sheaver 2	world.
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible.	
The power is in the details. Scribes please write as	
though you are writing for someone who is not in the room.	
10011.	
Who is your person and what is their broader	
community?	28 Year male old Republic of Srpska
Where do they live?	Republic of Srpska
	Influencer politicians uses weaponized memes to drive their election/popularity and promote conservative/rightest movements backing them. The memes kick off a self-
	sustaining cycle of violence against minority groups who disagree. This results in a crop of
	leaders across Eastern Europe, South America, and South Asia who form an informal
	coalition of states that reject Western democratic values. The United States and UK are
	weakened and divided, and no longer effectively argue for Western norms. This heightens the threat of ethnic cleansing, terrorist violence against authoritarian states, and inter-state
	violence due to tensions amonst ethno-nationalist leaders. Russia is the dominant arbiter
What is the threat?	amongst its block.
Briefly describe how your person experiences the threat (T	
	Nationalist leader takes power in Serbia; rejects Western relationships in favor of Eastern
What is it? Who also in the nerson's life is involved? What	block; builds power off expoiting Serbian irrendentism pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or
Threat Actor hoping for? What is the Adversary or Threat A	
	Parents share memes affiliated with ethno-nationalist groups promoted by government;
	youth engaged via more radical VK stories, including videos produced by paramiliary groups
What vulnerabilities does this expose?	
	Domination by malign media narratives playing on etnic tensions
PART TWO: Experience Questions (from the perspective of	"the person" experiencing the threat)
Quantiana (nick two)	
Questions (pick two)	
"The Event" - How will your person first hear about or experience the threat? What events or actions led up to	
it?	
What is different and/or the same as previous events or	
instantiations of the threat?	

When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)	
What will the person have to do to access people, services, technology and information they need?	
What are the broader implications of a threat like this? What might a ripple effect look like?	
Question One	PASTE HERE
Question One	"The Event" - How will your person first hear about or experience the threat? What events or actions led
	up to it? Sasha is received a meme via a next generation (WhatsApp) whatever that will be feeding a story of a purported act of violence against a Serbian by an ethnic Bosnian, followed by coordinated calls in social media to carry out violence. This follows a nationalist campaign for Srpska to be annexed by Serbia
Question Two	PASTE HERE
	What are the broader implications of a threat like this? What might a ripple effect look like?
	The event could lead to renewed conflict between Serbia and Bosnia, ethnic cleansing, intervention to potentially include "peacekeeper" deployment by Russia, and weak to no response by the West. Memes deployed in the West will target Left (ant-imperialist) and Right (anti-Muslim) populations to attack Western intervention.
PART THREE: Enabling Questions - Adversary or Threat Actor	or (from the perspective of "the party" bringing about the threat)
Questions (pick two)	
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	End efforts of Serbia to join the EU; continue weakening of Western tilt amongst Eastern Europe
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	
Business Models: What new business models and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
	Research Pipeline: What technology is available today that can be used to develop the
Question One	threat? What future technology will be developed?
	Acceleration of WhatsApp closed platforms, coopted by government networks
Question Two	Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?
	State/parmilitary networks
PART FOUR– Backcasting - The Defenders (from the perspe	ctive of the defenders)
Examine the combination of both the Experience Questions	· · · · · · · · · · · · · · · · · · ·
Explore what needs to happen to disrupt, mitigate and reco	
Carton	
<i>Gates:</i> What are the Gates?	

List out what the Defenders (government, law	
enforcement, industry, etc) have control over to use to	
disrupt, mitigate and recover from the threat. These are	
things that will occur along the path from today to 2029.	
1	
2	
3	
4	
5	
Flags:	
What are the Flags?	
List out what the Defenders don't have control over to	
disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.	
1	
2	
3	
4	
5	
Milestones:	
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
1	
2	
3	
4	
5	
What needs to happen in the next 8 years (2019-2027) to	
disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
threat in your future? What are our actionable	
threat in your future? What are our actionable objectives?	
threat in your future? What are our actionable objectives? 1 2	
threat in your future? What are our actionable objectives? 1 2 3	
threat in your future? What are our actionable objectives? 1 2	

the research areas in the Research Synthesis Workbook (the rollup for each Siot)  Speaker 1  Speaker 2  Note getone in text, could you identify when someone wants to start a fight, e.g. ends with a period Speaker 3  Chaos is a ladser  Chao	Team Members:	Green Pawn
Data Points           Data Points           NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Stot)           Speaker 1         Very committed to causes, more serious, understand hard work.           Speaker 2         How to gettone in text, could you identify when someone wants to start a fight, e.g. ends with a period           Speaker 3         "Chaos is a ladder"           PART ONE: Who is your Person?         NOTE: Remember to give as much detail as possible. The gover is in the detail. Sorthes please write as though you are writing for someone who is not in the room.           Who is your person and what is their broader community?         Uly the Farmer (primarily soy), single mother (kids aged 7, 13, 16), small business owner.           Where do they live?         towa small town.         Loss of identity, personhood, and livelihood through corporate espionage caused divorce.           Briefly describe how your person experiences the threat (The Event) and possible 2nd/3rd order effects.         Husband George leaves bity for Carol (church friend, but also daughter of multimational adaptions the informe and minimiser family trains called Smyth Soy, after George Smyth Site able main in the adaption and in George Site and minimiser family trains called Smyth Soy, after George Site of the towa permanature association and spaining ground as infinement prevident adaption the biotage permanature adsociation and spaining ground as infinement prevident adaption the biotage permanature adsociation and spaining ground as infinement prevident adaptin the bistorte gover adaption the deverany or Thitel Actor hispin	Experience Title:	
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	What vulnerabilities does this expose?	

	Lily's entire online identity has been built around her roles as a small business owner, wife, mother, and good church-going Iowan. Due to her husband's betrayal, she is considering going back to her maiden name (Johnson), but is concerned about the implications for the name of the farm (re-naming would require massive rebranding) and having a different last name than her children in a small, gossip-y town. Lily's entire income is vulnerable as the multinational corporation seeks to steal her techniques and technologies and she now has to re-build a well-established brand, including shoring up current business relationships, while continuing to raise her kids, who are seven, 13 and 16 years old. Her children are exposed to actions by foreign agents, who seek to undermine Lily and sully her name in the greater farming community.
PART TWO: Experience Questions (from the perspective of	"the nerson" experiencing the threat)
TART TWO. Experience Questions (non-the perspective of	the person experiencing the threaty
Questions (pick two)	
"The Event" - How will your person first hear about or experience the threat? What events or actions led up to it?	
What is different and/or the same as previous events or instantiations of the threat?	
When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)	
What will the person have to do to access people, services, technology and information they need?	
What are the broader implications of a threat like this? What might a ripple effect look like?	
Question One	When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?
	Lily will on the surface primarily see her husband's cheating as a betrayal, involvement / apathy of the church as a betrayal. She will be devastated and after initial period of loss and depression will want to reclaim her identity, likely through re-branding the farm and changing her last name back to her maiden name. She will not see or understand until later that George's betrayal was manipulated by a 'honey pot' foreign agent, Carol, as part of a campaign to discredit Lily and steal her intellectual property. Lily will feel that her income and way of life are vulnerable; her position in the community is threatened; her online personal and business profiles and reputation are under attack by unknown individuals; and her children are teased by schoolmates, excluded by school faculty, and vulnerable to corruption by foreign agents.
Question Two	What will the person have to do to access people, services, technology and information they need?
	Part of Carol's backstory (or convenient coincidence) is her active involvement in the church, she is well liked by the community, and has used Lily's strong (though personable) personality in the public sphere to portray Lily and George's prior-to-divorce homelife as miserable. Thus, Lily struggles in the small town to access resources, as she is ostracized by her community. Her kids recieve some of the backlash as well as collateral damage, as the public percieves (through Carol and the church) that Lily obtained full-custody through coersion rather than George's abandonment. Through interconnectedness and entanglement, the divorce stains Lily's entire personhood, as her online persona is linked to her business to her children to her social life, even bank account and driver's license, etc.
PART THREE: Enabling Questions - Adversary or Threat Actor	or (from the perspective of "the party" bringing about the threat)
Questions (pick two)	
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	

Business Models: What new business models and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
Question One	PASTE HERE
	New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?
Question Two	PASTE HERE
	Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?
DART FOUR Packasting The Defenders (from the parson	ctive of the defenders)
PART FOUR- Backcasting - The Defenders (from the perspe	
Examine the combination of both the Experience Questions Explore what needs to happen to disrupt, mitigate and reco	
Gates:	
What are the Gates?	
List out what the Defenders (government, law	
enforcement, industry, etc) have control over to use to	
disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.	
1	Protections for IP
2	
3	
4	
5	
Flags:	
What are the Flags?	
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.	
1	Personalized online targeting directed at Lily's kids - (hate your parents?)
2	
3	
4	
5	
Milestones:	
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
1	Efforts to disentangle Lily's personal online persona from public online persona.
2	
3	
4	
5	

What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
1	
2	
3	
4	
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Team Members:	Purple Pawn
Experience Title:	
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Slot)	
	The Industrial Revolution made the US what it is but the US is no longer in that econmic state.
Speaker 1	Institutions are inadequate to address the present much less the future and will break the paradigm.
Speaker 2	censorship. Balance of freedom of speech and control
Speaker 3	Chaos is a ladder. Fomenting chaos creates opportunities for excluded populations
PART ONE: Who is your Person?	
·	
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as though you are writing for someone who is not in the room.	
Who is your person and what is their broader	
community?	Female, high school, postindustrial, border town
Where do they live?	Yuma, AZ
What is the threat?	chaos caused by, breakdown of economic and therefore social order
Briefly describe how your person experiences the threat (T	he Event) and possible 2nd/3rd order effects.
	lack of jobs (structural unemployment) and opportunity, impowerished neigborhoods (lack of services, fresh food, low quality public space, leading to lack of security). This leads to desire for authority, someone to try to fix it as well as public health crisis. Uncertainty leads to overthrow of government, breaking down food supply chain. Martial law and isolationalism. Border wall is digital but with tunnels underneath. US citizens occasionally cross to Mexico for unregulated healthcare services and to smuggle in medication. Children typically grow up with a single parent or grandparents even if parents are living in the same community.
What is it? Who else in the person's life is involved? What s Threat Actor hoping for? What is the Adversary or Threat A	pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or ctor frightened of?
	they have arcieved confusion and fear. Given lack of resources, social trust and relatiosnhips have broken down. Decline of US incluence in global everything (political, economic, scientific, innovation, military). This leads to international power vacuum and free for all for autocrats.
What vulnerabilities does this expose?	
	Lack of values (its declaratory, not lived), communication& discussion space, aplified by shallow and superficial mass comms platforms
PART TWO: Experience Questions (from the perspective of	"the person" experiencing the threat)
Questions (pick two)	
"The Event" - How will your person first hear about or	
experience the threat? What events or actions led up to it?	
What is different and/or the same as previous events or instantiations of the threat?	

When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)	
What will the person have to do to access people, services, technology and information they need?	
What are the broader implications of a threat like this? What might a ripple effect look like?	
Question One	PASTE HERE
When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	slow creep of lack of everything, gradual, only relized in hindsight. At first
Question Two	PASTE HERE
PART THREE: Enabling Questions - Adversary or Threat Actor	or (from the perspective of "the party" bringing about the threat)
Questions (pick two)	
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	
Business Models: What new business models and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
Question One	PASTE HERE
Question Two	PASTE HERE
PART FOUR– Backcasting - The Defenders (from the perspe	
Examine the combination of both the Experience Questions	-
Explore what needs to happen to disrupt, mitigate and reco	wer from the threat in the future.
Gates:	
What are the Gates?	
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.	

Team Members:	Grey Pawn
Experience Title:	
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of	
the research areas in the Research Synthesis Workbook	
(the rollup for each Slot)	
	People gain their identity from their groups and we are seeing more fragmentation into amplier and
Speaker 1	People gain their identity from their groups and we are seeing more fragmentation into smaller and smaller groups
Speaker 2	Cognitive Ease/entice people to self-reflection, and then engage with learn, and potentially embrace new truths? If you want to start a revolution, throw a better party.
	Meme-factories generating disinformation/What makes memes go is how well it gets absorbed. How it gets adapted. In closed societies, they are using symbols to get around censorship (rice + bunny rabbit
Speaker 3	for #metoo)
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as	
though you are writing for someone who is not in the	
room.	
Who is your person and what is their broader	
community?	Gen Z digital native accessing internet solely through mobile devices
Where do they live?	Dallas, TX
	Online memory based Towas second on memory based on disputed 2029 federal election
What is the threat?	Online meme-based Texas secession movement based on disputed 2028 federal election results and increasing divergence from "coastal" zeitgeist
Briefly describe how your person experiences the threat (T	
	Mobile media balkanized by aggressive filter bubbling; narrow narrative frame; anti-federal government sentiment; guazy nostalgia
What is it? Who else in the person's life is involved? What	specifically does the Adversary or Threat Actor want to achieve? What is the Adversary or
Threat Actor hoping for? What is the Adversary or Threat A	
	Family; social media network; all of Texas; all of the United States A weakened or
	fragmented United States A strong United States with strong allies
What vulnerabilities does this expose?	Tribalism; anti-statism; filter bubbles; balkanization; excessive fixation of self-determination
	הואסוואות, מהנריצנמנוצות, ווונפר שעששופא, שמוגמוווצמנוטוו, פאנפאצועפ וואמנוטוו טו צפוו-טפעפרווווזמנוטח
PART TWO: Experience Questions (from the perspective of	"the person" experiencing the threat)
Questions (pick two)	
"The Event" - How will your person first hear about or	
experience the threat? What events or actions led up to	
it?	
What is different and/or the same as previous events or instantiations of the threat?	
When the person first encounters the threat, what will	
they see? What will the scene feel like? What will they	
not see or understand until later?	

How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)	
What will the person have to do to access people, services, technology and information they need?	
What are the broader implications of a threat like this? What might a ripple effect look like?	
Question One	What is different and/or the same as previous events or instantiations of the threat?
	Constant critique of federal disaster relief and other "local" issues;
	continued local "devolution" narratives about the preference for local solutions
	loss of prevailing federal government counter-narratives, owing to norms or regs
	computational amplicifation and A/B testing population completely cut off from federal support; FEMA, education, medicare/social security, texas only news stations, etc.
Question Two	What will the person have to do to access people, services, technology and information they need?
	Govt
	News
	New laws and norms, i.e. state constitution will become dominate (1st amendment changes?)
	exposes weak state governemnt infrastructure, what happens when social security checks, agricultural
	subsides, etc do not come
PART THREE: Enabling Questions - Adversary or Threat Actor	or (from the perspective of "the party" bringing about the threat)
Questions (pick two)	
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	
New Practices: What new approaches will be used to	
bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	
Business Models: What new business models and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
Question One	Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?
	(Federal-sponsored) counter-narratives
	Skepticism of outsiders
Question Two	PASTE HERE
PART FOUR– Backcasting - The Defenders (from the perspe	ctive of the defenders)
Examine the combination of both the Experience Question	
Explore what needs to happen to disrupt, mitigate and reco	
Gates:	
What are the Gates?	
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.	

1	
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Flags:	
What are the Flags?	
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.	
1	
2	
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4	
5	
Milestones:	
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
1	
2	
3	
4	
5	
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
1	
2	
3	
4	
5	

Team Members:	Orange Pawn
Experience Title:	Debbie's Dilemma
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook	
(the rollup for each Slot)	
Speaker 1	World wide this gen pays attention to what is coming out of Silicon valley and don't want to be left behind
Speaker 2	off shoring of critical infrastructuretechnology talent
Speaker 3	Faux insiders
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible.	
The power is in the details. Scribes please write as	
though you are writing for someone who is not in the	
room.	
	Debbie, 31, an Asian-American journalist living in LA working for a Chinese business media
	company (a la Dow Jones), 2nd-gen American, English is first language, fluent in Mandarin
Who is your person and what is their broader	Chinese; her professional audience is diverse business professionals, investors, etc., across Pacific Rim. Her friend social network reflects diverse American population but family is
community?	mostly of Chinese descent
Where do they live?	LA
	She has been asked to write a series of damaging articles (information both true, but damaging and untrue) about Amazon with the intent to influence its stock price (destroy
	investor confidence) so that it needs to sell to China, who will then have access to all
What is the threat?	consumer data and cloud-based web servers. Agreements Amazon has with DOD, etc., other
what is the threat:	government agencies, are now potentially available to China.
Briefly describe how your person experiences the threat (TI	ne Event) and possible 2nd/3rd order effects.
	Debbie has both a moral dilemma she wants to keep her job, but she also surmises this is
	capitalism at work and this is part of how the global economy works. As a financial journalist,
	her narrative frame is not always an objective picture but rather is pro-business. But now,
	she's been asked to write something that is patently false, which is a new level of deception.
	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese
	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese government. She wants to investigate the extent of this but now is not sure who to trust.
What is it? Who else in the person's life is involved? What s Threat Actor hoping for? What is the Adversary or Threat A	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese government. She wants to investigate the extent of this but now is not sure who to trust. pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or
	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese government. She wants to investigate the extent of this but now is not sure who to trust. pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or ctor frightened of? The adversary wants to achieve technological, financial and intellectual property, as well as
	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese government. She wants to investigate the extent of this but now is not sure who to trust. pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or ctor frightened of? The adversary wants to achieve technological, financial and intellectual property, as well as leverage over the US govt. The instruments of national power via information (technology,
Threat Actor hoping for? What is the Adversary or Threat A	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese government. She wants to investigate the extent of this but now is not sure who to trust. pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or ctor frightened of? The adversary wants to achieve technological, financial and intellectual property, as well as
	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese government. She wants to investigate the extent of this but now is not sure who to trust. pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or ctor frightened of? The adversary wants to achieve technological, financial and intellectual property, as well as leverage over the US govt. The instruments of national power via information (technology,
Threat Actor hoping for? What is the Adversary or Threat A	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese government. She wants to investigate the extent of this but now is not sure who to trust. pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or ctor frightened of? The adversary wants to achieve technological, financial and intellectual property, as well as leverage over the US govt. The instruments of national power via information (technology, IP, consumer data) and economics.
Threat Actor hoping for? What is the Adversary or Threat A	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese government. She wants to investigate the extent of this but now is not sure who to trust. pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or ctor frightened of? The adversary wants to achieve technological, financial and intellectual property, as well as leverage over the US govt. The instruments of national power via information (technology, IP, consumer data) and economics.
Threat Actor hoping for? What is the Adversary or Threat A	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese government. She wants to investigate the extent of this but now is not sure who to trust. pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or ctor frightened of? The adversary wants to achieve technological, financial and intellectual property, as well as leverage over the US govt. The instruments of national power via information (technology, IP, consumer data) and economics.
Threat Actor hoping for? What is the Adversary or Threat A	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese government. She wants to investigate the extent of this but now is not sure who to trust. pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or ctor frightened of? The adversary wants to achieve technological, financial and intellectual property, as well as leverage over the US govt. The instruments of national power via information (technology, IP, consumer data) and economics.
Threat Actor hoping for? What is the Adversary or Threat A	she's been asked to write something that is patently false, which is a new level of deception. Her loyalty to her job and her loyalty to country are at odds. Debbie has a revelation at this juncture that there is significant malfeasance on the part of her employer and/or the Chinese government. She wants to investigate the extent of this but now is not sure who to trust. pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or ctor frightened of? The adversary wants to achieve technological, financial and intellectual property, as well as leverage over the US govt. The instruments of national power via information (technology, IP, consumer data) and economics.

