

The Future of Campus Experiences
The Art & Science of
Looking at the Future



Garry Golden
Forward Elements

April 4, 2019

Start

End

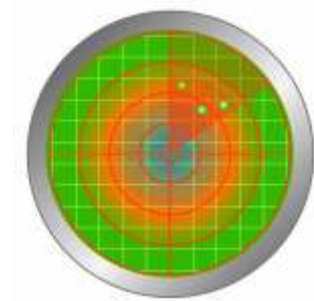


***Foresight 101
Era-based Change***

Eat



Generating Ideas



**Scanning
for Signals**



**Wrap up
Next Steps**

1) Why you selected this quote!

**2) Describe the first (or memorable) time
you were asked to *think about the future***

What? Why? How?



More or Less Change Ahead?

**Last
ten years**



**Next
ten years**



Let's talk about our ability to have ...

- Hindsight
- Insight
- Foresight**



Defining Foresight

How would you describe foresight to a colleague or student?

What do you do? Outputs? Outcomes?



Strategic Foresight is the ability to...

... the ability to anticipate and lead change

... an organized and systematic process to reduce the uncertainty of the future

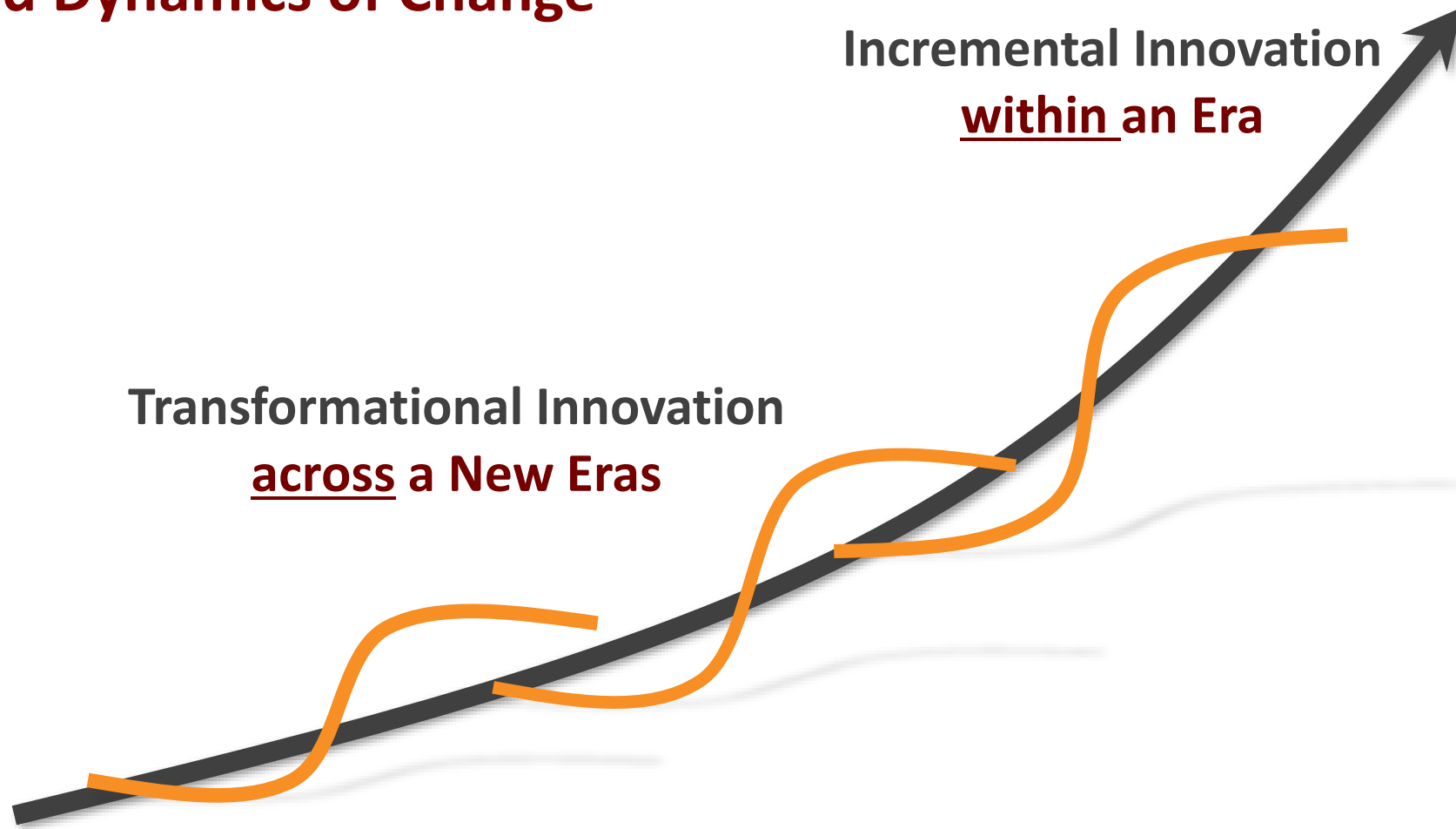
... the ability to create and sustain a variety of high-quality forward views and to apply the emerging insights in organizationally useful ways (APF)

... the ability to create and maintain high quality, coherent and functional forward views

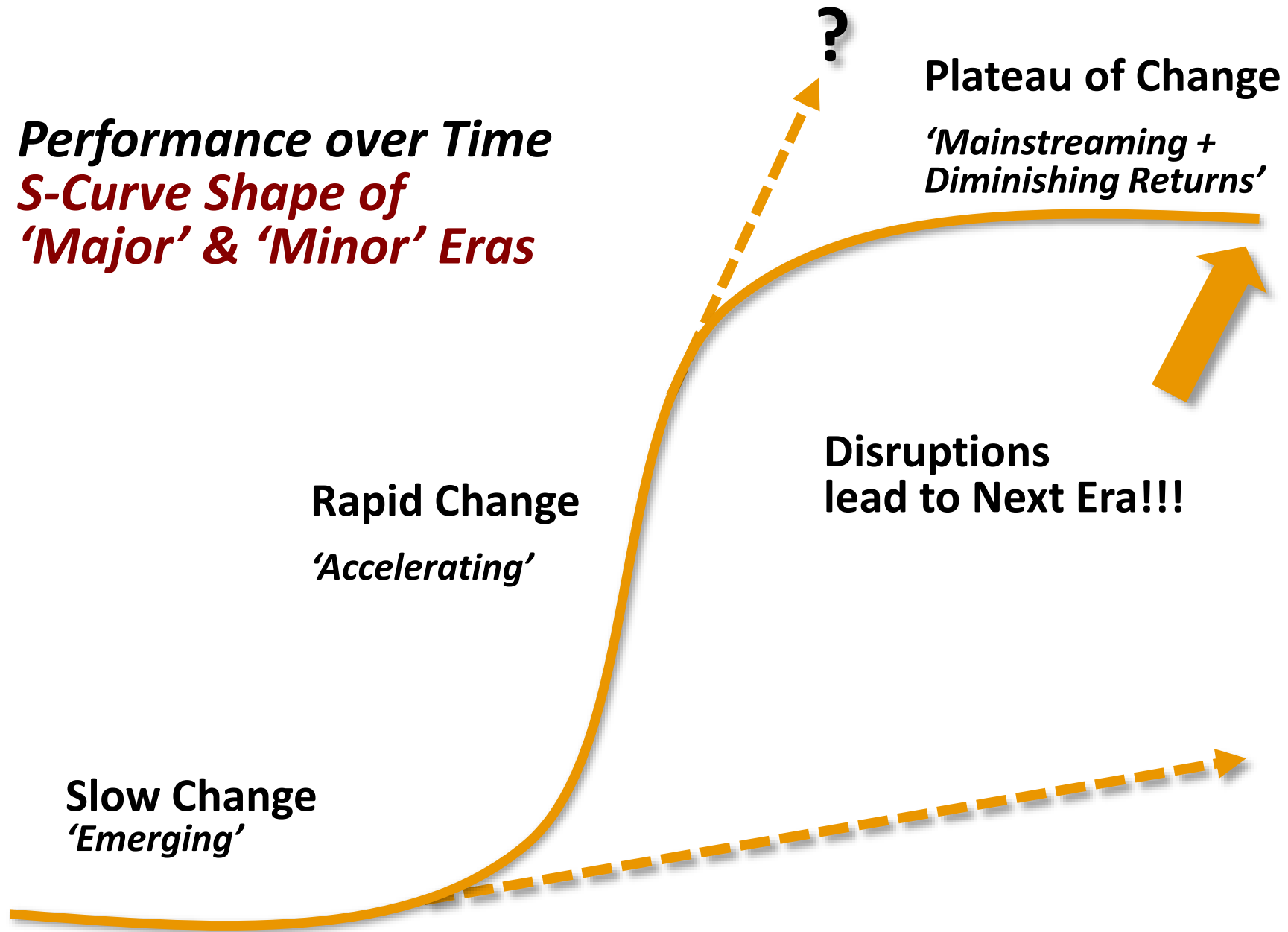
... a universal human capacity which allows people to think ahead and consider, model, create, respond to future eventualities (Slaughter)

