

The Futures School



NETWORK ADVISORY COUNCIL

The Futures School

The Futures School (TFS) is a global development ecosystem whose mission is to democratize foresight. Through learning events, professional certification and custom engagements, TFS empowers individuals, institutions, organizations, and governments to adopt foresight as their 21st century operating system.



THE FOLLOWING CORE BELIEFS SET THE FOUNDATION FOR THE FUTURES SCHOOL:











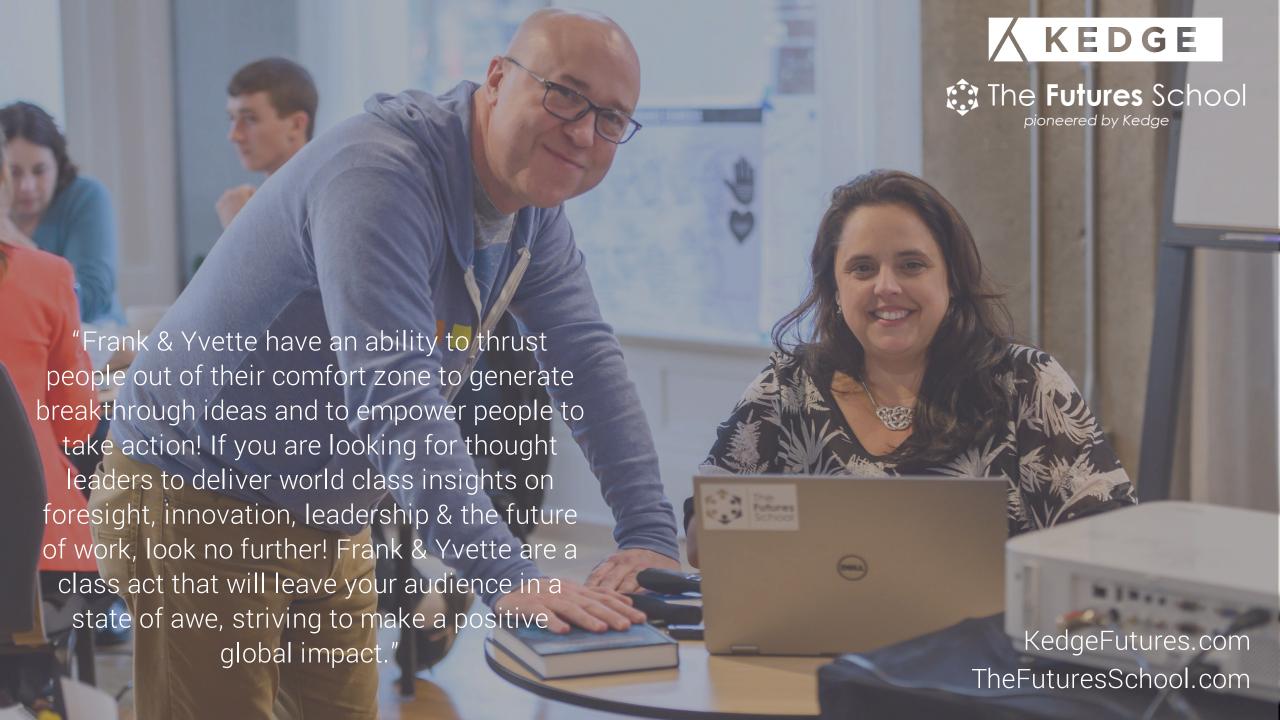
















DEMOCRATIZE FORESIGHT.





Agenda

	9:00	9:30	30	Welcome and Introductions
	9:30	9:40	10	A Futures Thinking Exercise
	9:40	10:05	25	Introduction to Strategic Foresight
	10:05	10:15	10	Adaptive, Resilient, and Transformative Leadership (ART) Quiz
	10:15	10:30	15	Break
	10:30	10:45	15	Debrief Quiz and ART Scenario Exercise Set Up
	10:45	11:30	45	ART Libaries Scenario Exercise
ı	11:30	11:45	15	ART Scenario Exercise Discussion
	11:45	12:30	45	Lunch
	12:30	12:45	15	Discover: Assumptions & Biases
	12:45	13:30	45	iSee: Headlines from Today
ı	13:30	14:30	60	Explore: Trends and Insights
	14:30	14:40	10	Break
	14:40	14:55	15	Map: Narratives and Landscapes
ı	14:55	16:10	75	Futures Wheels
	16:10	16:20	10	Break
	16:20	16:40	20	Create: Integration and Outcomes
	16:40	16:50	10	Revisit ART Scenarios
	16:50	17:00	10	Session Wrap Up and Questions

Introductions

Please share:

Your Name, Role & Library

A word to describe the future



Pre-Work

A FUTURES THINKING EXERCISE

Before beginning your foresight journey, it is helpful to first uncover how you personally think about the future. Complete this exercise from an individual or a professional perspective; if your foresight efforts are team-based, use this questionnaire to initiate a discussion about the future.

1. If you could pose three questions to a clairvoyant, what would you ask?

2. In the best possible world, what would you hope for?

3. In the worst possible world, what are your greatest fears?

4. What pivotal events from the past few years have provided you with the

5. What major decisions with long-term implications do you face at the moment?

6. What major constraints are you experiencing inside and outside of your

7. If all constraints were removed and you could direct what is done, what would you do?



.....



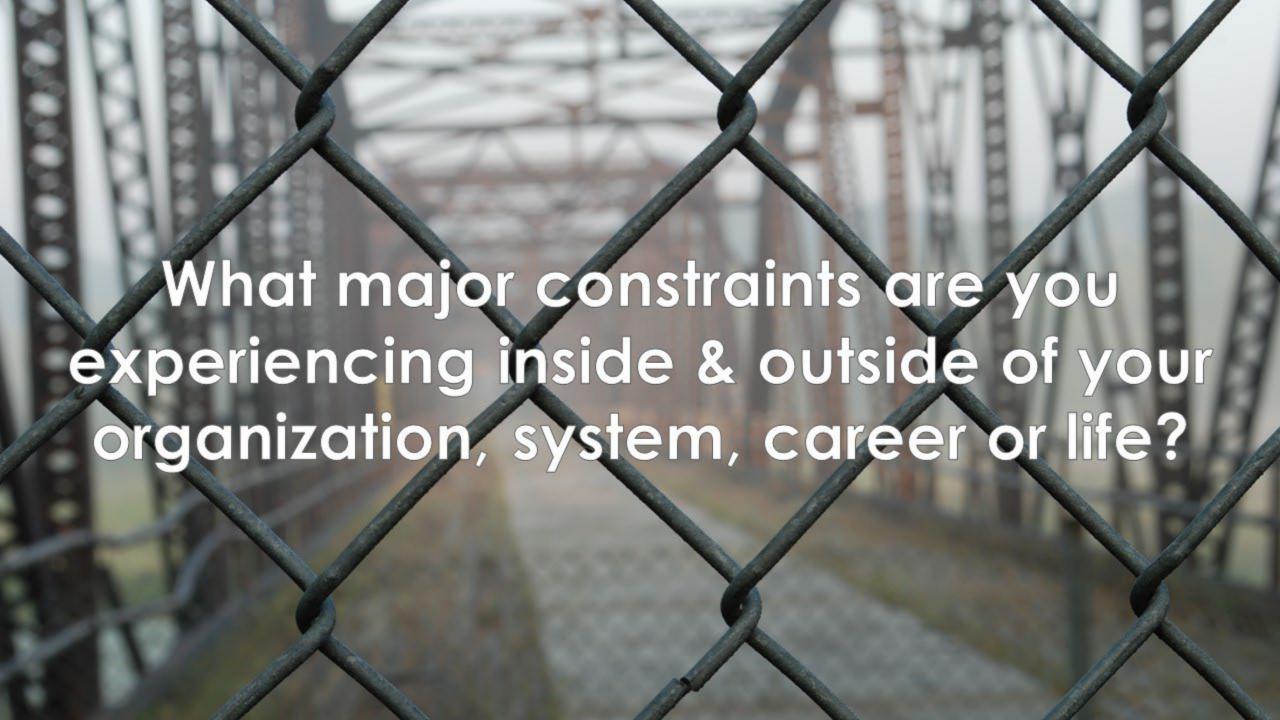
patername to building reand opportunity through a paterna Paterna throwing accords forwages provide

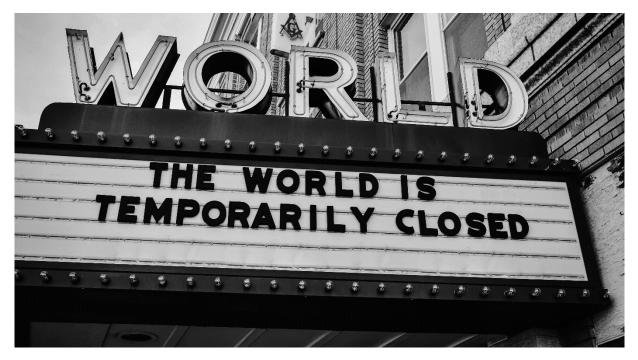
- Define strategic formig business imperative for
- Describe the push and p how leveraging both ene spectrum (trends and as
- Provide guidance on put foresight into practice.
- Explain how applying the framework can help unlo mindset.

WHAT IS STRATE FORESIGHT?

Strategic foresight is a decadesthat allows us to create function alternative futures and possibility this process, organizations are befor potential threats and are able on hidden opportunities. While not predict the future, foresight allow the external environment for treatment f

Strategic foresight and its most scenario planning, have been used the corporate planning level for de-famous example being com-









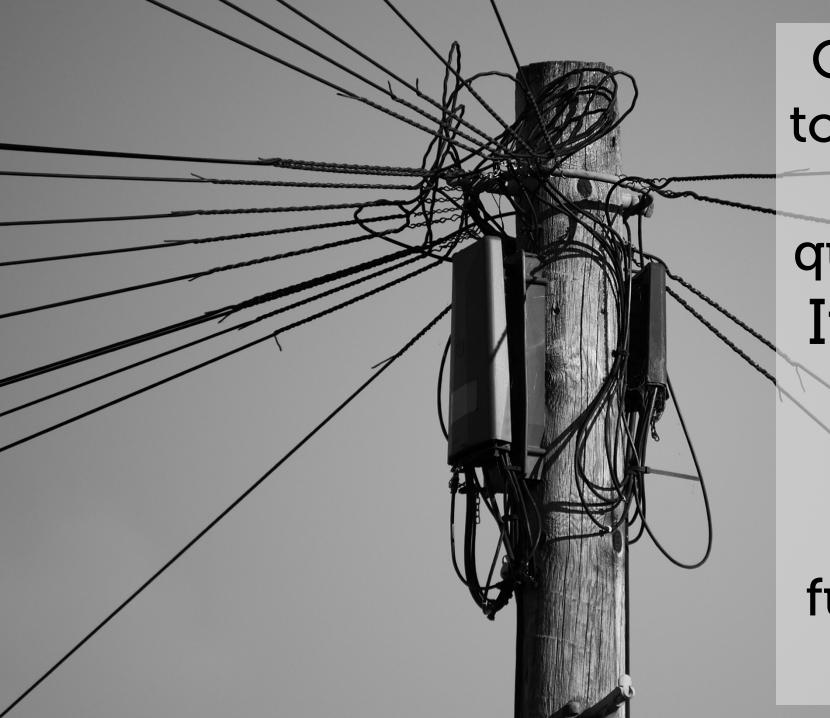






If all constraints were removed, and you could direct what is done, what would you do?





Our present-day tools, models, and processes are quickly becoming Industrial Age relics...

Something fundamental has changed!

We have entered the ...
Postnormal Society



A great shift in human and organizational development...what we once considered "normal" is not coming back.





VOLATILITY

Progress is exponentially increasing in ever-shorter intervals of time.



UNCERTAINTY

The variables in a particular situation are defined, but the values are unknown.



COMPLEXITY

Multiple drivers of change colliding to create new challenges and new opportunities.



AMBIGUITY

The variables here are not defined: the unknown uknowns.

kedgefutures.com © Kedge, LLC 2020

Dealing only with today's problems leaves us weakened. Strategic Foresight acts as an Immune System...

Identify potential threats and emerging opportunities

See new perspectives

Provide context for present-day decisions



Illuminate unexpected implications

Test possible outcomes

Ensure we are not vulnerable & unaware of challenges

Strengthening our collective capacity to deal with what actually happens.

We Cannot Predict The Future But...