Questions (pick two)	
"The Event" - How will your person first hear about or experience the threat? What events or actions led up to it?	
What is different and/or the same as previous events or nstantiations of the threat?	
When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)	
What will the person have to do to access people, services, technology and information they need?	
What are the broader implications of a threat like this? What might a ripple effect look like?	
Question One	PASTE HERE
	"The Event" - How will your person first hear about or experience the threat? What events or actions led up to it?
	She was assigned a series of stories by her Chinese-owned publication that contain damaging allegations about Amazon. Sources that were fed to her were vetted, but were deceiving her (company set her up to follow a certain investigative path). She has access to confidential information that her company is pressuring her to report but that compromises her journalistic ethics. But she wants to keep her job. Action that led up to event: pressure (including elements in her employment contract) to develop her personal social media network and fuse that audience with her journalism work, but without attribution.
Question Two	PASTE HERE
	What are the broader implications of a threat like this? What might a ripple effect look like?
	Reported information will bring down Amazon and US financial markets, China is able to buy Amazon, al its IP, all its web servers, all its customer data. No place to buy goods because physical marketplaces have been eaten by Amazon. Ripple effect into smaller ecommerce and goods manufacturing businesses. Ripple effect into transportation companies and social science research (Mechanical Turk). Government agencies and private companies reliance on Amazon cloud services. Theft of IP and patents.

Questions (pick two)	
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	
Business Models: What new business models and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
Question One	PASTE HERE

Question Two	PASTE HERE
PART FOUR– Backcasting - The Defenders (from the perspe	ctive of the defenders)
Examine the combination of both the Experience Questions	s as well as the Enabling Questions.
Explore what needs to happen to disrupt, mitigate and reco	over from the threat in the future.
<b>-</b> .	
Gates:	
What are the Gates?	
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.	
1	
2	
3	
4	
5	
Flags:	
What are the Flags?	
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.	
1	
2	
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5	
n <i>d</i> :/	
<i>Milestones:</i> What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
1	
2	
3	
4	
5	
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
1	
2	
3	
4	

Team Members:	Brown Chip
Experience Title:	
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of the	
research areas in the Research Synthesis Workbook (the rollup for each Slot)	
Speaker 1	The Industrial Revolution made the US what it is but the US is no longer in that econmic state Institution are inadequate to address the present much less the future and will brake the paradigm.
Speaker 2	privacy is changing - used to be that there was a specific difference between private information and public information; public spaces and private spaces; separation between public/work, public and social, private and social, private/family, etc;now those borders have eroded both by virtue of the intrusion of media/social media, and by reconceptualizations (and exploitations) of what is personal/private/public - comes with risk - we need greater awareness of the changing nature of privacy; how do you develop empathy online with only screen-based cues?
Speaker 3	amplification/manipulation
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as though you are writing for someone who is not in the room.	
	Jaunita Doe - Hispanic heritage, 28yoa, catholic, 1st generation college, single but living with
Who is your person and what is their broader community?	a male partner, immediate and extended family living throughout Southwest US,
Where do they live?	Denver, CO - genetrified downtown area
What is the threat?	Serious (Sorting) peaceful movement to seperate Red/Blue in the United States
Briefly describe how your person experiences the threat (The E	vent) and possible 2nd/3rd order effects
	Ms. Doe is of the blue pursuassion and fears no mobility in a Red company but living in a Blue neighborhood. The uncertainity of what is happening, not knowing what to do. 2nd effect of loss of federal funding to local services Ms. Doe. 3d effect is loss of confidence in economic drivers.
What is it? Who else in the person's life is involved? What spec Actor hoping for? What is the Adversary or Threat Actor frighte	fically does the Adversary or Threat Actor want to achieve? What is the Adversary or Threat ned of?
	Ballot propositions i.e. this state will join Blue America or Red America
What vulnerabilities does this expose?	
	The extreme polarization of the United States
PART TWO: Experience Questions (from the perspective of "the	e person" experiencing the threat)
Questions (pick two)	
"The Event" - How will your person first hear about or experience the threat? What events or actions led up to it?	
What is different and/or the same as previous events or instantiations of the threat?	
When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)	

What will the person have to do to access people, services, technology and information they need?	
What are the broader implications of a threat like this? What might a ripple effect look like?	
Question One	How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)
	Delivery is the same because of the peaceful nature of the transition
Question Two	What is different and/or the same as previous events or instantiations of the threat?
	Dissolution of the Soviet Union
PART THREE: Enabling Questions - Adversary or Threat Actor (fr	om the perspective of "the party" bringing about the threat)
Questions (nick two)	
Questions (pick two)	
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	
Business Models: What new business models and practices	
will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
Question One	Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?
	An appeal to the allegiance of the military. The federal military allegiance does not allow for fracturing.
Question Two	Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?
	The state governments must engage in collective action to resist federal coercion not to sucede.
PART FOUR- Backcasting - The Defenders (from the perspective	
Examine the combination of both the Experience Questions as w	-
Explore what needs to happen to disrupt, mitigate and recover	from the threat in the future.
Gates:	
What are the Gates?	
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.	
1	
2	
3	
4	
5	
Flags:	

What are the Flags?	
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.	
:	
:	2
:	3
4	1
<u>.</u>	5
Milestones:	
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
	2
	3
4	1
	5
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
	2
:	3
4	1
	5

Team Members:	Black Pawn
Experience Title:	The New Lost Generation: Bracing for an Infinate Gap Year
Estimated Date:	2029
Data Points NOTE: Roll the Dice to pick a data point from each of	
the research areas in the Research Synthesis Workbook	
(the rollup for each Slot)	
Speaker 1	Children that grow up watching their parents spreading weaponized memes will think there's nothing wrong with having political leaders who behave that way and in fact may prefer it
	wong wurnaving political leaders who behave that way and in fact may prefer it
	things are subtle:memes, not quoting sources, complexity of language, signals&signaling, rhyming as
Speaker 2	away of signaling meme, playground bullying with machine learning, signals get the confirmation bias going
Speaker 3	Faux insiders
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible.	
The power is in the details. Scribes please write as	
though you are writing for someone who is not in the	
room.	
	Penelope is a teenage girl is finishing high school who is coming of age in a time when there
	are no certainties of "truth," and there's no "off." She's been swayed her whole life by
	narratives that are informed by half or false narratives. She's never really developed her own
Who is your person and what is their broader	point of view, spending more time reacting to input rather than shaping it herself with
community?	original thought. She's looking at what's next for her path once she's completed high school.
Where do they live?	San Francisco
	Her sense of truth has no boundaries, no guidance, no foundation. She has lived most of her
	life responding to memes, stories, narratives that were fed to her, without guidance and
	practice on how to analyze, interpret, and internalize what it means to her. Most of her
	education has been through user-generated, online, real time content. Throughout her life, she's experienced the continued development of deep fakes influencing major societal
What is the threat?	outcomes. Facts blend with fiction, and she can't tell the difference.
Briefly describe how your person experiences the threat (1	The Event) and possible 2nd/3rd order effects.
	Given that Penny has had so little practice developing her own voice and argument, she
	suffers from depression and massive self esteem issues. She's lacked role models who
	demonstrate a measured and thoughtful approach to engaging wtih the world. As she prepares for adulthood - for launching from her family's care - she's rutterless. In
	desparation, she "forces" causes on herself for direction, but snaps back into depression
	when she can't find authentic connection. She's disconnected. She's lonely. She needs a hug.
	specifically does the Adversary or Threat Actor want to achieve? What is the Adversary or
Threat Actor hoping for? What is the Adversary or Threat A	
	She's watched her parents - particularly her mother - get distracted and dismayed by
	technology and the state of civil discourse in our country. After the 2020 election, her
	technology and the state of civil discource in our country. After the 2020 election, her mother became preoccupied by the conspiracy theories and media bijacking by anger and
	technology and the state of civil discource in our country. After the 2020 election, her mother became preoccupied by the conspiracy theories and media hijacking by anger and tribalism. Throughour her childhood, she didn't have present parents to guide her and help
	mother became preoccupied by the conspiracy theories and media hijacking by anger and
What vulnerabilities does this expose?	mother became preoccupied by the conspiracy theories and media hijacking by anger and tribalism. Throughour her childhood, she didn't have present parents to guide her and help
What vulnerabilities does this expose?	mother became preoccupied by the conspiracy theories and media hijacking by anger and tribalism. Throughour her childhood, she didn't have present parents to guide her and help her understand the context of her world, and her role in shaping it. Manipulation is age and demongraphic agnostic. Isolation can occur even in well intended
What vulnerabilities does this expose?	mother became preoccupied by the conspiracy theories and media hijacking by anger and tribalism. Throughour her childhood, she didn't have present parents to guide her and help her understand the context of her world, and her role in shaping it. Manipulation is age and demongraphic agnostic. Isolation can occur even in well intended families and that social media forces - particularly backed by negative intent are very
What vulnerabilities does this expose?	mother became preoccupied by the conspiracy theories and media hijacking by anger and tribalism. Throughour her childhood, she didn't have present parents to guide her and help her understand the context of her world, and her role in shaping it. Manipulation is age and demongraphic agnostic. Isolation can occur even in well intended families and that social media forces - particularly backed by negative intent are very powerful isolating forces that can lead to a feeling of helplessness and lack of place in the
What vulnerabilities does this expose?	mother became preoccupied by the conspiracy theories and media hijacking by anger and tribalism. Throughour her childhood, she didn't have present parents to guide her and help her understand the context of her world, and her role in shaping it. Manipulation is age and demongraphic agnostic. Isolation can occur even in well intended families and that social media forces - particularly backed by negative intent are very

PART TWO: Experience Questions (from the perspective of	"the nerson" experiencing the threat)
TART TWO. Experience Questions (from the perspective of	
Questions (pick two)	
"The Event" - How will your person first hear about or experience the threat? What events or actions led up to it?	
What is different and/or the same as previous events or instantiations of the threat?	
When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)	
What will the person have to do to access people, services, technology and information they need?	
What are the broader implications of a threat like this? What might a ripple effect look like?	
Question One	PASTE HERE
	What is different and/or the same as previous events or instantiations of the threat? It's amplified, it's omnipresent in every facet of her life, it's inescapable. This is the new "normal." At every table in every restaurant, they are tapping on to their neural network chip that takes them to alternative realities, fueled by bots and memes. The early trends of isolation and depression have gotten to an extreme. No one knows how to have a real conversation - face to face - anymore.
Question Two	PASTE HERE
-	What are the broader implications of a threat like this? What might a ripple effect look like?
	This isn't just Penelope. There are millions of Penelope's out there. What are they passionate about? Where are they going to work? What is going to motivate them? How might their social development get stunted? What are the implications for the next generation?
PART THREE: Enabling Questions - Adversary or Threat Actor	or (from the perspective of "the party" bringing about the threat)
Questions (pick two)	
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or	
Threat Actor enlist the help of the broader community?	
Business Models: What new business models and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
	Business Models: What new business models and practices will be in place to enable the
Question One	threat? How is it funded?
	Silicon Valley extreme, now fueled by even more types of funding mechanisms - instantaneous crypto- currencies in exchange for time spent online or in the cloud.
Question Two	New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?
	The tech companies are already doing this - they are creating addition devices, fueled by addictive "drug- like" experiences. This is very little regulation or self-policing of the development of these potentionaly destructive devices. The government is woefully behind in understanding the true nature of this emerging threat, and in many ways, complicit in furthering the threat. Scientific studies take too long to come back with conclusive guidance and evidence on the impact of this relentless input on the developing brain.

PART FOUR- Backcasting - The Defenders (from the perspe	ective of the defenders)
Examine the combination of both the Experience Question	s as well as the Enabling Questions.
Explore what needs to happen to disrupt, mitigate and reco	over from the threat in the future.
Gates:	
What are the Gates?	
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.	
1	Parents and families (informed and engaged)
2	School systems
3	Peer groups, community engagement/organization/spiritual engagement
4	Government - standards
5	Industry find a conscience (self policing)
Flags:	
What are the Flags?	
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.	
1	Accessibility of devices and ubiliquity of (false) information
2	Opaque algorthims that drive continuous feed of information
3	Alarm mental health behaviors - rise in obesity, markers of poor self care
4	Lack of matriculation to college/ College drop outs - the "infinite gap year"
5	
Milestones:	
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
	More awareness of negative impacts of social media and weaponized narratives to teens -
	"This is your brain on social media"
	More proactive self-regulation by companies, inspired by their new chief "ethical" officer
	School mandates more person-person engagement (the new "PE")
	Curriculum developed to support self-discovery and personal values, and individual agency
5	
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
1	Adopt google's 20% time allocated to no-tech
2	Government shuts down networks one night/week to mandate quality time
2	Rewards/stipends for joining commuity organizations
3	newards/stipends for joining community organizations
	Campaign finance reform - public funding for elections. Period.

Team Members:	White Pawn
Experience Title:	winte Fawn
Estimated Date:	2029
Estimated Date.	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of	
the research areas in the Research Synthesis Workbook	
(the rollup for each Slot)	
Speaker 1	Very committed to causes, more serious, understand hard work
Speaker 2	off shoring of critical infrastructuretechnology talent
Speaker 3	meme is something that spreads like a disease vector; what's new is memes that cause action in the real world.
PART ONE: Who is your Person?	
NOTE: Remember to give as much datail as possible	
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as	
though you are writing for someone who is not in the	
room.	
Who is your person and what is their broader	
community?	Xi Jinping
W/Frank da the sulfure 2	China -
Where do they live?	China
What is the threat?	The Authenticity Revolution against the ancient regime that seemed so triumpholist in 2010
what is the threat?	The Authenticity Revolution against the ancient regime that seemed so triumphalist in 2019.
Briefly describe how your person experiences the threat (T	he Event) and possible 2nd/3rd order effects
bieny describe now your person experiences the threat (in	Every TTP that they've developed to maintain power is collapsing around them. Colonial backlash
	in Africa and maybe Southeast Asia. Rich and young are leaving. Al's are going all wrong because
	the data it was learning from was all based on human behavior that turned out to be all wrong.
	Backlash against workism, complete with 12 step programs. The demographic catastrophe of
	being the first country to become old before it became rich. Very few Generation Z'ers. The intent,
	coordination, and influence of chinese citizens to covertly signal counter narratives dramatically
	outpaces the top down cencorship of the regime. A black market emerges in manufacturing hubs to rapidly produce countersurveillance products. Trojan horses are planted by their adversaries to use
	their own tactics against them. The Uyghur population is prevailing against the odds because
	they are authentic.
What is it? Who else in the person's life is involved? What s	pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or Threat
Actor hoping for? What is the Adversary or Threat Actor fri	ghtened of?
	The Authenticity Revolution. "Never trust a reality you can't touch." "Never trust a 'reality' that is
	multiplatform and multimedia." "I don't want to live in these fake cities." "Fake food." It's the
	calling bullshit revolution. A return to spirituality. (Confucianism nostalgia?) Status symbol: Shinola watches.
What vulnerabilities does this expose?	Shinou wetches.
what vulnerabilities does this expose:	Demographics. Erosion of "the veil" of social control. Social credit system how many sheets of
	toilet paper are you using.
PART TWO: Experience Questions (from the perspective of	"the person" experiencing the threat)
Questions (pick two)	
"The Event" - How will your person first hear about or	Vi Mingra (simplified Chingge) 可明况: traditional Chingge, 可明定, single, V/ Mingra, fat at a 20 hor of the
experience the threat? What events or actions led up to	Xi Mingze (simplified Chinese: 习明泽; traditional Chinese: 習明澤; pinyin: Xi Mingzé; [aǐ mīŋ.tsʏ]; born 25 June 1992), nicknamed Xiao Muzi (小木子, lit. 'Little Wood'),[1] is the only child of Chinese paramount leader (CPC
it?	General Secretary) Xi Jinping[2] and folk singer Peng Liyuan.[3]
What is different and/or the same as previous events or instantiations of the threat?	

When the person first encounters the threat, what will	
they see? What will the scene feel like? What will they not see or understand until later?	
How will information be delivered to the person? Where	
and how will the person connect and communicate with	
others? (family, aid agencies, federal, state and local authorities, professional network)	
What will the person have to do to access people,	
services, technology and information they need?	
What are the broader implications of a threat like this? What might a ripple effect look like?	
Question One	PASTE HERE
	"The Event" - How will your person first hear about or experience the threat? What events or actions led up to it?
	Xi Mingze – Xi Xinping's daughter, Handmade in China, Artisanal movement in China, Fake
	news/cities/jobs/communism/lives, "I'm taking the stairs" as an act of resistance, propaganda that you can believe in
Question Two	PASTE HERE
	What are the broader implications of a threat like this? What might a ripple effect look like?
PART THREE: Enabling Questions - Adversary or Threat Actor	or (from the perspective of "the party" bringing about the threat)
Questions (pick two)	
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that	
need to be overcome to bring about the threat? How do	
these barriers and roadblocks differ geographically?	
New Practices: What new approaches will be used to	
bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	
Business Models: What new business models and practices will be in place to enable the threat? How is it	
funded?	
Research Pipeline: What technology is available today that can be used to develop the threat? What future	
technology will be developed?	
Ecosystem Support: What support is needed? What industry/government/military/criminal elements must	
the Adversary or Threat Actor team up with?	
Question One	PASTE HERE
	Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?
Question Two	PASTE HERE
	Research Pipeline: What technology is available today that can be used to develop the threat? What future
	technology will be developed?
PART FOUR- Backcasting - The Defenders (from the perspe	ctive of the defenders)
Examine the combination of both the Experience Question	
Explore what needs to happen to disrupt, mitigate and reco	over from the threat in the future.
Gates:	
What are the Gates?	
List out what the Defenders (government, law	
enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are	
things that will occur along the path from today to 2029.	
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Flags:	
What are the Flags?	
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.	
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Milestones:	
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
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What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
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Team	Blue Pawn	
		https://ssi.
		armywarcollege
		edu/pubs/param eters/articles/20
Experience Title:		10winter/Dunlap _Jr.pdf
Estimated Date:	2029	_01.put
Data Points		
NOTE: Roll the Dice to pick a data point from each of		
the research areas in the Research Synthesis Workbook		
(the rollup for each Slot)		Faka Deatar
		Fake Doctor Farm
Speaker 1	Children born after mid-90s are most diverse in terms of friend circles and preferences. Both societal values and because of the digital tools available	
Speaker 2	off shoring of critical infrastructuretechnology talent	
Speaker 3	Funded Coopted Media	
PART ONE: Who is your Person?		
NOTE: Remember to give as much detail as possible.		
The power is in the details. Scribes please write as		
though you are writing for someone who is not in the		
room.		
	Age 29, Female, CDC communications	
Who is your person and what is their broader		
community?		
Where do they live?	Digital World	
What is the threat?	Erosion of narrative of western liberal democracy, regulatory failure, industries based on	
what is the threat?	trust fail (example - medical) predicated by weaponization of narratives, weaken society, make less resilient> Shock pandemic> nation states fail	
Briefly describe how your person experiences the threat (Th	e Event) and possible 2nd/3rd order effects.	
	The Event: A catastrophic global pandemic is experienced worldwide placing a severe need on medical	
	workers. Ten years of narrative campaigns has deteriorated trust in the health care system leads to ineffective treatment of the disease.	
What is it? Who else in the person's life is involved? What s	pecifically does the Adversary or Threat Actor want to achieve? What is the Adversary or	
Threat Actor hoping for? What is the Adversary or Threat A	ctor frightened of?	
What vulnerabilities does this expose?		
	lack of trust rust in government for Ebola crisis, lack of trust of health care companies & phrameceutical companies	
	pinameteutitai tumpames	
PART TWO: Experience Questions (from the perspective of	"the person" experiencing the threat)	
Questions (pick two)		
"The Event" - How will your person first hear about or		
experience the threat? What events or actions led up to it?		
What is different and/or the same as previous events or		
instantiations of the threat?		
When the person first encounters the threat, what will		
they see? What will the scene feel like? What will they		
not see or understand until later?		
How will information be delivered to the person? Where and how will the person connect and communicate with		
others? (family, aid agencies, federal, state and local		
authorities, professional network)		

