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





Garry Golden
Forward Elements
March 23, 2019



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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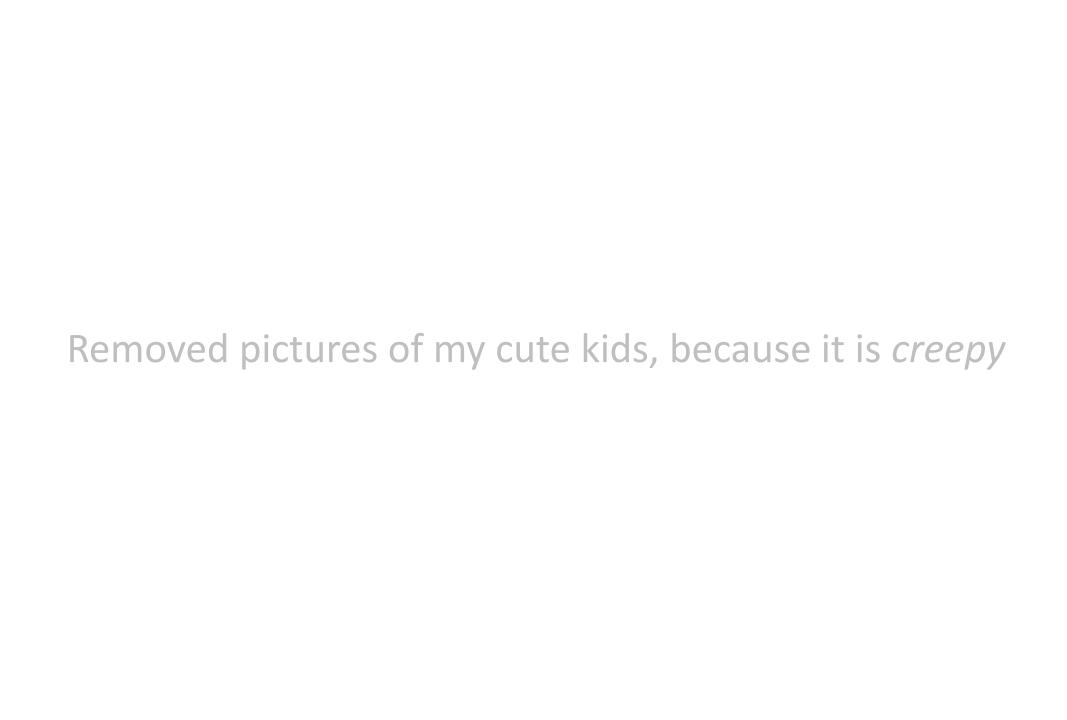