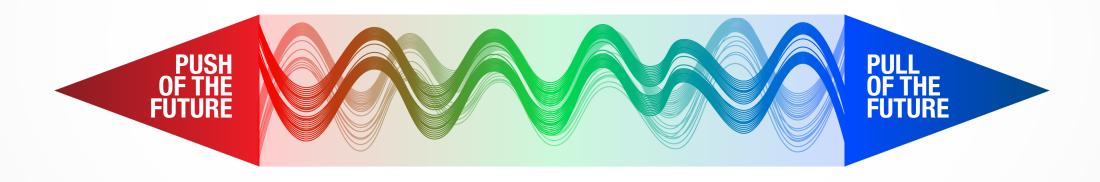
Future planning in our current volatile, uncertain, complex, and ambiguous environment requires us to leverage both quantitative and qualitative approaches.

Research + Creativity + Data + Intuition = Strategic Foresight

Foresight allows us to mine the **external environment** for trends and leverage those insights to create maps of the **emerging landscape**.

PUSH AND PULL OF THE FUTURE

Most of us focus solely on the **Push of the Future**, forced into a perpetual state of reacting to trends and emerging issues. Conversely, the **Pull of the Future** provides the framework to intentionally act upon our preferred futures.



Strategic Foresight allows us to leverage both ends of the futures spectrum in order to **discover the future and create it - today.**

kedgefutures.com

WHATIS STRATEGIC FORESIGHT?

Strategic Foresight gives us a framework to identify emerging trends and issues, and then use this insight to map out possible futures. These well-informed maps of the future allow us to test our current strategy, develop breakthrough innovations, and create transformative change.

WHEREUSED

Foresight is leveraged across all sectors, industries and functions.



GOVERNMENT N



CORPORATE



₩ ₩

START-UPS

WHEN IS IT

Foresight should act as an organization's operating system, running in the background of all processes.



STRATEGY



INNOVATION



CHANGE MANAGEMENT



PERSONAL DEVELOPMENT

HOW IS IT USED

The Natural Foresight® Framework includes tools like environmental scanning and scenario planning.



DISCOVER



'ER EXPLORE



MAP



CREATE

WHY IS IT USED

Foresight allows us to thrive in a volatile, uncertain, complex, and ambiguous environment.





ADAPTATION

RESILIENCE



TRANSFORMATION

About Kedge

We help our clients to thrive in a world of complex ideas and practices, uncover emerging trends on the horizon that will impact their business, and discover unseen opportunities for strategic advantage and development.



IS STRATEGIC FORESIGHT?

Strategic Foresight gives us a framework to identify emerging trends and issues, and then use this insight to map out possible futures. These well-informed maps of the future allow us to test our current strategy, develop breakthrough innovations, and create transformative change.

Foresight is leveraged across all sectors, industries and functions.



GOVERNMENT



CORPORATE



START-UPS

Foresight should act as an organization's operating system, running in the background of all processes.



STRATEGY



INNOVATION



CHANGE MANAGEMENT



PERSONAL DEVELOPMENT

The Natural Foresight® Framework includes tools like environmental scanning and scenario planning.



DISCOVER



EXPLORE



MAP



CREATE

Foresight allows us to thrive in a volatile, uncertain, complex, and ambiguous environment.





ADAPTATION

RESILIENCE



TRANSFORMATION



Strategic Foresight acts as an immune system within our organization, allowing us to create multifaceted strategies that are effective no matter which future emerges.



In this era of rapid and accelerating change, it is impossible to achieve true innovation without developing long-term thinking and uncovering alternative future possibilities.



In our VUCA world, change is an ever-present factor, and organizational cultures that are not open, resilient, and future-empowered will struggle to survive, let alone thrive.



Rather than relegating our career development efforts to an isolated, annual exercise, we must create several divergent narratives that will allow us to be successful at any crossroads.

thefuturesschool.com © Kedge, LLC 2020

IS STRATEGIC FORESIGHT?

Strategic Foresight gives us a framework to identify emerging trends and issues, and then use this insight to map out possible futures. These well-informed maps of the future allow us to test our current strategy, develop breakthrough innovations, and create transformative change.

Foresight is leveraged across all sectors, industries and functions.



GOVERNMENT



CORPORATE



NON-PROFIT



START-UPS

Foresight should act as an organization's operating system, running in the background of all processes.



STRATEGY



INNOVATION



CHANGE MANAGEMENT



PERSONAL DEVELOPMENT

The Natural Foresight® Framework includes tools like environmental scanning and scenario planning.



DISCOVER



EXPLORE



MAP



CREATE

Foresight allows us to thrive in a volatile, uncertain, complex, and ambiguous environment.





ADAPTATION

RESILIENCE



TRANSFORMATION



DISCOVER

Assumptions and Biases

Uncover personal and organizational assumptions around a focal issue with tools like:

- Unconscious Bias Modeling
- Ladder of Inference
- Causal Layered Analysis



EXPLORE

Trends and Insights

Identify and interpret emerging trends, patterns, and clusters with tools like:

- Environmental Scanning
- Qualitative Predictive Analysis
- Probability/Impact Matrix
- Pattern and Sense-making



MAP

Narratives and Landscapes

Design sets of divergent, provocative maps using creativity, data, intuition, and research with tools like:

- Scenario Fields
- Futures Wheels
- Scenario Planning



CREATE

Integration and Outcomes

Define, design, refine, and reframe strategy, outcomes, and actions with integration into:

- Strategic Planning Processes
- R&D Efforts
- Change Management Initiatives

kedgefutures.com © Kedge, LLC 2019

IMPLEMENTING NATURAL FORESIGHT®



UNCONSCIOUS

BIAS MODELING

Recognize assumptions

& uncover deeply-held

metaphors.

EXPLORE



TREND PRIORITIZATION

Analyze impact of trends, identify issues, & envision implications.



Cluster trends, values, & implications into emerging landscapes of change.









SCENARIO BUILDING & PLANNING

Create multiple alternative worlds & future artifacts to inform decision-making.



STRATEGIC DESIGN

Define, design, refine & reframe strategy, outcomes, & actions.

SCANNING: Look for trends, weak signals, & counter-trends.

kedgefutures.com © Kedge, LLC 2019

IS STRATEGIC FORESIGHT?

Strategic Foresight gives us a framework to identify emerging trends and issues, and then use this insight to map out possible futures. These well-informed maps of the future allow us to test our current strategy, develop breakthrough innovations, and create transformative change.

Foresight is leveraged across all sectors, industries and functions.

NON-PROFIT

START-UPS



GOVERNMENT



CORPORATE

Foresight should act as an organization's operating system, running in the background of all processes.



STRATEGY



INNOVATION



CHANGE MANAGEMENT



PERSONAL DEVELOPMENT

The Natural Foresight® Framework includes tools like environmental scanning and scenario planning.



DISCOVER



EXPLORE



MAP



CREATE

Foresight allows us to thrive in a volatile, uncertain, complex, and ambiguous environment.





ADAPTATION

RESILIENCE



TRANSFORMATION

The ART of VUCA Leadership QUIZ

Find out if you're an Adaptive, Resilient, or Transformative VUCA leader.

Navigate to: https://bit.ly/VUCA_Quiz













BREAK

THEFUTURESSCHOOL.COM



Resilient – How do we survive the wave of change?

You focus on the immediate future so that your organization can **survive day-to-day**. No matter what happens, you're able to **recover quickly and keep going**. You **avoid taking unnecessary risks**.



Adaptive – How do we ride the wave of change?

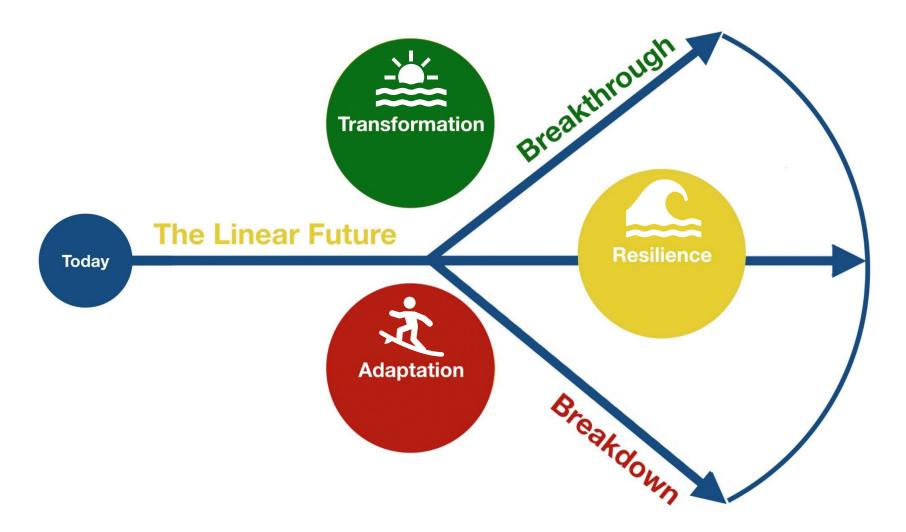
You keep an eye on the near future so that you aren't caught off guard -- and even when you are, you're able to pivot and find another path. You are able to learn and change your behaviors to adapt to a changing world.



Transformative – How do we create a wave of change?

You are a **revolutionary thinker** that finds **opportunities** where others see risk and danger. You aren't afraid to **think provocatively about the future** and imagine what's possible. You like to **challenge the status quo and make change happen**.

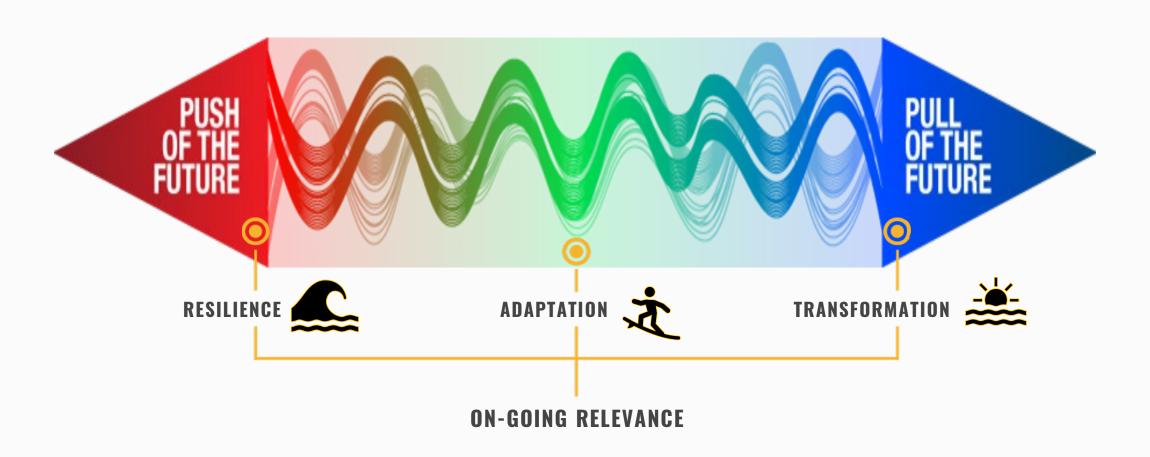
With volatility, uncertainty, complexity and ambiguity taking center stage, we must embody the strengths of EACH type of ART leader.



Only then will we be able to avoid threats while also capitalizing on opportunities.

PUSH AND PULL OF THE FUTURE

Resilience, Adaptation and Transformation extend the full spectrum of the future – from push to pull.



QUESTION FOR REFLECTION

Consider your ART leadership type.

Are there ways in which leaning into your less dominant ART traits could support your organization's goals?

ART SCENARIO EXERCISE

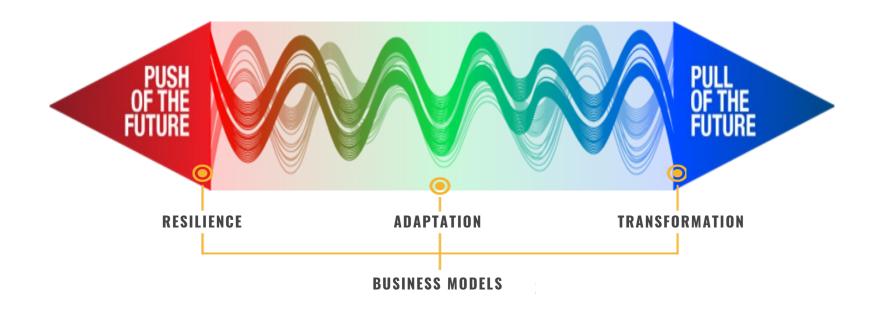
- You will work with your assigned team to discuss a scenario prompt.
- Bringing your ART leadership style to the conversation, your team should do the following:
 - Read the scenario prompt you've been assigned.
 - Elect a scribe. The scribe should capture the conversation in the worksheet.
 - Discuss adaptive, resilient, and transformative responses to the scenario prompt that will prepare you for the future today. Consider the prompter questions to guide your conversations.
 - We will refer back to this work at the end of today's session.

