The Future(s) of Campus Experiences
The Art & Science of
Looking at the Future







Foresight 101



**Drivers of Change** 



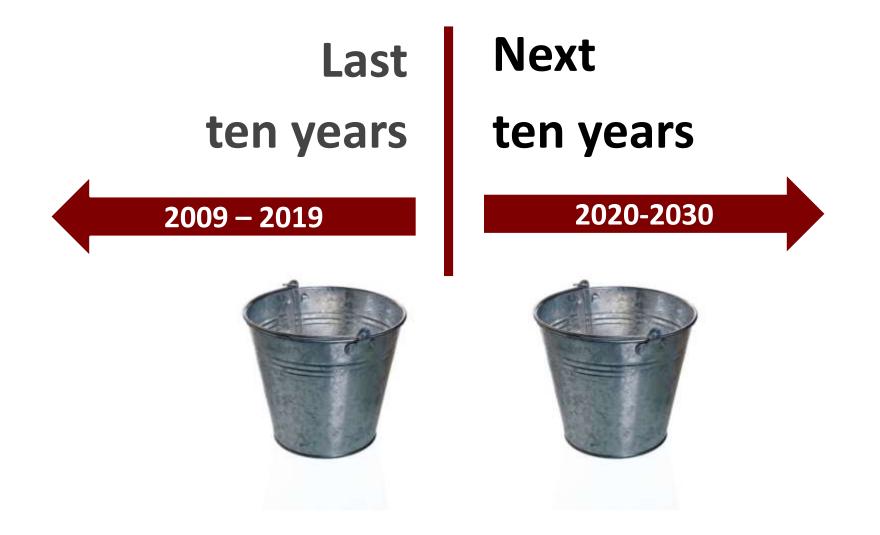
**Scanning for Signals** 

# Describe the first (or memorable) time you were asked to think about the future What? Why? How?





# More or Less Change Ahead?



# 2007













2027

?

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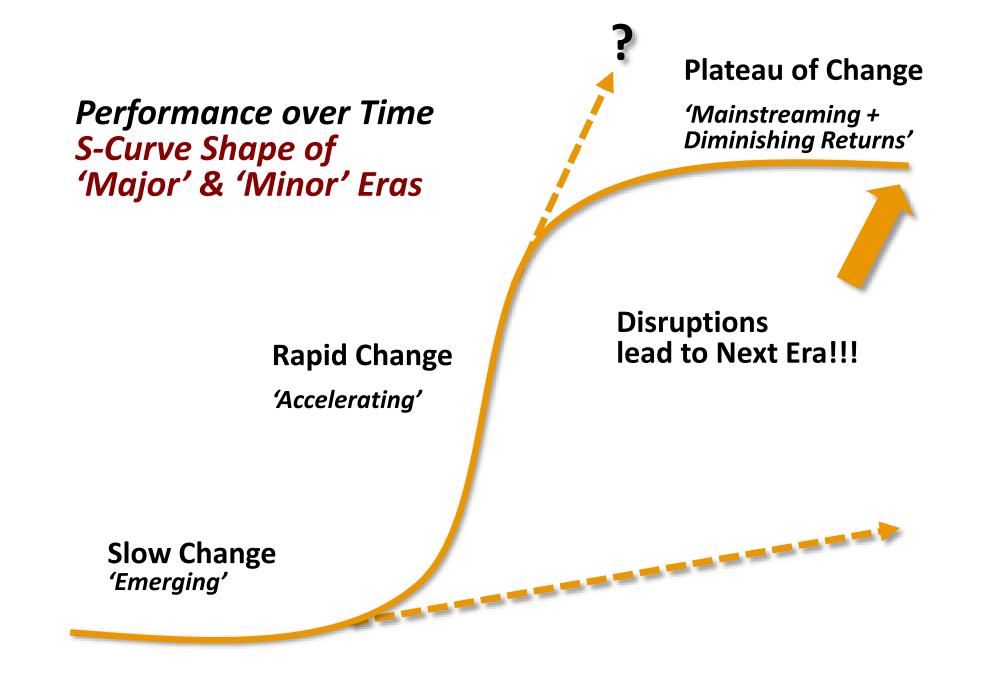
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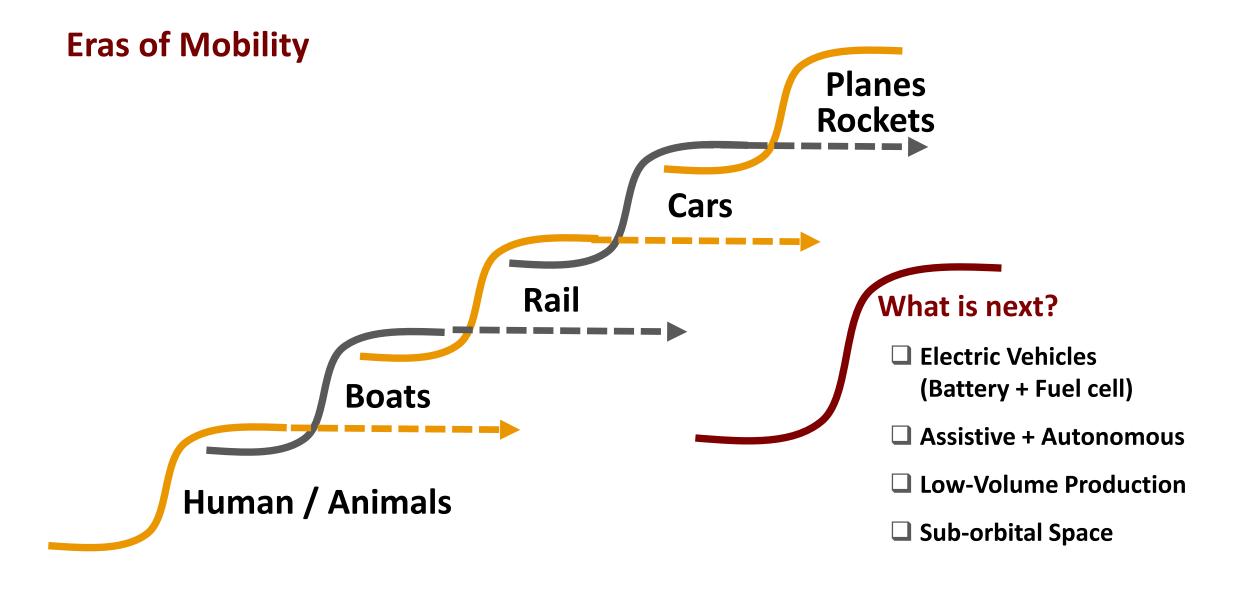
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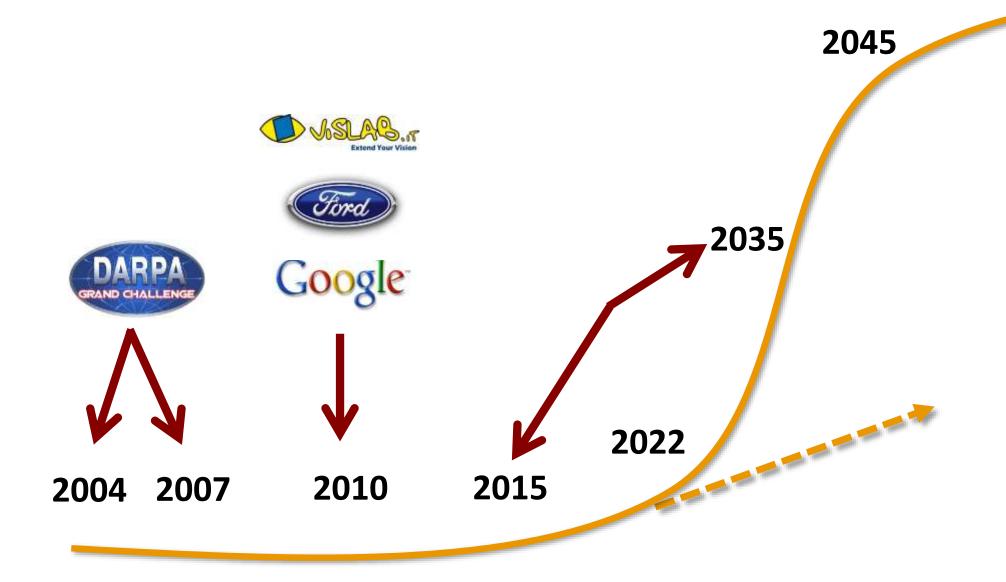
## **Era-based Dynamics of Change**