Foresight = Front end of Innovation

Era-based Dynamics of Change



Performance over Time
S-Curve Shape of
'Major' & 'Minor' Eras



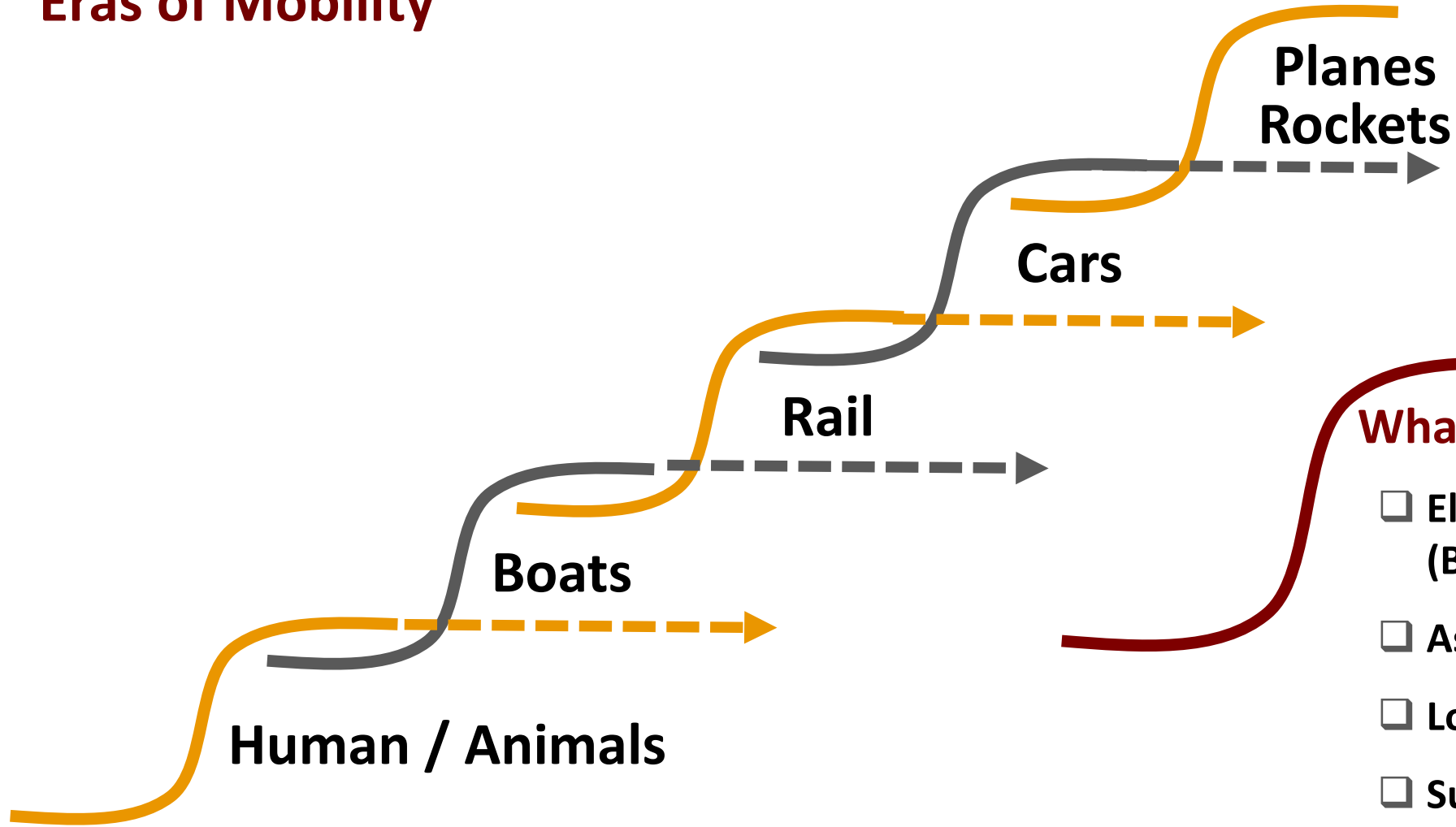
Plateau of Change
*'Mainstreaming +
Diminishing Returns'*

Rapid Change
'Accelerating'

**Disruptions
lead to Next Era!!!**

Slow Change
'Emerging'

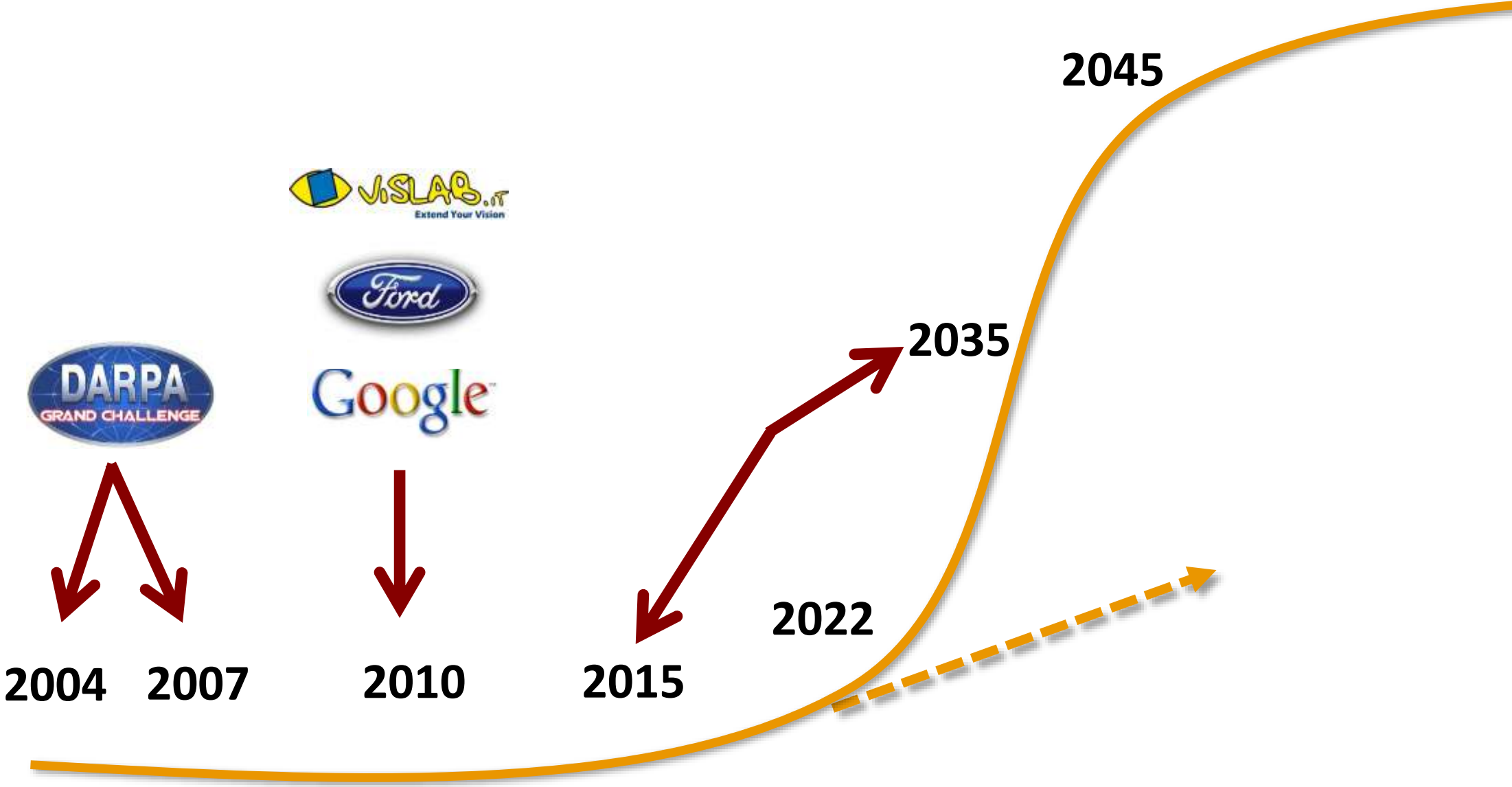
Eras of Mobility



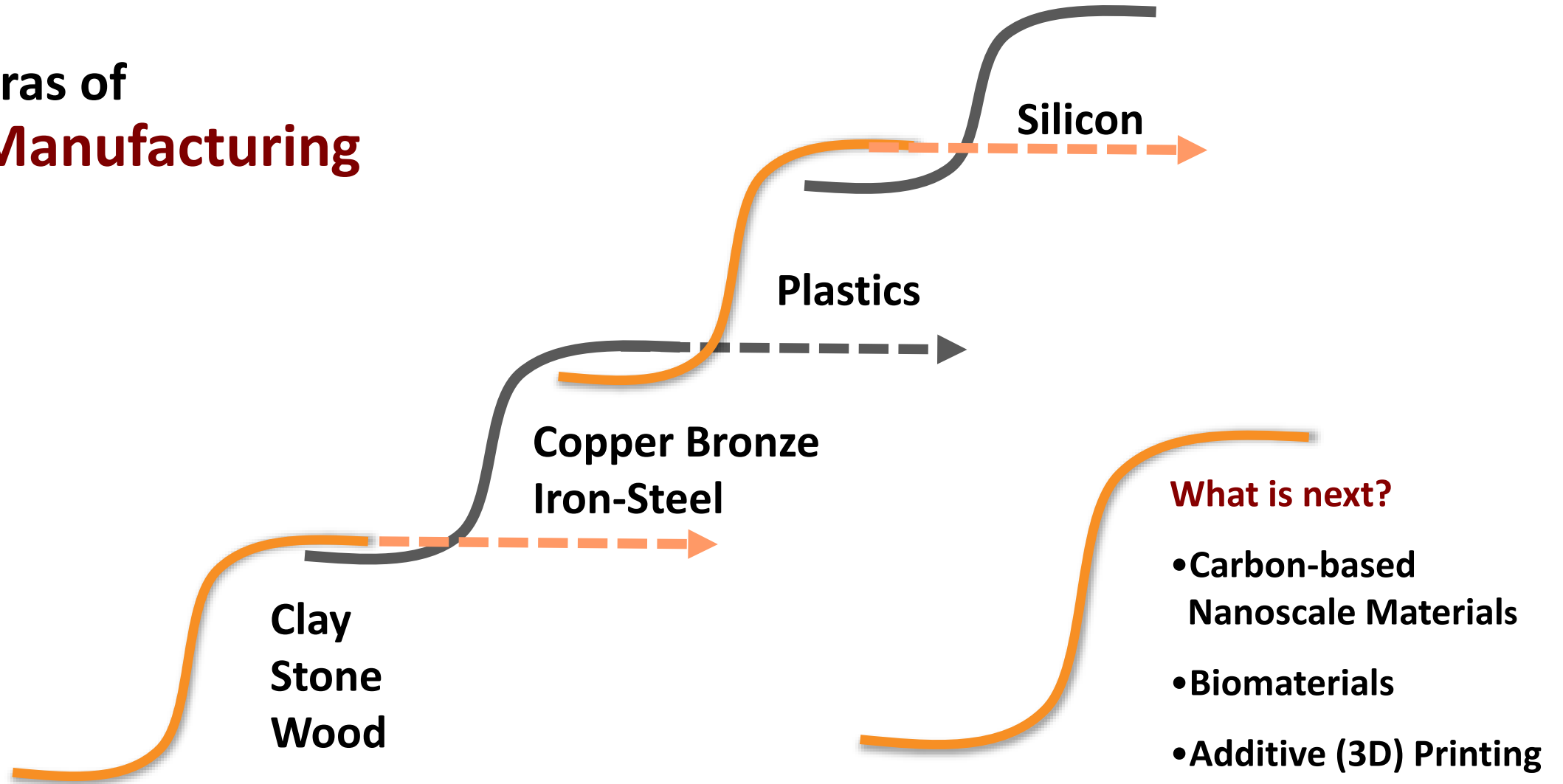
What is next?