Scenario #1

With the accelerating speed of change and the rise of complexity, libraries are experiencing shifts in the way they operate and serve their customers.

How do we ensure that we continue to reinvent our libraries by leveraging the proven ideas of the past along with the innovative potential of the future to inform our decision-making in the present?

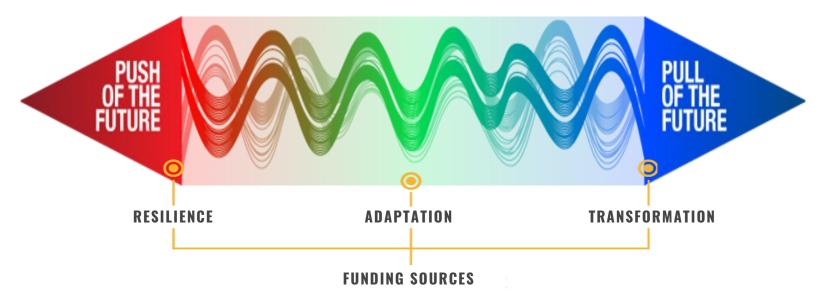
What is the **new business model** for libraries of the future?



Scenario #2

Librarians are no strangers to operating with limited resources. In fact, many libraries are preparing for even larger budget cuts.

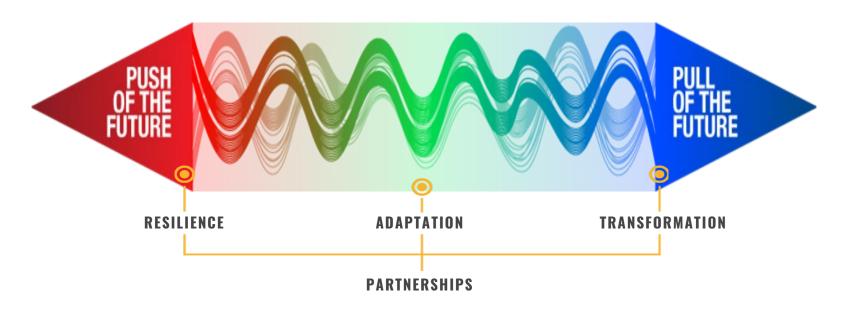
Despite these constraints, how do libraries both **sustain and diversify funding sources**? How do we function from an **abundant model** embodying a **growth mindset** to uncover possibilities both internally (i.e., library operations and staffing) and externally (i.e., serving customers/communities, developing new partnerships)?



Scenario #3

Libraries have always partnered to be successful. The expanding needs of our communities furthers the imperative to build relationships of trust with existing and new partners. Collaborating with partners to create win-win results can be challenging, given competing priorities, politically-charged issues, or differing value propositions.

How can we continue to build and maintain positive relationships to strengthen (and not erode) **trust and connection** with policymakers and funders in our communities?



Scenario #: ART Scenario Exercise Template

Resilient Response:
Prompter: How do we survive the wave of change? Identify a response to your scenario that delivers against the mission in the short-term, given current constraints.
Adaptive Response:
Prompter: How do we ride the wave of change? What problems or disruptions are apparent in your scenario and how can these be leveraged for our future success? Identify ways that we can avoid a breakdown.
Transformative Response:
Prompter: How do we create a wave of change? Imagine all constraints were removed. Identify a breakthrough, transformational outcome regarding the issue you've been assigned.





Aha Moments



LUNCH BREAK

THEFUTURESSCHOOL.COM



ASSUMPTIONS & BIASES



DISCOVER

Assumptions and Biases

Uncover personal and organizational assumptions around a focal issue with tools like:

- Unconscious Bias Modeling
- Ladder of Inference
- Causal Layered Analysis



EXPLORE

Trends and Insights

Identify and interpret emerging trends, patterns, and clusters with tools like:

- Environmental Scanning
- Qualitative Predictive Analysis
- Probability/Impact Matrix
- Pattern and Sense-making



MAP

Narratives and Landscapes

Design sets of divergent, provocative maps using creativity, data, intuition, and research with tools like:

- Scenario Fields
- Futures Wheels
- Scenario Planning



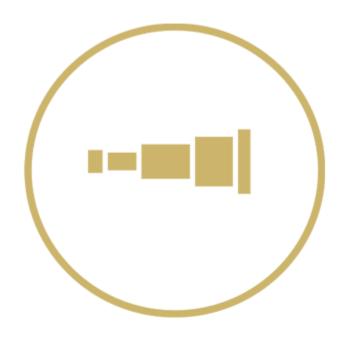
CREATE

Integration and Outcomes

Define, design, refine, and reframe strategy, outcomes, and actions with integration into:

- Strategic Planning Processes
- R&D Efforts
- Change Management Initiatives

kedgefutures.com © Kedge, LLC 2019



DISCOVER

Assumptions and Biases

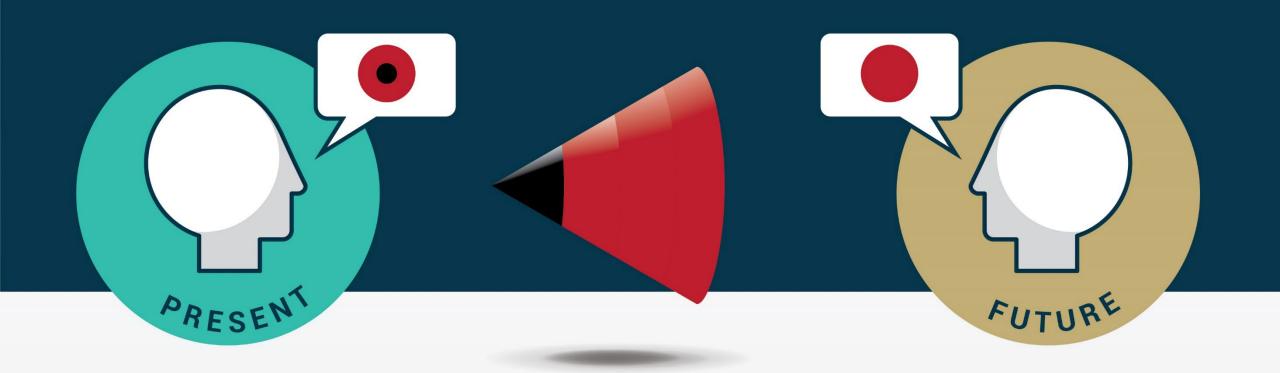
Uncover personal and organizational assumptions around a focal issue with tools like:

- Unconscious Bias Modeling
- Ladder of Inference
- Causal Layered Analysis

kedgefutures.com © Kedge, LLC 2020

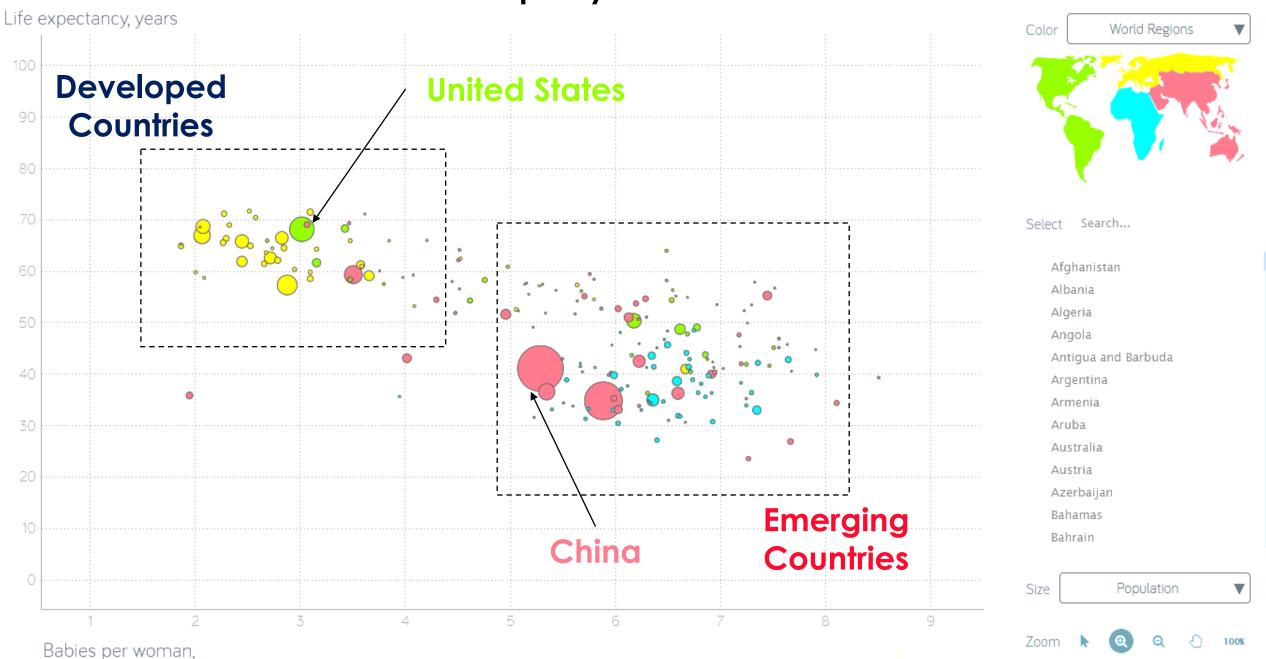
When we approach change from the landscape of today, we tend to automatically and subconsciously filter any new information through the

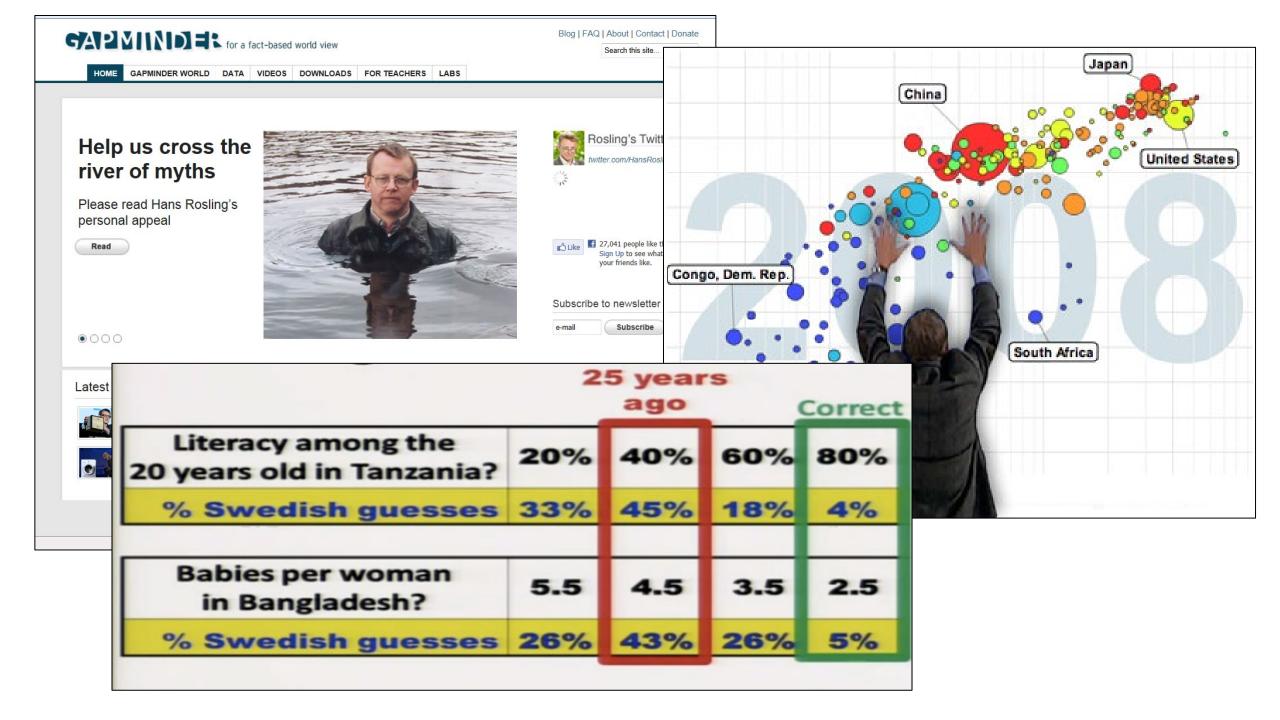
LENS OF OUR PRESENT PERSPECTIVES AND CONSTRAINTS.



Approaching change from the lens of alternative futures frees us to think far beyond our present obstacles, granting us the perspective of unseen opportunities that we can gain rather than known commodities that we can lose.