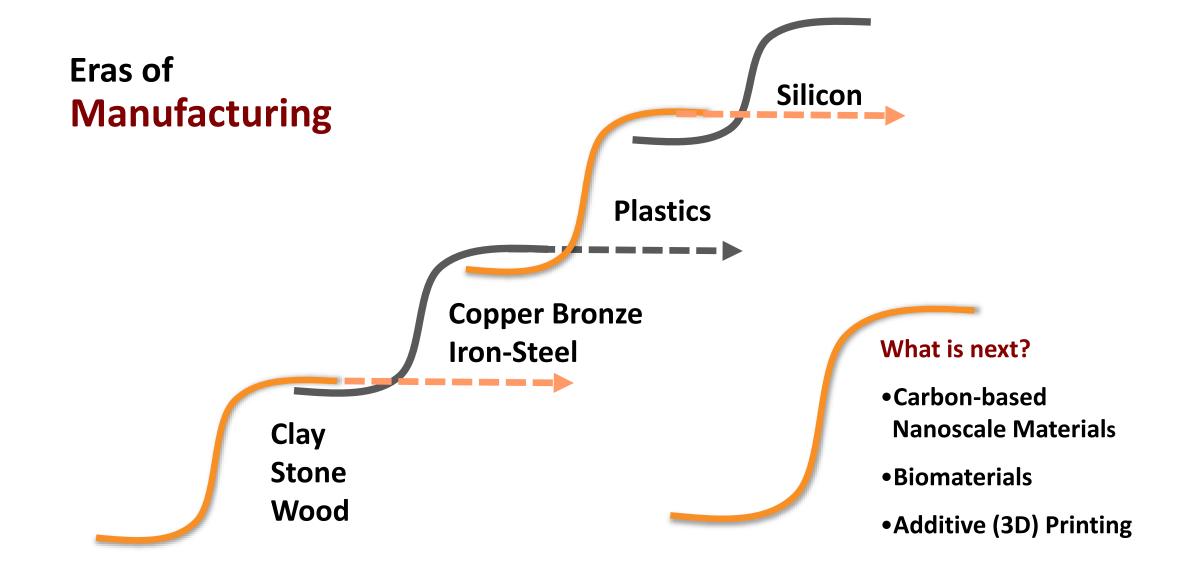


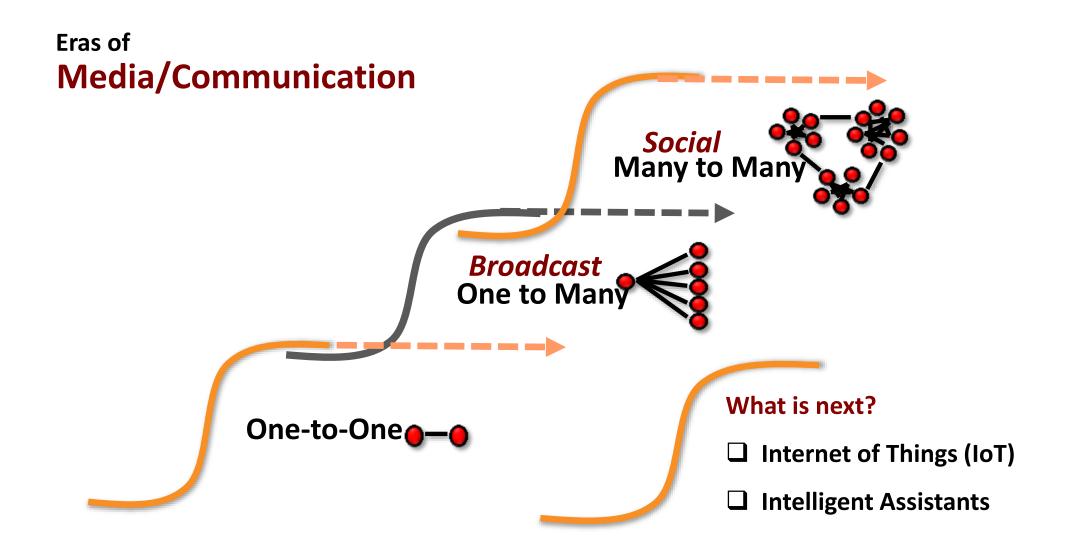




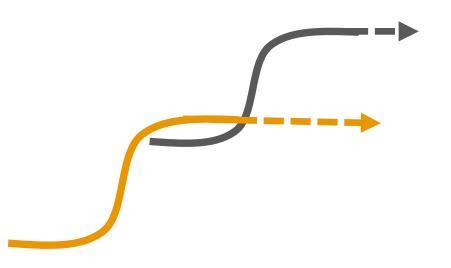
## **Tapping Your Inner Futurist: Monitoring Signals of Change**







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



#### **Education / Learning**

Life stage to Lifelong; Online to AI / Augmented

## **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

# **Four Futures Thinking**













\*\*\* BlackBerry.