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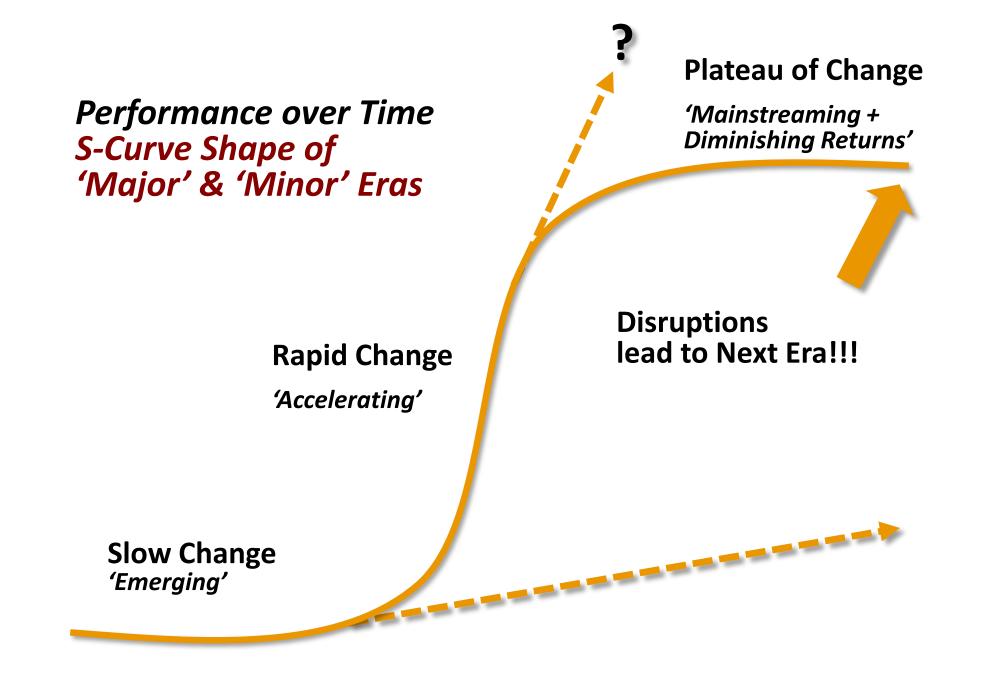
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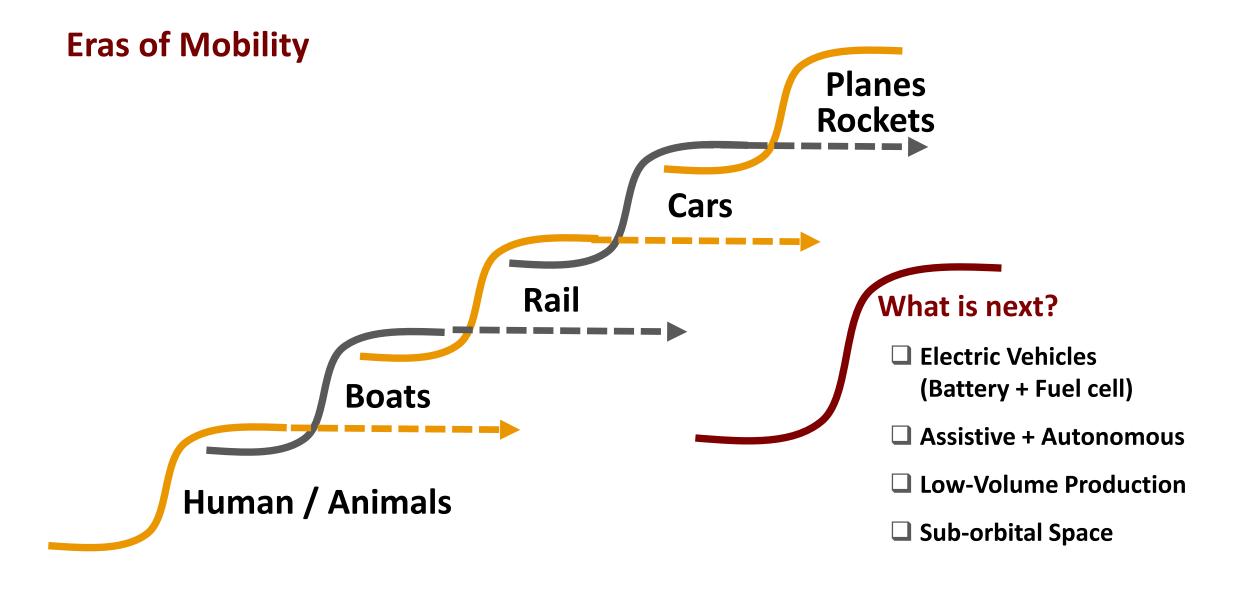
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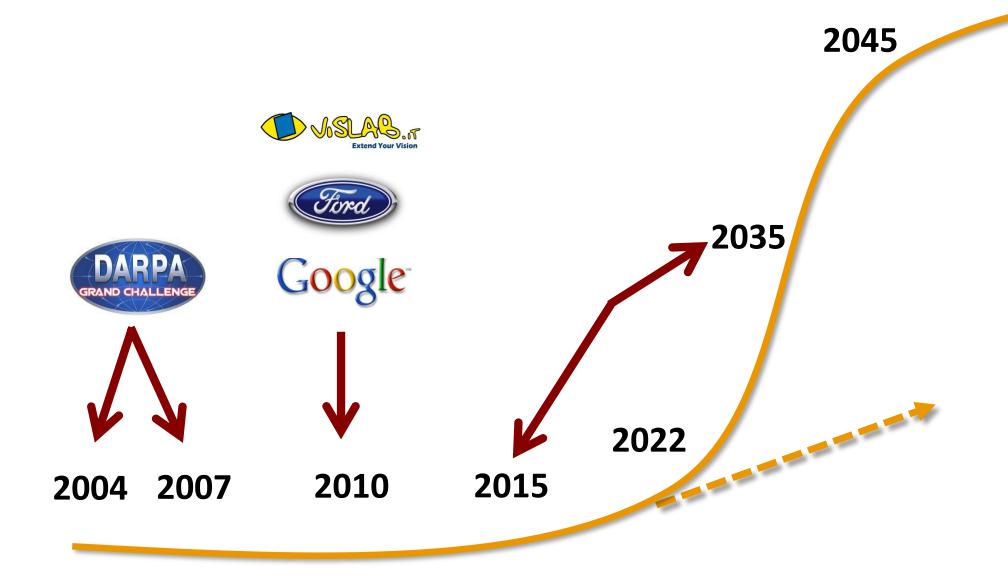
Era-based Dynamics of Change