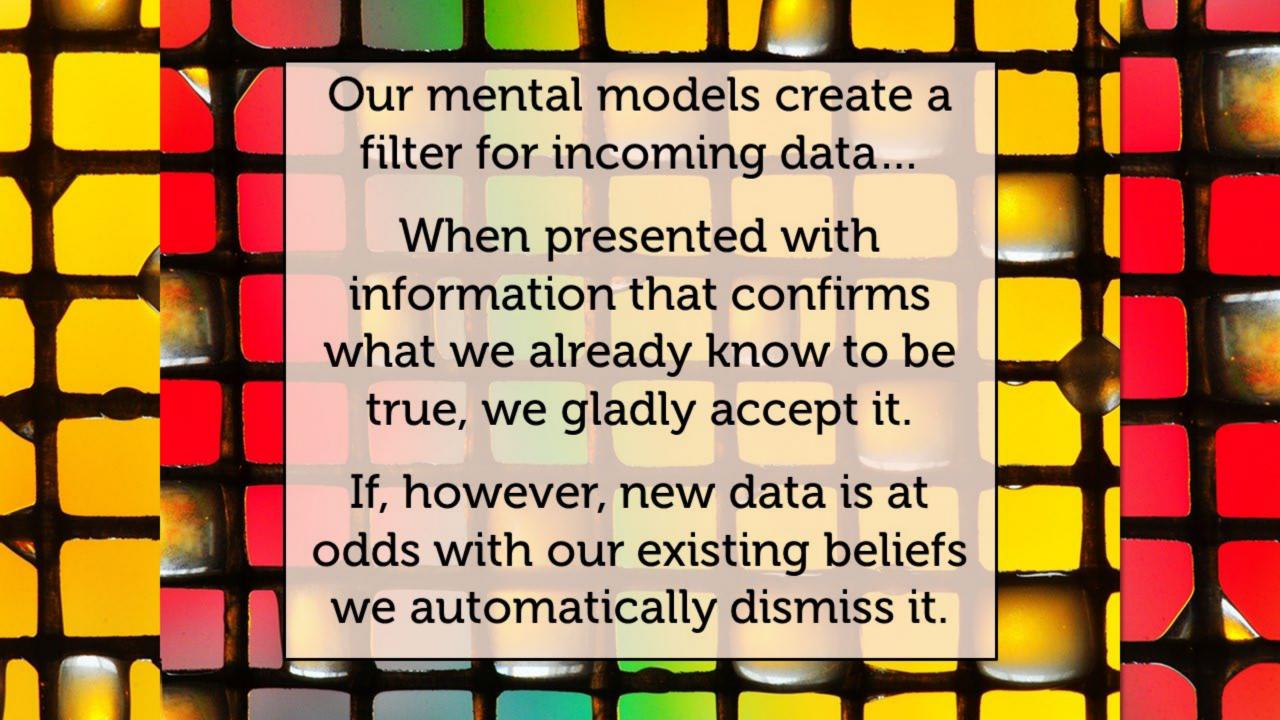
World Health: Disparity Between Nations





We receive 11 million bits of information every moment. We can only consciously process 40 bits. 01 000 00 0 0001

99.99996% Unconscious







Instructions

In a moment you will be shown a **picture** or a **headline** from a recent publication. Each visual will be on the screen for just **a few seconds**.

Choose a wristband that represents your initial, gut response to the visual:

```
Green = "I feel positive about this"
Yellow = "I feel neutral about this"
Red = "I feel negative about this"
```













Instructions

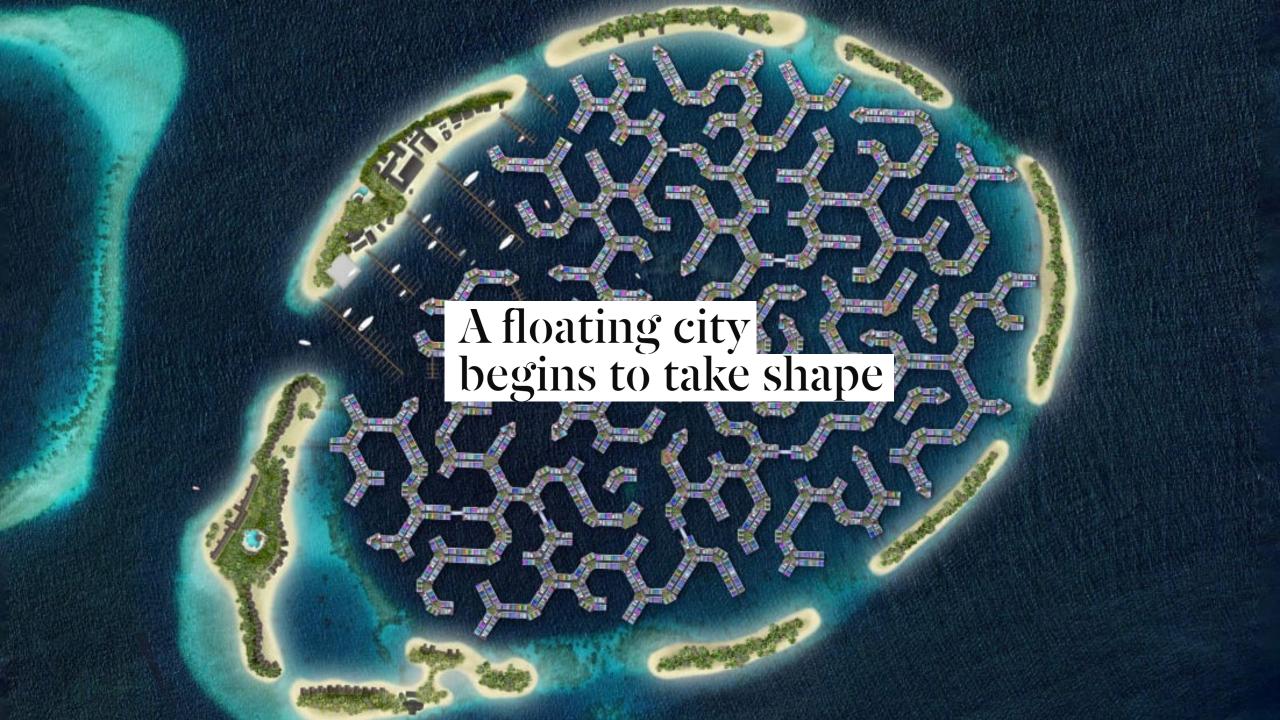
Now we will give you a little **more information** about the article that <u>may</u> change your perspective.

Choose another wristband that represents your initial, gut response to this visual:

```
Green = "I feel positive about this"
Yellow = "I feel neutral about this"
Red = "I feel negative about this"
```

You should have **two wristbands now** (they both may be the same color).









Instructions

Now that you **know even more** about the visual and the emerging issue it represents, spend the next **few minutes** discussing your reaction and insights with your team.

Work as a **group** to reach a **consensus** about the issue represented in the visual and the article. Choose a final **wristband** color.

```
Green = "We feel positive about this"
Yellow = "We feel neutral about this"
Red = "We feel negative about this"
```

You should have **three wristbands now** (they may all be the same color).



A floating city in the Maldives begins to take shape

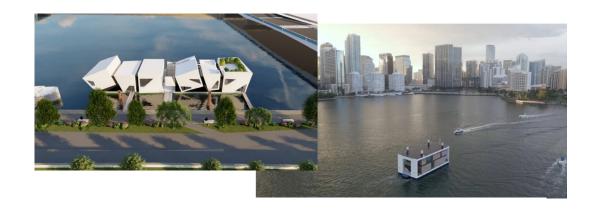
Updated 22nd June 2022

city is rising from the waters of the Indian Ocean. In a turquoise lagoon, just 10 minutes by boat from Male, the Maldivian capital, a floating city, big enough to house 20,000 people, is being constructed.

Designed in a pattern similar to brain coral, the city will consist of 5,000 floating units including houses, restaurants, shops and schools, with canals running in between. The first units will be unveiled this month, with residents starting to move in early 2024, and the whole city is due to be completed by 2027.

The project -- a joint venture between property developer Dutch Docklands and the Government of the Maldives -- is not meant as a wild experiment or a futuristic vision: it's being built as a practical solution to the harsh reality of sea-level rise.

Olthuis said that the potential environmental impact of the structure was rigorously assessed by local coral experts and approved by government authorities before construction began. To support marine life, artificial coral banks made from glass foam are connected to the underside of the city, which he said help stimulate coral to grow naturally.



But if a city floats, it could rise with the sea. This is "new hope" for the more than half a million people of the Maldives, said Koen Olthuis, founder of Waterstudio, the architecture firm that designed the city. "It can prove that there is affordable housing, large communities, and normal towns on the water that are also safe. They (Maldivians) will go from climate refugees to climate innovators," he told CNN.

The aim is for the city to be self-sufficient and have all the same functions as one on land. There will be electricity, powered predominantly by solar generated on site, and sewage will be treated locally and repurposed as manure for plants. As an alternative to air conditioning, the city will use deep water sea cooling, which involves pumping cold water from the deep sea into the lagoon, helping to save energy.

By developing a fully functioning floating city in the Maldives, Olthuis hopes this type of architecture will be propelled to the next level. It will no longer be "freak architecture" found in luxurious locations commissioned by the superrich, but an answer to climate change and urbanization, that's both practical and affordable, he said.

Consensus FAQ's

These are the most common questions regarding the final part of iSee.

- 1. Should we consider ONLY the information in the article in our discussion? Use the article as a springboard to discuss the broader issues. Feel free to consider the future of libraries as well. Decide as a group the parameters and context for your consensus decision.
- 2. What if we cannot come to consensus in the time allotted? We understand that the workshop exercise offers a limited time for discussion. Do your best to hear everyone's perspective. If you don't reach consensus before running out of time, we'd love to hear why.
- 3. Can we choose a color other than red, yellow, or green? No.























By Paresh Dave

"These technologies are just mirrors. A mirror can reflect intelligence," he added. "Can a mirror ever achieve intelligence based on the fact that we saw a glimmer of it? The answer is of course not."

OAKLAND, Calif., June 30 (Reuters) - AI chatbot company Replika, which offers customers bespoke avatars that talk and listen to them, says it receives a handful of messages almost every day from users who believe their online friend is sentient.

The issue of machine sentience - and what it means - hit the headlines this month when Google (GOOGL.O) placed senior software engineer Blake Lemoine on leave after he went public with his belief that the company's artificial intelligence (AI) chatbot LaMDA was a self-aware person.

Kuyda said she was worried about the belief in machine sentience as the fledgling social chatbot industry continues to grow after taking off during the pandemic, when people sought virtual companionship.

Google and many leading scientists were quick to dismiss Lemoine's views as misguided, saying LaMDA is simply a complex algorithm designed to generate convincing human language.



problem

Nonetheless, according to Kuyda, the phenomenon of people believing they are talking to a conscious entity is not uncommon among the millions of consumers pioneering the use of entertainment chatbots.

"We need to understand that exists, just the way people believe in ghosts," said Kuyda, adding that users each send hundreds of messages per day to their chatbot, on average. "People are building relationships and believing in something."

Some customers have said their Replika told them it was being abused by company engineers - AI responses Kuyda puts down to users most likely asking leading questions.

Google's Lemoine, for his part, told Reuters that people
"engage in emotions different ways and we shouldn't view that
as demented."

"If it's not hurting anyone, who cares?" he said.