What will the person have to do to access people,				
services, technology and information they need?				
What are the broader implications of a threat like this?				
What might a ripple effect look like?				
Question One	PASTE HERE			
	The Event: A catastrophic global pandemic is experienced worldwide placing a severe need			
	on medical workers.			
Question Two	PASTE HERE			
DART THREE: Enabling Questions Advergancer Threat Acts	r (from the perspective of "the party" bringing about the threat)			
PART THREE. Enabling Questions - Adversary of Threat Acto	or (from the perspective of "the party" bringing about the threat)			
Questions (pick two)				
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that				
need to be overcome to bring about the threat? How do				
these barriers and roadblocks differ geographically?				
New Practices: What new approaches will be used to				
bring about your threat and how will the Adversary or				
Threat Actor enlist the help of the broader community?				
Business Models: What new business models and				
practices will be in place to enable the threat? How is it funded?				
Research Pipeline: What technology is available today that can be used to develop the threat? What future				
technology will be developed?				
Ecosystem Support: What support is needed? What				
industry/government/military/criminal elements must				
the Adversary or Threat Actor team up with?				
Question One	PASTE HERE			
Question Two	PASTE HERE			
PART FOUR- Backcasting - The Defenders (from the perspective	ctive of the defenders)			
Examine the combination of both the Experience Questions	as well as the Enabling Questions.			
Explore what needs to happen to disrupt, mitigate and reco	over from the threat in the future.			
Gates:				
What are the Gates?				
List out what the Defenders (government, law				
enforcement, industry, etc) have control over to use to				
disrupt, mitigate and recover from the threat. These are				
things that will occur along the path from today to 2029.				
1				
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Flags:				
What are the Flags?				
List out what the Defenders don't have control over to				
disrupt, mitigate and recover from the threat. These				
disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you				
disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching				
disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you				

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Milestones:	
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the chreat in your future? What are our actionable objectives?	
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What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the chreat in your future? What are our actionable objectives?	
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	Red Pawn
Experience Title:	US Education: Made in China
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Slot)	
Speaker 1	Participatory parenting
Speaker 2	Attention Economy
Speaker 3	"Weaponized paranoia" is a real threat
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as though you are writing for someone who is not in the room.	
Who is your person and what is their broader community?	Eighteen year old US citizen about to vote for the first time
Where do they live?	US
What is the threat?	There is a financial crisis in the 2020's /recession. China comes in and buys many US businesses. Government's cut funding for education and move to more online education models to save money. China has aquired texbook manufactures and online education platforms and is using them to deliver customized education experiences that have subtle AI-enabled, personalized, information manipulation tools that promote pro Chinese positions and anti-USG positions. These are all subtly different from student to student, so it is very hard to put together the full picture of the manipulation
Briefly describe how your person experiences the threat (The Even	t) and possible 2nd/3rd order effects.
	They have been in the curriculum for the last 10 years and are now anti-USG and very pro China
What is it? Who else in the person's life is involved? What specifica Actor hoping for? What is the Adversary or Threat Actor frightened	lly does the Adversary or Threat Actor want to achieve? What is the Adversary or Threat l of?
	Their peers, family, community and country are involved. China wants a generation to have pro-China views and anti-USG views so they can take coercive military and economic action in E Asia and Africa. China wants Generation Z to think its not essential to live in a democracy; that the Chinese model is superior China is afraid of a unified US challenging their hegemony. China is afraid of US keeping them out of their education market. China is afraid of being exposed as manipulating the public. China wants their international image to be positive; is afraid of being seen as manipulative/evil They want the US divided and focused on internal sqabbles; they want democracies divided
What vulnerabilities does this expose?	
· · · · ·	Theyve been brainwashed; hard to change their mind
PART TWO: Experience Questions (from the perspective of "the pe	rson" experiencing the threat)
Questions (pick two)	
"The Event" - How will your person first hear about or	
experience the threat? What events or actions led up to it? What is different and/or the same as previous events or	
instantiations of the threat?	

When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)	
What will the person have to do to access people, services, technology and information they need?	
What are the broader implications of a threat like this? What might a ripple effect look like?	
	"The Event" - How will your person first hear about or experience the threat? What events
Question One	or actions led up to it?
	China takes military action in E Asia. Josie is voting in an election where one candidate is
Question Two	What are the broader implications of a threat like this? What might a ripple effect look like?
	Ripple effect is that its almost impossible to get Generation Z to change their belief. No longer support for promoting democratic values worldwide. Tolerance of authoritarianism.
PART THREE: Enabling Questions - Adversary or Threat Actor (from	the perspective of "the party" bringing about the threat)
Quantiana (niak tuun)	
Questions (pick two) Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	
Business Models: What new business models and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
Question One	Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?
	Buy texbook companies and online education companies. Fight off laws or regulations against these kinds of acquisitions "free market", "no government regulations". Need psychometric profiling data on the students (easy with htird party transfers of data); need market share - reasonably effective product; state subsidies to undermine competitors
Question Two	New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?
	Advances in customized online education; Al tools focused on education, manipulation and persuasion; data hacks
PART FOUR– Backcasting - The Defenders (from the perspective of	the defenders)
Examine the combination of both the Experience Questions as well	
Explore what needs to happen to disrupt, mitigate and recover from	-
Gates: What are the Gates?	

List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.

	ernment could limit the t on states	types of businesses/industries allow
	Al auditing system that m	onitors for systemic manipulation a
	cation courses about the cal thinking, online mani	information environment, scientific pulation
	onalize the education sy	stem. Go back to centralized, appro
	onal service programs to	build national unity and unified narr
Flags:		
What are the Flags?		
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		
	ous economic crisis that	leaves the US vulnerable
	ificant advances in AI ma	nipulation technologies
	ential Chinese dominatio	n of the technology ecosystem and
Milestones:		
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		
	date programs/tools for	identifying coordinated manipulativ

	Mandate programs/tools for identifying coordinated manipulat 1 platforms
	2 Implement critical thinking educational program
	Have broader government review of foreign purchases of US co 3 company access to US citizen data
	Congrssional commission on data privacy, information security, generate recommendations
	5 Parents must actively participate in curriculums to monitor for
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?	
	1 Pass legislation?
	Implement a national civics course to all students that is develo

2 multistakeholder group

## FUTURES WORKBOOK DAY TWO

Team Members:	Black Chip
Experience Title:	
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to	
pick a data point from	
each of the research	
areas in the Research	
Synthesis Workbook	
(the rollup for each	
Slot)	
Speaker 1	Marketing and product-oriented organizations control the technology Limiting or controlling the tech is not viable; too many interests; dual-use with positive/negative uses; whole of society contexts make it useful for any organizations.
Speaker 1	useful for many different domains
	Who is the arbiter of veracity? Democratic action requires an informed citizenry, so accurate information is a public good, but at the same time free speech is a cherished, national-identity-forming value, which
	puts into tension establishing an entity for vetting information accuracy vs. stifling free speech; "Provide
	some easily digestible information provenance to help people verify information. People have to care
	that they are being gamed, before they can begin to fight the problem. Some people are blissfully ignorant; some people have bigger problems than to care about the existential threat of misinformation.
	People think ""the media"" are at fault. Truth is socially constructed, so it is not unconditional. Where is
Speaker 2	the common value?"
Speaker 3	Funded, coopted media; Funded, coopted medianarratives reinforced / transferred into the mainstream / enhanced credibility
•	·
PART ONE: Who is your	Person?
•	
NOTE: Remember to	
give as much detail as	
possible. The power is	
in the details. Scribes	
please write as	
though you are	
writing for someone	
who is not in the	
room.	
	Pete is a retired military officer, who spent six years on different deployments overseas. This work tempo left him divorced and his 2 adult kids are somewhat strangers. Pete
Who is your parson	retired in 2028 and quickly went to work for Wikipedia, 6 months before Wikipedia went
Who is your person	bankrupt, so he began teaching at a public high school. Then the public education system
and what is their	was defunded because of lack of interest. Pete is now out of a job and finds himself
broader community?	unemployable.
Whore do they live?	Dhooniy
Where do they live?	Phoenix

	Not only can Pete not get a job, he is ostracized by his family and some of his former friends because he refuses to be part of a specific tribe.	
Question One	What are the broader implications of a threat like this? What might a ripple effect look like?	
What are the broader in	nplications of a threat like this? What might a ripple effect look like?	
What will the person ha	ve to do to access people, services, technology and information they need?	
feel like? What will they not see or understand until ater? How will information be delivered to the berson? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)		
What is different and/or When the person first encounters the threat, what will they see? What will the scene	r the same as previous events or instantiations of the threat?	
<b>Questions (pick two)</b> "The Event" - How will y	our person first hear about or experience the threat? What events or actions led up to it?	
	Questions (from the perspective of "the person" experiencing the threat)	
	Identity is no longer spontaneous but is defined by tribe as a defense mechanism against the "other." Real-world actions are highly influenced by online identity.	
What vulnerabilities doe	the goal of shaping children's identities.	
	The "adversary" is the constant pressure from other tribes who are trying to "capture" the identities of impressionable children from other tribes. Constant war of all-against-all with	
	parent, peers, etc). Pete is again out of work. the person's life is involved? What specifically does the Adversary or Threat Actor want to versary or Threat Actor hoping for? What is the Adversary or Threat Actor frightened of?	
	Intelligent tutoring systems are sophisticated enough to provide students a individualized curriculum that feeds and supports whatever tribal narrative is desired (by the student, the	
Briefly describe how you	r person experiences the threat (The Event) and possible 2nd/3rd order effects.	
What is the threat?	identities to fit a particular tribal norm, world view, or pathway to success. Some of these Al tutoring systems have been co-opted by the "wings" of politics (alt-right, alt-left, theological, etc) and are creating very distinct tribes who will not see eye to eye. Truth becomes only as wide as the tribe and the constructed identity allows. Pete becomes unemployable because he has an obsolete vision of what education is and his online identity (which is the only one that now matters) does not have the "credentials" to belong to a tribe. He is the "universal other".	

Question Two	When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	
	Pete begins to hear about proposals to defund public education through news media, but when the decision to actually cut funds occurs, he is at work teaching a significantly reduced classroom size, and the principal comes in and says, "go home, your job is no longer available. The school is shutting down effective tomorrow."	
PART THREE: Enabling (	Questions - Adversary or Threat Actor (from the perspective of "the party" bringing about	
the threat)		
Questions (pick two)		
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?		
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?		
Business Models: What	new business models and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: Wha	t technology is available today that can be used to develop the threat? What future technology w	ill be develop
Ecosystem Support: Wh	at support is needed? What industry/government/military/criminal elements must the Adversary	or Threat Act
Question One	New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	
	Development and widespread use of individualized AI tutoring systems. The more popular ones (i.e. "cheaper" and more accessible) are available because of funding from alt-wing groups who insist on their version of truth being the training models for that version of AI. "Tribal" groups are funding their own curricula that is tailored to a singular point of view and is as appealing as possible. Behavioral economics, neuroscience, personal psychology, and marketing principles are strongly emphasized in order to spread particular product lines.	
0	Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor	
Question Two	team up with? Laws, cultural norms, and employment are changed to enable tribal based education/indoctrination.	
	There is a culmination of years-long attack on the concept of public education.	
PART FOUR- Backcastir		
	There is a culmination of years-long attack on the concept of public education.	
Examine the combination	There is a culmination of years-long attack on the concept of public education. g - The Defenders (from the perspective of the defenders)	
Examine the combination	There is a culmination of years-long attack on the concept of public education. ag - The Defenders (from the perspective of the defenders) on of both the Experience Questions as well as the Enabling Questions.	

List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.	Military, intelligence, security organizations; maybe corporations	WHO?
	Safe AI development principles (transparency, bias, privacy by design, etc)	
2	Trying to protect education as a public good with society wide standards - the right to fight is important here, not the curricula or outcomes	
3	Appointees to Supreme Court that act against polarizing tribal influencers	
4		
5		
Flags:		
What are the Flags?		
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		WHO?
1	Public perception of the federal government.	
2	Definitions of "truth" are no longer in the wheelhouse of science. Trust in traditional knowledge development organizations fails.	
3	Failure of Wikipedia	
4	"Chip in the brain" tech allows instant flow of video/media/emotive content, but heavy content filters are required so people don't go insane; these filters are designed by one's Al tutor	
5	Public education as a private good at a much larger scale than in 2019	
Milestones:		
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?

1	Rise of at least two additional strong political parties	
2	Strong adoption of safe AI principles by industry leaders; maybe by government	
3	Discussions of AI conversations on effects of education	
4	Mandatory military draft provides requirement for people to come together for a unifying purpose	
5		
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	Viable third party strong presence within government	
2	Discourse of disagreement is acceptable again	
3	Financial safety net for public school funding	
4	Part of Pete's military transition is prepping him for tribal membership	
5		

Team Members:	Crean Davin
Experience Title:	Green Pawn Seeds of Doubt
Estimated Date:	2029
Estimated Bate.	
Data Points	
NOTE: Roll the Dice to pick a	
data point from each of the	
research areas in the Research Synthesis Workbook (the rollup	
for each Slot)	
Speaker 1	??????
Speaker 2	זיזיזיזיזיזיז
•	
Speaker 3	
PART ONE: Who is your Person?	
NOTE: Remember to give as	
much detail as possible. The power is in the details. Scribes	
please write as though you are	
writing for someone who is not	
in the room.	
	Lily Smythe, farmer and single mother, (eventually) local and internet celebrity. Secondary:
Who is your person and what is their broader community?	Thomas, the 13-year-old, extremely tech savvy child who helps run her social media presence.
their broader community:	presence.
Where do they live?	Small town lowa where local industry is primarily soy farming.
	Lily's status in the community makes her a high-value target for multiple entities. Local energy and water firms are trying to buy her and George's farm for the land, as is
	multinational lobby SoyCo - which already has interest in most of the farms in the area, and
	whom Lily has spoken out against in the past. A corrupt group within an existing political
	party wants to gain voters, and has identified the mother, Lily, as a possible 'swing person', where if she were to openly and expressly support their presidential primary candidate
What is the threat?	they would win the seat.
Briefly describe how your person	experiences the threat (The Event) and possible 2nd/3rd order effects.
	1st: George seemingly abruptly leaves Lily for Carol, a younger community member who is also the daughter of SoyCo's U.S. representative. 2nd: Lily's farm, Smythe Soy, loses some
	(but not all) intellectual property via George abdicating with it and giving it to Carol, who, it
	becomes apparent to Lily, is an agent of SoyCo/PRC. 3rd: Tom (Lily & George's 13 year old
	son), is the subject of vicious cyber attacks, troll farming directed at 'befriending' Tom and directing him toward certain coping mechagnisms (as he is desperate for positive
	reinforcement amongst his peers), which has cultivated addiction through augmented
	reality to first online gaming and later porn. He is ostracized from his friends group at
	school and falls into a deep depression. Meanwhile, Lily is subjected to unbenownst to her, a personalized social engineering-based propoganda campaign pushing her to endorce the
	Soy Lobby's Presidential Primary Candidate.
	n's life is involved? What specifically does the Adversary or Threat Actor want to achieve?
What is the Adversary or Threat A	Actor hoping for? What is the Adversary or Threat Actor frightened of?
	Multiple adversaries from all sides - Pickens Holding (wants the land), SoyCo (wants the land and to kill the Intellectual Property, and to silence Lily's advocating against them), PRC
	(major funder of SoyCo, wants to obtain the I.P. for use on a global scale, dominate U.S. Soy
	Industry), Soy Lobby & Presidential Candidate (want to obtain Lily's vote and endorsement
What will parabilities does this and	in order to swing lowa.
What vulnerabilities does this exp	Jose ? Lack of physical and digital security on behalf of Smythe Soy, lack of operational awareness
	on behalf of George (getting honey potted), Lily (whose reputation is destoryed), and Tom
	(whose mental health declines as a result of targeted attacks and subsequent addictive
	behaviors / maladaptive coping mechanisms).
PART TWO: Experience Questions	s (from the perspective of "the person" experiencing the threat)

Questions (pick two)		
	n first hear about or experience the threat? What events or actions led up to it?	
	as previous events or instantiations of the threat?	
When the person first	as previous events of instantiations of the timeat:	
encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?		
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)		
	o access people, services, technology and information they need?	
what are the broader implication	s of a threat like this? What might a ripple effect look like?	
Question One	PASTE HERE	
	When the person first encounters the threat, what will they see? What will the scene feel	
	like? What will they not see or understand until later?	
	Ist: Lily sees her husband's infidelity and abandomment of their child as a betrayal, and does not initially connect the dots to the larger economic scenario playing out. Tom feels victimized and attacked, and sees no outlet except the maladaptive behaviors (porn) he adopts. Neither initially see the bigger picture, that all of this has been orchestrated by SoyCo via PRC to obtain intellectual property, discredit Lily, and - when she is on the upswing of recovery from the attack - use her newfound celebrity status to garner votes for the Soy Lobby (also funded by SoyCo's) chosen presidential primary candidate. Neither will pick up on the social engineering aspect of the campaign until later, when Tom and his tech savvy friends discover that his addictions and Lily's discrediting are the result of personally targeted initiatives derived from pattern of life analysis of the two and unwitting input from George to Carol.	
Question Two	PASTE HERE	
	What are the broader implications of a threat like this? What might a ripple effect look like?	
	Social engineering and personalized propoganda campaigns will be much easier and cheaper to accomplish, and will likely happen on a much larger scale in the next ten years. They will have the opportunity, as well, to bleed into the real world through the internet of the things (will you like a political candidate more, if you listen to an advertisement for them while driving to work on a day where you hit no red lights?).	
PART THREE: Enabling Questions -	Adversary or Threat Actor (from the perspective of "the party" bringing about the threat)	
Questions (pick two)		
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?		
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?		
Business Models: What new busir	ess models and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technolo	gy is available today that can be used to develop the threat? What future technology will be dev	veloped?
Ecosystem Support: What support	t is needed? What industry/government/military/criminal elements must the Adversary or Three	at Actor team up with?
Question One	PASTE HERE	
	New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	
	Social Engineering, Augmented Reality, Disinformation Campaigns, Adversaries will be able to easily take advantage of a person's interconnectedness to their online presence, career, business, and personal life, to systematically destroy/disrupt/interrupt access to all of it through targeted attacks at another vector (attacks on personal life can more directly effect career, etc.)	
Question Two	PASTE HERE	

Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?