Continued Growth

Disciplined Constrained

**Transformed** 

Decline Collapse







**Disciplined Constrained** 



**Transformed** 



Decline Collapse

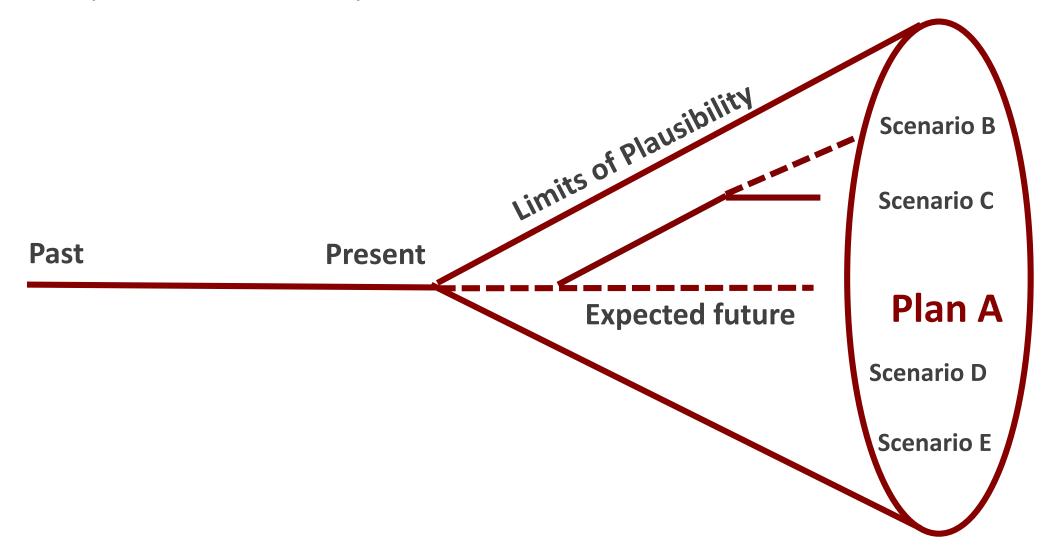
# Thinking Like a Futurist?





#### Foresight 101: Cone of Plausibility

Multiple Outcomes, Multiple Time Horizons



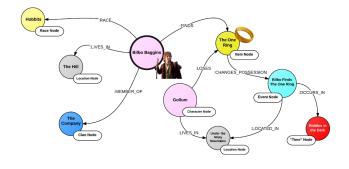
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# Every day I make an effort to move toward what I do not understand.

- Cellist, Yo-Yo Ma

# Plant some seeds for the 2020s









Age of **Experience Graph** 

Health & Wellness

Role of Place



2020 - 2030

How might data-driven change reshape the campus experience?

What might be the most valuable type of data in 2030?







# In the News



Experience.ai to capture experience data from learning, project performance and decision processes within case study groups. Stanford's vision is for every student to retain rights to experience data and build a critical personal digital asset for the future.









Context of the Creepy Line

# Google

Inevitability of Dealing with the Creepy vs Compelling Line in..

# Al-Driven Innovations

# Social Norms for the Anonymous-Access Web 1993



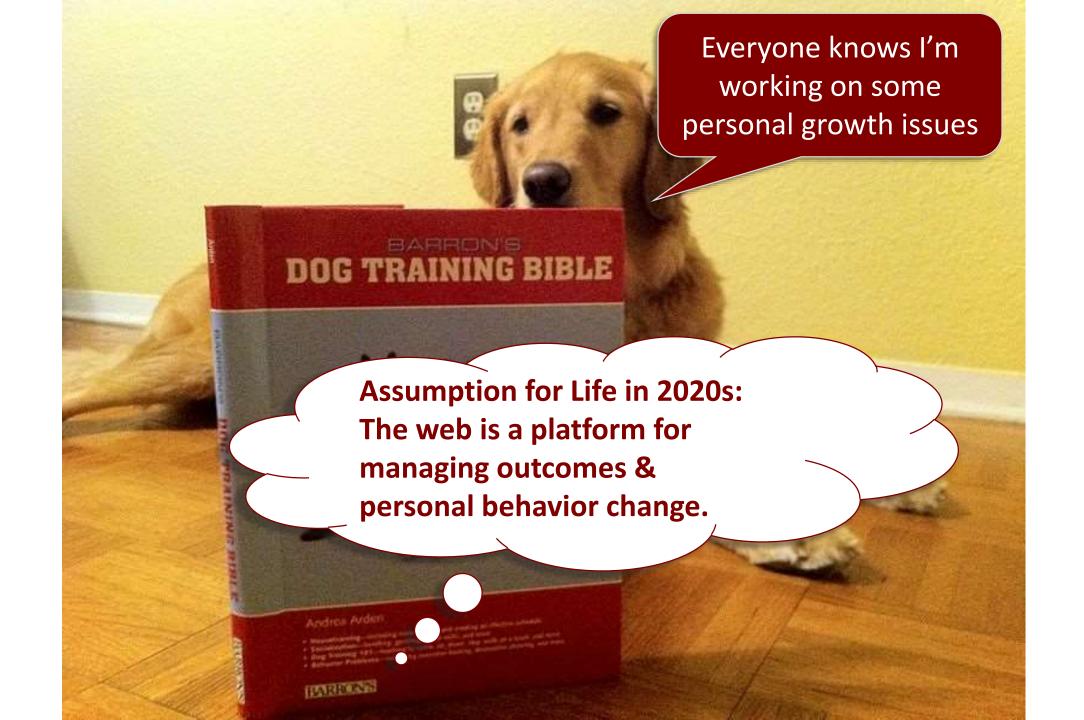
"On the Internet, nobody knows you're a dog."