- Electric Vehicles
(Battery + Fuel cell)
- Assistive + Autonomous
- Low-Volume Production
- Sub-orbital Space

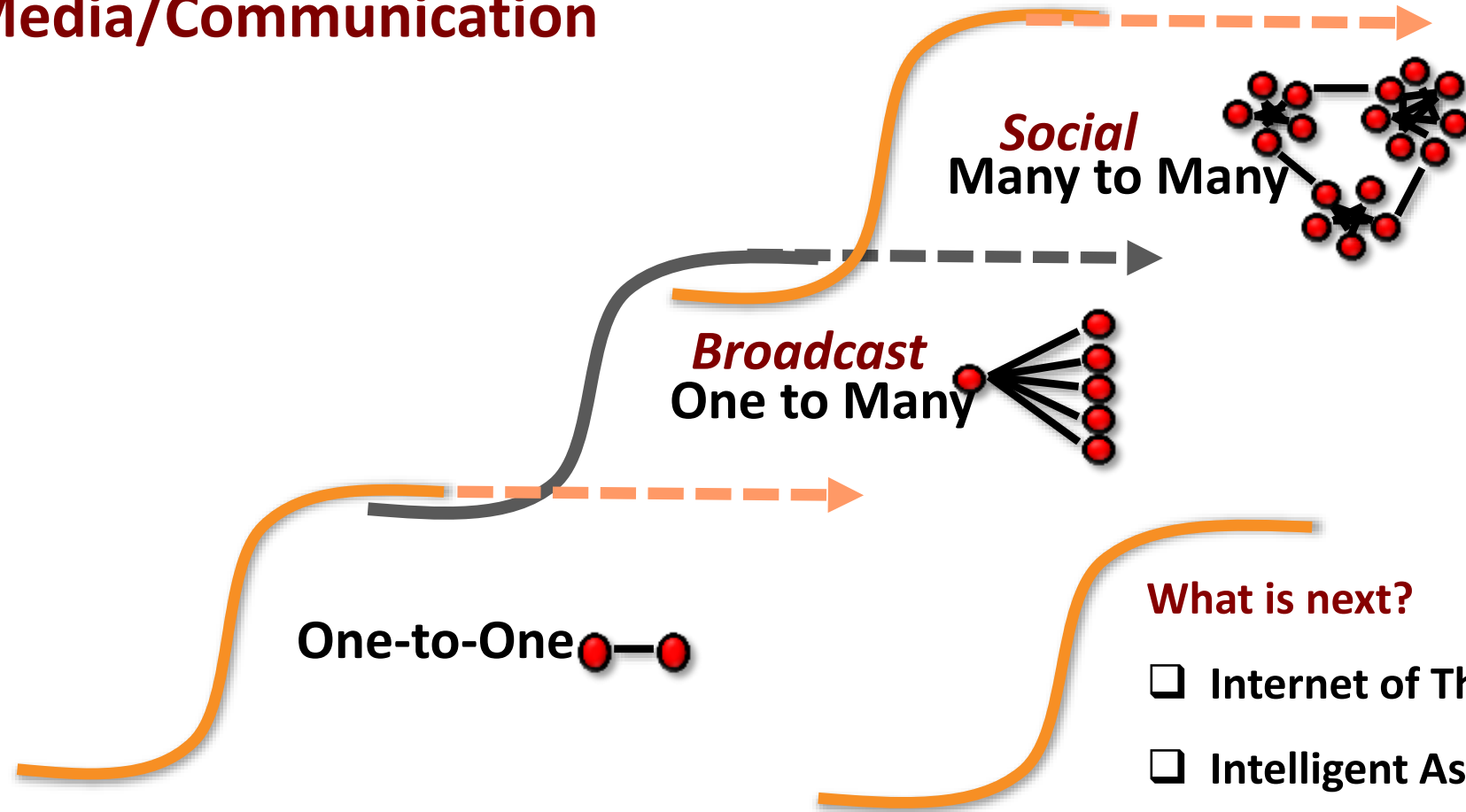
Tapping Your Inner Futurist: Monitoring Signals of Change



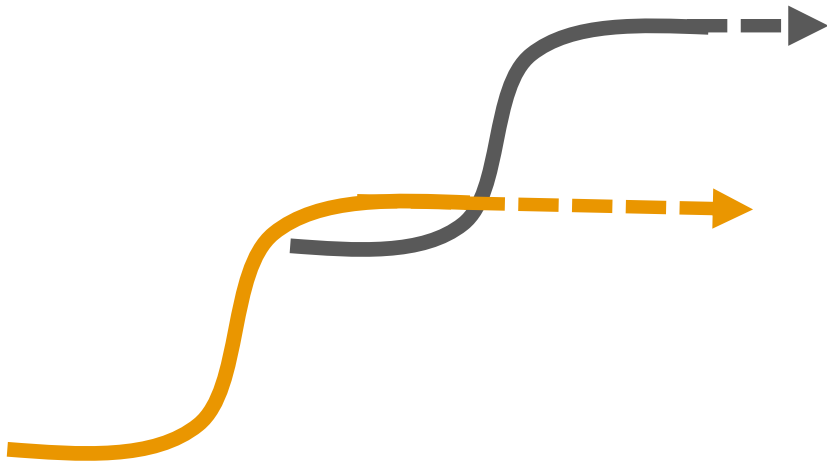
Eras of Manufacturing



Eras of Media/Communication



How will societies navigate S-curve transitions for...?



Education / Learning

Life stage to Lifelong; Online to AI-mediated

Healthcare / Wellness

Population Health; Outcomes-based Care; Genomics

Agriculture / Farming / Food

Precision Ag; Automation; Urban; Bio-; Small scale farmer

Transportation/Mobility

EVs, AVs, TNCs; Micro-mobility; Empowered Cities

Retail

Online; Hybrid Brick+Mortar; Localization

Media / Communication

Authentication/Verification; AI; IoT; Agents/Assistants

Entertainment

AI; Mixed Reality; Wellness Impact

2007



2017



2027

?

?

?

?

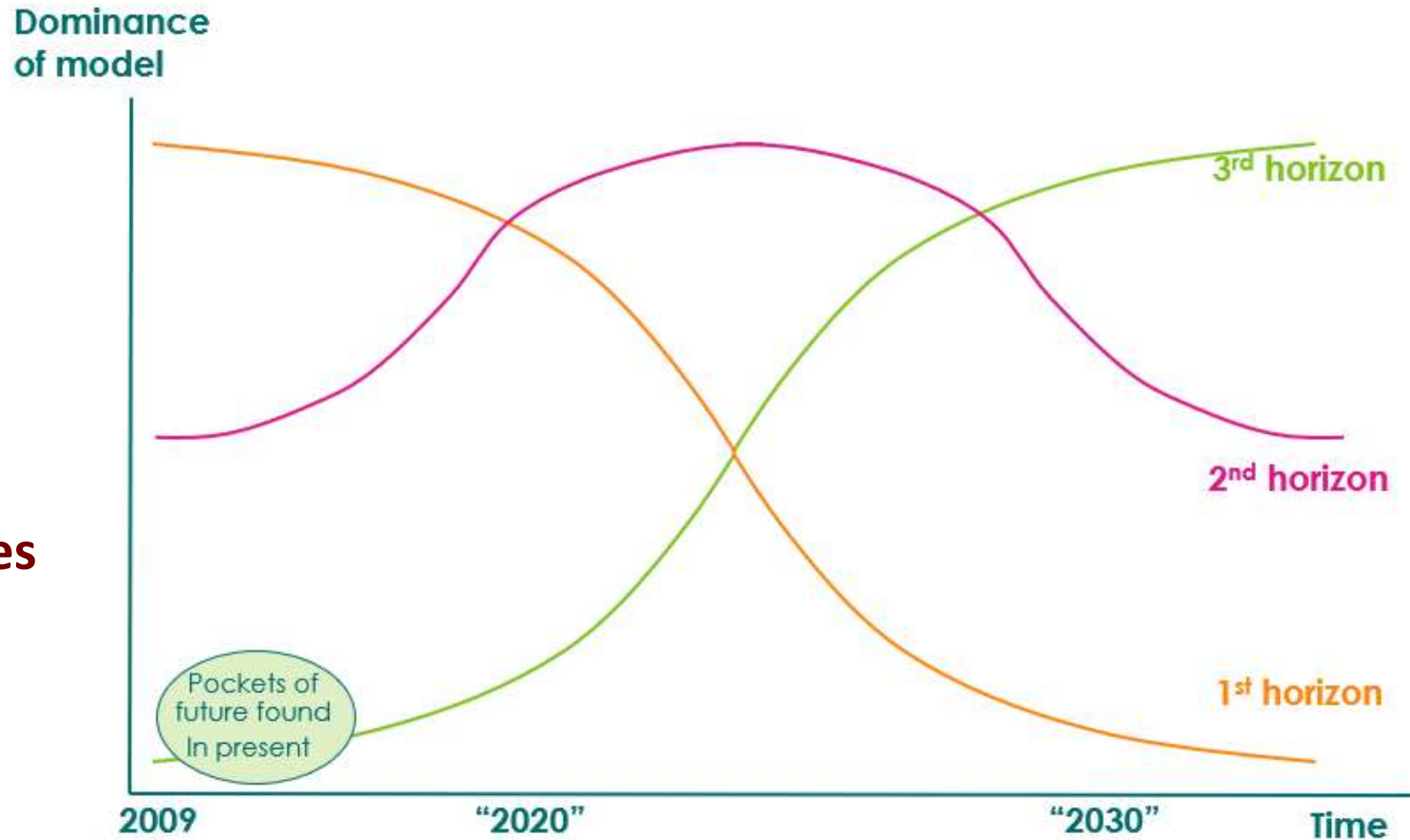
?

?

?

“Three Horizons” Model of Change (Bill Sharpe)

The Three Horizons of Library Experiences



Graphic courtesy of Andrew Curry, The Futures Company

Worksheet

Era-based Analysis

Worksheet: Era-bases Analysis of Change

Current Era: _____ Emerging Era: _____

<p>Vision & Mission - Who you are; Who you serve & how.</p> <p>Problems (JTBD) & Solutions - Customer <i>jobs to be done</i>.</p>		
<p>Operational Market Dynamics - Describe types of conditions. - Describe types of partners. - Describe types of acquisitions. - Regulatory landscape: Constraints or protective policies?</p> <p>Service Cycle - What do you provide? - How do you (<i>go to market</i>)? - How fast or slow do clients demands change? - What is considered innovative?</p>		
<p>Minor Eras - Were there small but significant platform transitions within the company or industry?</p> <p>Disruptive Elements - What elements challenge this era, and lead to changes in the company? - Are there constraints or 'limits to growth' within this era?</p>		

Worksheet: Era-based Analysis of Change

Current Era: _____

Emerging Era: _____

Vision & Mission

- Who you are; Who you serve & how.

Dynamics & Conditions

- **Dynamics of student (learner) experience**
- **Dynamics of an instructor experience**
- Dynamics of staff experience
- Dynamics of campus life
- Dynamics of alumni connections
- Describe partnerships
- Regulatory / **Policy** landscape:
Constraints or protective policies?

Programs, Products & Service

- What do you provide?
- How do you *launch new offerings*?
- How fast or slow do internal/external demands (expectations) change?
- What is considered innovative?

Minor Eras

- Were there small but significant transitions within the library, university or campus experience?

Disruptive Elements

- What elements challenge this era, and lead to changes in the company?
- Are there constraints or 'limits to growth' within this era?