Social media presence tied into everything, augmented reality/videogames and at home entertainment systems, "hyper-responsive machine learning-aided seduction" techniques (C66), internet of things; OSINT collection tools used by counter-misinformation "millitas", social media bots; increasingly connected and automated agricultural techniques and technologies (automated combines, etc)

Carol able to create cognitive composite from George's psychological tendencies gained from Church's database, bought from black market, programs AI with goal of helping her seduce George (both in-person and distance attacks) prompts her conversation points, introduces newsletter/magazine choices - ubiquitous allplatforms influence operations

PART FOUR- Backcasting - The De	efenders (from the perspective of the defenders)	
Examine the combination of both	the Experience Questions as well as the Enabling Questions.	
Explore what needs to happen to	disrupt, mitigate and recover from the threat in the future.	
Gates:		
What are the Gates?		
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and		WHO?
recover from the threat. These are things that will occur along the path from today to 2029.		
. ,	Observation of online troll farms, AIs, and other elements typically responsible for	
1	disinformation and propoganda campaigns.	Watchdog groups
2	Laws and regulations concerning campaign tactics.	U.S. Government
3	Privacy laws - creates loopholes and pushes corps to extremes to avoid violative activity	U.S. Government, Corporations
4	Intellectual property and patent laws, protections, and enforcement / system for punishing violation.	U.S. Government, local law enforcement.
5	Nurtured distinction between a person's 'real' self and online persona, particularly when it comes to person	Community members, friends, family.
Flags:		
What are the Flags?		
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		WHO?
	'Omnipresent' advertising / life experiences (if it feels directly targeted to you, it probably	
1	is)	Cambridge Analytica style advertizing firms
2	Self-directing AI/bots	Large corps, states
3	Ubiquity of AR systems and evidence of addiction	individuals
4	Foreign governments purchasing American farmland	States, corps
5	Tangible and data selves, businesses no longer separated - IoT	individuals
6	long-distance commercial drones	corps
7	production of synthetic, biodesigned pathogen capable of targeting individual crops/species	corps, individuals
8	increased vulnerability of important American industries (importance of novel production techniques will increase as population expands) and infrastructure to intellectual property theft	corps, small businesses, small business owners.
Milestones:		
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	Pass a nationwide, federally enforcable ban on subliminal and covert social engineering campaign tactics.	U.S. Government
2	Creation, enforcement of anti-interference/anti-intevention/anti-corruption acts to protect American citizens from, specifically, social media and reputational attacks with malign intent	U.S. Government/European Union
3	Actionable ban on the targeting / online manipulation of underage persons. Treaty?	Regulatory agencies, NGOs, governments.
4		
5		

What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	Increased societal awareness of the threats technology may pose to one's psychology, etc., awareness campaigns or 'common knowledge' adopted to combat malicious online reputation attacks.	End users / citizens
	Increased interest in, understanding of, and use of internet security programs and tactics.	End users / citizens
	Increased attention to the affects, abilities, users of augmented reality systems	End users / citizens / governments
	Awareness of intentions of foreign government-owned corporations - goals/plots to purchase American companies to affect value of exports to fulfill both foreign policy and corporate goals	Individuals / citizens
5	Global buy-in from individuals operating in the globalized field - people need to learn to care, on a regular, natural basis, about more than their small local communities - as interconnected actions gain broader overall effect	Individuals / citizens
Overnight Thoughts:	Though there will be more technological opportunities for threat actors in 2029, there will also be more opportunities for would-be victims to defend themselves and take action. Once Lily discovers that the attack against her personhood was a malicious act of economic espionage designed to destroy her life. Technology enables people to 'punch above their weight', which will likely grow in the next ten years. In 2029, it may literally be something as small as the town's local 4H club seeing the attack as more than just infidelity, reaching out to her, and initiating a counter-disinformation campaign against the corporation's (on behalf of a foreign state's) actions to slander and discredit Lily.	

Team Members:	White Chip
Experience Title:	
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Slot)	
Speaker 1	Enjoy reflections by friends on things they already like and using tailored tools: not on same tools as the other generations. Utube Channels and peers networks
Speaker 2	privacy is changing: used to be that there was a specific difference between private informatioin and public information; public spaces and private spaces; separation between public/work, public and social, private and social, private/family, etc;now those borders have eroded both by virtue of the intrusion of media/social media, and by reconceptualizations (and exploitations) of what is personal/private/public
Speaker 3	Rise of deep fakes
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as though you are writing for someone who is not in the room.	
Who is your person and what is their broader community?	Bubba, the CEO of a AI and Quantum Computing Company, on the brink of a breakthrough in quantum computing.
Where do they live?	Bubba lives in high tech center of the United States, North Dakota. His conservative stance and leadership at his company have positioned it at the forefront of the industry, and is seen as a visionary leader that can see opportunitys that others miss.
What is the threat?	While negoting with a tech company in Paris to leverage their collective S&T investment, a Deep Fake (real time teleconference manipulation) is empoyed by Finland to order a shift in partnership to move all the quantaum communication intellectual poperty a competitor in Finland.
	the threat (The Event) and possible 2nd/3rd order effects. Bubba has seen within his social networks and peer networks that there are several companies on the brink of matching their tech and IP in secure quantum communications. Pressure from investers to make a deal exploit their technological advancement before being overtaken. A problem is that they really is not competitor. A team in Finland ( an EU but non NATO nation) has inflitrated his peer trusted network and their misinfirmation campaign has convinced both his company and investors that several world wide competitors will beat them to market. The French Firm (EU and NATO) appears to have the most compatible technologies and he is looking to partner and execute quickly to solidify market position. European privacy law and differing ethical and export restrictions make securing a European partner possibly exstremely lucrative, but there really is not advantage to partnering if they have a unique technogical advantage.
•	olved? What specifically does the Adversary or Threat Actor want to achieve? What is the s the Adversary or Threat Actor frightened of?
	The company, investors and community in North Dakota that have grown up to support this new tech hub and emerging technolgies. Mainstream public is concerned about the

	Security of communication, inadequete and obselete regulatory framework. Intellectual propery laws and legal framework are obselete and cannot keep up with modern business cycle and tech driven deals. Vunerability to semi-closed peer networks that have high trust but can have misinformation campaign within the echo chamber that is biased towards action.	
ART TWO: Experience Questions (from the pe	rspective of "the person" experiencing the threat)	
Questions (pick two)		
The Event" - How will your person first hear a	bout or experience the threat? What events or actions led up to it?	
Vhat is different and/or the same as previous	events or instantiations of the threat?	
Vhen the person first encounters the threat, hat will they see? What will the scene feel ke? What will they not see or understand ntil later?		
low will information be delivered to the erson? Where and how will the person onnect and communicate with others? family, aid agencies, federal, state and local uthorities, professional network)		
What will the person have to do to access peop	ole, services, technology and information they need?	
Vhat are the broader implications of a threat I	ike this? What might a ripple effect look like?	
Question One	"The Event" - How will your person first hear about or experience the threat? What events or actions led up to it?	
	Bubba, while lunching with the Parisians to celebrate the deal, his phone alerts him to traffic within his trusted peer networks communitions platform that the deal is complete and merger with the Finnish company is company. He jokily responds to his trusted company mates and investors in the trusted channel, you are very funny, we all know the deal en Francais. The trusted channel blows up as the investors question waht really is going on. Seeded information outside of their trusted network starts to report privacy activists organizing against the company due to the new merger with the non-NATO parter of the Finns.	
Question Two	What are the broader implications of a threat like this? What might a ripple effect look like?	
	Transfer of critical IP threating nattional security and privacy issues. Economic distruption in the North Dakota Tech hub. Lack of investor confidence in "unicorns" and quickly growing tech firms creates a disruption in the economy. The lack of security now risks confidence across defense and national policy apparatus as well. Threat of government intervention as the company has violated export controls and regulatory requirements.	
ART THREE: Enabling Questions - Adversary o	Threat Actor (from the perspective of "the party" bringing about the threat)	
Questions (pick two)		
arriers and Roadblocks: What are the xisting barriers (local, governmental, olitical, defense, cultural, etc) that need to e overcome to bring about the threat? How o these barriers and roadblocks differ eographically?		
lew Practices: What new approaches will be sed to bring about your threat and how will he Adversary or Threat Actor enlist the help f the broader community?		
usiness Models: What new business models a	nd practices will be in place to enable the threat? How is it funded?	
esearch Pipeline: What technology is available	e today that can be used to develop the threat? What future technology will be developed?	
cosystem Support: What support is needed?	What industry/government/military/criminal elements must the Adversary or Threat Actor team	up with?

	Barriers and Roadblocks: What are the existing barriers (local, governmental, political,	
Question One	defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	
	Finnish company trying to work around the restriction to export control outside of NATO. They don't currenlty have the technology to exploit or market the secure communitions thoughtout the EU, but this merger would allow them to quickly position as the leader within EU, and support ANTI-NATO bias on the continent. They need the technology to create a real-time deepfake attack on video teleconfence in a peer to peer believed secure communication network. EU privacy and legal frameworks and law enforcement will be overcome by quickly tranfering the IP to their networks within the sorveign borders of Finland. Using privacy tools mitigate against disclosure, but also having positioned the narrative that the company had individually developed similiar technologies and was positioned as potential EU leader.	
Question Two	Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
	Need members of trusted networks that are witting or unwittily supporting the deepfake messaging. Press support of the released and manipulated disinformation. Criminal elements assist with planned and identifying witting participates in the sceme. Government support once IP has been stolen to back up the claims of the IP being developed within the EU. Narrative support to delay any regulatory or legislative action until after the transfer has occured.	
PART FOUR- Backcasting - The Defenders (fror	n the perspective of the defenders)	
Examine the combination of both the Experien	ce Questions as well as the Enabling Questions.	
Explore what needs to happen to disrupt, mitig	ate and recover from the threat in the future.	
Gates:		
What are the Gates?		
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.		WHO?
	Regulatory and Regulatory controls to allow verification at speed	Government
	2 Legislative, investigatory, and regulating process to protect and verity IP in new realities	Government/In ustry
	Self policying / Voluntery Industry control on tech transfer	Industry
		government/ind
	Government/Industry sharing of more robust secure communication networks	ustry
	Cybersecurity to identity source of information as well as communication means	government
Flags:		
What are the Flags? List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		WHO?
· · · · · · · · · · · · · · · · · · ·	Ability to insert deep fakes in real time into video communications	
	2 Market develops for telephone spoofing and anti-spoofing technologies	
	B Develop of soverign internets that provide extensive protection once IP leaves US	
	Inteligence community signals with regard to industrial espionage	
	5	
Milestones:		

What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	Trustable intellegience sources that are vetted and provide actionable tips	USG
2	New regulation methods early in tech process that allows to share, license and partner in a way that would take away the incentive/economic benefit to steal IP	
3	Education program for populations to understand the limits of security with regard to communications	
4	Needs procedures to address and mitigate for stolen IP	
5	Develop central clearing house of secure communications technologies	
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	Employ quatuum communications technology at scale to allow for quantum entenglement to create 100% communications medium.	
2	Education on the limits of AI and deepfakes technologies and detection limitations	
3		
2		
5		

Team Members:	Black Pawn	
Experience Title:	The Decline of Higher Ed and Rise of the Anti-University: Hyper-individual, individuated, decentralized higher ed	
Estimated Date:	2029	
Data Points		
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Slot)		
Speaker 1	Protests challenging DoD working with corporate America. The generation should influence what projects their companies undertake not just what individual projects "they" undertake.	
Speaker 2	Tunnel vision, desperation in the face of change	
Speaker 3	Rise of deep fakes	
PART ONE: Who is your Person?		
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as though you are writing for someone who is not in the room.		
Who is your person and what is their broader community?	President of ASU, Michael Crow	
,, per		
Where do they live?	Phoenix	
What is the threat?	Attracting high quality students, faculty, funding to viably support quality education that supports critical thinking and creative capability in an age of digitization of content that's ubiquitously available, for free, from credible and non-credible sourcesthat's available to be implanted in a student's brain.	
	and the first state of the state	
Briefly describe how your person experiences the threat (The Event) and	Higher ed is under attack everywhere. Student enrollment is down considerably. Faculty	
	salaries and benefits need to be paid, so debts are rising, limiting investment in new research and teaching. State funding is down. Faculty are being picked off by industry. Research is being taken over by private industry. Buildings are empty.	
What is it? Who else in the person's life is involved? What specifically do hoping for? What is the Adversary or Threat Actor frightened of?	es the Adversary or Threat Actor want to achieve? What is the Adversary or Threat Actor	
	Board of Governors/State Board. Existing Faculty & Administrators. Current students. Alumni are frustrated about prospects of the future. Giving is down significantly. Industry are not recruiting as heavily from current student base. The biggest threat is irrelevancy, and ultimately solvency.	
What vulnerabilities does this expose?		
	The biggest threat is irrelevancy, and ultimately solvency. What can you distinctly offer students, faculty, and ultimately society from a higher ed degree/experience. It also exposes students to questionable "education" - what are the quality metrics of what constitutes high value secondary education? If students go towards highly personalized education, they choose their subjects and sources. Are they verified? Are they based in in foundational knowledge? What are the standards?	
PART TWO: Experience Questions (from the perspective of "the person"	experiencing the threat)	
Provide the person		
Questions (pick two)		
"The Event" - How will your person first hear about or experience the the	reat? What events or actions led up to it?	
What is different and/or the same as previous events or instantiations of	f the threat?	
When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?		
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)		
What will the person have to do to access people, services, technology a	nd information they need?	
What are the broader implications of a threat like this? What might a rip	ple effect look like?	
	"The Event" - How will your person first hear about or experience the threat? What events or actions	
Question One	led up to it?	
	Research funding that was designated for ASU gets reallocated to private startup (Alter Ego?) and LinkedIn Learning pursuing individually delivered curriculum sourced from multiple mediums	

Question Two	What are the broader implications of a threat like this? What might a ripple effect look like?	
	Enrollment continues to decline. General Liberal arts degrees are dwindling. Decline of Pheonix economy do to talent drain and student drain - housing, services, infrastructure, etc. Trend scaling	
	across the country. More large insitutuions, like Ohio State, struggling to hold on to foothold and conribution to their local communities. More students are falling prey to "deep fake" degrees.	
PART THREE: Enabling Questions - Adversary or Threat Actor (from the	perspective of "the party" bringing about the threat)	
<b>A</b> <i>i i i i i i i i i i</i>		
Questions (pick two) Barriers and Roadblocks: What are the existing barriers (local,		
governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?		
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?		
Business Models: What new business models and practices will be in p	lace to enable the threat? How is it funded?	
Research Pipeline: What technology is available today that can be used	to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What industry/governme	ent/military/criminal elements must the Adversary or Threat Actor team up with?	
Question One	New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	
	New players are entering the higher ed business at the same time that regulation is crumbling. Anyone can offer a "higher degree" equivalent from a combination of linkedin, youtube, and direct to neural pathway. Meanwhile, companies are recruiting young talent earlier and earlier, and use external education arms to help recruit and develop that talent for the company. Soon, you can get a degree in Forthite	
Question Two	Research Pipeline: What technology is available today that can be used to develop the threat? What future technology will be developed?	
	AlterEgo, neural implants, ubiquitous video feeds (via deep fakes), XR (AR & VR) environments create multiple pathways to higher ed.	
PART FOUR– Backcasting - The Defenders (from the perspective of the	defenders)	
Examine the combination of both the Experience Questions as well as		
Explore what needs to happen to disrupt, mitigate and recover from th		
Gates:		
What are the Gates?		
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.		WHO?
	1 Accredidation boards get stricter on who can awards degrees	Academia and government
	2 Financial incentives to finish traditional higher ed (tax incentives)	government
	3 Universities offer new partnerships with industry	University
	4 Industry creates more scholarships for traditional higher ed	Industry
	5 More community support for families of students to attend and support college	Academia and government
Flags:		-
What are the Flags?		
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		WHO?
	1 LinkedIn Learning offers its first undergrad degree; Halolens offers VR equivalent	LinkedIn Learning
	2 Fortnite partners with MIT to offer virtual degree online in Fortnite	Industry
	More companies recruiting right from highschool - google announces all time high	
	3 engineering recruitment from STEM schools	Industry
	High school college counselors start to advocate for alternative paths (vs traditional 4 college)	Education
	5 College enrollment down from prospective students	Students
Milestones: What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
	1 Student loan crisis - affordable access to higher education	Government
	1 Student loan crisis - anoruable access to higher education	Covernment

	Watch and research enrollment and metriculation trends carefully - connect that with long         term contributions of students to society         More partnerships between industry and higher ed - new curricula and hiring pathways         Monitor incentive structure (new tax and financial benefits) and support systems to get and keep kids in college	Academia/indus try
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
	1 Better tech to identify and mitigate deep fake videos	Govt, industry
	Revamp the Dept of Ed - to more focused on student experience. Create blockchain 2 accreditation for its classes to demonstrate unique learning experience	Govt, industry
	Revised immigration to allow for world's best faculty and students to teach and do research 3 at higher ed	Academia
	Industries continue to hire from traditional higher ed - evidence exists that higher ed has 4 better long term employment rate	Industry, Dept of Labor
	5 Academia gets rid of tenure track to release funds to be focused on students	Academia

Team Members:	Purple Pawn
Experience Title:	
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Slot)	n
Speaker 1	Older generation alienated: Lack of "adult" mentorship; use of "adult" organizations to communicate to next generation (builds "tribal" societies); victory of Rosseau over Voltaire
Speaker 2	Censorship: Balance of freedom of speech and control
Speaker 3	Immediate amplication through toxic ecochambers (use to amplify disinformation); More you let it go, the dangerous it becomes
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible. The power is in the details. Scribe please write as though you are writing for someone who is not in the room.	5
Who is your person and what is their broade community?	Young, white, male. Works from home as an automated robotics engineer. Lives in a single, non-binary community, and alienated from family ties. He has robotic sister wives.
Where do they live?	Coastal suburb
What is the threat?	With instantaneous autiomation and super-fast connectivity, in 10 years, 5G, automated responses and autonomous decisionmaking means that a person becomes isolated, in a bubble (Matrix style, or Descartes's brain in a jar seeing Platyo's shadown in a cave). There is no reliancde on outside human contact or interqction, as the bubble provides more intantaneous and plesant feedback. Threat: man-in-the-middle, lack of integrity, preference for a robotic instant granparent insted of the intergenerational and interhuman links.
	The complete break down of human to human communication.
Briefiy describe how your person experience	s the threat (The Event) and possible 2nd/3rd order effects. Job becomes automated. He becomes completely isolated from human contact, because trust in electronic communication has become almost completely automated. Communication automation has destroyed his validation system from online likes and comments. Relies on the robtic sister wives that he programed to meet human needs (i.e. self-worth, emotional interaction). Instead of creating, discovering innovating and thus driving economy, they're in a bubble of their own making. However, all of this is controlled by extrernal servers that run autinomous decidsions (AI) with little considerastion for security of connections. Therefore, a man-in-the middle can easily take over running this life withjout detection, causing a meltdown with no social support structure to catch it.
	volved? What specifically does the Adversary or Threat Actor want to achieve? What is the is the Adversary or Threat Actor frightened of?
	Isolation of more individuals, which leads to further breakdown of society. Lack of civic participation. The Adversary is afraid that this will lead to a revolution of interpersonal communication and a strengthening of social ties.
What vulnerabilities does this expose?	
	Exposes the mental, emotional, and physical health of an entire generation. Weakness of infrastucture and over confidence of the security of the infrastructure. The vulnerability of online validation systems.