"On Facebook, 273 people know I'm a dog. The rest can only see my limited profile."

# Social Norms & the Social Web

2008





**Outputs Mission:** 

**Access to Collections** 



**Outcomes Mission:** 

Behavior Change & Development of Skills

## **Outcomes-based Value Creation Depends on...**

# **Competitive Advantage**

# Prescriptive

What should happen..!

## **Predictive**

What might happen..

# Descriptive

What happened..

**Complexity of Data and Relationship Management** 

# **Emergence of Data & Outcomes-driven World**



Social Data



Health Data



Device + Infrastructure



Learning & *Doing* **Experience Data** 

Data isn't truth, but language. It can help us decide or express the truth, but data never is the truth.

- Deanna Day

#### Signal of Change from the Learning & Development (L&D) Community



Activity Streams <Actor, Verb, Object> "I did this"





"I did this..."

**Statements** 

Seamless Integration into Manager & Team Tools



## **Assumption:**

**Experience Data Appears Inside School, Workplace & Beyond** 

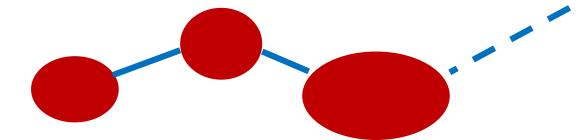
# **Scenario: Talent Embraces Experience Capture Analytics**

☐ Sarah *read* an article on blockchain for automating compliance ☐ Sarah **opened** an Evernote folder on blockchain solutions ☐ Sarah *watched* a Youtube video introducing the Ethereum blockchain ☐ Sarah *searched* for Ethereum Meetups in NYC "I did this..." ☐ Sarah *attended* the Crypto Compliance conference in NYC **Statements** ☐ Sarah **created** a List of 'Ethereum Developers' (People) on Twitter ☐ Sarah *interviewed* the Head of Blockchain Solutions at JPMorgan ☐ Sarah *mentored* with Joe Lubin co-Founder of Consensys ☐ Sarah *completed* a course on Ethereum's Solidity programming language ☐ Sarah *demonstrated* her pilot Ethereum application at a NYC Meetup ☐ Sarah *taught* a Coursera MOOC on Ethereum for KYC / AML Sarah was hired as Lead Developer of Blockchain Compliance Solutions at Fidelity



# <Actor, Verb, Object> "I did this"

☐ Thomas **liked** a **Lucille Clifton** poem he heard on iTunes ☐ Brentwood library **invited** Thomas to a **Creative Aging poetry event** ☐ Thomas **enrolled** in a creative writing class at Community College ☐ Thomas **read Alice Walker** for his creative writing course ☐ Brentwood library **recommended** an obscure Rita Dove poem ☐ Thomas <u>performed</u> his poetry at a local café event ☐ Brentwood library **invited** Thomas to a **program on self-publishing** ☐ Thomas **self-published** his first collection of poems ☐ Brentwood library <u>added</u> his book to their collection



#### **Enterprise L&D: Early Adopters Preparing to Scale**



#### How did we do it?: Where are we now?

#### April 2018:

Over 3 million statements so far

Over 110,000 learners who are sending xAPI statements

We are using 1 LRS system which is segmented by data for each country

Last three months increased our total by 1 million statements

#### Summer 2019:

We will have 250,000+ learners using it and sending xAPI

We will have a global learning analytics community of around 100 people whose role (full/part) is to look at learning data and help transform our learning

Start small and grow...this is a long journey

#### Outcome: Seeing What People Need vs They Tell You They Need

Clicked Create Delete Downloaded Launched Listened Loggedin Opened Paused Read Searched Share Skipped Viewed Watched

#### Searched verbs

#### Running training needs analysis in real-time

Using the searched verb we can analyse what people are looking for example:

- Tax legislation
- Tax processes legislation
- Excel macro creation
- Macro creation
- Coaching
- Coaching skills
- Coaching management skills

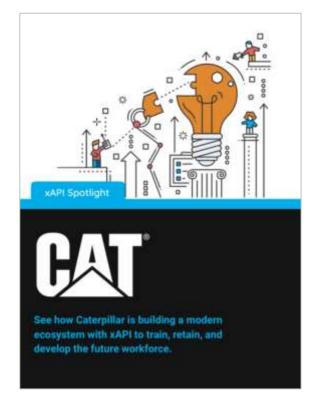
We can use this data to:

- Highlight need see what learners want
- Match available learning to need and tag our content – dynamic curation
- Spotting holes in our learning our gaps
- Global coverage spotting patterns across countries, trending topics

#### **Case Study: Caterpillar**







### Understanding LMS/CMS Activity

**Expanding Video-based Analytics** 

ExperienceAPI (xAPI) L&D integration with focus on training for Service, Sales, Leadership & Marketing.

When trying to help someone learn, the team considers these three vital questions:

- 1. Where does the learner want to go?
- 2. What does the learner know?
- 3. How can we develop the individual?

#### Scenario for 2020s: 1<sup>st</sup> Year Students Experience Analytics







#### **Assumption to Explore**

By 2025, Experience Data Will Become Our Most Valuable Digital Asset

and Controversial

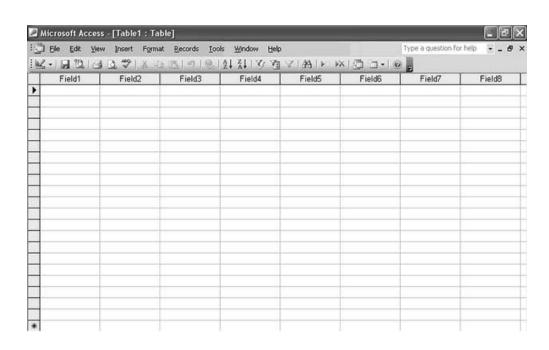
If we capture experience data...



"I did this..."
Statements

How do we approach regulations?
How do we avoid the creepy line?
How do we make sense of it?