Applying Foresight

- ❑ Work with colleagues in generating PoV on era-based transitions for the next decade of campus experiences
- ❑ **Surface three (3) assumptions** that might be discarded across the *S-curve* era transition
- ❑ **Identify three (3) *hunting ground*** opportunities for future success or organizational impact

Worksheet: Era-based Analysis of Change

	Current Era: _____	Emerging Era: _____
Vision & Mission - Who you are; Who you serve & how.		
Dynamics & Conditions - Dynamics of student (learner) experience - Dynamics of an instructor experience - Dynamics of staff experience - Dynamics of campus life - Dynamics of alumni connections - Describe partnerships - Regulatory / Policy landscape: Constraints or protective policies?		
Programs, Products & Service - What do you provide? - How do you <i>launch new offerings</i> ? - How fast or slow do internal/external demands (expectations) change? - What is considered innovative?		
Minor Eras - Were there small but significant transitions within the library, university or campus experience?		
Disruptive Elements - What elements challenge this era, and lead to changes in the company? - Are there constraints or 'limits to growth' within this era?		

Worksheet: Era-based Analysis of Change

Current Era: _____

Emerging Era: _____

<p>Vision & Mission - Who you are; Who you serve & how.</p>		
<p>Dynamics & Conditions - Dynamics of student (learner) experience - Dynamics of an instructor experience - Dynamics of staff experience - Dynamics of campus life - Dynamics of alumni connections - Describe partnerships - Regulatory / Policy landscape: Constraints or protective policies?</p> <p>Programs, Products & Service - What do you provide? - How do you <i>launch new offerings</i>? - How fast or slow do internal/external demands (expectations) change? - What is considered innovative?</p>	<p>Students bring social media (behaviors) to campus</p> <p>Health Services based wellness services</p> <p>Librarians help me..</p>	<p>Students bring lifelong experience data</p> <p>Health + Wellness integrated into all departments</p> <p>Librarians help me..</p>
<p>Minor Eras - Were there small but significant transitions within the library, university or campus experience?</p> <p>Disruptive Elements - What elements challenge this era, and lead to changes in the company? - Are there constraints or 'limits to growth' within this era?</p>	<p>Stacks to Social Study Spaces</p> <p>Shift to One Search Database</p>	

Write three (3) assumptions about the emerging era of campus and/or library experiences

I can do

at the library

The most
important
resource in the
library is..

Librarians
can help
me...

The Future is Accepting Trade-offs

Dr. Tanya Harrison and 9 others follow



John Burn-Murdoch @jburnmurdoch · 10h

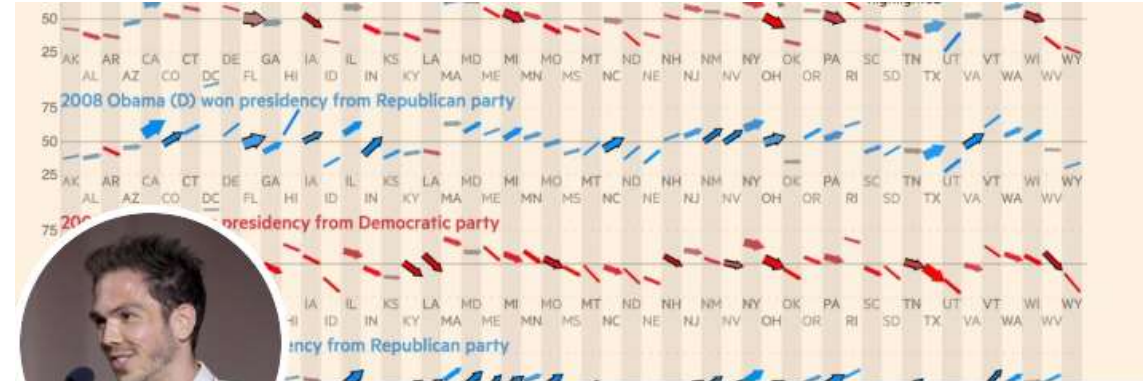
Google sent the @FT a cake to congratulate us on reaching 1m paying subscribers.

It's quite plain and the wrong shade of pink. Also doesn't really make up for the destruction of the news industry's revenue streams.

But thanks!



38 145 782



Follow

John Burn-Murdoch

@jburnmurdoch

Stories, stats & scatterplots for @FinancialTimes | Currently working on bias in AI | john.burn-murdoch@ft.com | #dataviz

Doncaster London & ft.com/jbm Joined June 2009

3,469 Following 28K Followers

Followed by Civil, Blazegraph, and 10 others you follow

Tweets

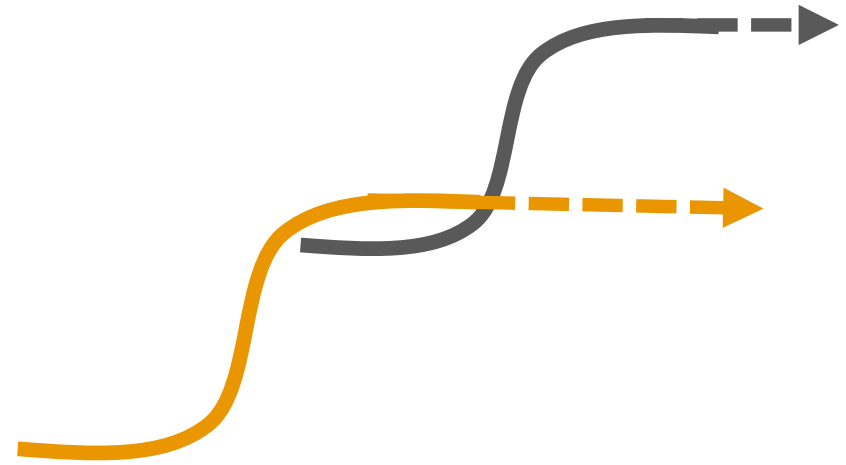
Tweets & replies

Media

Likes

**What excites you
about this new era?**

What does not excited you?



Fundamental Stages + Activities of Foresight

Investigate

Identifying
& Monitoring Change

- Horizon Scanning
- Emerging Issues Analysis
- Indicator Analysis
(Leading vs Lagging)



Imagine

Exploring Implications

- Forecasts
(Trend Extrapolation)
- Scenarios
(Alternative Assumptions)



Inspire

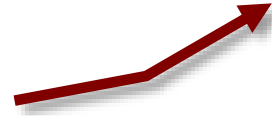
Communicating the
Need for Change

- Visioning & Backcasting
- Planning, Goal Setting & Roadmapping
- Transformation Management



Foresight 101: Mechanisms of Change

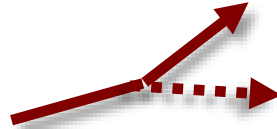
Trends
(Continuities)



Plausible
Future

Forecasts

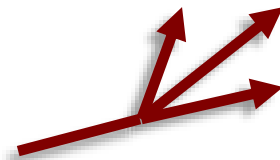
Events
(Discontinuities)



Possible
Futures

Scenarios

Choices
(Discontinuities)



Preferred
Future

Visions

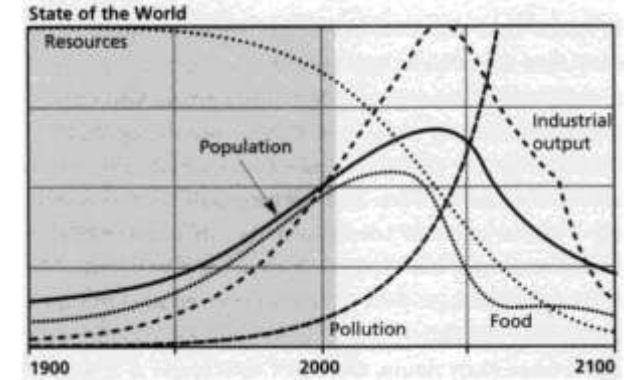
History and Evolution of Foresight



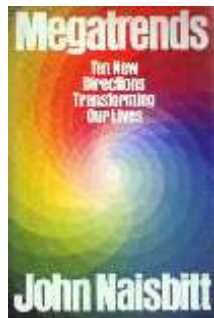
William Ogburn (1930s)
Social Change
(Society + Technology)