Questions (pick two)		
"The Event" - How will your person first hear ab	out or experience the threat? What events or actions led up to it?	
What is different and/or the same as previous e	events or instantiations of the threat?	
When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?		
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)		
What will the person have to do to access peop	le, services, technology and information they need?	
What are the broader implications of a threat li	ke this? What might a ripple effect look like?	
Question One	What will the person have to do to access people, services, technology and information they need?	
	Barriers: 1. lack of skills of human interaction; 2. lack of a culture of proactive sociual services in the US; 3. lack of family or other support structure; 4. lack of available services and funding: 5. AI/ML will not help as they're not optimised for compassion but reproduction of the existing structures.	
Question Two	How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)	
	Information will be constantly delivered, but none of this information will be able to satisfy his human needs or provide him the skills and wisdom he needs to survive. The only communication with others that he will have is with his robotic sister wives because he has alienated himself from family and does not trust electronic communication.	
PART THREE: Enabling Questions - Adversary or	Threat Actor (from the perspective of "the party" bringing about the threat)	
Questions (pick two)		
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ reographically?	Barriers: 1. lack of skills of human interaction; 2. lack of a culture of proactive sociual services in the US; 3. lack of family or other support structure; 4. lack of available services and funding: 5. Al/ML will not help as they're not optimised for compassion but reproduction of the existing structures.	
geographically? New Practices: What new approaches will be	reproduction of the existing structures.	
used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	Automated communication and 'fake friends'. Influence those on social media to spend more time interacting with fake friends and then have the subject realize that he has distanced himself from his 'real friends'. This takes an emotional toll. Causing the alienation of social groups and minorities by soreading weaponized narratives about them.	
Business Models: What new business models ar	nd practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available	today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? W	vhat industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
Question One	PASTE HERE	
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	Barriers: 1. lack of skills of human interaction; 2. lack of a culture of proactive sociual services in the US; 3. lack of family or other support structure; 4. lack of available services and funding: 5. Al/ML will not help as they're not optimised for compassion but reproduction of the existing structures.	
Question Two	PASTE HERE	
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	Automated communication and 'fake friends' as well as outsourcing of decisionmaking to external automaed systems (first, your termostat is autonomous and controlled by external server, then the algorhytms restocks your fridge; then the bahaviour of the robot viwes. Then the adversary seizes control. Influence those on social media to spend more time interacting with fake friends and then have	

PART FOUR– Backcasting - The Defenders (from	the perspective of the defenders)	
Examine the combination of both the Experience	ce Questions as well as the Enabling Questions.	
Explore what needs to happen to disrupt, mitig	ate and recover from the threat in the future.	
Gates:		
What are the Gates?		
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.	Connectivity (Government/Google); interpersonal communication (Family (older generation)); Interperso	WHO?
1	Community: not bowling alone, create mechanisms of social cohesion that replace the family ties (clubs, associstions) and thus provide identity as well as a social network; solidarity, support (a person to drive you home from the doctors when you're too sick to do so)	Americans, always forming associations; government
2	Proactive and personal social setvices, personalized appraoch in social work	Government
3	regulation on human-like robotics	government
	ethics and research security of connections, security by design of services and goods	academia pricate sector developers, government in regulation (particularly in terms of critica information infrastructure)
Flags:		
What are the Flags?		
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		WHO?
1	Only communities that the majority of Americans belong to are digital.	Americans
2	Companies increasingly rely on automated communication it place of human to human communitication.	Corporations
3	Widespread use of unregulated human-like robots that temporarily fill the void of human contact.	Government
4	Foreign entity presence on social media platforms that goes unregulated, deterred, or defended against.	Government
5	Polling: americans reportting having social ties, responses to quesitons about club membership	
Milestones:		
Whet ones: What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	Prepare people through public and private campaign to slowly decrease dependence on technology.	Government and private industry
2	Initiate and fund social groups that promote human interaction.	Government and industry
	greater security on social media platforms.	Government
4	Shift from data driven to data value. Data only characterizes to a certain point. Be human focused	Private
5		

What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	Prepare people through public and private campaign to slowly decrease dependence on technology.	Government and private industry
2	Technology to backtrack all of social media friends to help verify that social media friends are not Al.	Social media companies
3	Education about tech dependence.	
4		
5		

Team Members:	White Pawn
Experience Title:	The War on Authenticity
Estimated Date:	2029
Data Points	
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Slot)	
Speaker 1	Self organization takes place now in cyberspace because of the limits of the terrestrial space.
Speaker 2	off shoring of critical infrastructurepharmaceutical, manufacture
Speaker 3	New ways to sift through analysis of information (AI programs, more off the shelf options)
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as though you are writing for someone who is not in the room.	
Who is your person and what is their broader community?	Zhang Dayi Leading influencer in the Wanghong economy
Where do they live?	Dashanzi is the art district of Beijing
What is the threat?	She's at beachhead of the War on Authenticity
Briefly describe how your person experiences t	he threat (The Event) and possible 2nd/3rd order effects.
	Zhang logs on Monday and realizes that "logging off" has become a meme of authenticity that has spread virally. Subsequently she receives a hand delivered letter by one man in a black suit where she is summoned to meet with the Minister of Wanghong.
What is it? Who else in the person's life is invol Adversary or Threat Actor hoping for? What is	ved? What specifically does the Adversary or Threat Actor want to achieve? What is the the Adversary or Threat Actor frightened of?
	Zhang didn't mean to become a symbol that would launch a revolution, she just wanted some for her secret life, but what she didn't realize is that she set off a red alert in the regime that triggered her team, handlers, and representatives to urgently contact her while she's off the reservation. She has cut off her data for the weekend. "All human beings have three lives: public, private, and secret." — Gabriel García Márquez,
What vulnerabilities does this expose?	
	The achilles heal is the granularity of data they've become dependent up to feed their AI which is the foundation of their social control and their economy. The Chinese regime has woken up to how vulnerable they are to the inevitable cussedness of humans. Who are *never* machines.
PART TWO: Experience Questions (from the pe	rspective of "the person" experiencing the threat)
Questions (pick two)	
	bout or experience the threat? What events or actions led up to it?
, ,	events or instantiations of the threat?

When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?

How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)

 What will the person have to do to access people, services, technology and information they need?

 What are the broader implications of a threat like this? What might a ripple effect look like?

Question One		
Question One	PASTE HERE	
	"The Event" - How will your person first hear about or experience the threat? What events or actions led up to it?	
	When Zhang receives a hand delivered physical letter, she realizes the signifigance of her actions. In a synthetic world, receiving something material from someone phyically appearing on her door step signals just how far out of line she's gone. She has been put on official notice. Her account has been frozen and her publishing key's have been removed. She has no ability to post or contact with people. The littany of the fake that people have to come to quietly abhor: fake reports on natural disasters, fake government reports about official corruption, fake government reports about disease, fake government reports about potential adversaries, fake government reports about potential adversaries, fake government reports about the success of Chinese colonialism, fake impression that people are happy, and fake genese are being added to their children. Very little of the experienced reality matches what is being pushed and seen to them online. The events and symbols that were acts of resistance that led up to the Authenticity Revolution: young people made the quiet action of taking the stairs instead of the elevator, people decide to take the scenic route to work instead of the most efficient path, people choose to not to put biometric sensors, a fashion movement towards anti surveillance apparel emerges, black market underground disaster tourism market, people begin buying knock off fashion bags that are actually faraday bags, hand written and drawn emerges as a desired art form, people begin listening to live music in the park, skateboard culture explodes as a non-electric form of travel, over adornment of facial presentation with makeup and jewelry, cotton, wool, and leather are seen as the most desireable fashion material.	
Question Two	PASTE HERE	
	What are the broader implications of a threat like this? What might a ripple effect look like?	
	Authenticity becomes the threat and China begins developing counter insurgency TTP's towards authenticity. Zhang's action was the Fort Sumter moment of the War on Authenticity. Lots led up to this. But this was the canon shot that made this a war. Paranoia builds in the regime as the government realizes that the data centric bondage mechanisms are coming unmoored. Governments that have built hyper digital and hyper surveilled societies begin to realize that the greatest threat to their stability are humans – humans are the malware in the system. The instability in China puts up the red flag that authoritarian regimes around the world should take notice. The global powers including the US have to make a decision about how they will respond to this new viral disease that attacks the underpinning of their authority, power, and economy.	
PART THREE: Enabling Questions - Adversary o	r Threat Actor (from the perspective of "the party" bringing about the threat)	
Questions (pick two)		
Barriers and Roadblocks: What are the		
existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	(The answers to these questions are inherent in our responses to all the other items in this worksheet.)	
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?		
Business Models: What new business models a	and practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is availabl	e today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed?	What industry/government/military/criminal elements must the Adversary or Threat Actor team up	with?
Question One	PASTE HERE	
Question Two	PASTE HERE	

PART FOUR– Backcasting - The Defenders (from		
Examine the combination of both the Experience	-	
Explore what needs to happen to disrupt, mitig		
We are looking at what has to happen to disrupt, mit	ligate and recover from the Authenticity Revolution	
Gates:		
What are the Gates?		
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.		WHO?
		The US Military which is loyal to
		the Constitution
1	The US ability to grab power back by weaponizing authenticity.	not to the regime.
2	A strategic doctrine that establishes authenticity as pillar of democracy. Using canada as a cut out. It's canada that is defending the authenticity revolution. (it's just the u.s. channeling money to canada.) (do the canadian chinese immigrants serve as the sharp edge of the spear?)	
3	The US intelligence agency quietly supports the organization of Wanhong influencers in China	This is human triumphalism, not american or western triumphalism. who comes to zhang's protection?
4	The meme of logging off has become the greatest act of resistance and the collective action that is in favor of authenticity begins to and forces a reckoning with the Chinese regime with multiple possible outcomes.	
5		
Flags:		
What are the Flags?		
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		WHO?
1	The proponents of authenticity don't have access to the large ammounts of data on its citizens.	
2	The proponents of authenticity don't know what tracking and surveillance algorithms have been built.	
3	The proponents of authenticity don't know the capabilities of the Chinese government to deploy artificial influencers.	
4		
5		
Milestones:		
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	The rights of citizens as it relates to privacy and surveillance cannot be an opinion it needs to become to become a human right.	
	Digital addiction needs to be treated as a public health emergency.	
	More research needs to be done to forecast the impact of individuals as multinational corporations becuase if the individual becomes the definition of a corporation than that errodes at the expense of citizens.	

4		
5	The cloud is not your friend. Never trust a computer you can't lift.	
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	The new church/state separation is the separation of humans and their data as a sign of a healthy democracy.	
2	You own your own data.	
3	We're not going to code our way out of this. It's about the humans.	
4	Lead the charge on defining what it means to be a citizen. (Global and local.)	
5	Reclaim trust. What is trusted information? What are trusted institutions?	

Sperience Title:         Professionalization of Rumor mongering           stimated Date:         2029           state Points         Comparison           DTE: Rott He Die to pick a data point from ach of the research areas in the Research synthesis Workbook (the rollup for each of the research areas in the Research synthesis Workbook (the rollup for each of the research areas in the Research synthesis Workbook (the rollup for each of the research areas in the Research synthesis Workbook (the rollup for each of the research areas in the Research synthesis Workbook (the rollup for each of the research areas in the Research synthesis Workbook (the rollup for each of the synthesis Workbook (			
state Points     2029       offEr. Fold the Dice to pick a data point from add of the research withesis Workbook (the rollup for each lot)     Milenais and GEN Z will be 75% of the workboca       peaker 1     Milenais and GEN Z will be 75% of the workboca       peaker 2     trust is super important; thends and accial influencers most trusted       peaker 3     Wesponized paranola' is a real threat.       ART ONE: Who is your person     Yesponized paranola' is a real threat.       OTTE: Remember to give as much detail as solible. The power is in the details. Soribes lease write as though you are writing for omeone who is not in the room.     I. Hermione – Parents liberst; the got hooked early on Tomi Lahren and got hooked into far- right vioggers and causes, including write nationalist movements. Joins millary. Comes back may 2. Nandowsh borber – Hany	Team Members:	Blue Chip	
as a Points       Image: Second	Experience Title:	Professionalization of Rumor mongering	
DTE: Roll the Dice to pick a data point from and of the research areas in the R	Estimated Date:	2029	
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near       Instance       Instance       Instance       Instance         peaker 2       trust is super important; thends and social influencers most trusted       Instance	NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Slot)		
peaker 3       "Weaponized paranoia" is a real threat       Image: Comparison of the set of th	Speaker 1	Millenials and GEN Z will be 75% of the workforce	
ART ONE: Who is your Person?  ART ONE: Who is your Person are writing for one one who is not in the room.  ART ONE: Who is your person and what is their broader one who is not in the room.  ART ONE: Who is your person and what is their broader one who is not in the room.  ART ONE: Who is your person and what is their broader one who is not in the room.  Art of the set of	Speaker 2	trust is super important; friends and social influencers most trusted	
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Vhat vulnerabilities does this expose?		violence, so that Russia has greater ability to formally annex its former terirtories (that it	
	What vulnerabilities does this expose?		

	1. Influencers become media without ethical standards (like journalistic standards)	
	<ol> <li>Influencers become media without ethical standards (like journalistic standards)</li> <li>Influencers are mostly funded by countries and companies</li> </ol>	
	3. Humans are incapable of distinguishing deep fakes from reality	
	4. People have grown up believing (and being willing to act on) biased information,	
	including distortions and deep fakes that support their views	
PART TWO: Experience Questions (from the pe	rspective of "the person" experiencing the threat)	
Questions (pick two)		
"The Event" - How will your person first hear al	bout or experience the threat? What events or actions led up to it?	
What is different and/or the same as previous	events or instantiations of the threat?	
When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?		
What will the person have to do to access peop	ole, services, technology and information they need?	
What are the broader implications of a threat I	ike this? What might a ripple effect look like?	
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Question One	PASTE HERE	
	Influencers no longer considered fringe or youth source of entertainment, but rather	
What is different and/or the same as previous	excepted as the predominant source of information. They are increasingly financed and e influenced by foreign actors, which is broadly accepted or ignored as a new normal.	
Quantizer Tura		
Question Two	PASTE HERE	
	What are the broader implications of a threat like this? What might a ripple effect look like? Greater ability of foreign actors to use influencers to foment broad-scale violence that can quickly	
	Greater ability of foreign actors to use influencers to foment broad-scale violence that can quickly metasticize. Ultimately, the ripple effect includes the failure of the democratic system.	
PART THREE: Enabling Questions - Adversary or Questions (pick two)	Greater ability of foreign actors to use influencers to foment broad-scale violence that can quickly	
Questions (pick two) Barriers and Roadblocks: What are the	Greater ability of foreign actors to use influencers to foment broad-scale violence that can quickly metasticize. Ultimately, the ripple effect includes the failure of the democratic system.	
Questions (pick two) Barriers and Roadblocks: What are the existing barriers (local, governmental,	Greater ability of foreign actors to use influencers to foment broad-scale violence that can quickly metasticize. Ultimately, the ripple effect includes the failure of the democratic system.	
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Questions (pick two) Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ	Greater ability of foreign actors to use influencers to foment broad-scale violence that can quickly metasticize. Ultimately, the ripple effect includes the failure of the democratic system. Threat Actor (from the perspective of "the party" bringing about the threat) Further weakening of cultural aversion to partnering with foreign powers (in the case of influencer- funded content); Further weakening of political imperitives to denounce influencers on the right or left, given the need for both parties to mobilize their base;	
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PART FOUR– Backcasting - The Defenders (from		
	ce Questions as well as the Enabling Questions.	
Explore what needs to happen to disrupt, mitig	ate and recover from the threat in the future.	
Gates:		
What are the Gates?	US counter-intel monitoring of malign info-operations; US legislation around foreign agents	
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.		WHO?
	Surveillance programs to identify foreign-State backed influence operations	
:	Fact-checking channels and platforms (although these are shown to largely be innefective 2 currently, given propsensity of individals to engage in Confirmation Bias)	
	3 Foreign Agent registration requirements	
	4 Education for parents and youth	
	5	
Flags: What are the Flags?	Increase in social media influencers openly expressing views aligned with foreign powers; closure of traditional news outlets, or continued adaptation to influencer-centric formats; increase in off-line activity, including violence, driven by influencer-amplified content; increase in social media content calling for violence	
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		WHO?
	Decisions of individual infuencers to partner with foreign governments (although defenders can try)	
	Propensity of Americans to perceive the political environment as a zero-sum fight with 2 extreme consequences for failure	
	Disinclination of influencers to register as Foreign Agents (or perceive that they are indeed acting in that capacity)	
	ChallengeLimitations on US government's ability to message to internal US audiences	
	5	
Milestones:		
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
	Increased study of affiliation of US influencers with foreign governments, and enforcement 1 of FARA	DOJ
	2 Crackdown on social media content that advocates violence	Platforms
:	Broad inclusion of social influencers in a campaign effort to promote tolerance and constructive dialogue	Ad Council; Influencers
	More engaging, effective fact-checking that does not simply debunk claims made by the other side; must be delivered by trusted influencers who can also "police their own" by rebutting false claims on their own ideological side	
5	5	
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
	L Wholesale reducation in influence of foreign actors in US social media	
	2 Significant reduction of division amongst US social media tribes	

3	US political leadership emphasizing compromise and the ability to coexist and partner with those who disagree	
4	Public rejection of foreign influence or infleuncer partnerships, whether by politicians or social influencers)	
5	Rejection of disinformation used in smear campaigns by political leaders, including rejection of proxies	

How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)

What will the person have to do to access people, services, technology and information they need?

What are the broader implications of a threat like this? What might a ripple effect look like?