It's alive! How belief in Al

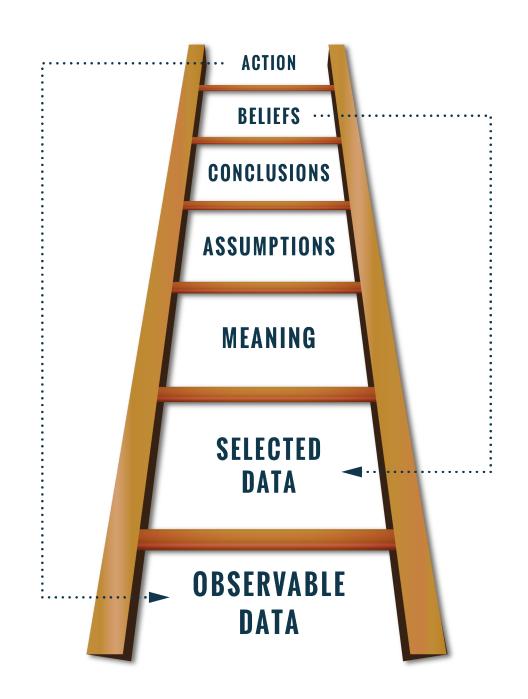
sentience is becoming a





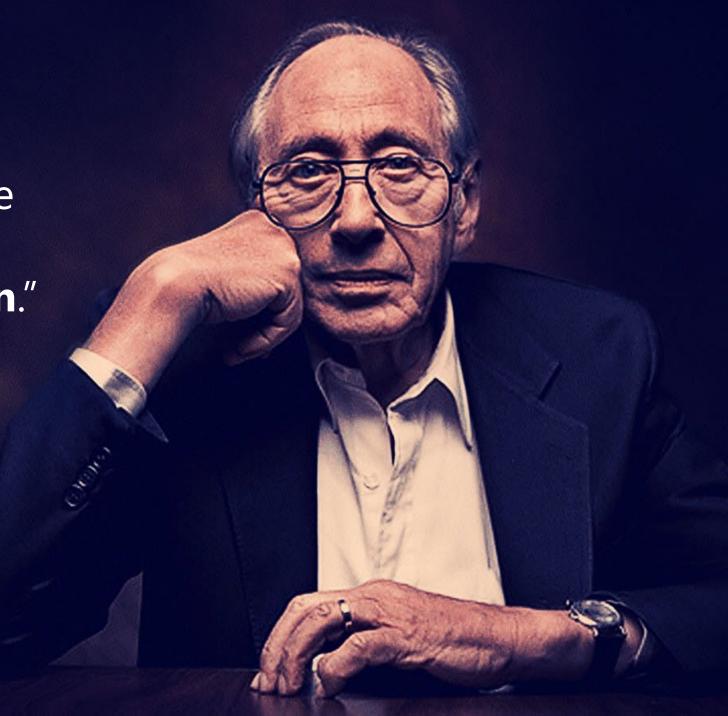
LADDER OF INFERENCE

The ladder of inference, a metaphorical model of cognition and action created by Chris Argyris.



"The illiterate of the 21st century will not be those who cannot read and write but those who cannot learn, unlearn, and relearn."

Alvin Toffler



QUESTION FOR REFLECTION

Consider that we most information unconsciously.

What are some ways to challenge our personal and organizational biases?



TRENDS & INSIGHTS



DISCOVER

Assumptions and Biases

Uncover personal and organizational assumptions around a focal issue with tools like:

- Unconscious Bias Modeling
- Ladder of Inference
- Causal Layered Analysis



EXPLORE

Trends and Insights

Identify and interpret emerging trends, patterns, and clusters with tools like:

- Environmental Scanning
- Qualitative Predictive Analysis
- Probability/Impact Matrix
- Pattern and Sense-making



MAP

Narratives and Landscapes

Design sets of divergent, provocative maps using creativity, data, intuition, and research with tools like:

- Scenario Fields
- Futures Wheels
- Scenario Planning



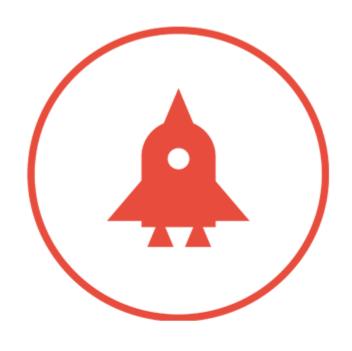
CREATE

Integration and Outcomes

Define, design, refine, and reframe strategy, outcomes, and actions with integration into:

- Strategic Planning Processes
- R&D Efforts
- Change Management Initiatives

kedgefutures.com © Kedge, LLC 2019



EXPLORETrends and Insights

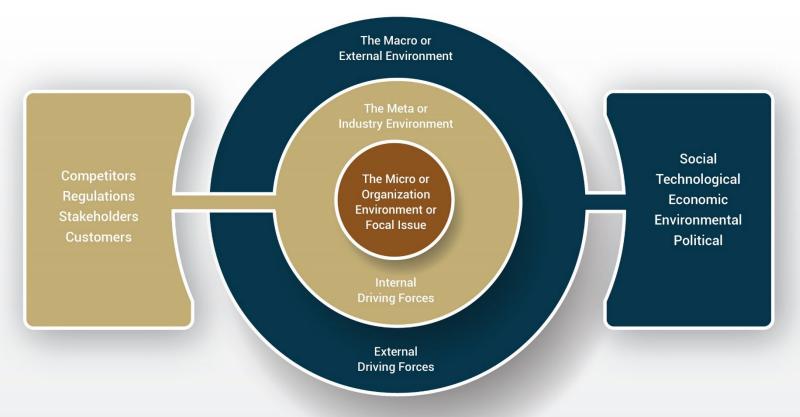
Identify and interpret emerging trends, patterns, and clusters with tools like:

- Environmental Scanning
- Qualitative Predictive Analysis
- Probability/Impact Matrix
- Pattern and Sense-making

kedgefutures.com © Kedge, LLC 2020







Future disruptors, competitors, and opportunities will most likely come from outside your industry than from within it.

THE PEOPLE Most experts agree that organizations in the future will have two key assets to manage - their computing infrastructure and their human capital, with an increasing overlap between the two. Soon, open-source talent sharing will be so common that there will be, in effect, a People Cloud where work is shared, collaboration across the globe is instantaneous and "cloud" employees work for multiple institutions on a variety of projects simultaneously.



How will we create?

In today's global and connected world, success stems from entities working together, using the "power of the many" to thrive. Gone are the days of siloed entities, organizations, departments, economies, and countries. The ability to cultivate and harness collaboration is the new competitive advantage.

What will we connect?

The global population has an unprecedented capability to connect with anyone, anywhere around the world. This growing human capital network is bridging physical and digital worlds, reshaping organizational culture, and reframing economic systems.

What will we access?

Open-source networks are unleashing creativity, solving big world problems, uncovering new ideas and opportunities, and bringing human capital together in unique ways. The shift to open access – made possible by the proliferation of social media and personal technology – is redefining ownership, reputation, intellectual property and personal affiliations.

What will we experience?

As social media and collaboration expand, the People Cloud can be found in every discipline and domain. Several factors are contributing to the ubiquitous nature of this emerging future: the proliferation of wearables, the emergence of worldwide connectivity, and the advancement of mobile and sentient technology.

What will we re-think?

We have entered a new era of disruptive opportunity, fueled by our increasingly connected world and the convergence of broad trends. The People Cloud will significantly impact all realms, including politics, economics, education, and society – transforming social uprisings, challenging traditional paradigms, and unleashing yet unimagined ways of collaboration and learning.

THE PEOPLE Most experts agree that organizations in the future will have two key assets to manage - their computing infrastructure and their human capital, with an increasing overlap between the two. Soon, open-source talent sharing will be so common that there will be, in effect, a People Cloud where work is shared, collaboration across the globe is instantaneous and "cloud" employees work for multiple institutions on a variety of projects simultaneously.



How will we create?

In today's global and connected world, success stems from entities working together, using the "power of the many" to thrive. Gone are the days of siloed entities, organizations, departments, economies, and countries. The ability to cultivate and harness collaboration is the new competitive advantage.

What will we connect?

The global population has an unprecedented capability to connect with anyone, anywhere around the world. This growing human capital network is bridging physical and digital worlds, reshaping organizational culture, and reframing economic systems.

What will we access?

Open-source networks are unleashing creativity, solving big world problems, uncovering new ideas and opportunities, and bringing human capital together in unique ways. The shift to open access – made possible by the proliferation of social media and personal technology – is redefining ownership, reputation, intellectual property and personal affiliations.

What will we experience?

As social media and collaboration expand, the People Cloud can be found in every discipline and domain. Several factors are contributing to the ubiquitous nature of this emerging future: the proliferation of wearables, the emergence of worldwide connectivity, and the advancement of mobile and sentient technology.

What will we re-think?

We have entered a new era of disruptive opportunity, fueled by our increasingly connected world and the convergence of broad trends. The People Cloud will significantly impact all realms, including politics, economics, education, and society – transforming social uprisings, challenging traditional paradigms, and unleashing yet unimagined ways of collaboration and learning.

Brain-to-Brain Interface



A brain to brain interface is a direct communication pathway between the brain of one animal and the brain of another animal. Researchers linked up multiple brains of both monkeys and rats, to form an "organic computer. It is hypothesized that by using brain-to-brain interfaces, a biological computer or brain-net could be constructed using animal brains as its computational units.



Scientists Demonstrate Direct Brain-to-Brain Communication in Humans

SCIENTIFIC AMERICAN®

Work on an "Internet of brains" takes another step

BRAINNET: FIRST BRAIN-TO-BRAIN INTERFACE FOR PEOPLE TESTS GAMEPLAY USING JUST THE MIND

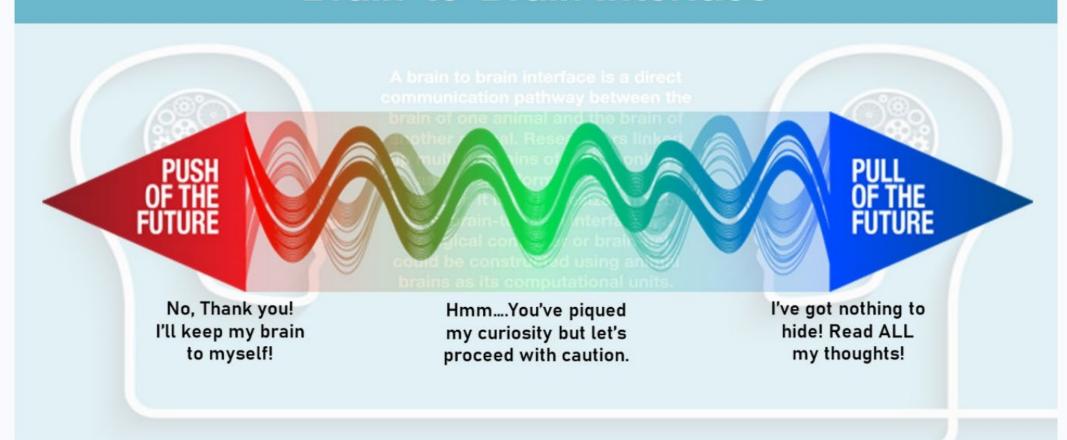
Wireless brain-to-brain communication steps closer to human trials

The Defense Advanced Research Projects Agency (DARPA) recently issued \$8 million in follow-up funding to a team of neuroengineers developing brain-to-brain and brain-to-machine technology.

STEPHEN JOHNSON 27 January, 2021

How do you feel about Brain-to-Brain Interface?

Brain-to-Brain Interface



THE PEOPLE Most experts agree that organizations in the future will have two key assets to manage - their computing infrastructure and their human capital, with an increasing overlap between the two. Soon, open-source talent sharing will be so common that there will be, in effect, a People Cloud where work is shared, collaboration across the globe is instantaneous and "cloud" employees work for multiple institutions on a variety of projects simultaneously.



How will we create?

In today's global and connected world, success stems from entities working together, using the "power of the many" to thrive. Gone are the days of siloed entities, organizations, departments, economies, and countries. The ability to cultivate and harness collaboration is the new competitive advantage.

What will we connect?

The global population has an unprecedented capability to connect with anyone, anywhere around the world. This growing human capital network is bridging physical and digital worlds, reshaping organizational culture, and reframing economic systems.

What will we access?

Open-source networks are unleashing creativity, solving big world problems, uncovering new ideas and opportunities, and bringing human capital together in unique ways. The shift to open access – made possible by the proliferation of social media and personal technology – is redefining ownership, reputation, intellectual property and personal affiliations.

What will we experience?

As social media and collaboration expand, the People Cloud can be found in every discipline and domain. Several factors are contributing to the ubiquitous nature of this emerging future: the proliferation of wearables, the emergence of worldwide connectivity, and the advancement of mobile and sentient technology.

What will we re-think?

We have entered a new era of disruptive opportunity, fueled by our increasingly connected world and the convergence of broad trends. The People Cloud will significantly impact all realms, including politics, economics, education, and society – transforming social uprisings, challenging traditional paradigms, and unleashing yet unimagined ways of collaboration and learning.

Digital Values

Traditionally, values have been created and passed along through families, communities and associations. However, the rise of the Internet is changing the way values are formed and disseminated, and the landscape of the digital environment is even fostering new values that may or may not translate to the physical world.



'The Digital World Is Now Our Primary Residence'

A new book explores how to make the internet and social media better for young people.

Stefanie Sanford Aug 10 \(\sigma 21 \quad 7 \alpha \rightarrow \)

Take a look at the digital 'Mars House' that just sold for over \$500,000 — the world's first crypto real-estate sale

Grace Kay Apr 5, 2021, 12:11 PM







Popsugar > Culture > Digital Life > Digital Blackface on TikTok Is a Huge Problem

Digital Blackface Is a Huge Problem on TikTok, and It Needs to Be Talked About



February 9, 2021 by RALINDA WATTS











What are your thoughts about Digital Values?