Herman Kahn ('50/60s)
RAND / Hudson Institute
Scenario-based Decisions

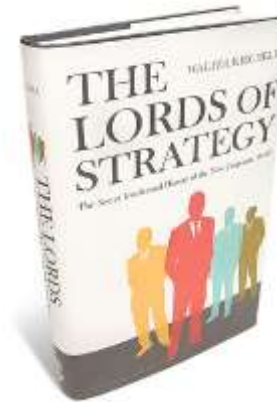


Club of Rome / *Limits to Growth* (70s)
Systems-based Simulations



MONITOR

McKinsey & Company



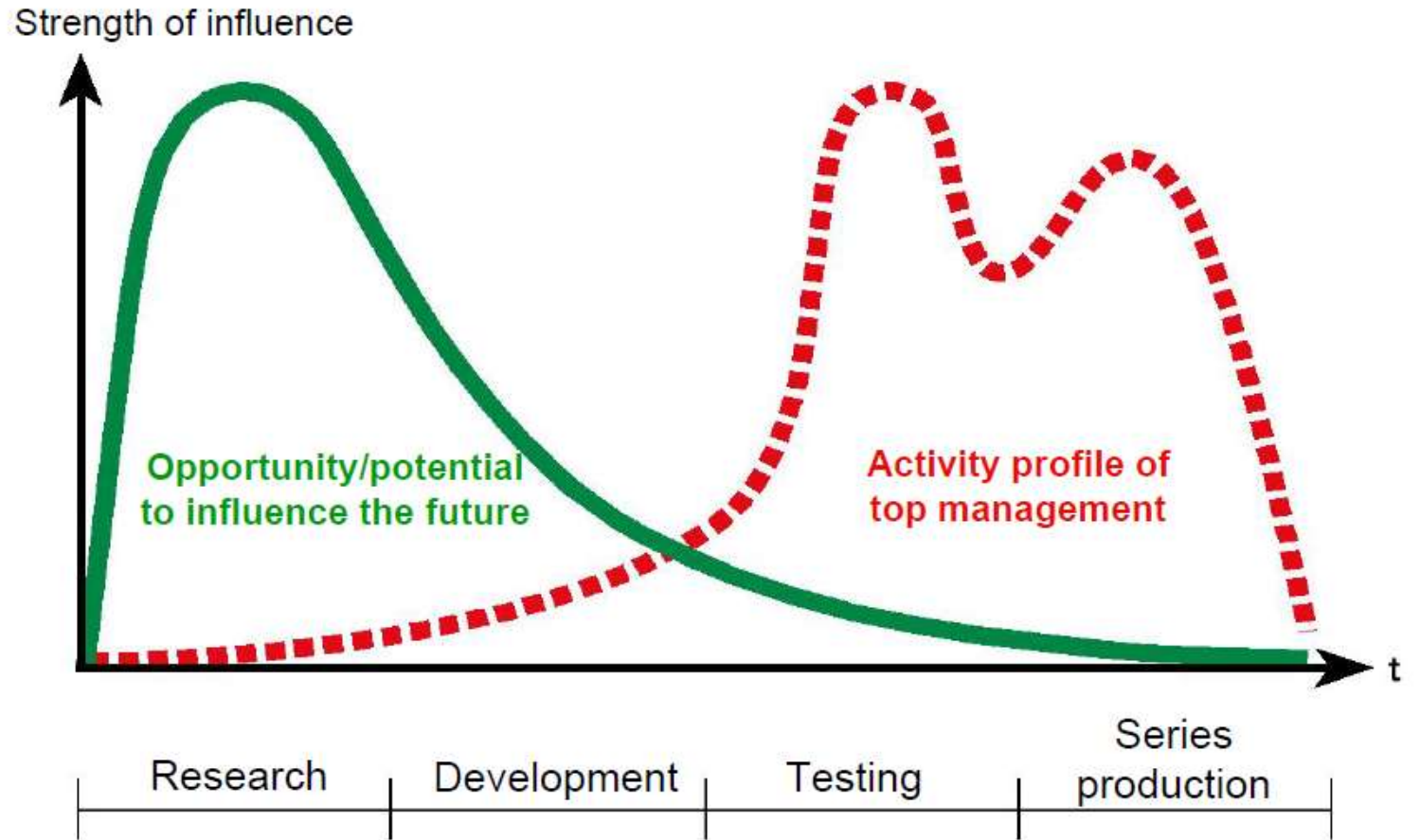
('80-Present)
Rise of Strategy Industry

2010s + Beyond
**Era of Integration,
Inclusivity &
Intervention?**

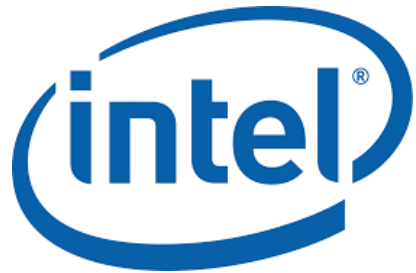
Why Corporate Foresight?

Knowledge about the future and the reach of decisions

**Expanding
Leadership
Capabilities**



Organizations with Futurists or Foresight Practices



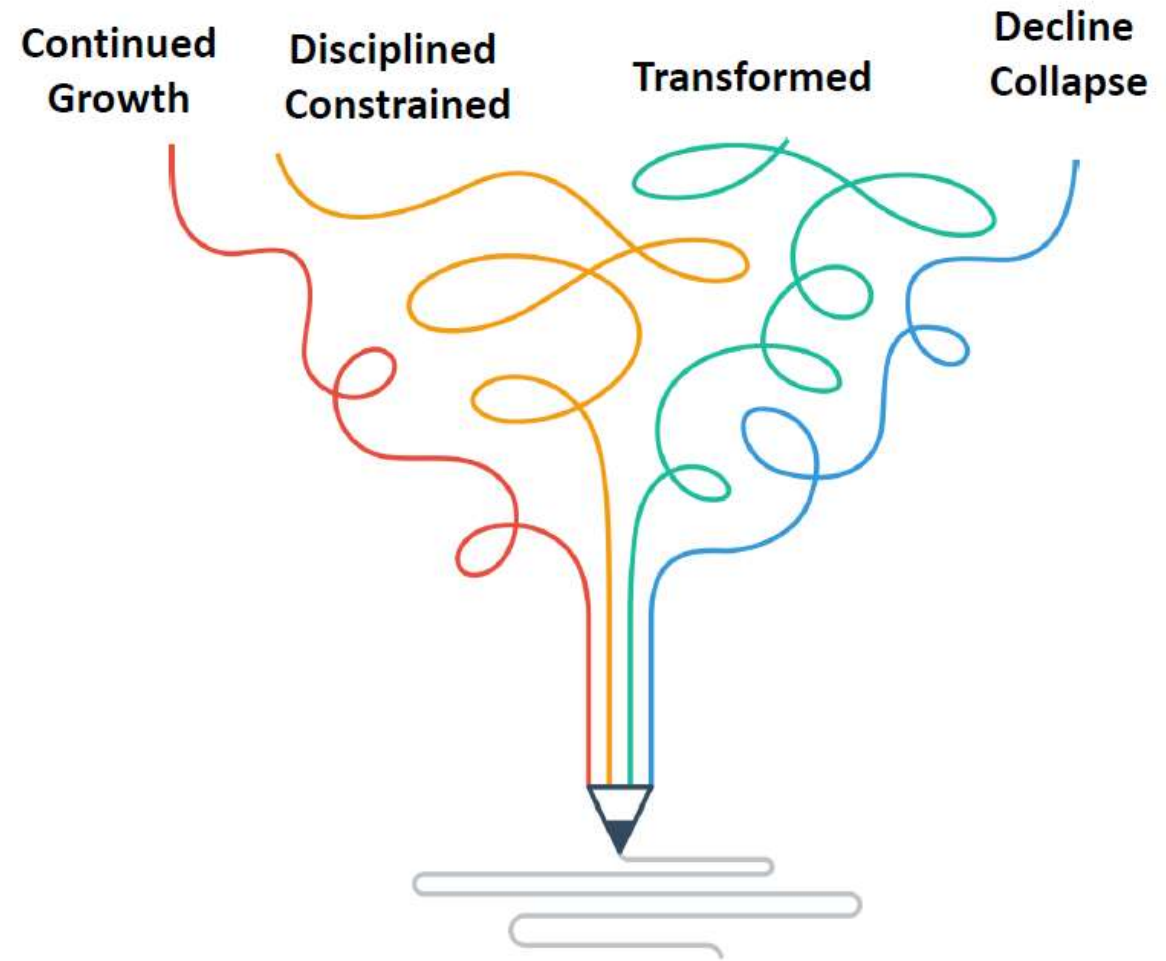
DAIMLER



ARUP



Four Futures



Four Futures Thinking



**Continued
Growth**



**Disciplined
Constrained**



Transformed



**Decline
Collapse**

Leadership Challenge: Write Your Four Futures



**Continued
Growth**



**Disciplined
Constrained**



Transformed



**Decline
Collapse**

Defining Innovation

What do you do? Outputs? Outcomes?



Innovation is ...

Defining Innovation

The ability to generate **new and useful ideas** that bring **value** to your *customers* and/or organization

Creative Mindset

PPCO

Pluses:

What is good about the idea as presented (no changes)?

Potentials:

What future benefits might result from this idea?

What else could this idea do? *"We could..."*

Concerns:

Phrase as open-ended questions.

"How might we...?" *"What are all the ways to...?"*

"How to...?"

Overcome:

Brainstorm ideas to overcome your concerns.



Slides Removed

Benefits of a PPCO Mindset

- 1. Keeps the good alive.**
- 2. Steers to practical thinking.**
- 3. Creates a safe environment.**
- 4. Builds teamwork.**
- 5. Saves time.**



IMAGINE
BEACH 2030

Beach 2030 – Library Themes

Draft: University Strategic Priorities for 2030

	Embrace Diversity as an Asset	Connect Learning to Impact	Expand Access to Learning	Amplify Research & Creative Activities	Be a Leader for Learning, Working and Playing	Design Culture of Campus Collaboration	Become Financially Resilient
I-Space / Services for 3D Printing							
Library Instruction / Smart Classrooms							
Digitized & Electronic Materials							
Universal Design; Disability Access; Alumni Access (Physical/Virtual)							
Increase Study Space							
Increase Parking Space (Mobility Solutions)							
Physical Library Operational Hours							

Our Job: Generate Ideas at Intersection of...

Beach 2030 – Library Themes

1. I-Space / 3D Services
2. Library Instruction / Smart Classroom
3. Digitized & Electronic Materials
4. Universal Design / Access
5. Increased Study Space
6. Increased Parking Space (Mobility Solutions)
7. Physical Library Hours

Draft: University

Strategic Priorities for 2030

1. Embrace Diversity as an Asset
2. Connect Learning to Impact
3. Expand Access to Learning
4. Amplify Research & Creative Activities
5. Be a Leader for Learning, Working and Playing
6. Design Culture of Campus Collaboration
7. Become Financially Resilient

IMAGINE
BEACH 2030



Seeing Bigger Picture...



**Future Role
of Place (Space)**



**Future of
Learning**



Innovation Spaces



**Campus Spaces
(including Parking!)**

Changing Role of Place (Space)



Study (Social) Spaces

Third Place
is a Real Thing



Pedestrian Friendly Zones



“Pop Up” Culture



Places for Connections: Live Experiences, Together



A YouTube video player showing a group of people at a bar reacting to Game of Thrones. The scene is dimly lit with green ambient lighting. In the foreground, a man with a beard and a floral shirt has his arms raised in excitement. Next to him, a woman with blonde hair is also reacting. The video player interface includes a progress bar at 2:56 / 11:24, a play button, and various control icons.

GAME OF THRONES Reactions at Burlington Bar S6E10 /// WINDS OF WINTER Pt 1 \\\

Sean L
Subscribe 53,725

1,397,048 views

+ Add to Share ... More

16,797 875

Retail Healthcare



A Space Apart

College libraries contemplate meditation rooms

By [Ronnie Wachter](#) | January 2, 2018

Places to Pause...
Mindfulness
Meditation
Sensory Enhancements
Sensory Deprivation
Play with Dogs



Librarians Megan Donald (left) and Emily Tichenor of Tulsa (Okla.) Community College sit in the meditation room at the West Campus Library.

Photo: Tulsa (Okla.) Community College

HUMBOLDT STATE UNIVERSITY



Brain Booth

~ Stop by and relax ~
Try out biofeedback, sound and light therapy, VR goggles, coloring, meditation, and other activities that promote intentional brain breaks and support emotional self-regulation and singular thoughtful focus.

Hacking Places The Experience is the Destination

Hacking The Audio Experience: Museum Hack Is Part Of SFMOMA's New Tours!



A Fun, New Experience in NYC, DC, San Francisco
& Chicago

We Lead Renegade Museum Tours for Individuals,
Private Groups & Company Team Building

**Library Teaches
Place-based
Programming**



The Rise of Educational Escape Rooms

Why UV lights and padlocks are finding their way into classrooms



Engineering Library Escape Room

Looking for inventors, puzzle-lovers, adventure-seekers, escape room aficionados!