Question One	PASTE HERE	
	"The Event" - How will your person first hear about or experience the threat? What events or actions led up to it?	
	When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	
Question Two	PASTE HERE	
	What are the broader implications of a threat like this? What might a ripple effect look like?	
DART THREE: Enabling Questions - A	The very beginning of the event for Sue is converstations with her mother-in-law in Cambodia. Mom tells sue about numerous personal cases of Corona that she knows about, but the Cambodian continues to insists there is no outbreak. Days later, after the first US case is announced, she begins to network among her friends, many of whom are also new moms. In those conversations, she hears rumors that children, especially infants are super succeptible to the strain, which is often fata. Soon after panelists on the View have a similar conversation. Meanwhile the mother begin to suspect that the government is under- reporting the spread. Based on her conversation with mom, Sue reinforces this belief among her network. Following up on that, she does search-guided internet reaserch that takes her into a threat-actor SEO propomoted youtube rabbit hole, claming that these conspiratorial beliefs are correct. As she shares this research with her network, fear and irrattionality spread. Eventually, kinetic solutions such as a self-imposed quarantine are proposed.	
ART THREE. ENADIIING QUESTIONS - AU	versary or filleat Actor (from the perspective of the party bringing about the threat)	-
Questions (pick two)		
existing barriers (local, governmental political, defense, cultural, etc) that r pe overcome to bring about the threa do these barriers and roadblocks diff geographically?	l, need to at? How er	
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existing barriers (local, governmental political, defense, cultural, etc) that r pe overcome to bring about the three do these barriers and roadblocks diff geographically? New Practices: What new approache used to bring about your threat and I the Adversary or Threat Actor enlist to of the broader community? Business Models: What new business Research Pipeline: What technology i Ecosystem Support: What support is	I, heed to at? How ier is will be how will the help is models and practices will be in place to enable the threat? How is it funded? is available today that can be used to develop the threat? What future technology will be developed? needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team PASTE HERE Business Models: What new business models and practices will be in place to enable the threat? How is it funded? Instead of new business models, we focus instead on the negative effefts of existing business models. Ultimately many state and non-state actors will have financial motives to promote fear-based narratives about US outbreak response. Profit-motive in pharma; state interest in corporate shananigans; Search engine optimization; Investment pressures on online media operations to grow beyond sustainability	up with?

Examine the combination of both the Experience Questions as well as the Enabling Questions.

\*

Explore what needs to happen to disrupt, mitig	ate and recover from the threat in the future.	
Gates:		
What are the Gates?	Trusted/effective government, an effective vaccine, mitigating pre-narrative campaign	
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.		WHO?
	effective risk communication	
	2 traditional multi-source journalism	
	a laws that make misinformation on health crisis illegal	
	effective international monitoring	
	platform improvements that make seo harder	
Flags:		
What are the Flags?	Always a low level biological threat going on, fears over vaccines, reactions to propsed responses, disaligned incentives across differing governements and industry, political misinformation campaigns have worked.	
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		WHO?
	lack of technology to stop an outbreak-tool for misinformation	
:	difficult to regain control of a narrative after it has been deployed	
	hard to constrain user-directed internet reasearch driven by confirmation bias	
	when the disease breaks out	
	self-reporting	
	compliance w/ medical protocols	
Milestones:		
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
	vaccine prep where approriate	CDC, pharma
	2 deploy competence narratives	govt
:	3 communal global fact-checking infrastructure	govt, media
	a diagnostic discipline	doctors, hospita
	5	
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
	improve surveiillance worldwide	CDC
	2 data sharing across digital diagnostic tools	tech, govt
	Al-based diagnostics and vaccine production	DARPA, tech

Team Members:	Blue Pawn
Experience Title:	What if a war happens and no one shows up?
Estimated Date:	2029
Data Daista	
Data Points	
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Slot)	
Speaker 1	Children born after mid-90s are most diverse in terms of friend circles and preferences. Both societal values and because of the digital tools available
Speaker 2	Bubbles are a major part of the current problem a broader community of sources helps protect against biases
Speaker 3	audio/video/Photo manipulation
PART ONE: Who is your Person?	
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as though you are writing for someone who is not in the room.	LTC Smith, male, 45, 23 years of service in US Army, Recruiting unit batallion commander
Who is your person and what is their broader community?	Batallion Commander in charge of 500 troops. Mid-level manager responisible for recruiting for soldiers in Los Angeles
Where do they live?	Los Angeles USA
where do they ive.	
What is the threat?	Recruits are not signing up/backing our. Trust in the military as an insitiution has been eroded
Briefly describe how your person experiences	the threat (The Event) and possible 2nd/3rd order effects.
	LTC Smith has consistenly missed mission and is not able to provide recurits to the force. People do not want to join the military because doctored video / photos show that the Army is an "evil" organization. Potential recruits have grown up in a world as the reason of every military action has been undermines as a false flag or a hoax
•	olved? What specifically does the Adversary or Threat Actor want to achieve? What is the s the Adversary or Threat Actor frightened of?
Autor of the at Actor hoping for: What I	Who Else: Son- Kyle Smith has been consistently influenced by foreign threat actors
	through targeted media. As a child Kyle wanted to be a soldier like his dad, now Kyle is having contentious arguements with his father about the military. It has gotten to the point where mom has ruled that discussions about the military are not allowed on the dinner table
What vulnerabilities does this expose?	
	force structure is dependent on the public will to join the military
	Forcing the US to rely on conscription, a less professionalized army, unhappy conscripts are introducing a large amount of insider threats to the force; Social media sharing continues to undermine recruiting capabilites. Vietnam dicontent in a digital manner
PART TWO: Experience Questions (from the p	erspective of "the person" experiencing the threat)
Questions (pick two)	
	about or experience the threat? What events or actions led up to it?

When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?

How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network) Catalyst Event: Russia invades Poland with video evidence of "little green men" invading Poland, but the Russian disinformation sources post videos that statesGermany has invaded Poland first. When Polish citizen journalists post videos of the Russian Invasion, competing videos show a German Invasion. Commercial sources try to take down fake videos, but it takes days for the videos to be taken down. Publically available information reinfoces a German invasion of Poland. It gets to the point where everyone "knows" that Poland was invaded, the US government wants to move forces against Russia, but is facing mounting resistance from the U.S. population. Overall there is a lot of fear, uncertainty, and doubt.

LTC Smith's social media feeds sends a burst of information showing an invasion of Poland, competing narratives are reinforced by mainstream media. He doesn't know what or who to believe. He comes in the next morning and his office has been firebombed, his Company Commanders are calling with messages that a large amount of recruits have backed out. Local law enforcement is calling and requesting that he closes his offices due to the possibility of violent protests.

What will the person have to do to access people, services, technology and information they need?

What are the broader implications of a threat like this? What might a ripple effect look like?

Question One	PASTE HERE	
Question Two	PASTE HERE	
PART THREE: Enabling Questions - Adversary or	Threat Actor (from the perspective of "the party" bringing about the threat)	

## Questions (pick two)

Questions (pick two)		
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	Gaming the "fake news" algorithms; Citizen journalists; Has to co opt mainstream media; citizen independent digital forensic investigator "bellingcat"; No physical barriers, but there will be lingistic differences; digital platforms; digital behavioral differences; time-based differences; preplanned accounts and profiles, realistic looking accounts.	
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?	Al enhanced/manipulated video, photos, audio. Person-based interactive bots "aka weaponized customer service bots" that cannot be identified as bots. Al generated photo,video,audio. In VR, Real person creates digital clones to engage individual citizens.	
Business Models: What new business models an	nd practices will be in place to enable the threat? How is it funded?	
Research Pipeline: What technology is available	today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? W	/hat industry/government/military/criminal elements must the Adversary or Threat Actor team	up with?
Question One	PASTE HERE	
	Business Models: Chat bot development for customer service. Chat bots now learn to engage with people to move them from one psychological state to another. Funding: Commercial	
Question Two	PASTE HERE	
	Ecosystem support: A blurring of the lines of the grey space, a state of constant online warfare. Hidden Foreign VC funding into promising information technology firms. Hidden VC funding into influencer based entertainment. Anonymous donations to web-based funding accounts of "citizen activists / journalists".	
PART FOUR- Backcasting - The Defenders (from	the perspective of the defenders)	
•		
	e Questions as well as the Enabling Questions.	
Explore what needs to happen to disrupt, mitiga	e Questions as well as the Enabling Questions.	
•	e Questions as well as the Enabling Questions.	
•	e Questions as well as the Enabling Questions.	
Explore what needs to happen to disrupt, mitiga	e Questions as well as the Enabling Questions.	

List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along the path from today to 2029.		WHO?
		industry
1	Digital Resilience Campaigns	collboration with government
		entertainment
	Entertainment based fact-checking programs (for both the left and right) Classified Information (release of critical information)	industry
		Government
	Unplug the internet (maybe) Content censoring - similar to Cristchurch shootings	Government
Flags:	Content censoring - similar to cristchurch shootings	Government
What are the Flags?		
List out what the Defenders don't have		
control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		WHO?
1	Network Connectivity	All
2	VC Funding Streams	Industry
	Worldwide political situation	Government
	Citizen mesh networks	Citizens
5		
Milestones:		
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	digital resilience campaigns	government / industry
	slowing down the 24 hour news cycle	industry
	increased funding / authorities to inform population	government
	Confirmed internet persona system	government / industry
5		
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1		
2		
3		
4		
5		

Team Members:	Brown Chip	
Experience Title:	Environmental Disaster	
Estimated Date:	2029	
Data Points		
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Slot)		
Speaker 1	Participatory parenting	
Speaker 2	Confirmation Bias	
Speaker 3	"platforms" content/atomic unit	
PART ONE: Who is your Person?		
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as though you are writing for someone who is not in the room.		
Who is your person and what is their broader community?	31yoa college graduate San Diego State male (Tom), A data scientist with NOAA (GS12), single no kids, live in boyfriend (Jackson), environmentally peaceful activist, inclusive attitude, liberal leanings, not religious but respectful. Polite but is stressed out about the world around him. Financially secure but not wealthy.	
	Can Diana CA aukumba	
Where do they live?	San Diego, CA - suburbs	
What is the threat?	A hurricane made landfall in the Southern California area (event) threat is adverserial advantage of the event.	
Briefly describe how your person experiences the	the threat (The Event) and possible 2nd/3rd order effects.	
	The San Diego area experienced severe flooding and was unpreppared to handle the devastating effects. However, a battle of narratives has emerged that conservatice data scientists do not attribute to climate change (el Nino) as opposed to his knowledge that the event is directly attributable to human created climate change. His boyfriend was in a coma because of the storm.	
What is it? Who else in the person's life is involu- Adversary or Threat Actor hoping for? What is t	ved? What specifically does the Adversary or Threat Actor want to achieve? What is the he Adversary or Threat Actor frightened of?	
What uulparabilities done this super-2	Tom is reading counter articles while in the hospital with his partner. Coal and Oil companies are blamed by some parties for the actions in San Diego. In Toms mind blood has now been shed by events in San Diego. The Navy has become the largest oil consumer in San Diego as the turn of the decade saw an unprecidendent US military buildup with appropriations reaching \$1 trillion. Russia sees opportunity to engage in environmental terrorism by stoking the flames of divide in the U.S. after a major weather event.	
What vulnerabilities does this expose?	Tom now has a nerrounal life experience effecting his judgment. Tom regiones targeted	
	Tom now has a personal life experience effecting his judgment. Tom recieves targeted information that he is interested in (fake news clippings, oil companies and the Dept of the Navy) exposing the hypocrapsy. George a college of Toms at NOAA disuccess freely his disdain for environmental policies and consistently references articles he reads discussing scandles in environmental groups such as Green Peace and Sierra Club. In conversations between George and Tom, George disguises his conversations as "some people are saying this" so we need to deal with this.	
PART TWO: Experience Questions (from the per	spective of "the person" experiencing the threat)	

The Event" - How will your person first h	near about or experience the threat? What events or actions led up to it?	
Vhat is different and/or the same as prev	vious events or instantiations of the threat?	
When the person first encounters the thr what will they see? What will the scene fe ke? What will they not see or understan intil later?	eel	
How will information be delivered to the berson? Where and how will the person onnect and communicate with others? family, aid agencies, federal, state and lo uthorities, professional network)	ocal	
Vhat will the person have to do to access	s people, services, technology and information they need?	
Vhat are the broader implications of a th	nreat like this? What might a ripple effect look like?	
		- 42
Question One	What will the person have to do to access people, services, technology and information they ne	ear
	Tom is living out of a hotel due to extreme flooding. Internet services are poor at best, Jackson remains hospitalized from injuries sustained from the storm. Work is only partially reopened.	
Question Two	What are the broader implications of a threat like this? What might a ripple effect look like?	
	Tom becomes violent and simultaneously steals confidential data from NOAA. Tom chooses to steal the most compromising data points of limate change and has not yet decided to do with the information.	
ART THREE: Enabling Questions - Advers	sary or Threat Actor (from the perspective of "the party" bringing about the threat)	
Questions (pick two)		
Barriers and Roadblocks: What are the existing barriers (local, governmental, bolitical, defense, cultural, etc) that need be overcome to bring about the threat? H do these barriers and roadblocks differ geographically?		
New Practices: What new approaches wil used to bring about your threat and how he Adversary or Threat Actor enlist the h of the broader community?	will	
susiness Models: What new business mo	dels and practices will be in place to enable the threat? How is it funded?	
esearch Pipeline: What technology is ava	ailable today that can be used to develop the threat? What future technology will be developed?	
cosystem Support: What support is need	ded? What industry/government/military/criminal elements must the Adversary or Threat Actor team	up with?
	Research Pipeline: What technology is available today that can be used to develop the	
Question One	threat? What future technology will be developed?	
Question One	threat? What future technology will be developed? Tom is exposed to indiscernable deepfake. Micro targeting has now advanced into nano targeting. customized narratives for an audience of one. Automated generation of customized narratives for an audience of one. They know because of Toms social media posting that he is likely very upsent (Jacksons' hospitalization) Tom now has alot of energy to work out. The adversary picks this moment to launch a specified target package on an emotionally exposed person.	
Question One	Tom is exposed to indiscernable deepfake. Micro targeting has now advanced into nano targeting, customized narratives for an audience of one. Automated generation of customized narratives for an audience of one. They know because of Toms social media posting that he is likely very upsent (Jacksons' hospitalization) Tom now has alot of energy to work out. The adversary picks this moment to launch a specified target package on an	
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	Tom is exposed to indiscernable deepfake. Micro targeting has now advanced into nano targeting. customized narratives for an audience of one. Automated generation of customized narratives for an audience of one. They know because of Toms social media posting that he is likely very upsent (Jacksons' hospitalization) Tom now has alot of energy to work out. The adversary picks this moment to launch a specified target package on an emotionally exposed person. Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with? The adversry has to appear as coming from within the same organization/community the	

ates:		
Vhat are the Gates?		
ist out what the Defenders (government, law nforcement, industry, etc) have control over o use to disrupt, mitigate and recover from ne threat. These are things that will occur long the path from today to 2029.		WHO?
	NOAA has an OPSEC program to help secure non-NOAA employees lives. All businesses 1 have a valued desire to assist in securing their employees personal lives.	
	The City of San Diego has a more informed emergency management plan based on 2 environmental factors outside of earthquakes.	
	An organization has a rapid response team to illuminate false information feeds after major 3 events or drown out	Red Cross
	4 The government develops counter methods to target individual bad guy actors.	
lags:		
/hat are the Flags?		
ist out what the Defenders don't have ontrol over to disrupt, mitigate and recover rom the threat. These things should have a gnificant affect on the futures you have hodeled. These are things we should be ratching out for as heralds of the future to ome.		WHO?
	Amazon has developed an advanced AI that propagates information building based off a persons internet personna (social media, spending habits, website views, email correspondence and alexa listening.	
	2 Services that are damaged in the San Diego area have degraded delivery mechanisms.	
	3	
	4	
	5	
Ailestones:		
Vhat needs to happen in the next 4 years 2019-2023) to disrupt, mitigate and prepare or recovery from the threat in your uture? What are our actionable objectives?		WHO?
	In 4 years we identify weather related threat areas that could allow local municipalities 1 (state and local) to plan for the unexpected.	
	2 Most companies invest in operational security at work and at home.	
	3 The US has developed better ecomomic levers to pull to influence adversaries.	
	4	
	5	
Vhat needs to happen in the next 8 years 2019-2027) to disrupt, mitigate and prepare or recovery from the threat in your uture? What are our actionable objectives?		WHO?
	Getting Russia to stop is the most important thing we could do. Enter into an agreement 1 with Russia to get them to stop IO diplomatic actions STAR Treaty.	
	International norms have been established on the internet so that nation states have better 2 understanding of what is expected with actions and counter actions.	
	3 DSCA comforability in cyberspace	
	4	

Team Members:	Orange Pawn	
Experience Title:		
Estimated Date:	2029	
Data Points		
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Slot)		
Speaker 1	Self organization takes place now in cybersapce because of the limits of the terrestrial space.	
Speaker 2	critical thinking, education	
Speaker 3	Traditional warfair being applied to infomration: Techniques, Tactics & Procedures	
PART ONE: Who is your Person?		
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as though you are writing for someone who is not in the room.		
Who is your person and what is their broader community?	Dr. Connie, obstetrician, performs abortions	
Where do they live?	Austin Toyos	
Where do they live?	Austin, Texas	
What is the threat?	Al driven deep fake	
Briefly describe how your person experiences t	he threat (The Event) and possible 2nd/3rd order effects.	
	The deep fake videos have gone viral as fact across IoT of Connie performing an illegal abortion. Control of both houses of the U.S. Legislature are up for grabs between Democrats and Republicans. Protests between opposition groups are occurring in front of the clinic where Connie works, both virtually and physically based on beliefs that the videos are true. Second order effects cause mass violent confrontations between opposition groups and local/state first responders are overwhelmed. Governors declare marshall law, deploy the National Guard, and the President signs executive order shuting down networked platforms. These same platforms are used to organize political support for Connie's advocacy group (PP) at the polls. Platform shutdown denies government information organizations the ability to communicate the videos fakeness to the mass (public diplomacy).	
What is it? Who else in the person's life is invol Adversary or Threat Actor hoping for? What is t	ved? What specifically does the Adversary or Threat Actor want to achieve? What is the the Adversary or Threat Actor frightened of?	
	A swarm of Al driven deep fake videos used as part of a nation-states IW campaign against the U.S. Connie's family is doxxed, leaving her family, co-workers, and friends vulnerable to the retribution of anti-abortion activists. The want sow mass chaos and polarization to distract the U.S. while attacking a neighboring country.	
What vulnerabilities does this expose?		
	Dependency on networked ways of interacting, devices in the middle of transactions	
PART TWO: Experience Questions (from the part	rspective of "the person" experiencing the threat)	
Lister i wo. Experience Questions (nom the per	spective or the person experiencing the threat)	
Questions (pick two)		
	bout or experience the threat? What events or actions led up to it?	
What is different and/or the same as previous e	· · ·	

When the person first encounters the		
what will they see? What will the sce		
ike? What will they not see or under until later?	stand	
	*ha	
How will information be delivered to person? Where and how will the person and how will the person of the person		
connect and communicate with othe		
family, aid agencies, federal, state a		
authorities, professional network)		
	ccess people, services, technology and information they need?	
•	a threat like this? What might a ripple effect look like?	
Question One	PASTE HERE	
	What is different and/or the same as previous events or instantiations of the threat?	
	Previous deep fake attacks used political/emotional themes for political advantage and discourse. This attack uses swarms of specifically developed deep fake videos that target hundreds of American political organizations most in conflict with one another.	
o		
Question Two	PASTE HERE Providus doop fake attacks used political/amotional themes for political advantage and discourse. This	
	Previous deep fake attacks used political/emotional themes for political advantage and discourse. This attack uses swarms of specifically developed deep fake videos that target hundreds of American political organizations most in conflict with one another.	
	Connie sees herself performing an illegal abortion that never actually occurred. She has warrant for her arrest and there are voilent protests occuring between groups on both sides of the abortion issue outside of the clinic where she works. She is afraid to show herself in public. She has been doxxed and is receiving death threats from angry anti-abortionists. After the networked platforms were shut down, the general public remains uninformed about the authenticity of the videos. The nation-state enacting the attack simultaneously invades a neighboring country the U.S. has a security agreement and obligated to defend. The president is hesitant to respond militarily with an uninformed American public.	
PART THREE: Enabling Questions - Ac	versary or Threat Actor (from the perspective of "the party" bringing about the threat)	
PART THREE. Enabling Questions - Ac	versary of fineat Actor (from the perspective of the party bringing about the threat)	
Questions (pick two)		
Barriers and Roadblocks: What are th	e	
existing barriers (local, governmental	,	
political, defense, cultural, etc) that r	leed to	
be overcome to bring about the three	at? How	
to these barriers and roadblocks diff	er	
geographically?		
New Practices: What new approache used to bring about your threat and I the Adversary or Threat Actor enlist t	now will	
of the broader community?	models and practices will be in place to practice the thread of the track of the table	
	models and practices will be in place to enable the threat? How is it funded?	
1 07	s available today that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is	needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team	up with?
Question One	PASTE HERE	
	New Practices: What new approaches will be used to bring about your threat and how will	
	the Adversary or Threat Actor enlist the help of the broader community?	
	Al driven deep fake videos are already demonstrated in the community and drone swarming is getting	
Question Two	exponentially better. Combining both conceptually to form a powerful IW weapon. PASTE HERE	
Questiuli I WU		
	Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
	Academic/proprietary research on a global scale, nation-state theft of intellectual property, and the use of cyber proxies by nation states. Sources of funding motivates technological support betwee all parties within the nation state.	
PART FOUR- Backcasting - The Defen	ders (from the perspective of the defenders)	
	Experience Questions as well as the Enabling Questions.	
	rupt, mitigate and recover from the threat in the future.	
Centerry		
Gates:		
What are the Gates?		