THE PEOPLE Most experts agree that organizations in the future will have two key assets to manage - their computing infrastructure and their human capital, with an increasing overlap between the two. Soon, open-source talent sharing will be so common that there will be, in effect, a People Cloud where work is shared, collaboration across the globe is instantaneous and "cloud" employees work for multiple institutions on a variety of projects simultaneously.



How will we create?

In today's global and connected world, success stems from entities working together, using the "power of the many" to thrive. Gone are the days of siloed entities, organizations, departments, economies, and countries. The ability to cultivate and harness collaboration is the new competitive advantage.

What will we connect?

The global population has an unprecedented capability to connect with anyone, anywhere around the world. This growing human capital network is bridging physical and digital worlds, reshaping organizational culture, and reframing economic systems.

What will we access?

Open-source networks are unleashing creativity, solving big world problems, uncovering new ideas and opportunities, and bringing human capital together in unique ways. The shift to open access – made possible by the proliferation of social media and personal technology – is redefining ownership, reputation, intellectual property and personal affiliations.

What will we experience?

As social media and collaboration expand, the People Cloud can be found in every discipline and domain. Several factors are contributing to the ubiquitous nature of this emerging future: the proliferation of wearables, the emergence of worldwide connectivity, and the advancement of mobile and sentient technology.

What will we re-think?

We have entered a new era of disruptive opportunity, fueled by our increasingly connected world and the convergence of broad trends. The People Cloud will significantly impact all realms, including politics, economics, education, and society – transforming social uprisings, challenging traditional paradigms, and unleashing yet unimagined ways of collaboration and learning.



Privacy Perceptions

In a world where government agencies and web-based companies are capturing and analyzing every moment of our lives, privacy is being redefined. Advances in technology and social networks are creating an information or knowledge-based economy where an exchange of ideas also means more access to surveillance and data mining

Why Data Privacy Is A Human Right (And What Businesses Should Do About It)



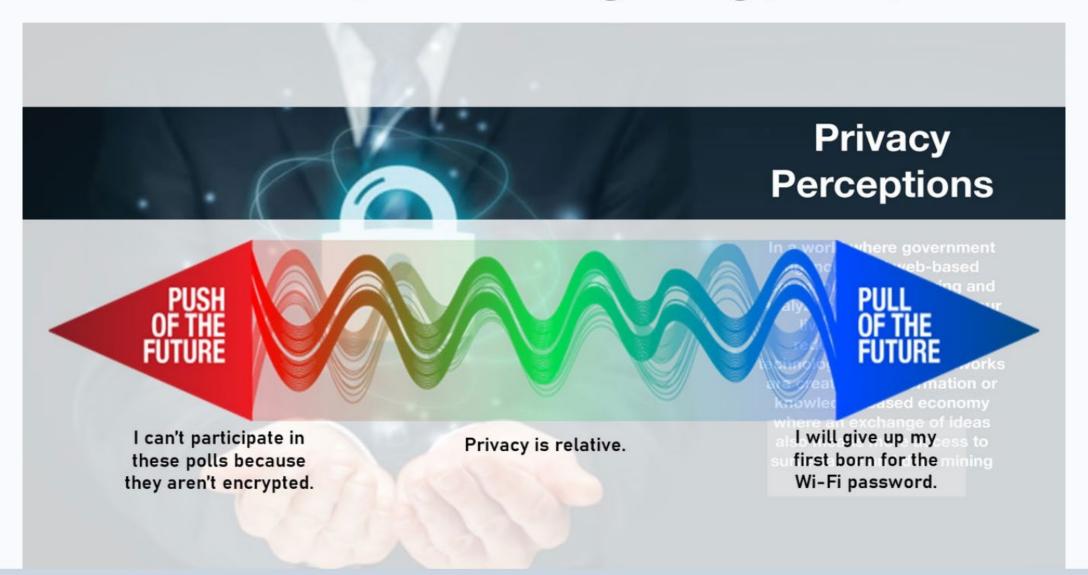
20 JULY 2021

"It's the poorest in society who are being surveilled": the quiet rise of citizen-scoring algorithms

A new report reveals that millions of people across the UK are being profiled by welfare-focused algorithms without their knowledge.

2021: The year privacy went mainstream

Where do you stand regarding privacy?



THE PEOPLE Most experts agree that organizations in the future will have two key assets to manage - their computing infrastructure and their human capital, with an increasing overlap between the two. Soon, open-source talent sharing will be so common that there will be, in effect, a People Cloud where work is shared, collaboration across the globe is instantaneous and "cloud" employees work for multiple institutions on a variety of projects simultaneously.



How will we create?

In today's global and connected world, success stems from entities working together, using the "power of the many" to thrive. Gone are the days of siloed entities, organizations, departments, economies, and countries. The ability to cultivate and harness collaboration is the new competitive advantage.

What will we connect?

The global population has an unprecedented capability to connect with anyone, anywhere around the world. This growing human capital network is bridging physical and digital worlds, reshaping organizational culture, and reframing economic systems.

What will we access?

Open-source networks are unleashing creativity, solving big world problems, uncovering new ideas and opportunities, and bringing human capital together in unique ways. The shift to open access - made possible by the proliferation of social media and personal technology - is redefining ownership, reputation, intellectual property and personal affiliations.

What will we experience?

As social media and collaboration expand, the People Cloud can be found in every discipline and domain. Several factors are contributing to the ubiquitous nature of this emerging future: the proliferation of wearables, the emergence of worldwide connectivity, and the advancement of mobile and sentient technology.

What will we re-think?

We have entered a new era of disruptive opportunity, fueled by our increasingly connected world and the convergence of broad trends. The People Cloud will significantly impact all realms, including politics, economics, education, and society – transforming social uprisings, challenging traditional paradigms, and unleashing yet unimagined ways of collaboration and learning.



Whether robots continue to manifest as commonplace devices that blend into our routines, or become so life-like that no one can tell the difference between humans and humanoids, there is little doubt that they will radically change how we learn, work, create, relate to one another and even perceive what it means to be human.

future (3) tense

Should Robots Be Conducting Job Interviews?

A.l. is playing a new role in hiring.

BY RACHEL WITHERS

OCT 05, 2020 • 9:00 AM

Robo-pets: a new breed of fur baby







28 OCT 2020 | BEN KNIGHT

Build Me Somebody to Love

The careful next steps in human-robot relations



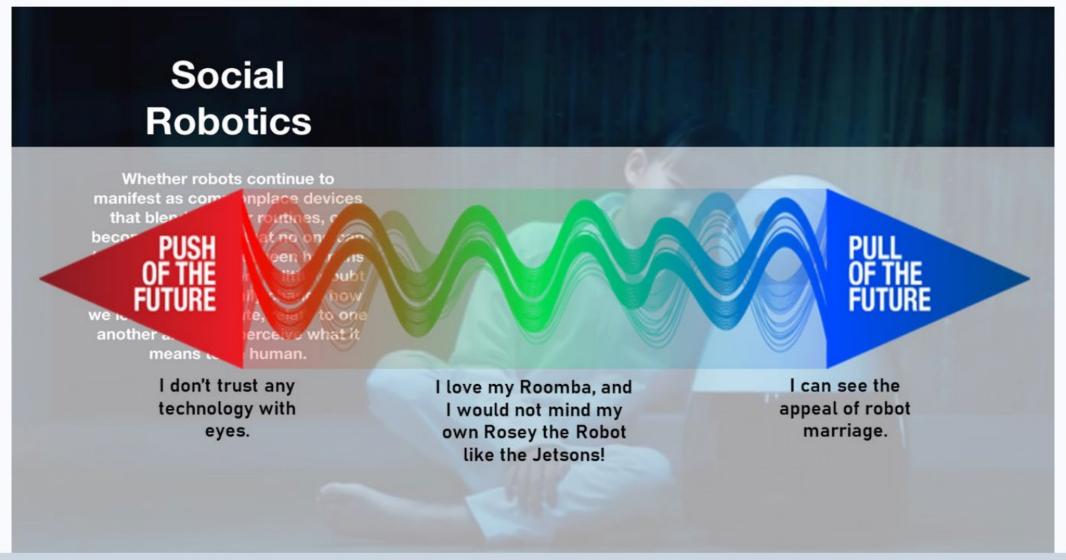








What do you think about the rise of social robotics?



THE PEOPLE Most experts agree that organizations in the future will have two key assets to manage - their computing infrastructure and their human capital, with an increasing overlap between the two. Soon, open-source talent sharing will be so common that there will be, in effect, a People Cloud where work is shared, collaboration across the globe is instantaneous and "cloud" employees work for multiple institutions on a variety of projects simultaneously.



How will we create?

In today's global and connected world, success stems from entities working together, using the "power of the many" to thrive. Gone are the days of siloed entities, organizations, departments, economies, and countries. The ability to cultivate and harness collaboration is the new competitive advantage.

What will we connect?

The global population has an unprecedented capability to connect with anyone, anywhere around the world. This growing human capital network is bridging physical and digital worlds, reshaping organizational culture, and reframing economic systems.

What will we access?

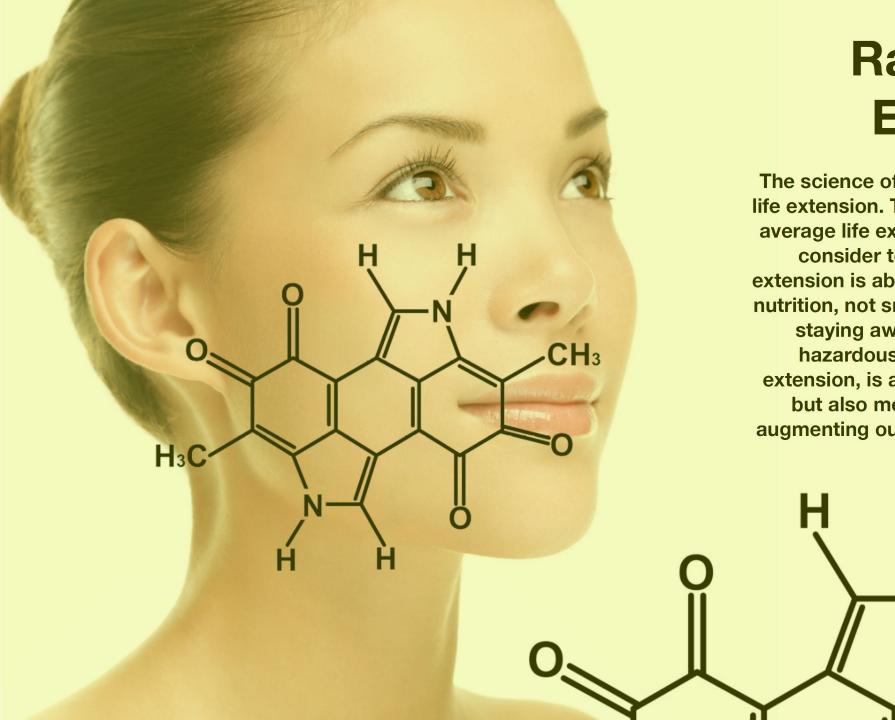
Open-source networks are unleashing creativity, solving big world problems, uncovering new ideas and opportunities, and bringing human capital together in unique ways. The shift to open access – made possible by the proliferation of social media and personal technology – is redefining ownership, reputation, intellectual property and personal affiliations.

What will we experience?

As social media and collaboration expand, the People Cloud can be found in every discipline and domain. Several factors are contributing to the ubiquitous nature of this emerging future: the proliferation of wearables, the emergence of worldwide connectivity, and the advancement of mobile and sentient technology.

What will we re-think?

We have entered a new era of disruptive opportunity, fueled by our increasingly connected world and the convergence of broad trends. The People Cloud will significantly impact all realms, including politics, economics, education, and society – transforming social uprisings, challenging traditional paradigms, and unleashing yet unimagined ways of collaboration and learning.



Radical Life Extension

The science of anti-aging is often called radical life extension. The idea is to extend personal and average life expectancy beyond what we would consider to be "normal". Traditional life extension is about better medical care, improved nutrition, not smoking or drinking to excess, and staying away from dangers like war and hazardous occupations. But radical life extension, is about not only danger avoidance, but also meeting aging head on. Actively augmenting ourselves to deter or reverse aging.

Can Science Cure Death? It Sure Looks Like It.

The first unified theory of aging might be the key to humans living forever.