#### **Building a Connected Data Foundation for Innovation**



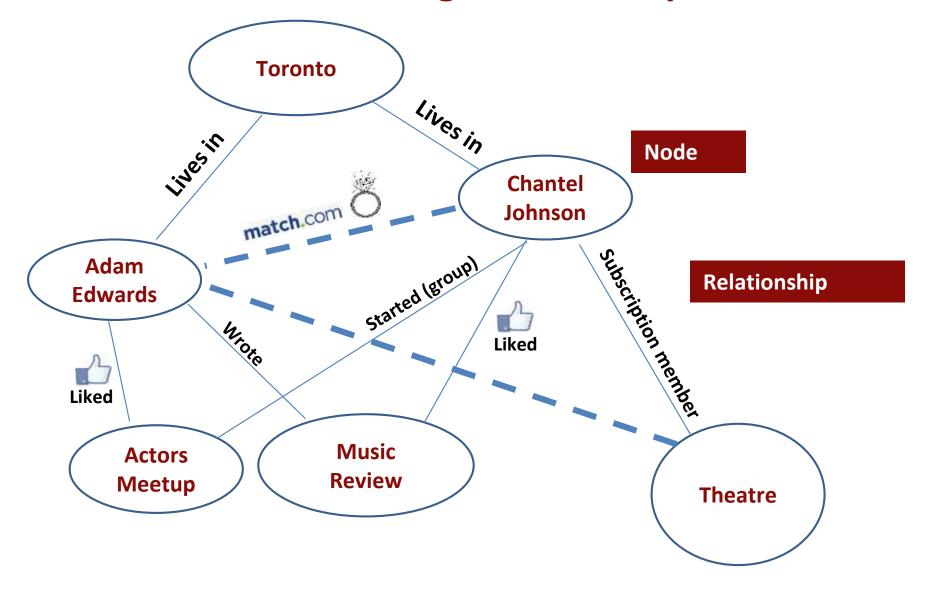
**Tables = Past** 



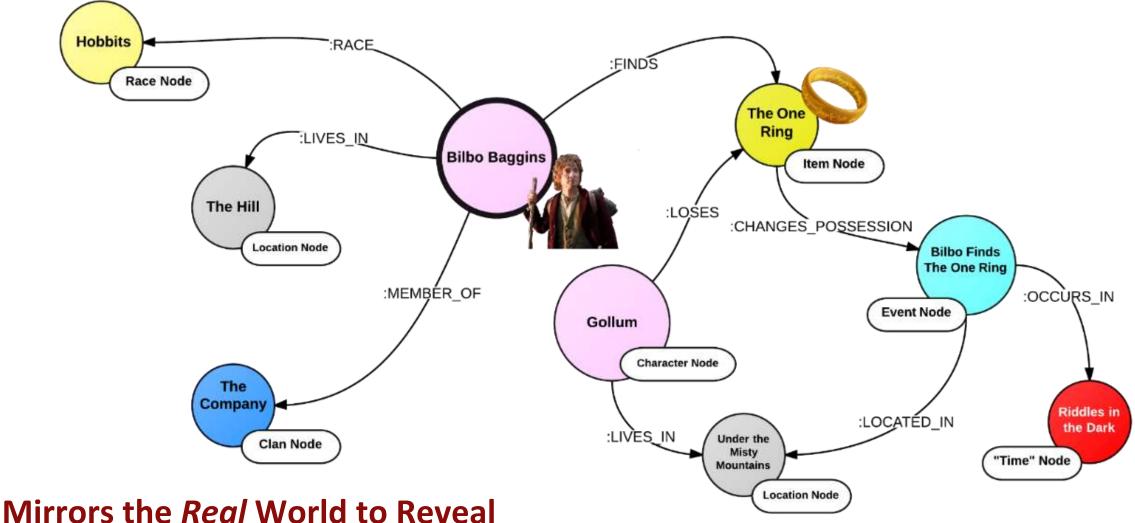


**Graph Thinking = Future** 

#### **Graph Database = Understanding Relationships + Connections**

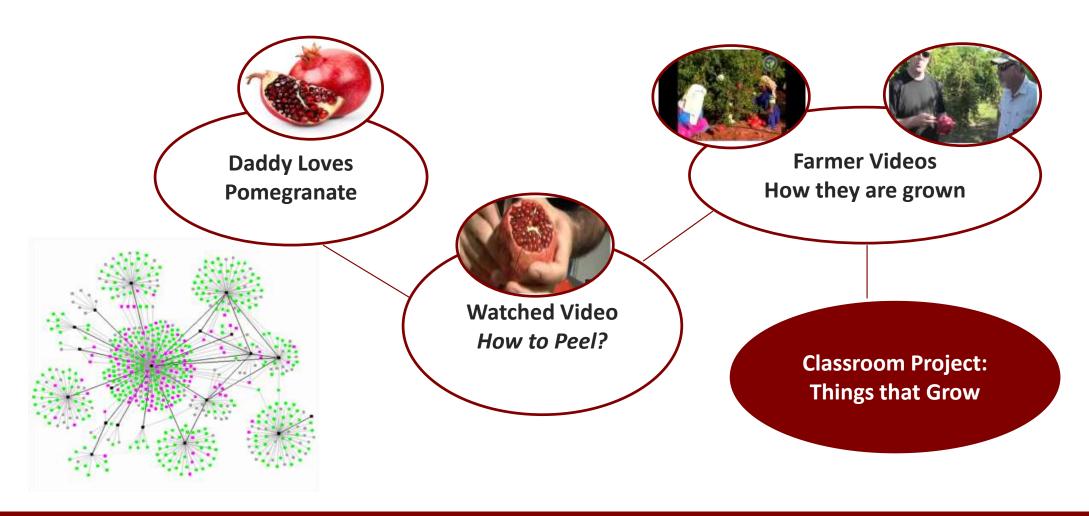


#### **Graph Solutions for Understanding the Campus Journey vs Outcomes**



Influencer Profiles, Decision Pathways and Recommendations

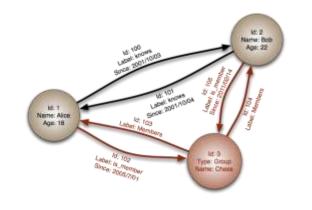
#### Noah is Connecting Things on his Experience Graph

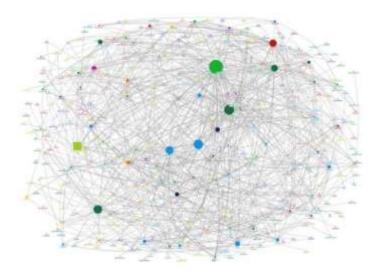


Who might have permission to see connections of experiences? Learner, Teachers, Parents, Libraries, Museums, Park Staff...