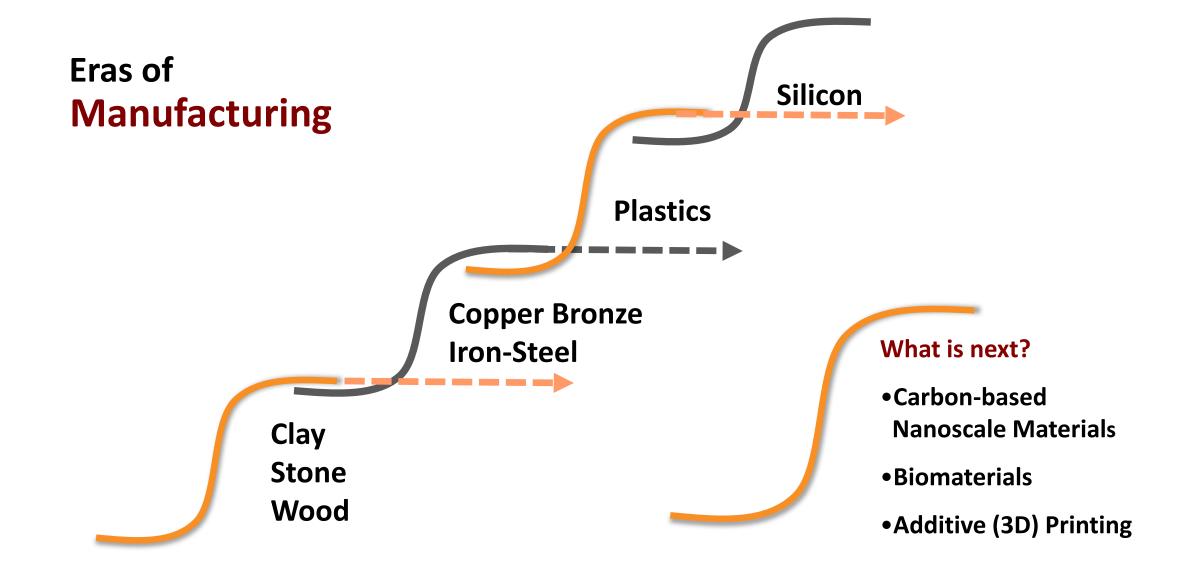


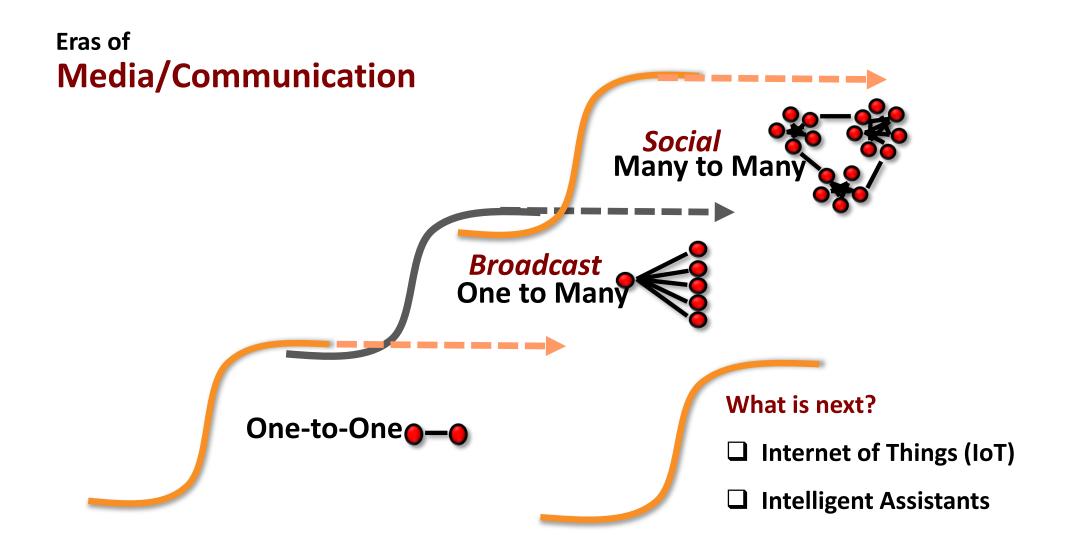




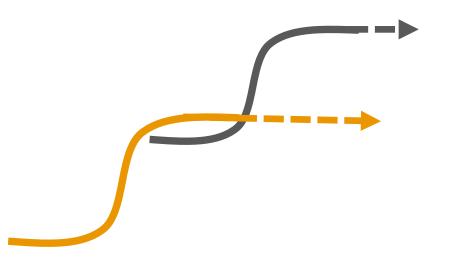
Tapping Your Inner Futurist: Monitoring Signals of Change







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



Education / Learning

Life stage to Lifelong; Online to Al-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

Four Futures Thinking













Collapse

Continued Growth

Disciplined Constrained







Leadership Challenge: Write Your Four Futures









Continued Growth

Disciplined Constrained