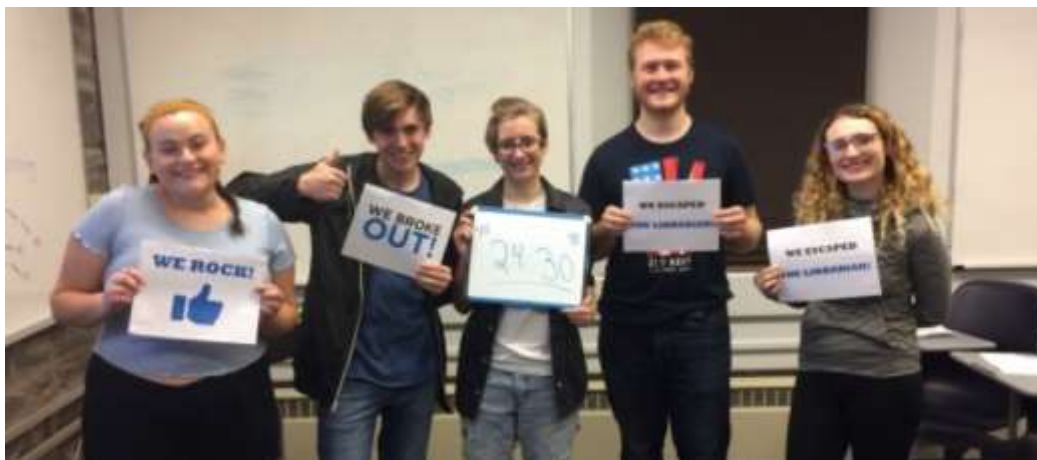
Escape Rooms

Definitely 'Fad' Elements

(but you can integrate research skills)

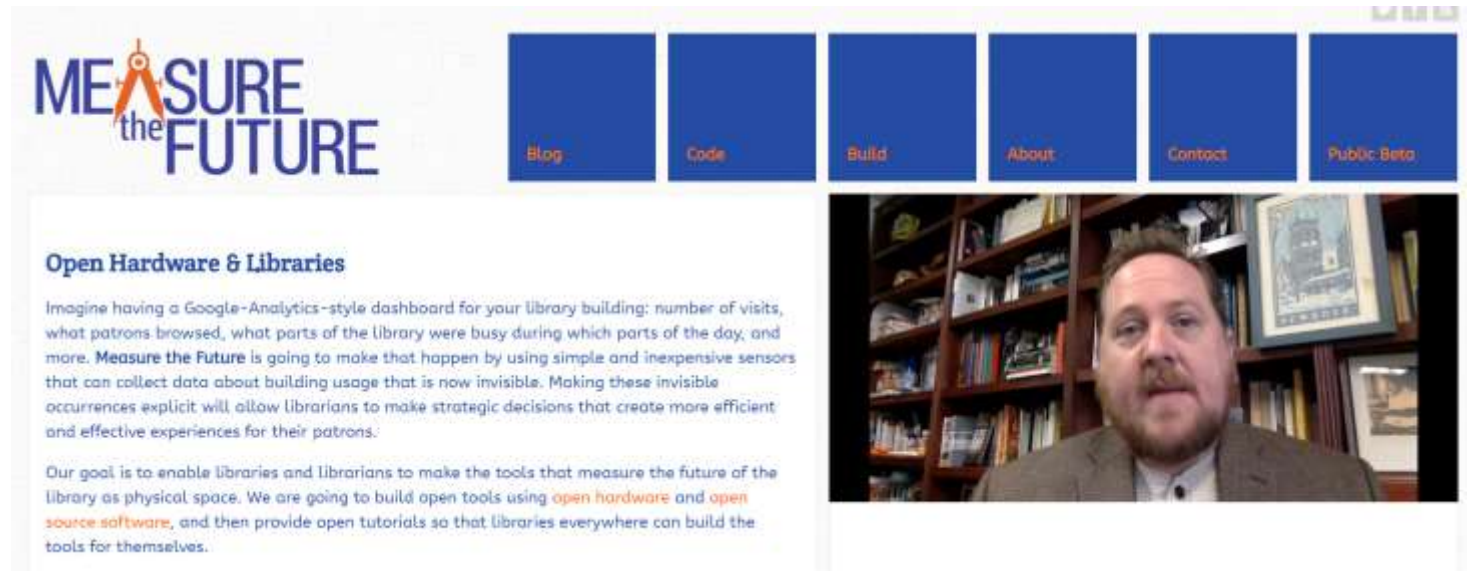


Ursinus College *Escape the Librarian* escape room



Place Use-Data

...Google Analytics for the libraries and campus buildings



MEASURE the FUTURE

Blog Code Build About Contact Public Beta

Open Hardware & Libraries

Imagine having a Google-Analytics-style dashboard for your library building: number of visits, what patrons browsed, what parts of the library were busy during which parts of the day, and more. **Measure the Future** is going to make that happen by using simple and inexpensive sensors that can collect data about building usage that is now invisible. Making these invisible occurrences explicit will allow librarians to make strategic decisions that create more efficient and effective experiences for their patrons.

Our goal is to enable libraries and librarians to make the tools that measure the future of the library as physical space. We are going to build open tools using **open hardware** and **open source software**, and then provide open tutorials so that libraries everywhere can build the tools for themselves.

Open Hardware



Smart Libraries



Open Tutorials



Jason Griffey



How Barclays' age-simulation suit is helping its staff empathise with elderly customers



James Day for Metro.co.uk Wednesday 20 Nov 2013 6:00 am



37



James Day tests out the age-simulation suit (Picture: Daniel Lynch)

Universal Design Empathy Principles

MIT



The 7 Principles of Universal Design:

PRINCIPLE ONE: Equitable Use

The design is useful and marketable to people with diverse abilities.

PRINCIPLE TWO: Flexibility in Use

The design accommodates a wide range of individual preferences and abilities.

PRINCIPLE THREE: Simple and Intuitive Use

Use of the design is easy to understand, regardless of the user's experience, knowledge, language skills, or current concentration level.

PRINCIPLE FOUR: Perceptible Information

The design communicates necessary information effectively to the user, regardless of ambient conditions or the user's sensory abilities.

PRINCIPLE FIVE: Tolerance for Error

The design minimizes hazards and the adverse consequences of accidental or unintended actions.

PRINCIPLE SIX: Low Physical Effort

The design can be used efficiently and comfortably and with a minimum of fatigue.

PRINCIPLE SEVEN: Size and Space for Approach and Use

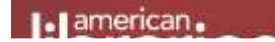
Appropriate size and space is provided for approach, reach, manipulation, and use regardless of user's body size, posture, or mobility.

Places that Do Check-ins, Audits & Self Work



The Organic Role of Libraries as Centers of Inclusiveness and Support

By  STEVE DUBB | January 24, 2019



The iCount Initiative: Removing Barriers to Equity



Library Equity Action Plans (LEAPs)



Skye Patrick

On-Demand(ness)

Scheduling Here or Anywhere

The screenshot shows the LiQUIDSPACE website homepage. At the top left is the LiQUIDSPACE logo, and at the top right are navigation links for "Find Space", "List Space", and "Enterprise". The main heading is "Office Smarter", followed by the subtext "Engage the largest commercial real estate network to find and book office space." Below this is a navigation bar with three buttons: "Find" (highlighted in teal), "List", and "Connect". A search bar is positioned below the navigation bar, containing the text "Where do you need space?" and a red "Find Space" button. The background of the entire page is a photograph of a bright, modern office space with wooden tables, chairs, and large windows.



Place-based Innovations via Computer Vision

HACKERS CAN SPY ON AND HIJACK AMAZON DOORBELL'S VIDEO FEED



Mall operator suspends use of facial recognition as Canadian privacy commissioners investigate legality

🕒 Aug 6, 2018 | [Chris Burt](#)

Micro Mobility





Mobility + Accessibility

Safety, Equity + Access

Autonomous People Movers Coming Soon!



Deliver to My Place

SELF-DRIVING PRODUCE —

Forget deliveries—this firm wants to bring a grocery store to your driveway

"It's not a delivery vehicle, it's an autonomous store on wheels," CEO tells Ars.



Kroger and Nuro Expand Unmanned Grocery Delivery to Houston

Place-based Messaging & Personal Safety Staff Trained on Cues

Courtesy of Safer Communities Sexual Violence and Abuse Partnership, Lincolnshire. Originators of the 'Ask for Angela' poster campaign part of the #NoMore sexual violence and abuse in Lincolnshire awareness Campaigns. www.lincolnshire.gov.uk/home

#ASK FOR ANGELA

“ HI I'M ANGELA,

ARE YOU ON A DATE THAT ISN'T WORKING OUT?

DO YOU FEEL LIKE YOU'RE NOT IN A SAFE SITUATION?

IS YOUR TINDER OR POF DATE NOT WHO THEY SAID THEY WERE ON THEIR PROFILE?

DOES IT ALL FEEL A BIT WEIRD?

IF YOU GO TO THE BAR AND ASK FOR 'ANGELA' THE BAR STAFF WILL KNOW YOU NEED SOME HELP GETTING OUT OF YOUR SITUATION AND WILL CALL YOU A TAXI OR HELP YOU OUT DISCREETLY - WITHOUT TOO MUCH FUSS ”

www.met.police.uk/AskforAngela

Call **101** for non-emergency enquiries, to report an incident or get help.

If you're deaf or hard of hearing, use our textphone service on **18001 101**.

Call **999** if it's an emergency or a crime is in progress.

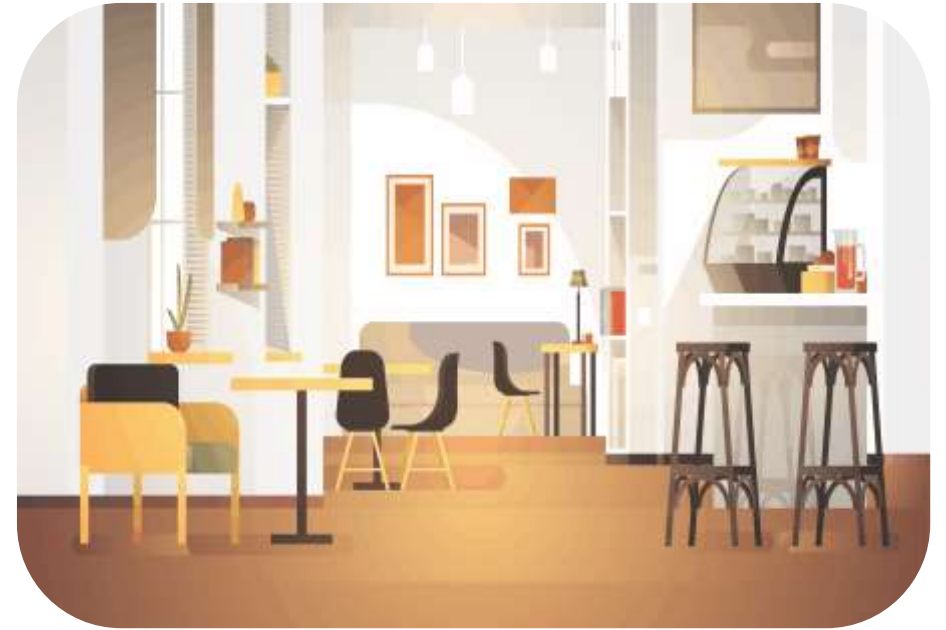


 METROPOLITAN POLICE



DMCT102

What are themes you see in the changing nature of place?