#### How might we prepare for an era of lifelong learning data on campus?



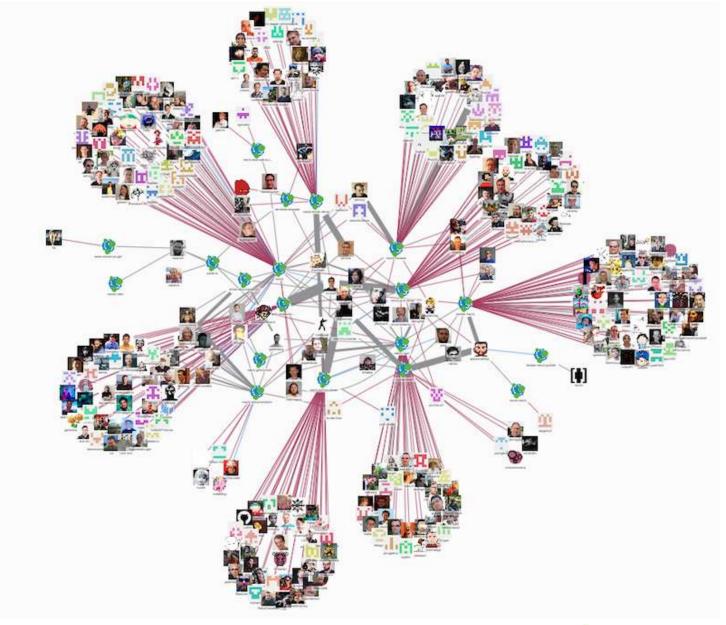




**Era of Social Graph** 

**Era of Experience Graph** 

Imagine seeing connections of experiences (and outcomes) across campus communities...





Should we have a Campus Community Learning/Experience Graph?



Members – Companies – Jobs – Skills – Schools – Knowledge

#### How might we understand ourselves and tell our stories?



Resume



**Portfolio** 



**Presence** 





#### Scenario: Campus Life Meet Connected Experience Data

#### Short-term – 2019 -2023

- ☐ Map out opportunities & challenges
- What experience data could we create, capture and connect?(e.g. appropriate; actionable)
- ☐ Engage with existing efforts

#### Long-Term – Beyond 2023

- Overcome Challenges(e.g. blockchain used for privacy)
- Align institutions, policies, social norms& technology capability



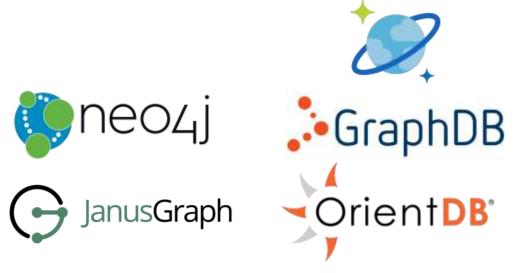
#### **Learning Curve**







**Experience Analytics Learning Record Stores** 



**Graph Analytics** 

# Breaking News

News from 2025

## Supreme Court Upholds Students' Rights to Own Experience Data

College students successfully argue their right to learning and performance analytics in the classroom and beyond in the workplace. Ripple effect will likely go beyond campus into the workplace as society tries to understand implications of this strange data-driven age.



"The resume is dead.

Long live the Experience Graph"

### DAILY ALTERNATIVE FACTS

#### Class of 2028

#### **Donates Experience Data**

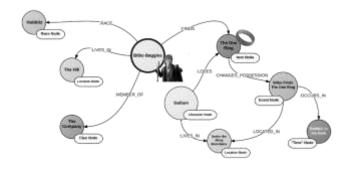
Having won its right to experience data, more than 70% of the Class of 2024 have open-sourced their Learning Pathways to be shared across the World. Anyone eager to learn similar subjects and skills now have learning pathways to explore.

### **BREAKING FAKE NEWS**

News from 2032 FBI Investigating Massive Hacking of U.S. Workforce Experience Graph
Nearly 125 million privately managed
Experience Graphs were hacked in 2031
across some of America's leading
corporations. Older Millennials now pointing
fingers at younger siblings: "You should have
stuck with the Social Graph".

### Break





Age of Experience Graph



Health & Wellness



Role of Place

2010 - 2019
Positive changes in health + wellness?

2020 - 2030
What challenges and opportunities do we anticipate will change around campus life?



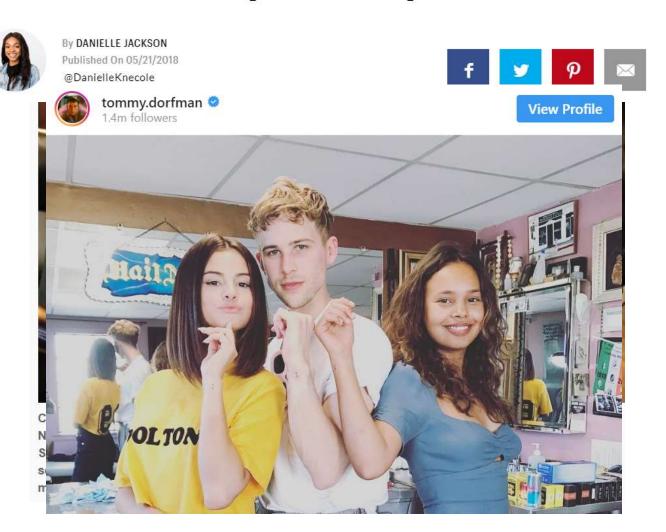
#### Rise of Campaigns, Memes and Movements

## Here's What Clay's Semicolon Tattoo on '13 Reasons Why' Actually Means





**Amy Bleuel** 



#### **Institutional Capacity & Culture**



Programs: Repost, Mindful Mountaineers, Take 10, Semicolon Week

















#### **Evolution in Dealing with Disciplinary Challenges**

## **Training Staff in Restorative Practices**

An emerging social science that studies how to strengthen relationships between individuals as well as social connections within communities.



#### PIMA COUNTY PUBLIC LIBRARY



#### Five Universal Truths of Human Interaction

- 1. People want to be treated with dignity and respect.
- People want to be asked rather than being told to do something.
- People want to be told why they are being asked to do something.
- 4. People want to be given options rather than threats.
- People want a second chance when they make a mistake.



George J. Thompson III, PH.D., Verbal Judo





#### **Student-led & Peer Driven Change**



HEALTH

### A New Sign That Teens Know They Aren't Struggling Alone

Their worries about mental health might have a bright side.