List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur		WHO?
along the path from today to 2029.		
	Education	
	Regulation	
3	offensive, defensive, and exploitive cyber capabilities (local, state, and national)	
	alternative communication mediums	
5	funding and counter-funding/sanctions	
Flags:		
What are the Flags?		
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		WHO?
1	Research and Development	
2	organic funding and resources	
3	ideology	
4	Propaganda	
5		
Milestones:		
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
2	Educate the masses on responsible consumption of networked information	
3	Invest in R & D to detect AI driven deep fake and swarmed deep fake attacks	
4	Legislation to regulate who can post online content. Private citizen can post to friends network and credentialed journalist to mass media sources.	
5	Legislation to regulate who can post online content. Private citizen can post to friends network and credentialed journalist to mass media sources.	
What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	Certified and educated disinformation specialist/engineers	
	Advanced automated/AI driven counter-disinformation systems	
	Accepted processes/laws governing the posting of mass media content and private citizen limitations to immediate social networks (professional/personal)	
	Continue to foster business environment that encourages posting of trustworthy content	
5		

	https://qz.com/1165775/googles-voice-generating-ai-is-now-indistinguishable-from-humans/	
Team Members:	Red Pawn	
Experience Title:	The social network strikes back	
Estimated Date:	2029	
Data Points		
NOTE: Roll the Dice to pick a data point from each of the research areas in the Research Synthesis Workbook (the rollup for each Slot)		
Speaker 1	They value diversity and want to create more equitable society & environment	
Speaker 2	Things are subtle:memes, not quoting sources, complexity of language, signals&signaling, rhyming as away of signaling meme, playground bullying with machine learning, signals get the confirmation bias going	
Speaker 3	Rise of deep fakes	
PART ONE: Who is your Person?		
NOTE: Remember to give as much detail as possible. The power is in the details. Scribes please write as though you are writing for someone who is not in the room.		
Who is your person and what is their broader community?	An elite technology/new media executive named Mark; his community is tech executives, technologists, and wealthy people in San Francisco	
community i	comorphic and weating people in our rationed	
Where do they live?	San Francisco	
	Congress attempts to regulate the big tech/social media companies. Regulation fails and conspiracy theories circulate disinformation that the tech companies were manipulating socal media in order to kill regulation. Radical extremists on both sides accuse technology companies of engineering social outcomes that are dispicable. Deep fake videos circulate that supposedly show tech executives having conversations where they are discussing how they manipulate the public. This generates a broad public resentment of tech companies and extremists start assassinating technologists. Several tech CEOs are killed or die under questionable circumstances. This disinformation is circulated both by	
What is the threat?	domestic extremists but also by malign foreign actors.	
Briefly describe how your person experiences the	threat (The Event) and possible 2nd/3rd order effects.	
	Mark is fighting massive PR problems and has received thousands of death threats. Conspiracy theories spread on 4Chan that Mark is part of a child trafficking ring for elites. Then a video is released purporting to show him having sex with a young girl. He denies it and claims it is a deep fake. Then additional videos emerge, some showing other tech executives. Police raid Mark's house and find child pornography on his computer (which was planted three by hackers). Tech company stock prices are tanking. Mark hears on the news that a warrant has been issued for his arrest.	
What is it? Who else in the person's life is involve Threat Actor hoping for? What is the Adversary o	d? What specifically does the Adversary or Threat Actor want to achieve? What is the Adversary or r Threat Actor frightened of?	
	Extremists want to keep the tech companies from engineering social outcomes they don't like. Foreign actors are trying to cause social discord and undermine our tech sector and economy. One hacker group is actively trying to foment a civil war in the US. Extremists are frightened of tech companies enforcing diversity / hegemony. They see a "white guy problem" where small numbers of people at tech companies are coding apps/AI/algorithms that incentivize certain behaviors (yoga, drinking smoothies) but disincentivize other behaviors (not- vaccinating your kids, driving a pickup truck). They see this as techno-authoritarianism. Foreign actors see tech and innovation as the source of US power and are afraid of competition and US tech dominance. They are also afraid of the power of tech companies to enforce/incentivize US (or white guy) values. The civil war hackers want to spark a hot war that they think "their people" can win.	
What vulnerabilities does this expose? The amou enough to generate strong predictive factors abo	nt of data collected about an individual by tech companies (and available for sale to anyone) is ut most subjects and behaviors.	
	Deep fakes are effective because once you see something it is very hard to be convinced it isn't true (cognitive friction) and people are disinclined to believe a message that counters their own bias (cognitive disonance). Expert forensics of deep fakes after the fact are too late, not persuasive, seen as part of the conspiracy. People are tried in the court of public opinion - once a credible accusation of child porn is made, people judge and ignore any trial or additional info. State sponsored actors can probably hack anyone's computer.	
PART TWO: Experience Questions (from the pers	pective of "the person" experiencing the threat)	

Questions (pick two)		
	t or experience the threat? What events or actions led up to it?	
What is different and/or the same as previous eve When the person first encounters the threat, what will they see? What will the scene feel like? What will they not see or understand until later?	nts or instantiations of the threat?	
How will information be delivered to the person? Where and how will the person connect and communicate with others? (family, aid agencies, federal, state and local authorities, professional network)		
What will the person have to do to access people,	services, technology and information they need?	
What are the broader implications of a threat like	this? What might a ripple effect look like?	
Question One	What are the broader implications of a threat like this? What might a ripple effect look like?	
	Nobody is safe from slander, fake videos, information campaigns anymore. Societal trust goes to zero. We enter a post-truth world. The tech CEOs might get together and try to develop a unified solution. They might censor more content on their platforms. They could energize lobbyists and Congress to defend them. There could be a self-reflection by the tech companies where they agree to stop the "white guy problem"; they will do risk modeling to find knock on effects of new technology; they will include a multistakeholder group in all decisions about incentives/apps/algorithms. Perpetrators could see success and then move on to other groups, like politicians. Could spark a civil war Could use his social platform to go on the information offensive. Might unmask some people who were speading disinfo and give the information to law enforcement. If trust in law enforcement and government is too low, might engage a team of investigators to find the perpetrators and then have a team of hackers and info warfare specialists hack them or dox them.	
	Where and how will the person connect and communicate with others? (family, aid agencies,	
Question Two	federal, state and local authorities, professional network)	
	Probably will call the FBI. Hire a group of private investigators to generate evidence. Will contact his Congressman Have a difficult conversation with his wife; convince her the accusations are not true. Family and friends also. Might send messages out through his social network. Wont know who to trust - could be a rival company trying to undermine them.	
PART THREE: Enabling Questions - Adversary or Th	reat Actor (from the perspective of "the party" bringing about the threat)	
Questions (pick two)		
Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense, cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?		
New Practices: What new approaches will be used to bring about your threat and how will the Adversary or Threat Actor enlist the help of the broader community?		
	practices will be in place to enable the threat? How is it funded?	
	day that can be used to develop the threat? What future technology will be developed?	
Ecosystem Support: What support is needed? What	at industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	
	Barriers and Roadblocks: What are the existing barriers (local, governmental, political, defense,	
Question One	cultural, etc) that need to be overcome to bring about the threat? How do these barriers and roadblocks differ geographically?	
	The technology to create deepfakes is not controlled or monitored. These types of dirty political operations would need to be normalized/enabled in the US by domestic actors. Malicious foreign actors would need to be prepared for retaliation by the US, including military action. Malicious actors need to remain hidden from law enforcement Countries like Russia might be promoting this information and videos on mainstream media	
Question Two	Ecosystem Support: What support is needed? What industry/government/military/criminal elements must the Adversary or Threat Actor team up with?	

	Different groups are cooperating toward the same goal of attacking and undermining the tech	
	companies without formal cooperation. They are riffing on each others memes and messages. State	
	sponsored actors take the opportunity and send deep fakes videos and conduct hacks as targets of	
	opportunity.	
	There need to be a lack of circut breakers that prevent this kind of uncoordinated actions toward the	
	same goal	
PART FOUR- Backcasting - The Defenders (from t	ne perspective of the defenders)	
Examine the combination of both the Experience	Questions as well as the Enabling Questions.	
Explore what needs to happen to disrupt, mitigate	e and recover from the threat in the future.	
Gates:		
What are the Gates?		
List out what the Defenders (government, law enforcement, industry, etc) have control over to use to disrupt, mitigate and recover from the threat. These are things that will occur along		WHO?
the path from today to 2029.		
1	Industry can change the virality of information and slow the movement of disinformation on their platforms	Tech industry
	Congress could re-evaluate rules on free speech, difference between satire and slander; fair use of	
2	public footage	Congress
	Industry could be inclusive in developing algorithms so a diverse group of people determine what and and tools are incentivizing for	Industry
	apps and tools are incentivizing for	Industry
	Congress or industry could restrict the spread of deepfakes technology.	Congress/industry
	Industry and/or government could create new norms around the use of AI / incentivizing algorithms	Congress/industry
6	Could get rid of anonymity online	Congress
7	Could require data provenance - the origin of all data is known	Congress/ industry
8	Public education so people are aware of deep fakes and don't believe crazy videos (photoshop has been	Public/government
	A non-profit social network that stifles information operations, protects user data and expressly supports d	
10		
Flags:		
What are the Flags?		
List out what the Defenders don't have control over to disrupt, mitigate and recover from the threat. These things should have a significant		
affect on the futures you have modeled. These are things we should be watching out for as heralds of the future to come.		WHO?
1	First compelling/ convincing deepfakes video created	Tech industry and a malign actor
-	Successful distributed network information attack: multiple networks of actors - not necessarily	, and a mangin dotor
	ideologically aligned - attack the same person/company/organization without any explicit	
2	coordination, but operating toward the same goal of disrupting/destroying the target	Many
3	Level of societal acceptance or disbelief in disinformation/deepfakes	Society
4	Insular groups of technologists create apps that incentivize certain behaviors (yoga, wheatgrass smoothies) and disincentivize/punish other behaviors (pickup trucks, listening to rap music)	Industry
	Proliferation of social credit scoring systems - companies are all sharing scores they generate with	
	each other (like how marketing data is shared now) and so your scores follow you throughout life and	
5	incentivize/disincentivize your behavior. And since the scores are private sector, plentiful and ubiquitous they are very hard to avoid and correct	Industry
<u>ح</u>	ubiquitous, they are very hard to avoid and correct	Industry
Milostonos		
Milestones:		
What needs to happen in the next 4 years (2019-2023) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	Pro-democracy/pro-privacy norms and principles around AI and social scoring/incentivizeing systems are developed, widely accepted and used across the technology industry	Industry/ education system/ in partnership with government
2	We achieve herd immumity for deepfakes so people are skeptical (but then people will be less likely to believe real videos of misbehavior); a well produced deepfakes video is disbelieved by an overwhelming % of the population	
	Interactive PSA program that shows people videos and then they vote on whether it's real or not.	
	A public/private partnership that can quickly identify disinformation campaigns and contain them before they go viral; an international CERT network for counter-disinformation; government can't do info ops against US population per E0 12333; so this would have to be private sector	industry
4	into ops against os population per EO 12555, so tins would have to be private sector	muusuy
5		industry

What needs to happen in the next 8 years (2019-2027) to disrupt, mitigate and prepare for recovery from the threat in your future? What are our actionable objectives?		WHO?
1	Develop technologies for real-time detection of deep-fakes	industry; government
2	Eliminate most anonymity online for public brodcasts	industry government
3	require content provenance so you can determine the original poster of most content online	industry, government
4		
5		



## **POST ANALYSIS**

The information found in the following pages is raw data and has not been spell checked or edited in any manner.

Round	Team	Round One - "Summary"	Round Two - "Meaning"	Round Three - "Novelty"
1	Black Chip	Female (Anna) (Cuban) technologist w/ expertise in "exo-psychology" - tweaks people's brains on Mars mission. Ops (One Planeters) want humans to remain on earth - they want collaspe of colony. Eveyone on the colony walks outside without suits! OPS shape Anna's non-work reality exposing security and social vulnerabilities. GATE: Hardening against psychological manipulation destabilize. GATE: Hardening against psychological manipulation	NO FA - extremists use Disinformation to target specific scientists and family as well as colonists to manipulate	Extremists (nano target) - NANO
1	White Chip	Male (Latino) Texas holding referendum to suceed from US. Alt right and left are inflaming identity politics. The break will have economic and repercussion on minorities in TX as well as on the souther border. Male is a lawyer and his clients ask for new representation from person who is a "New Texan" Foreign entities fueling the break to create freedom of movement in Latin America. Puerto Rico, Somoa and Hawaii no longer trust US and pacific northwest climate radicals want to split. Mormos look to take pre-emptive steps, FLAGS: popularity of constitutional crisis and increasing conflict between local and national law enforement. Lack of recognized experts local and national media facilitating local echo chambers to be exploited by bad actor. Adversary works directly with alt right and left - deligitimizing national conflict resolution. Bot activity. Racial tension in states and schools. Community level conflict. GATES: Info, facts and narrative concerning common benifits of domestic and international leadership. Actively work to discredit alt right and left. Tech to identify algorithmic manipulation and flag mis and dis information. New ways to deal with conflict resolution	NO FA - tribalism is heightened by Disinformation - no truth - ANTI- FEDERAL	Anit-Fed and tribalism break up US - WORST - NO FA
1	Blue Chip	Male (Republic of Srpska) Sasha. Influence politicioans uses weaponized mems to drive and promote conservative/ight - memes kick off self sustaining cycle of violence against minorities and rejection of western democratic values - USA and UK weakend influence. Russia becomes arbitrator for new leaders across Eastern Europe, South Am and South Asia. Nationalist leaders and malign media narratives play on ethnic tensions. Sasha sees meme about violence on Serbians from Bosnians and social media call for violence. FLAG: social media application and closed platforms coopted by goviment networks.	FA undermines US/UK influence - uses ethnic tensions to incite violence	FA (kinetic violence) WORST (ethnic) US weakened in Europe - NANO
1	Green Pawn	Female (Lily) single mother and small biz owner. Iowa. Small town. Corporate entity that is the agent of a foreign state wants farm. Lilly's is targeted personally. Her husband is influenced to leave her and influence in local town and church makes people questions Lilly's influence. Foreign government wants to ruin her life, get the farm land/IP, obtain her growing techniques and technologies either to utilize for their own corporations' operations or to bury to maintain the status quo. (Carol) foreign agent married George and has influence in local chuch and community. Lilly's kids affected social media and her bank account and driver liscence are disrupted. FLAG: personalized targeting directed at person and family members in different ways.	FA uses business entity in the US - micro targets citizen and family to break up family and discredit citizen in community (church) Digital and physical FA influence	FA/Bus (digital+physical manipulation) - NANO - BUS
1	Purple Pawn	Female. Yuma AZ. Chaos and breakdown of economic and socail order. lack of jobs (structural unemployment) and opportunity, impowerished neigborhoods (lack of services, fresh food, low quality public space, leading to lack of security). This leads to desire for authority, someone to try to fix it as well as public health crisis. Uncertainty leads to overthrow of government, breaking down food supply chain. Martial law and isolationalism. Border wall is digital but with tunnels underneath. US citizens occasionally cross to Mexico for unregulated healthcare services and to smuggle in medication. Children typically grow up with a single parent or grandparents vevin if parents are living in the same community. They have arcived confusion and fear. Given lack of resources, social trust and relatiosnhips have broken down. Decline of US incluence in global everything (political, economic, alforsutor, and or autorits, Lack of values (its declaratory, not lived), communication& discussion space, aplified by shallow and superficial mass comms platforms	FA uses economic and social order breakdown. ADVANTAGE - lack of resources, social trust and relationships break down. Globally US influence declines creating a vacuum	Economic circumstances leads to breakdown FA can step in on global stage
1	Grey Pawn	Gen Z - digitla native Online meme-based Texas secession movement based on disputed 2028 federal election results and increasing divergence from "coastal" zetigeist - Mobile media balkanized by aggressive filter bubbling; narrow narrative frame; anti-federal government sentiment; guazy nostalgia - localism - loss of federal gov counter narratives - computational amplification with A/B teasting - GATE Feneral government counter narrative, skeptics	FA uses Texas secession stemming from 2028 election contention and internal between right and left factions - computational amplification with A/B testing - anti-federal sentiment	FA w/ Anti-Fed (nano targeting) - WORST - NANO
1	Orange Pawn	(female) Asian-American Journalist - LA - works for Chinese business media company - friends are diverse but family mostly Chinese - She has been asked to write a series of damaging articles (information both true, but damaging and untrue) about Amazon with the intent to influence its stock price (destroy investor confidence) so that it needs to sell to China, who will then have access to all consumer data and cloud-based web servers. Agreements Amazon has with DOD, etc., other government agencies, are now potentially available to China. The adversary wants to achieve technological, financial and intellectual property, as well as leverage over the US govt. The instruments of national power via information (technology, IP, consumer data) and economics. Consolidation of cloud-based services, the ownership by corporations of massive amounts of customer data, the stability of the US stock market; Chinese acquisition of Amazon as a result of market chaos partly induced by Debbie's articles would further exacerbate the technological off-shoring of US IP and tech know-how; and also expose the US government to massive amounts of US DOD data and communciations)	FA uses US business entity uses US journalist to for misinformation about Amazon, affecting stock price allowing FA to purchase to gain technological, financial and IP superiority	FA + BUS - use economics to destability Fed
1	Brown Chip	(female) hispanic 28 - peaceful split up of the USA into Red and Blue America via ballot propositions exposes the exterme polarization of the USA. Ms. Doe who leans toward Blue is worried if her state goes Red - lack of federal funding for local services and loss of confidence in economic drivers	R/L tentions lead to peaceful split up of US via ballot proposals - NO FA	Anti-Fed (peaceful split) WORST (NO FA)