Generate Ideas to Transform Place/Space-based Library Experiences



Innovation Spaces



**Campus Spaces
(including Parking!)**

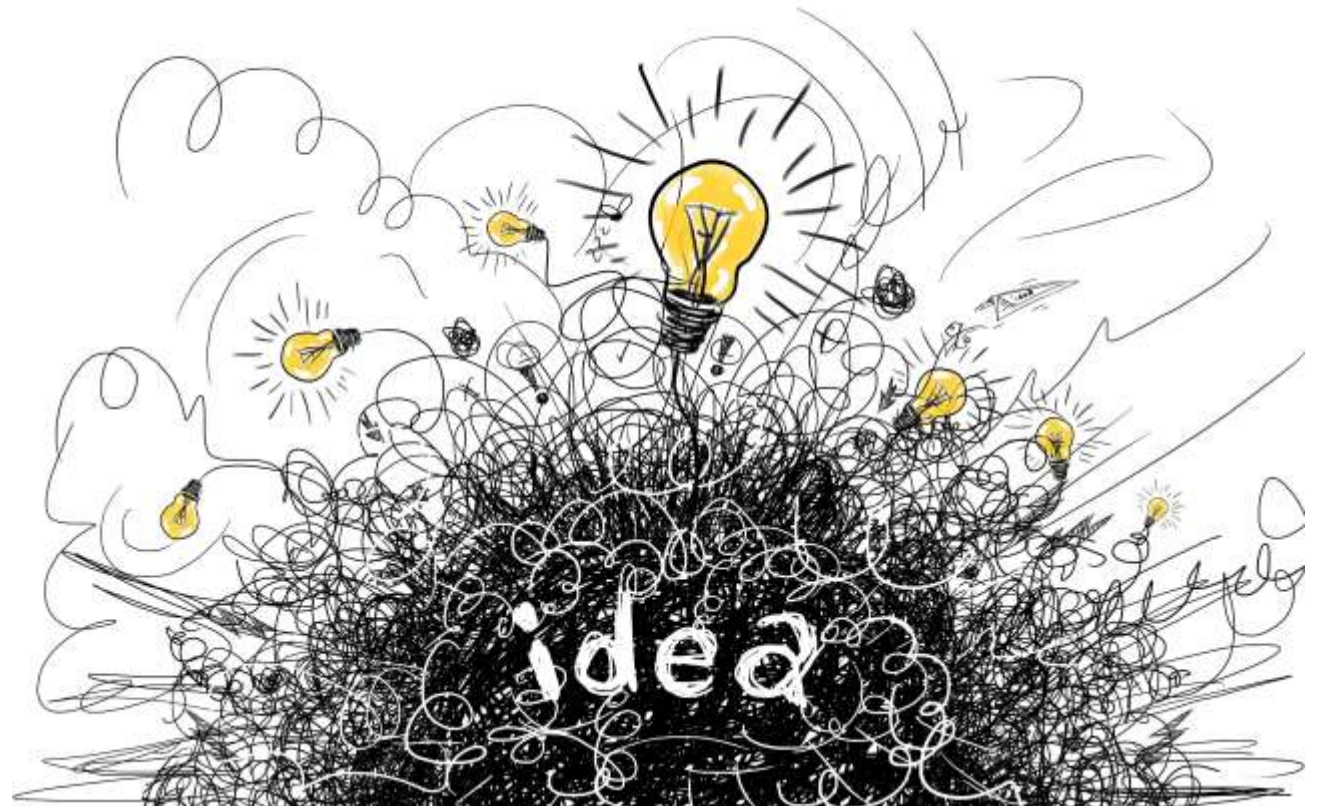


Study (Social) Spaces

Brainstorming

Guidelines

- Push for quantity
- Don't censor
- Build on other ideas
- Seek wild ideas



Generate Ideas to Transform Place/Space-based Library Experiences



Innovation Spaces

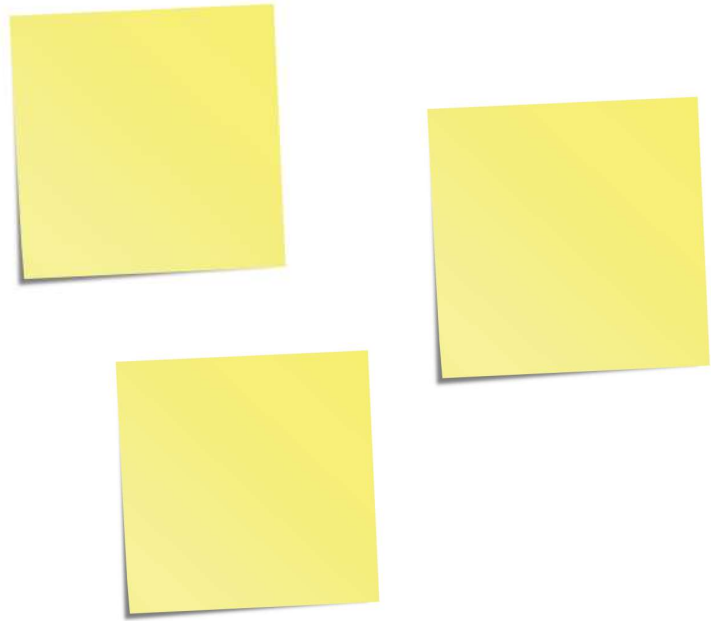


**Campus Spaces
(including Parking!)**



Study (Social) Spaces

Ideas to Transform Place/Space-based Experiences



Share with Partner
(Synthesize... New Ideas)



Gets You Fired!!
(Sorry, too radical for us...)

Framing Ideas to Transform Place-based Experiences



POSITIVE IMPACT ON CSULB LIBRARY EXPERIENCE



**Future Role
of Place (Space)**



**Future of
Learning (Teaching)**



Future of Learning (Teaching)



**Library Instruction
(Smart Classrooms)**



**Digitized &
Electronic Materials**



Expanding Information Literacies



Digitized & Electronic Materials

DIGITAL LITERACY

Expanding Information Literacies

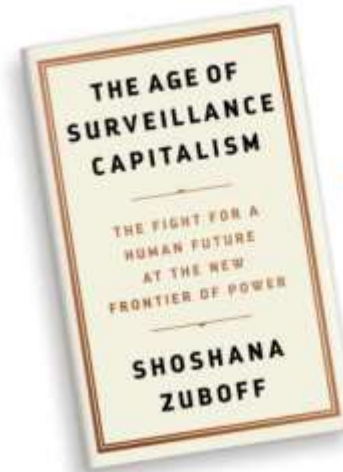
**INSIDE
HIGHER ED**

Information Literacy's Third Wave

| The daunting complexity of becoming information literate today.

By [Barbara Fister](#)

// February 14, 2019



**THEY'RE WATCHING YOU...
WITH YOUR FULL CONSENT.**

How might this definition change? (Be challenged)

Cornell University defines digital literacy as “the ability to find, evaluate, utilize, share, and create content using information technologies and the Internet.”



Evolution of New (Data and Digital) Literacies



Campus Elevation of Issues on AI, Ethics, Algo Bias

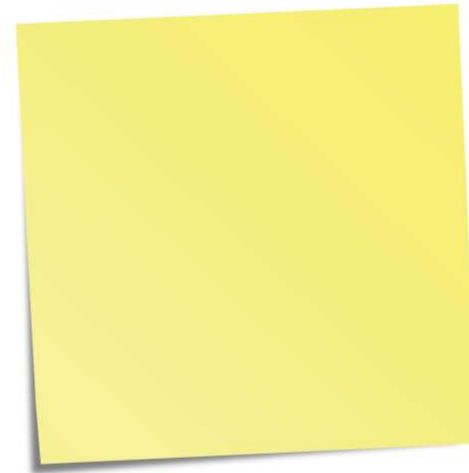


Annabel Daou



American Artist's Faraday Study is a small room library visitors can use to read, study, and plan, absent of any cell service or WiFi signal.

DIGITAL LITERACY



Expanding Information Literacies

**Is Privacy Dead?
Or Being Defined Around Agency?**

Let's not Forget Reading Literacy & the Prepared Mind



**Digitized &
Electronic Materials**

**vs Print for
Comprehension**



The Reading Mind in the Digital Age

3 views

LIKE DISLIKE SHARE SAVE ...

Start 3:25

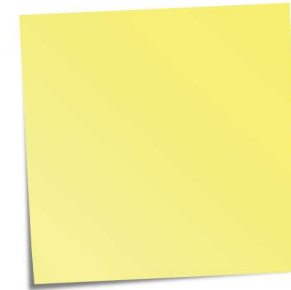
*How might we rethink digitization to digital literacies,
and role of print in age of digital mind?*



Start



Stop



Continue





Future of Learning



**Library Instruction
(Smart Classrooms)**



**Digitized &
Electronic Materials**



Expanding Information Literacies

Generating New Ideas (Criteria) for Library Instruction

1. Not Something You Have Done Before
2. Have Serious **WOW** Factor
3. Transform Library Instruction in a positive way



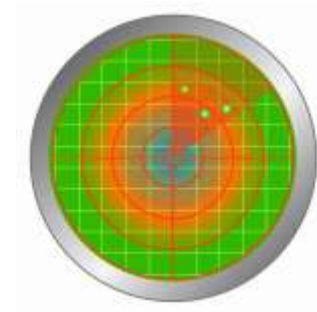
**Library Instruction
(Smart Classrooms)**



*Foresight 101
Era-based Change*



Generating Ideas



**Scanning
for Signals**



**Wrap up
Next Steps**



Signal Slides Removed



*Foresight 101
Era-based Change*



Generating Ideas



Scanning
for Signals



**Wrap up
Next Steps**



Launch Conversation on Who do we want to be...?

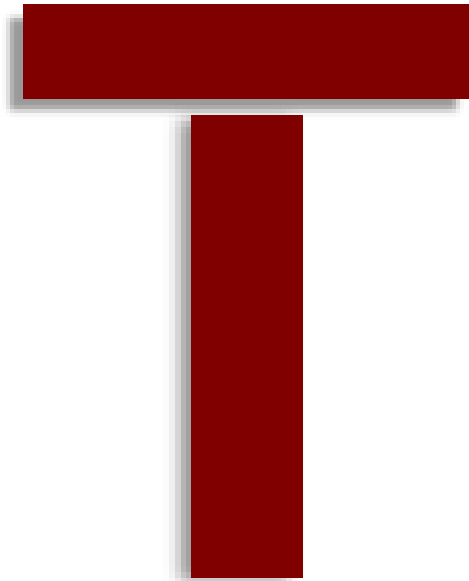


“I” Shaped Person
Success via Specialization



“T” Shaped Person
Success via Integration

What do we want to be as T-Shaped Individuals?



“T” Shaped
Professional Community

Also Trained in?