AMANDA MULL FEB 25, 2019



## NCAA Awards Grant for UK College of Education Mental Health Research

By Amanda Nelson Feb. 28, 2019

#### Student Athlete Voices on Mental Health

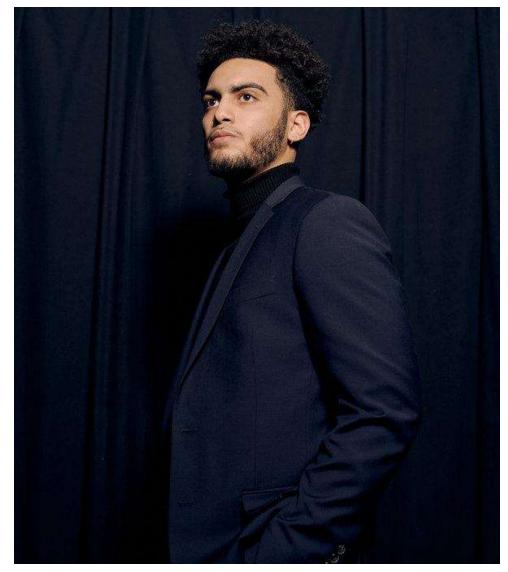
March 14, 2019

The New Hork Times By Pat Borzi

## A Top Scorer Changes the Definition of the Complete Player

"A lot of people in my position wouldn't want to say anything," Marquette guard Markus Howard, the Big East player of the year, said of going public about seeking mental health counseling.

...Olympians <u>Michael Phelps</u> and <u>Gracie Gold</u> to the N.B.A. star <u>Kevin Love</u>



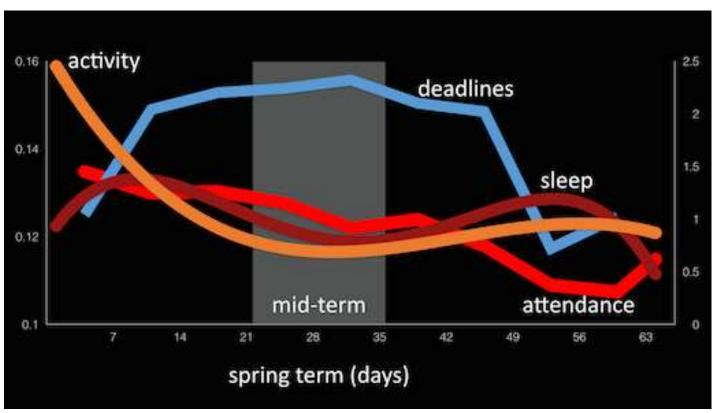
Vincent Tullo for The New York Times

#### **Projects to Understand (Campus) Population Health**



#### **Student Life (2014 – 2015)**

- ☐ Passive and automatic sensing phone data
- □ 48 Dartmouth students; 10 week term
- Mental health
- □ Academic performance
- Behavioral trends



#### The Next Element = Interventions

#### The Debate will be 'should we'...



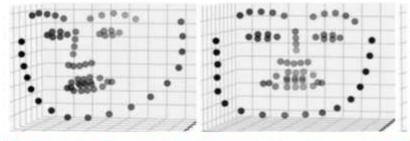
Intelligent Machines

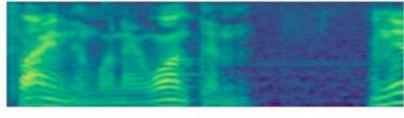
#### Your smartphone's Al algorithms could tell if you are depressed

Smartphones that are used to track our faces and voices could also help lower the barrier to mental-health diagnosis and treatment.

by Will Knight December 3, 2018

### Technology Review





. yeah . . . i mean

#### 2020 -2030:

#### How much wellness data will students have vs understand?

## Million Data Points Per Person

Dr Lee Hood

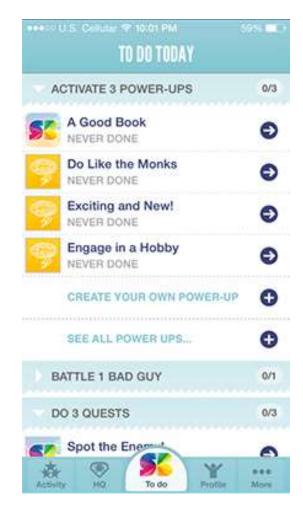




#### 2020 - 2030:

#### What services/expectations will they bring to campus?





### Amazon develops 'health and wellness team within Alexa division'





PRODUCTS May 16, 2018

MetLife and Ernst & Young Create Multi-Channel Wellness Program

The solution will focus on behavioral change by providing personalized wellness plans, according to MetLife.

#### Garry is going to talk about that Graph thing again...

#### **Era of Population Health / Social Determinants**

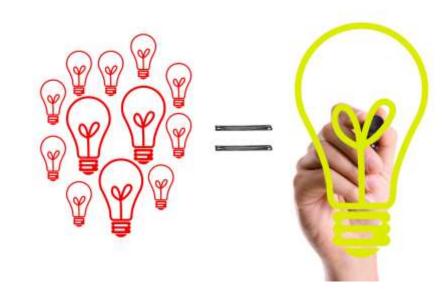


Could we build a Population Health Graph to Transform Care Coordination & Wellness Outcomes?

Inevitability of Dealing with the Creepy vs Compelling Line at the...

## Health & Wellness Experiences

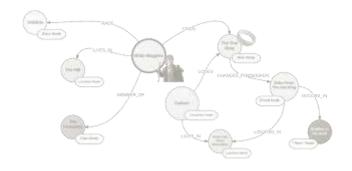
#### How might we rethink health + wellness integration?



Start

Stop

Continue







Age of Experience Graph

Health & Wellness

Role of Place

# Role of Place



Third Place is a Real Thing



# Pedestrian<br/>Friendly Zones





"Pop Up" Culture

### PA unveils digital library at Central Mall

Story



Sherry Koooce

PA digital library

## Places for Connections: Live Experiences, Together



## Retail Healthcare



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

## A Space Apart



#### College libraries contemplate meditation rooms

By Ronnie Wachter | January 2, 2018



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

Phone: Tulsa (Ohla.) Community College

#### **Brain Booth**

#### **HUMBOLDT STATE UNIVERSITY**



~ 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





#### **Place Use-Data**

...Google Analytics for the libraries and campus buildings?