Transformed

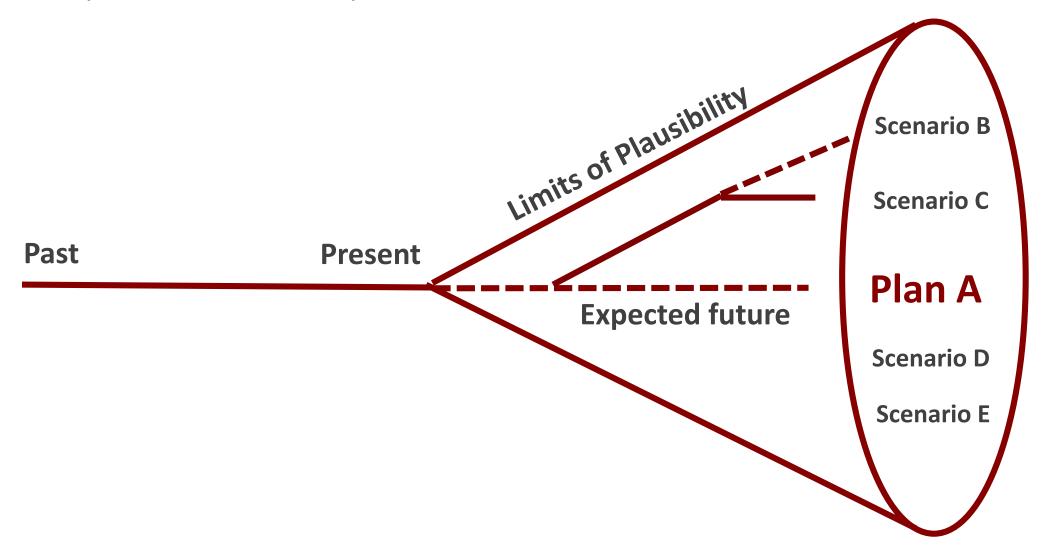
Decline Collapse

Thinking Like a Futurist?

Removed sequence

Foresight 101: Cone of Plausibility

Multiple Outcomes, Multiple Time Horizons

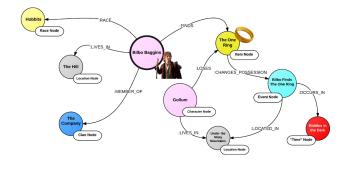


Every day I make an effort to move toward what I do not understand.

- 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?



How might we better understand ourselves and share our stories?



Resume



Portfolio



Presence









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.