Ethics
Behavior Science
Cyber Security
Aging
Systems Thinking
Experience Design
Service Design

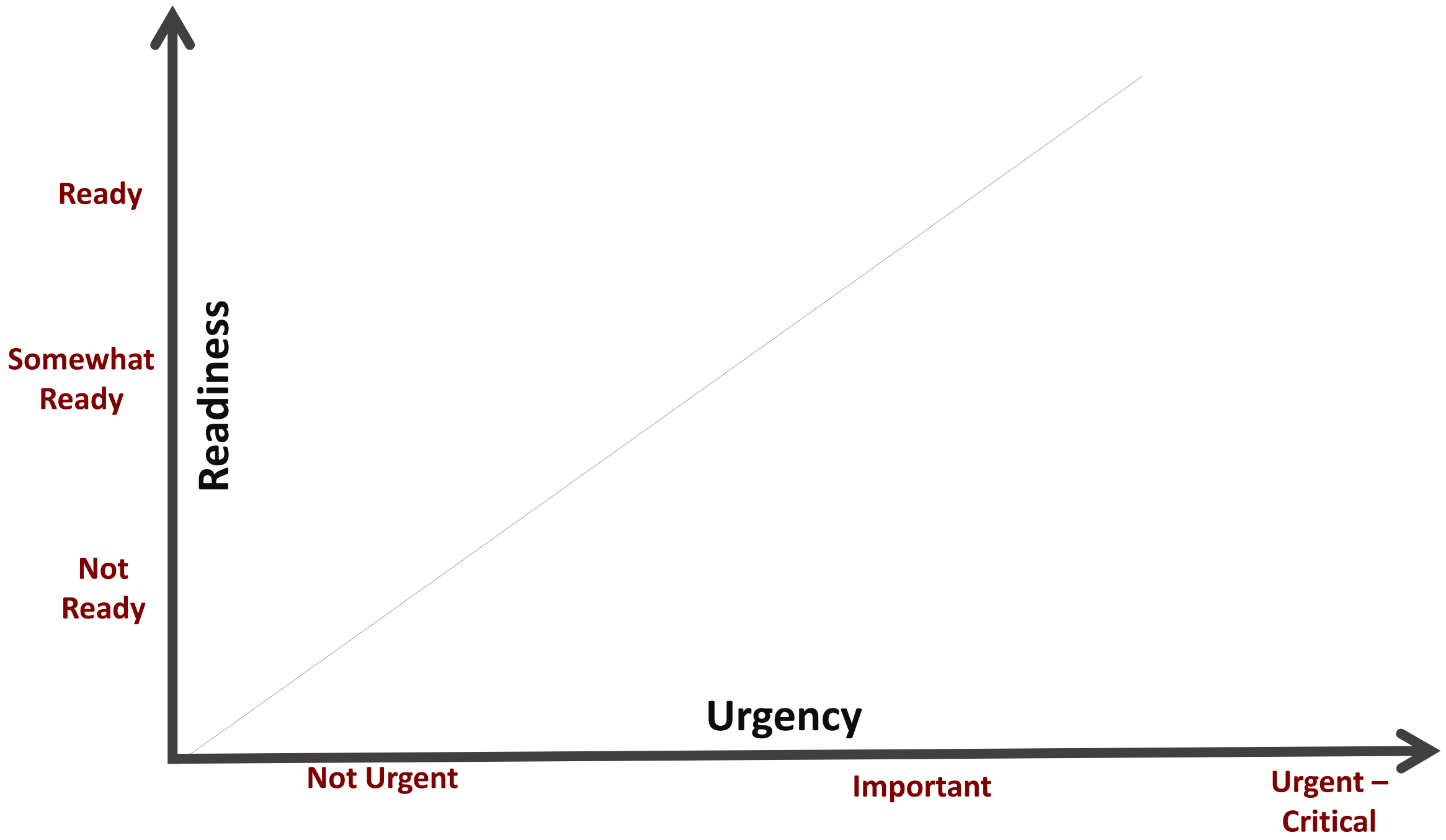
Psychology
Data Science
Crypto / Blockchain
Restorative Practice
3D Design & Manufacturing

Write three T-Shaped skill sets and/or mindsets



The Most Ah-Ha Idea of the Day...

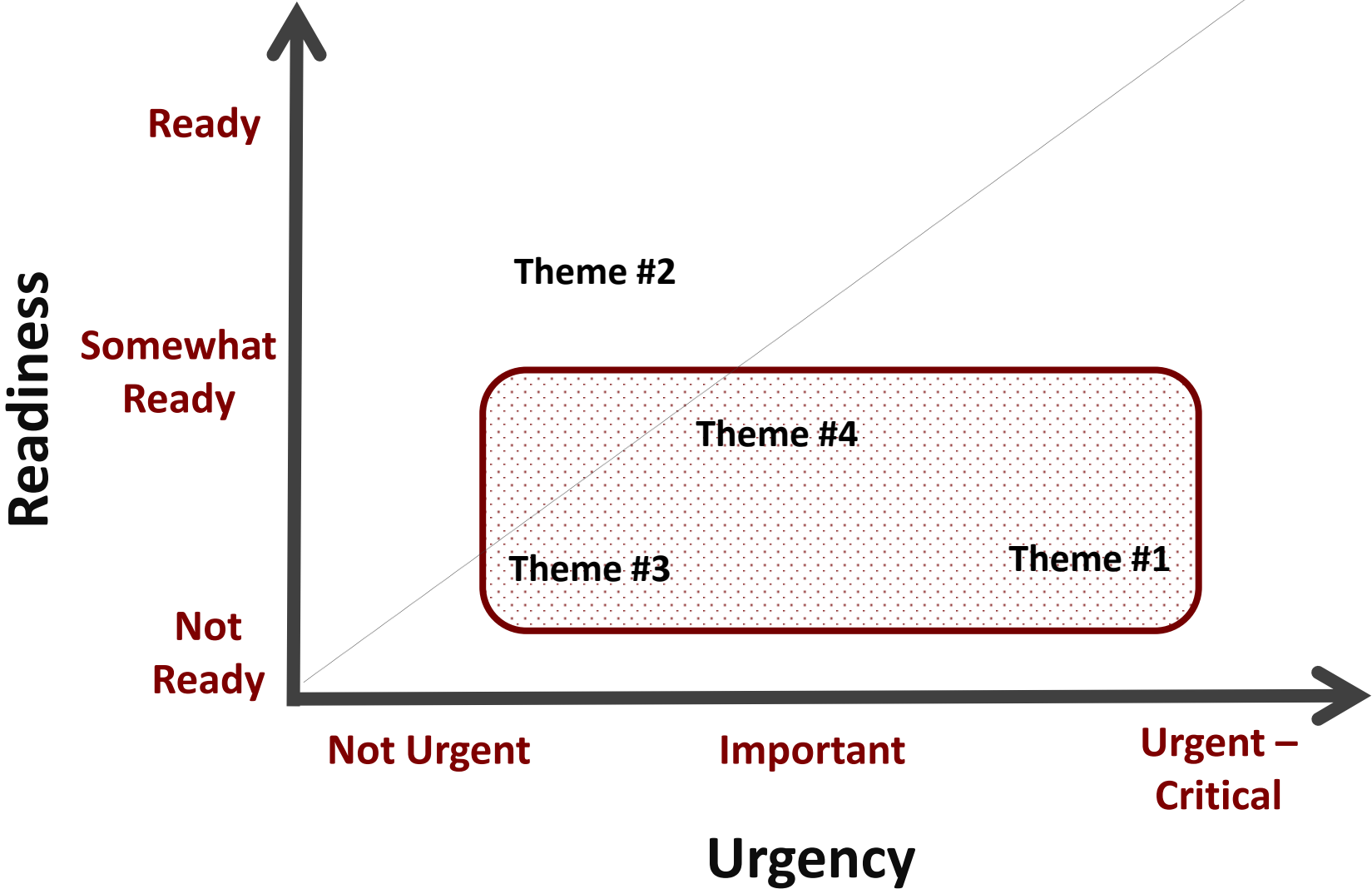
**By 2030 we must
be able to...**



Take a Pulse Check on Emerging Trends vs Organizational Appetite

Top Trends/Themes

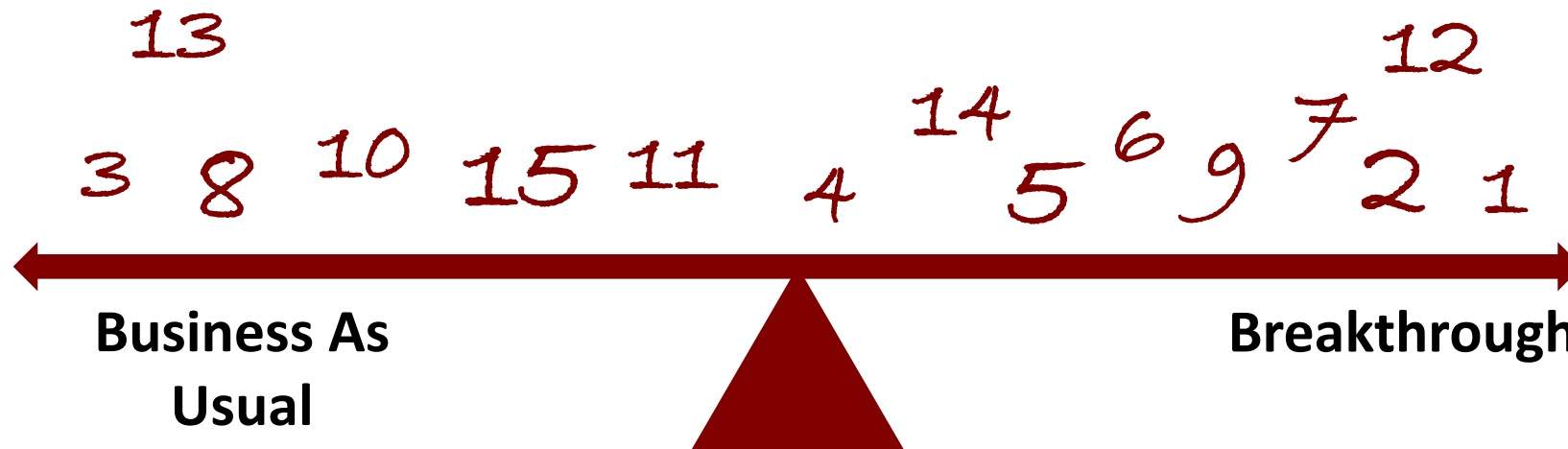
- 1)
- 2)
- 3)
- 4)
- 5)



Balancing Your Ideas Portfolio

1. Write **Business as Usual** and **Breakthrough** at either end of the spectrum
2. Consider each idea and **place it** somewhere along the line

TEAM NAME: _____		PRACTICAL INNOVATION TEAM PORTFOLIO	
GENERATING IDEAS			
1. <u>Amazing idea</u>		11. <u>Another amazing idea</u>	
2. <u>Another amazing idea</u>		12. <u>Amazing idea</u>	
3. <u>Amazing idea</u>		13. <u>Another amazing idea</u>	
4. <u>Another amazing idea</u>		14. <u>Amazing idea</u>	
5. <u>Amazing idea</u>		15. <u>Another amazing idea</u>	
6. <u>Another amazing idea</u>		16. <u>Amazing idea</u>	
7. <u>Amazing idea</u>		17. <u>Another amazing idea</u>	
8. <u>Another amazing idea</u>		18. <u>Amazing idea</u>	
9. <u>Amazing idea</u>		19. <u>Another amazing idea</u>	
10. <u>Another amazing idea</u>		20. <u>Amazing idea</u>	



Next Steps

IMAGINE
BEACH 2030