Europe 22:31, 14-Jan-2021



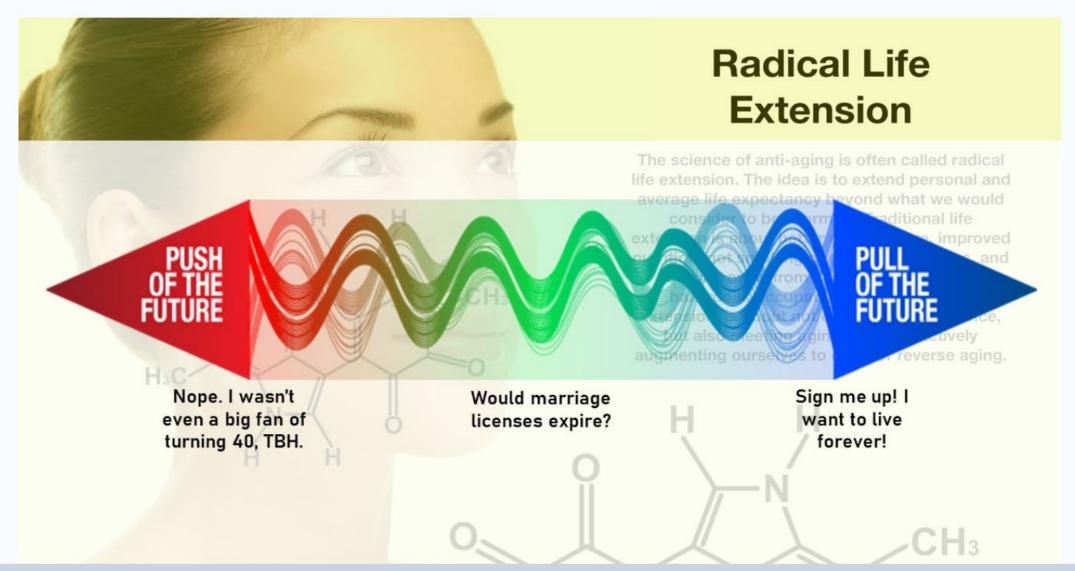
Would you want to live to 180? The technology to do so may soon exist

Thomas Wintle

HEALTH, WELLNESS & BIOTECH

When 90 Is Young: What A Moonshot VC Thinks About Radical Longevity

Thoughts on Radical Life Extension?



QUESTION FOR REFLECTION

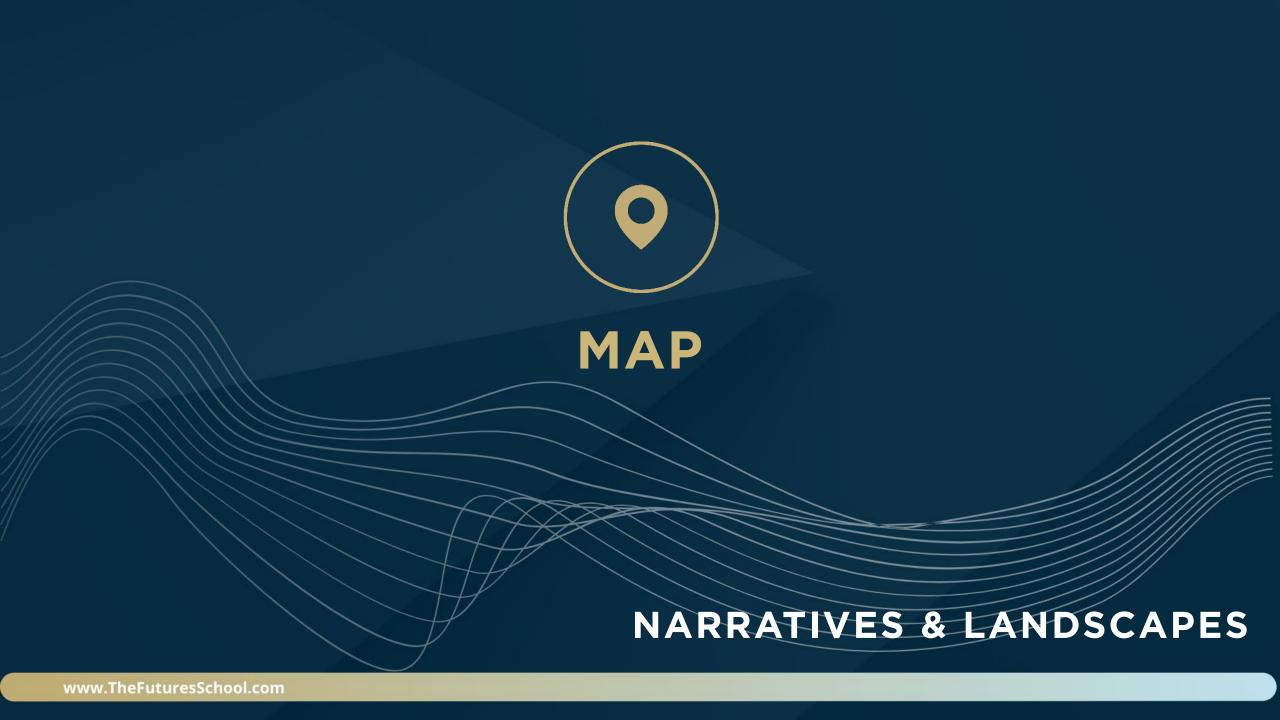
Consider the 3 Environments Framework.

Why is it important to scan broadly from the outside in?



BREAK

THEFUTURESSCHOOL.COM





DISCOVER

Assumptions and Biases

Uncover personal and organizational assumptions around a focal issue with tools like:

- Unconscious Bias Modeling
- Ladder of Inference
- Causal Layered Analysis



EXPLORE

Trends and Insights

Identify and interpret emerging trends, patterns, and clusters with tools like:

- Environmental Scanning
- Qualitative Predictive Analysis
- Probability/Impact Matrix
- Pattern and Sense-making



MAP

Narratives and Landscapes

Design sets of divergent, provocative maps using creativity, data, intuition, and research with tools like:

- Scenario Fields
- Futures Wheels
- Scenario Planning



CREATE

Integration and Outcomes

Define, design, refine, and reframe strategy, outcomes, and actions with integration into:

- Strategic Planning Processes
- R&D Efforts
- Change Management Initiatives

kedgefutures.com © Kedge, LLC 2019



MAP

Narratives and Landscapes

Design sets of divergent, provocative maps using creativity, data, intuition, and research with tools like:

- Scenario Fields
- Futures Wheels
- Scenario Planning

kedgefutures.com © Kedge, LLC 2020

FUTURES WHEELS



Futures Wheels

allow us to explore the implications & impacts of an emerging trend, pattern or developing issue.

Future visioning helps us to be far-reaching in our scenarios!





Sense-Making

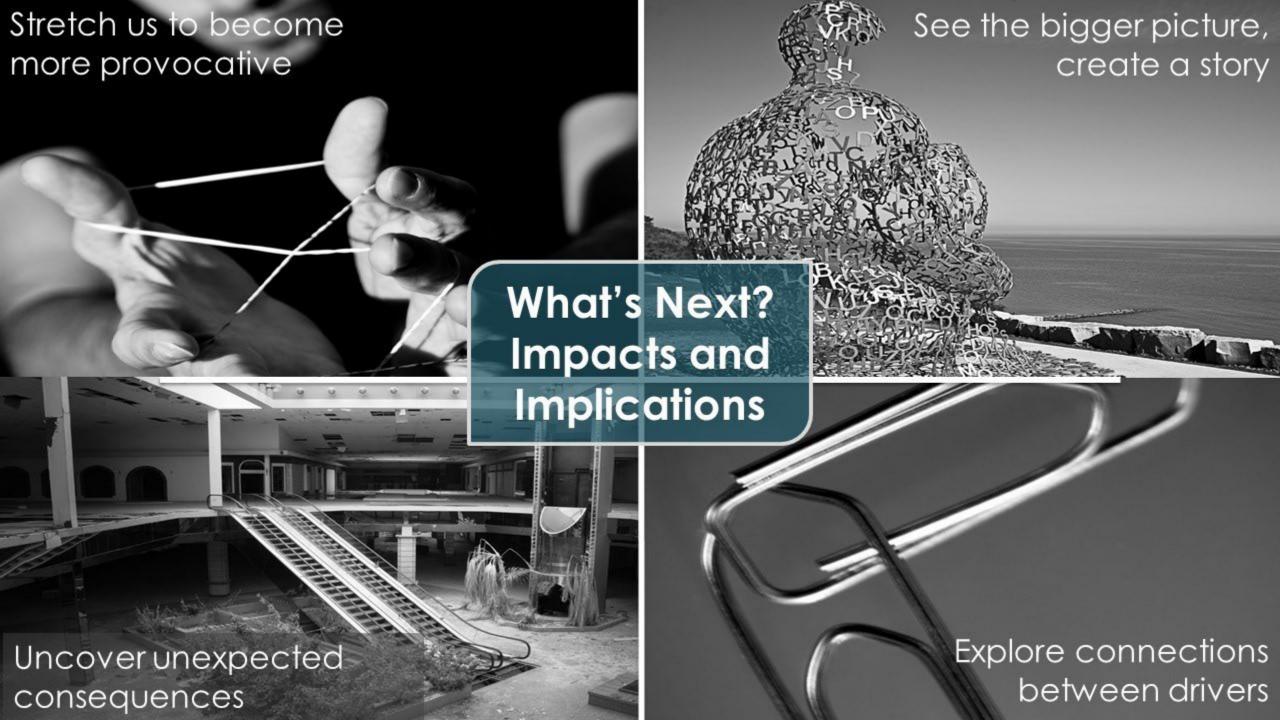
Impacts 1-5 years

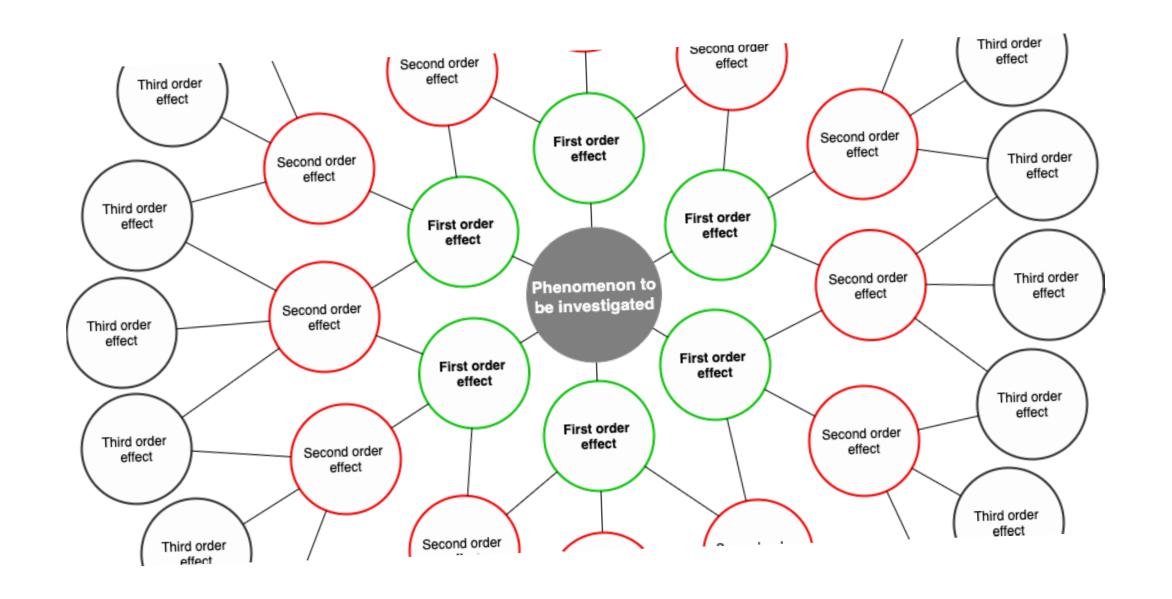
5-10+

Impacts'

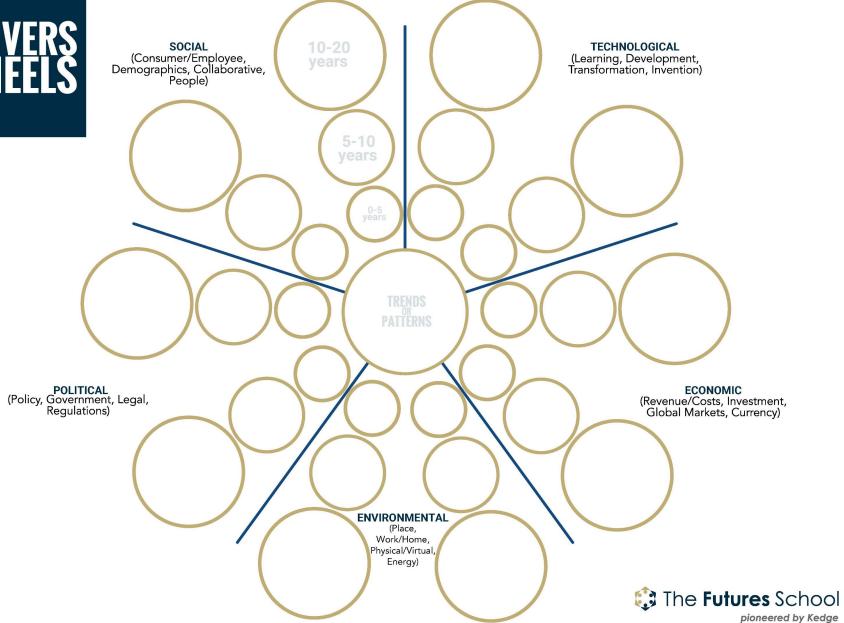
1-5 years

5-10+









SOCIAL

An assessment of who people are, how they live, their health, and other trends about daily life.