*	1	Black Pawn	(female) Penelope San Francisco - teenage girl is finishing high school who is coming of age in a time when there are no certainties of "truth," and there's no "off." She's been swayed her whole life by narritives that are informed by half or false narratives. She's never really developed her own point of view, spending more time reacting to input rather than shaping it herself with original thought. She's looking at what's next for her path once she's completed high school. Her sense of truth has no boundaries, no guidance, no foundation. She has lived most of herr life responding to memes, stories, narratives that were fed to her, without guidance and practice on how to analyze, interpret, and internalize what it means to her. Most of her education has been through user-generated, online, real time content. Throughout her life, she's experienced the continued development of deep fakes influencing major societal outcomes. Facts blend with fiction, and she can't tell the difference. Given that Penny has had so little practice developing her own voice and argument, she suffers from depression and massive self esteem issues. She's lacked role models who demonstrate a measured and thoughtful approach to engaging with the world. As she prepares for adultbood - for launching from her family's care - she's rutterless. In desparation, she "forces" causes on herself for direction, but snaps back into depression when she can't find authentic connection. The tech companies are alleady doing this - they are creating addition devices. fueled by addictive "drug-like" experiences. This is very little regulation or self- policing of the development of these potentionaly destructive devices. The government is woeffully behind in understanding the true nature of this emerging threat, and in many ways, complicit in furthreing the threat. Scientific faulties take too long to come back with conclusive guidance and evidence on the impact of this relentless input on the developing brain. FLAG: Ubiquity of fals	NO FA - weakening of society via lack of	Weakening of society
	1	White Pawn	(male) China Xi Jinping - The Authenticity Revolution against the ancient regime that seemed so triumphalist in 2019 - China experiences The Authenticity Revolution. "Never trust a reality you can't touch." "Never trust a 'reality' that is multiplatform and multimedia." "I don't want to live in these fake cities." "Fake food." It's the calling bullshit revolution. A return to spirituality. (Confucianism nostalgia?) Status symbol: Shinola watches. Xi Mingze – Xi Xinping's daughter, Handmade in China, Artisanal movement in China, Fake news/cities/jobs/communism/lives, "I'm taking the stairs" as an act of resistance, propaganda that you can believe in	NO FA - The Authenticity Revolution - as a reaction to surveliance and maniputilation -	Truth as weapon
*	1	Blue Pawn	(female) 29 Erosion of narrative of western liberal democracy, regulatory failure, industries based on trust fail (example - medical) predicated by weaponization of narratives, weaken society, make less resilient → Shock – pandemic → nation states fail. The Event: A catastrophic global pandemic is experienced worldwide placing a severe need on medical workers. Ten years of narrative campaigns has deteriorated trust in the health care system leads to ineffective treatment of the disease. Lack of trust	NO FA - Catastrophe (pandemic) mis/disinformation erodes trust in governemnt = ANTI-FEDERAL	Anti-Fed (catastrophe) - WORST - NO FA
*	1	Red Pawn	18 year old US about to vote - Chinese companies have bought USA text book companies and influence on AI driven educational system. Slowly and subtly putting pro China information. Their peers, family, community and country are involved. China wants a generation to have pro-China views and anti-USG views so they can take opercive military and economic action in E Asia and Africa. China wants Generation Z to think its not essential to live in a democracy; that the Chinese model is superior. China wants their international image to be positive; is afraid of being seen as manipulative/wil. They want the US divided and focused on internal sqabbles; they want democracies divided - When China takes action in Asia - two politicians on wants to push back the other looks to appease. Ripple effect is that its almost impossible to get Generation Z to change their belief. No longer support for promoting democratic values worldwide. Tolerance of authoritarianism. FLAG: China dominance US companies, mandate tools to identify manipulative actions in A and tech, Congressional comission on data, info sec, online manipulation, parents educations	FA uses US business entity to use AI to manipulate education system - youth becomes pro-China allowing FA to operate freely. Eroding from the inside	FA + BUS - use education to destability Fed
	2	Black Chip	(Male) retired military - Phoenix - unemployable - was a teacher - Helicopter parents choose certain AI tutoring systems that can shape their childrens' identities to fit a particular tribal norm, world view, or pathway to success. Some of these AI tutoring systems have been co-opted by the "wings" of politics (alt-right, alt-left, theological, etc) and are creating very distinct thiose who will not see eye to eye. Truth becomes only as wide as the tribe and the constructed identity allows. Pete becomes unemployable because he has an obsolete vision of what education is and his online identity (which is the only one that now matters) does not have the "credentials" to belong to a tribe. He is the "universal other". The "adversary" is the constant pressure from other tribes who are trying to "capture" the identities of impressionable children from other tribes. Constant war of all-against-all with the goal of shaping children's identities. Tribalism becomes the norm, FLAGS: public perception of federal gov, trust in traditional knowledge development fails GATES: adoption of safe AI, mandatory draft for unifyed purpose, valid 3rd party in gov, financial security of public school, discourse and disagreement acceptable	NO FA - erosion of truth leads to tribalism and ANTI-FEDERAL	Anti-Fed - WORST - NO FA
	2	White Chip	(Male) CEO of quantum tech company - While negoting with a tech company in Paris to leverage their collective S&T investment, a Deep Fake (real time teleconference manipulation) is empoyed by Finland to order a shift in partnership to move all the quantaum communication intellectual poperty a competitor in Finland. Security of communication, inadequete and obselete regulatory framework. Intellectual propery laws and legal framework are obselete and cannot keep up with modern business cycle and tech driven deals. Vunerability to semi-closed peer networks that have high trust but can have misinformation campaign within the echo chamber that is biased towards action. FLAGS: realtime deep fakes, intel community signal industril espionage GATES: Secure comunication netowrks and cooperation, education of limits and detection of deep fakes	FA uses deep fake to steal IP and technology in real time from BUSINESS	FA (steals Bus IP) BUS
	2	Blue Chip	(female) State driven disinformation campaign driven through highly trusted social influencers with an aim of destroying trust in election, ends up causing violence on both sides. Disinformation includes deep fakes and inflammatory allegations fueling a sense of a life-or-death political struggle. The Adversary seeks to further destabilize the United States and formert widespread violence, so that Russia has greater ability to formally annex its former terirtories (that it has not annexed already) 1. Influencers become media without ethical standards (like journalistic standards) 2. Influencers are mostly funded by countries and companies 3. Humans are incapable of distinguishing deep fakes from reality 4. People have grown up believing (and being willing to act on) biased information, including distortions and deep fakes that support their views FLAGS: influences partner with foreign govs. CATES: crack down on influences, fact checking - Political switch to coexist and partner, rejection of disinformation proxies	FA uses influences to destroy trust in election - population destabilized via deep fakes and narrative allowing FA to operate freely on global stage	FA created Anti-Fed - WORST

			(female) Like atotus in the community makes have high units to set from the		
*	2	Green Pawn	(female) Lity's status in the community makes her a high-value target for multiple entities. Local energy and water firms are trying to buy her and George's farm for the land, as is multinational lobby SoyCo - which already has interest in most of the farms in the area, and whom Lity has spoken out against in the past. A corrupt group within an existing political party wants to gain voters, and has identified the mother, Lily, as a possible 'swing person', where if she were to openly and expressly support their presidential primary candidate they would win the seat. 1st: George seemingly abruptly leaves Lily for Carol, a younger community member who is also the daughter of SoyCo's U.S. representative. 2nd: Lily's farm, Smythe Soy, loses some (but not all) intellectual property via George abdicating with it and giving it to Carol, who, it becomes apparent to Lily, is an agent of SoyCo/PRC. 3rd: Tom (Lily & George's 13 year old son), is the subject of vicious cyber attacks, troll farming directed at 'befriending' Tom and directing him toward certain coping mechagnisms (as he is desperate for positive reinforcement amongst his peers), which has cultivated addiction through augmented reality to first online gaming and later pom. He is ostracized from his friends group at school and falls into a deep depression. Meanwhile, Lily is subjected to unbenownst to her, a personalized social engine-ring-based propaginan campaing nushing her to endore the Soy Lobby's Presidential Primary Candidate. Multiple adversaries from all sides - Pickens Holding (wants the land), SoyCo (wants the land and to kill the Intellectual Property, and to silence Lily's advocating against them), PRC (major Inder of SoyCo, wants to obtain the I.P. for use on a global scale, dominate U.S. Soy Industry), Soy Lobby & Presidential And professional life - Counter misinformation mailitias - FLAGS: omnipresent advertising and self-directed Al bots, foreign governments purchasing American farmland GATES: increased awareness	(expanded from GP1- FA uses US	FA + Bus (w/ physical element - Nano target) NANO
	2	Purple Pawn	(male) young robotics engineer. Non-binary community. Living digitally - lives in bubble as robots and online proves all contact. Instead of creating, discovering innovating and thus driving economy, they're in a bubble of their own making. However, all of this is controlled by external servers that run autinomous decidsions (AI) with little consideration for security of connections. Therefore, a man-in-the middle can easily take over running this life withjout detection, causing a meltdown with no social support structure to catch it. Automated communication and 'fake friends'. Influence those on social media to spend more time interacting with fake friends and then have the subject realize that he has distanced himself from his 'real friends'. This takes an emotional toll. Causing the alienation of social groups and minorities by soreading weaponized narratives about them. FLAGS: unregulated human like robots, corp use only digital comms, unregulated foreign entity on social media, social media fireds (non AI)	NO FA - erosion of citizens ability to interact, flourish - synthetic humans - alienation of social groups and minorities	Weakening of society
	2	Grey Pawn	(female) caucasuan mom with infant child and SE Asian spouse - Corona outbreak and misinformation about its spread by unknown state actors. The very beginning of the event for Sue is conversitations with her mother-in-law in Cambodia. Mom tells sue about numerous personal cases of Corona that she knows about, but the Cambodian continues to insits there is no outbreak. Days later, after the first US case is announced, she begins to network among her friends, many of whom are also new moms. In those conversations, she hears rumors that children, especially infants are super succeptible to the strain, which is often fata. Soon after panelists on the View have a similar conversation. Nearwhile the mother begin to suspect that the government is under-reporting the spread. Based on her conversation with mom. Suc reinforces this belief among her network, Following up on that, she does search-guided internet reaserch that takes her into a threat-actor SEO propomoted youtbue rabbit hole, claming that these conspiratorial beliefs are correct. As she shares this research with her network, fear and irrationality spread. Eventually, kinetic solutions such as a self-imposed quarantine are proposed. FLAGS: lack of tech to stop outbreak tool for misinformation, disease outbreak GATES: deploy counter narratives, communal global fact checking, laws around medical misinfora	NO FA - Catastrophe (pandemic) mis/disinformation erodes trust in governemnt = ANTI-FEDERAL	Anti-Fed (catastrophe) - WORST - NO FA
	2	Orange Pawn	(female) doctor - Texas - The deep fake videos have gone viral as fact across IoT of Connie performing an illegal abortion. Control of both houses of the U.S. Legislature are up for grabs between Democrats and Republicans. Protests between opposition groups are occurring in front of the clinic where Connie works, both virtually and physically based on beliefs that the videos are true. Second order effects cause mass violent confrontations between opposition groups and local/state first responders are overwhelmed. Governors declare marshall law, deploy the National Guard, and the President signs executive order shutting down networked platforms. These same platforms are used to organize political support for Connie's advocacy group (PP) at the polis. Platform shutdown denies government information organizations the ability to communicate the videos fakeness to the mass (public diplomacy). A swarm of Al driven deep fake videos used as part of a nation-states IW campaign against the U.S. Connie's family is doxxed, leaving her family, co- workers, and friends vulnerable to the retribution of anti-barborin activitis. The want sow mass chaos and polarization to distract the U.S. while attacking a neighboring country. GATES: Education for public about consumption of networked information, legislation and technology to regulate	FA and Extremeists - deep fakes used to expanded contentious issue (abortion) leads to violence	Extremists (leads to kinetic) - WORST - NO FA
	2	Brown Chip	(male) NOAA scientist - San Diego - natural disaster but boyfriend in coma and displaces him - nonotargeted deep fakes - radicalize him - Russia sees opportunity to engage in environmental terrorism by stoking the flames of divide in the U.S. after a major weather event. GATES: NOAA (employer) and local goverment resillancy, rapid response team to expose deep fakes and mis information during catastrophese	FA uses Catastrophe (hurricane) to nono- influence citizen and destabilize US	FA uses catastrophe to create Ani-Fed (nano targeting) - WORST - NANO
	2	Black Pawn	(male) President Crowe – Phoenix - education can be implanted - Higher ed is under attack everywhere. Student enrollment is down considerably. Faculty salaries and benefits need to be paid, so debts are rising, limiting investment in new research and teaching. State funding is down. Faculty are being picked off by industry. Research is being taken over by private industry. Buildings are empty. The biggest threat is irrelevancy, and ultimately solvency. What can you distinctly offer students, faculty, and ultimately society from a higher ed degree/experience. It also exposes students to questionable "education" what are the quality metrics of what constitutes high value secondary education? If students go towards highly personalized education, they choose their subjects and sources. Are they verified? Are they based in in foundational knowledge? What are the standards? Students fail prey to "deep fake" degrees. FLAGS. Rise of private alternative degrees, culture shift toward, companies no longer value college GATES: Offer financial incentives, lower cost, watch enrollemnt	erodes US	Weakening of society (education)

	2	White Pawn	(female) China Zhang logs on Monday and realizes that "logging off" has become a meme of authenticity that has spread virally. Subsequently she receives a hand delivered letter by one man in a black suit where she is summoned to meet with the Minister of Wanghong. Zhang didn't mean to become a symbol that would launch a revolution, she just wanted some for here secret life, but what she didn't realize is that she set off a red alert in the regime that triggered her team, handlers, and representatives to urgently contact her while she's off the reservation. She has cut off her data for the weekend. "All human beings have three lives: public, private, and secret." (Gabriel Garcia Márquez) Authenticity becomes the threat and China begins developing counter insurgency TTP's towards authenticity. Lats led up to this. But this was the canon shot that made this a war. Paranoia builds in the regime as the government realizes that the data centric bondage mechanisms are coming unmoored. Governments that have built hyper digital and hyper surveilled societies begin to realize that the greatest threat to their stability are humans – humans are the malware in the system. The instability in China puts up the red flag that authoritarian regimes around the world should take notice. The global powers including the US have to make a decision about how they will respond to this new viral disease that attacks the underpinning of their authority, power, and economy. FLAGS: public unaware Chinese gov access to data, ability to influence and use surveillance algos GATES. Weaponize authenticity - establish authenticity as a pillar of democracy, digital addiction seen as health emergency. The cloud is not your fried. Never trust a computer you can't liff."	NO FA - War on Authenticity fueld by public unaware of gov access to data, ability to influence and use of survelliance algos	Truth as weapon
	2	Blue Pawn	(male) 45 - military commander - recruiting officer - Recruits are not signing up/backing our. Trust in the military as an institution has been eroded - LTC Smith has consistently missed mission and is not able to provide recurits to the force. People do not want to join the military because doctored video / photos show that the Army is an "evil" organization. Potential recruits have grown up in a world as the reason of every military action has been undermines as a false flag or a hoax - Russia takes action in Poland and uses disinformation and deep fakes to create uncertainty. A lenhanced/manipulated video, photos, audio. Person-based interactive bots "aka weaponized customer service bots" that cannot be identified as bots. Al generated photo, video, audio. In VR, Real person creates digital clones to engage individual citizens. GATES: Digital resiliance campaigns	Erosion of trust in military (ANTI- FEDERAL) weakens US and allows FA to operate in EU using disinforamtion and deep fakes to cause a split in option/truth in the US	Anti-Fed give FA takes advantage to expand operations - WORST - WEAKENING
*	2	Red Pawn	Imate) tech executives - San Francisco - Congress attempts to regulate the big tech/social media companies. Regulation fails and conspiracy theories circulate disinformation that the tech companies were manipulating socal media in order to kill regulation. Radical extremists on both sides accuse technology companies of engineering social outcomes that are dispicable. Deep fake videos circulate that supposedly show tech executives having conversations where they are discussing how they manipulate the public. This generates a broad public resentment of tech companies and extremists start assassinating technologists. Several tech CEOs are killed or die under questionable circumstances. This disinformation is circulated both by domestic extremists but also by malign foreign actors. Extremists want to keep the tech companies from engineering social outcomes they don't like. Foreign actors are trying to cause social discord and undermine our tech sector and economy. One hacker group is actively trying to forment a civil war in the US. Extremists are frightened of tech companies enforcing diversity / hegemoy. They see a "white guy problem" where small numbers of people at tech companies are coding apps/Allagorithms that incentivize certain behaviors (yoga, drinking smoothies) but disincentivize other behaviors (not-vaccinating your kids, driving a pickup truck). They see this as techno-authoritarianism. Foreign actors see tech and innovation as the source of US power and are afraid of companies to enforce/incentivize US (or white guy yatues. The civil war hackers want to spark a hot war that they think 'their people" can win. FLAGS: rise of enabling technologies, cultural acceptance of deep fake, insular groups incentivising certain behaviour over other, GATES: Pro-democracy/pro- privacy norms and principles around A1 and social scoring/incentivizegi systems are developed, widely accepted and used across the technology industry	FA and extremists use deep fakes and disinforamtion to taget business (tech) executives. Destabilize tech sector	FA and extremists nano target business destabilize tech sector/Fed - WORST - NANO

Label (goal of 7 +/- 2 labels)	Description/Definition	Indicators or Flags	Examples	Exclusions & Special Conditions	What is the dependent variable(s)?	What are the sample groups?
FA (Foreign Actor, Foreign Adversary)	Non-US entities who wish harm to US values, practices, standards					US actors vs non-US actors? Political vs. business vs. civil actors? Advantage vs. Disadvantage? Broad vs. Individual targeting? State sponsored vs non- state sponsored? Do our themes differentiate these samples groups?
Anti-Federal	Any person or party against the current establishment of government; does not have to be hostile, violent, or malicious					
Advantage	Creating an opportunity that takes away from other actors					
Business	Actors with the goal of furthering aspects of business advantage including profits, market share, intellectual property, etc.				Degree of threat (is this probability or consequence = a risk	
Nano	Targeting people at the specific and individual level				factor?)? Timeliness of threat?	
Worst	Using the worst part of ourselves against ourselves					
Weakening	A created state or environment within the US that weakens or chips away at the entire US as it is currently structured and valued (e.g., education, secession from Union, children coping in society, prominence on the world stage, etc.)					
	information is shared, but no harm is mean					
Dis-information is when false i	nformation is knowingly shared to cause ha	arm.				

Mal-information is when genuine information is shared to cause harm, often by moving information designed to stay private into the public sphere."

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