Code



Abo



Public Bo

54 55 53

#### 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



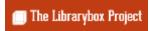
#### **Smart Libraries**



#### **Open Tutorials**



Jason Griffey



On-Demand(ness)
Scheduling Here or Anywhere



#### **Place-based Messaging** & Personal Safety **Staff Trained on Cues**

Countary of Safey Communities Senset Violence and Aloues Partnership, Lincolnstons. Dispiration of the "Alk for Angels" poster company. part of the MicPlace sexual votence and abuse in Lincolnshire asserters Campaign, sown incolnitive group, nomor

## #ASK FOR ANGELA

66 HI I'M ANGELA,

ARE YOU ON A DATE DO YOU FEEL LIKE THAT ISN'T WORKING OUT? YOU'RE NOT IN A

SAFE SITUATION?

THEY SAID THEY WERE ON THEIR PROFILE?

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 (ALL YOU A TAX) OR HELP YOU OUT DISCREETLY - WITHOUT TOO MU(H 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.









**Micro Mobility** 

#### **Mobility + Accessibility**

Safety, Equity + Access

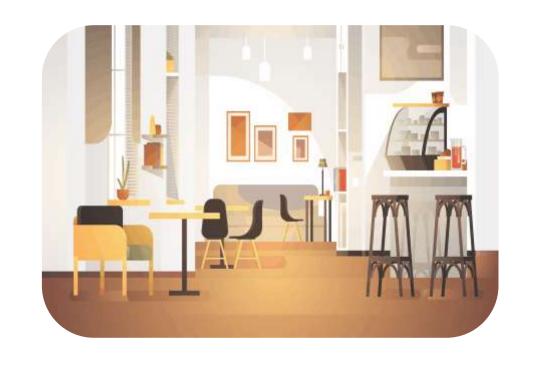


**Autonomous People Movers Coming Soon!** 





# How might the nature of place surprise us in 2029?



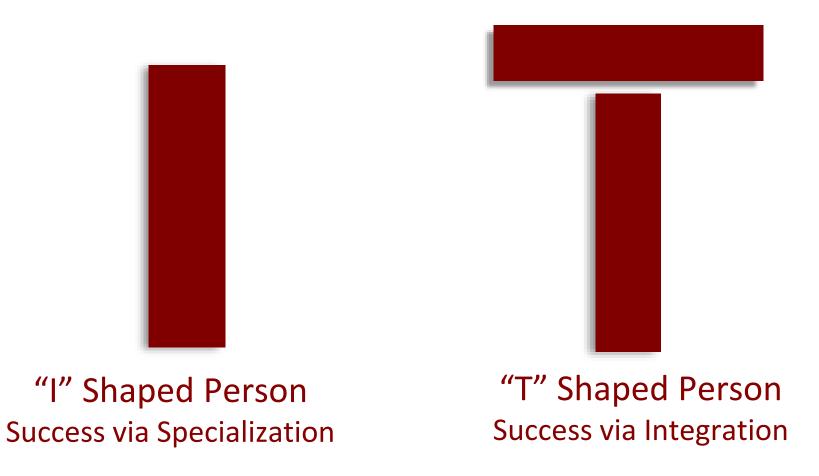


#### End



**Discussion** 

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



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

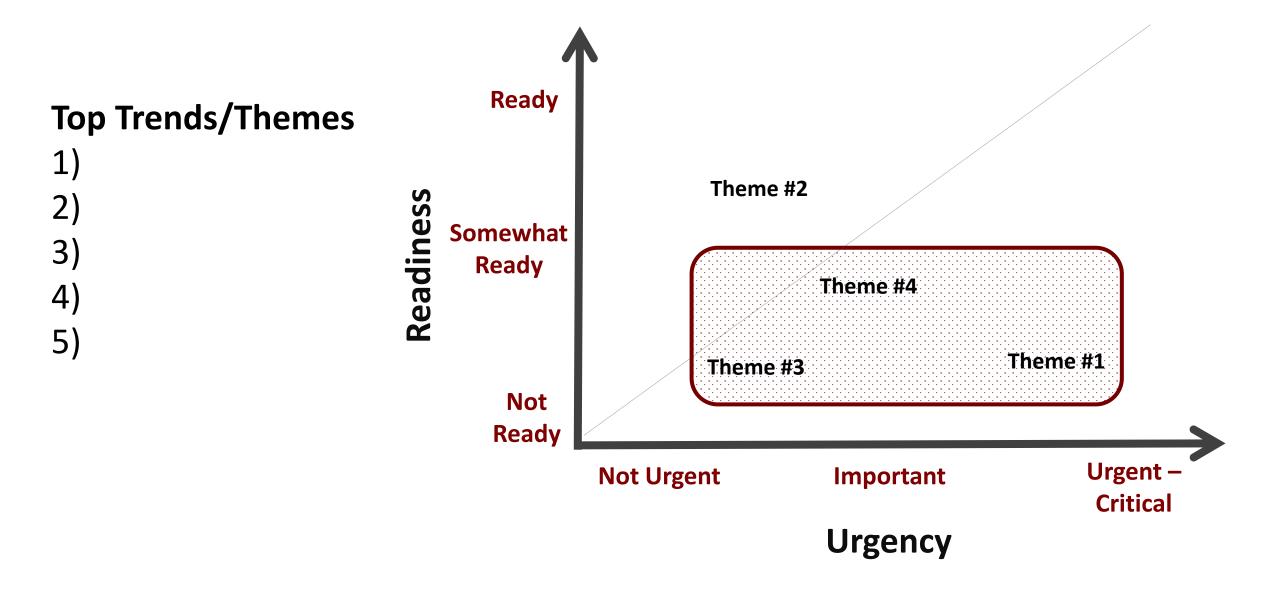


#### Also Trained in ....?

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

Psychology
Data Science
Crypto / Blockchain
Restorative Practice

#### Take a Pulse Check on Emerging Trends vs Organizational Appetite



#### In Five Years...

Generate weekly questions that spur conversations about the future of your organization and our community.

### In five years

... what is a function, department or role that does not exist today but will be our most innovative solution?

... which popular consumer brand today makes us irrelevant?

... which organization becomes our most valued partner?

What is the biggest risk we should take over the next five years to align our businesses, government agencies and civic institutions with possible and preferable futures?





## **Garry Golden**

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PDF: garrygolden.com/March22
Two Rs

Tags: diigo.com/user/garrygolden/KEYWORD