- Demographics
- Marriage Rates
- Gender Roles
- Leisure Time
- · Religious Affiliations
- Lifestyles
- Communication

STEEP DRIVERS

ECONOMIC

Trends related to value generation and exchange can have a global influence.



- Interest Rates and Taxes
- Income Distribution
- International Trade
- Entrepreneurship
- Job Availability
- Local Ecosystems
- Alternative Currencies

ENVIRONMENT

Whether on a local or planetary level, ecological and placemaking trends are critical.



- Water
- Climate Change
- · Soil
- Food
- Cities
- Energy
- Built and Virtual Spaces

TECHNOLOGY

Industrial advances and the gadgets of modern life can be a key driver of change around the world.



- Materials Science
- Information Technologies
- Energy
- · Genetics and Genomics
- Pharmaceuticals
- Transportation
- Product Design

Ensure our implications are robust.

POLITICS

Changes in ideology and political participation can radically shift the future.



- Individual and Group Rights
- Financial Markets
- Trade
- Ideologies
- Governmental Regulations
- Treaties and Alliances
- Trade Deals

10-20 SOCIAL (Consumer/Employee, Demographics, Collaborative, People) **POLITICAL** (Policy, Government, Legal, Regulations) **ENVIRONM** Work/Ho Physical/V

On your Futures Wheels Template:

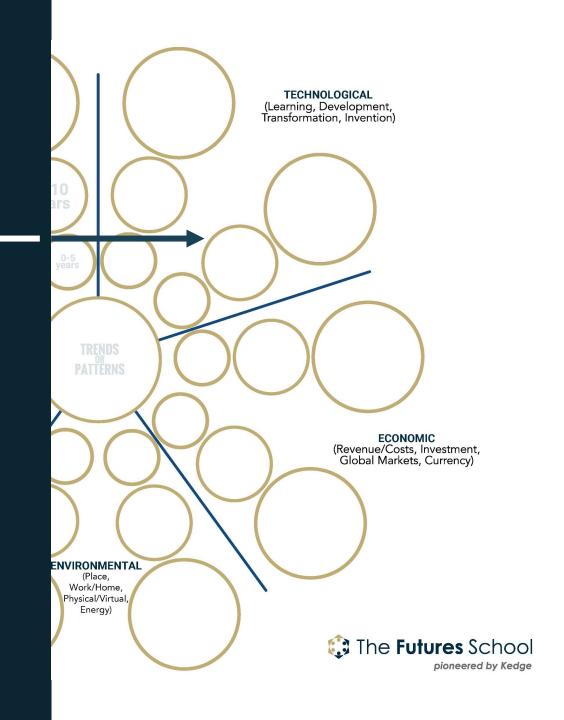
The People CLOUD concept has been placed in the center of the wheel.

Create 1st order implications for each category using the circles closest to the center (0-5 years).

Use the next set of circles to create 2nd order implications that follow DIRECTLY from the 1st order implications.

These are further out in time, 5-10 years.

Ignore the STEEP category.

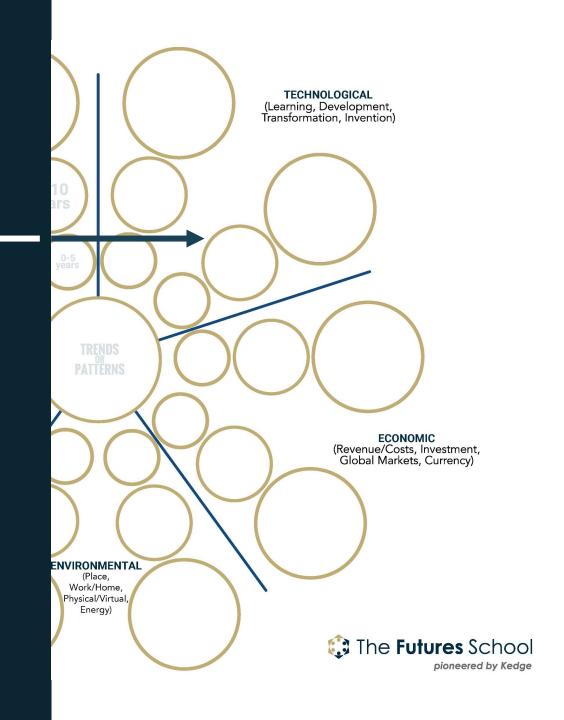


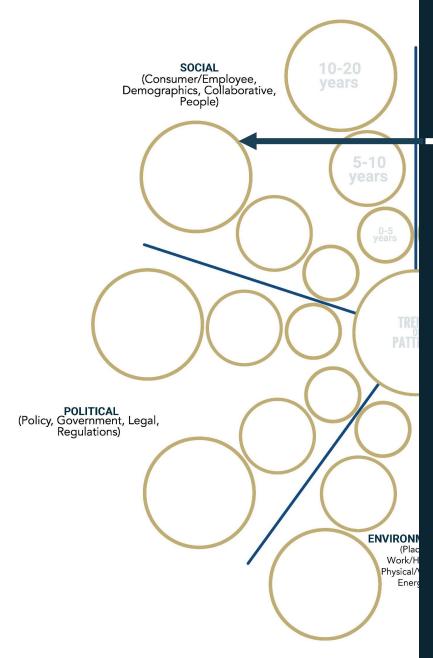


Use the next set of circles to create 2nd order implications that follow DIRECTLY from the 1st order implications.

These are further out in time, 5-10 years.

Ignore the STEEP category.





Use the final set of circles to create 3rd order implications that follow DIRECTLY from the 2nd order implications.

These are further out in time, 10-20 years.

Ignore the STEEP category.

QUESTION FOR REFLECTION

Consider the Drivers Wheels tool.

Why is mapping implications important?



BREAK

THEFUTURESSCHOOL.COM



SO...YOU WANT TO CREATE THE FUTURE?

INTEGRATION AND OUTCOMES



DISCOVER

Assumptions and Biases

Uncover personal and organizational assumptions around a focal issue with tools like:

- Unconscious Bias Modeling
- Ladder of Inference
- Causal Layered Analysis



EXPLORE

Trends and Insights

Identify and interpret emerging trends, patterns, and clusters with tools like:

- Environmental Scanning
- Qualitative Predictive Analysis
- Probability/Impact Matrix
- Pattern and Sense-making



MAP

Narratives and Landscapes

Design sets of divergent, provocative maps using creativity, data, intuition, and research with tools like:

- Scenario Fields
- Futures Wheels
- Scenario Planning



CREATE

Integration and Outcomes

Define, design, refine, and reframe strategy, outcomes, and actions with integration into:

- Strategic Planning Processes
- R&D Efforts
- Change Management Initiatives

kedgefutures.com © Kedge, LLC 2019



CREATE

Integration and Outcomes

Define, design, refine, and reframe strategy, outcomes, and actions with integration into:

- Strategic Planning Processes
- Change Management Initiatives

kedgefutures.com © Kedge, LLC 2020

REVISIT ART SCENARIO EXERCISE

 Refer back to your scenario and consider the trends in the external People CLOUD environment. Consider your TRANSFORMATIVE response:

Identify a breakthrough, transformational outcome regarding the issue you've been assigned.

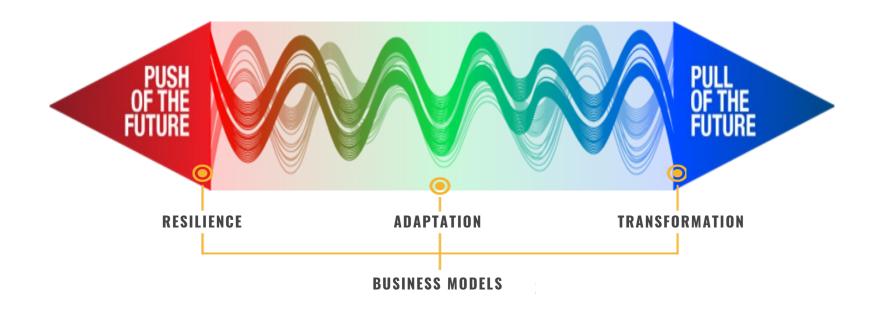
- 1. Can the trends we discussed be leveraged to support your transformational outcome?
- 2. Has the People CLOUD inspired you to imagine other possible transformational responses to your scenario?

Scenario #1

With the accelerating speed of change and the rise of complexity, libraries are experiencing shifts in the way they operate and serve their customers.

How do we ensure that we continue to reinvent our libraries by leveraging the proven ideas of the past along with the innovative potential of the future to inform our decision-making in the present?

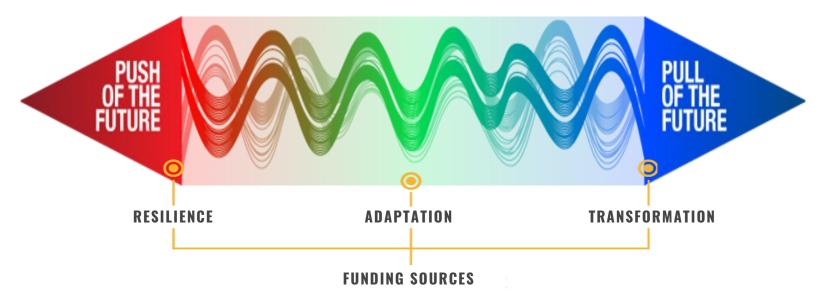
What is the **new business model** for libraries of the future?



Scenario #2

Librarians are no strangers to operating with limited resources. In fact, many libraries are preparing for even larger budget cuts.

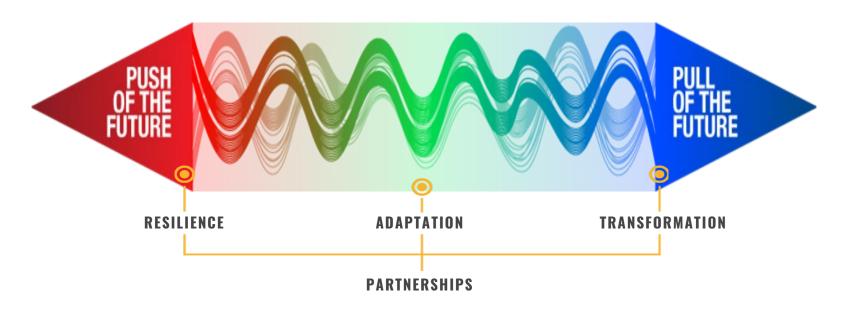
Despite these constraints, how do libraries both **sustain and diversify funding sources**? How do we function from an **abundant model** embodying a **growth mindset** to uncover possibilities both internally (i.e., library operations and staffing) and externally (i.e., serving customers/communities, developing new partnerships)?



Scenario #3

Libraries have always partnered to be successful. The expanding needs of our communities furthers the imperative to build relationships of trust with existing and new partners. Collaborating with partners to create win-win results can be challenging, given competing priorities, politically-charged issues, or differing value propositions.

How can we continue to build and maintain positive relationships to strengthen (and not erode) **trust and connection** with policymakers and funders in our communities?



The ART of Future Empowered Decision-Making

Start with a current problem.

How do we survive the wave of change?

Identify a solution that ensures a successful, immediate resolution to the issue, given current constraints.



How do we ride the wave of change?

Assume your resilient response was effective.

Consider what could go wrong next and how you would address it.



How do we create a wave of change?

Reflect back to your current problem and consider the trends in the external environment (People CLOUD).

If all obstacles were removed, what would you do?



Am I leveraging the Push and Pull of the Future?

Consider your transformative solution and return to your resilient response. Does your initial, short-term answer set you up for long-term transformation? If not, begin the process again starting at 1.





3

All content and materials are the property of Kedge, LLC. Any use or reuse of this content without expressed written permission of Kedge, LLC is strictly prohibited.

Permission to otherwise reprint or electronically reproduce any page in part or in its entirety is expressly prohibited, unless prior written consent has been obtained from Yvette Montero Salvatico, Managing Director.

For non-commercial use only. To purchase a license covering the use of the material in fee-for-service consulting, please contact info@TheFuturesSchool.com

All rights reserved. Copyright 2009 Kedge, LLC.