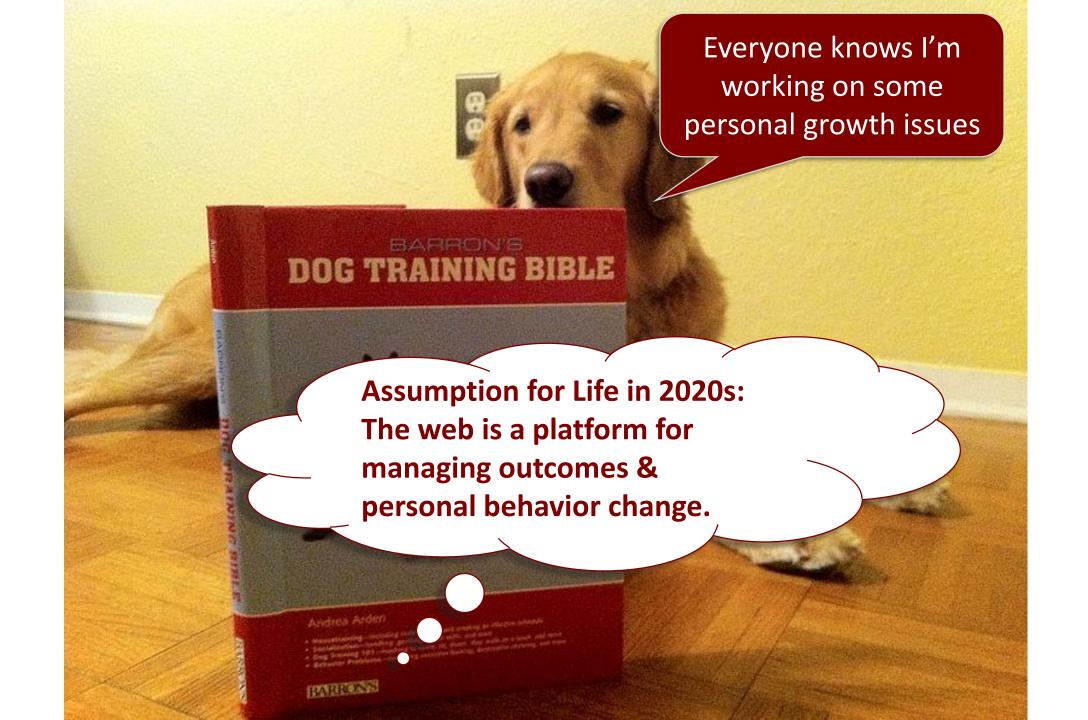
Context of the Creepy Line

Google

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

Al-Driven Innovations

Removed 'dog' sequence surprise



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

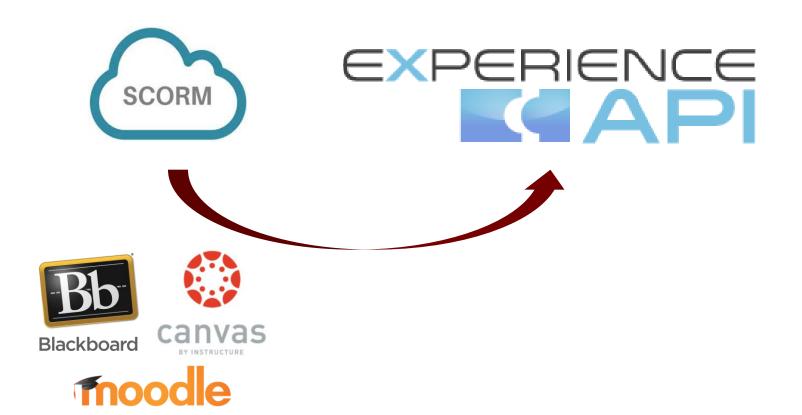


Learning & *Doing* **Experience Data**

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

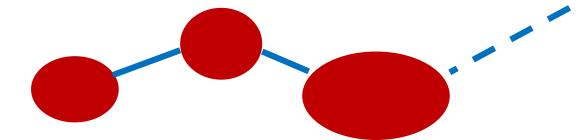
Scenario: Talent Embraces Experience Capture Analytics

☐ 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

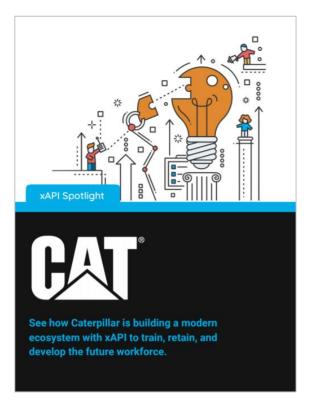
We can use this data to:

- 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







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?

Understanding LMS/CMS Activity





Expanding Video-based Analytics





Scenario for 2020s: 1st Year Students Experience Analytics







Assumption to Explore

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

and Controversial

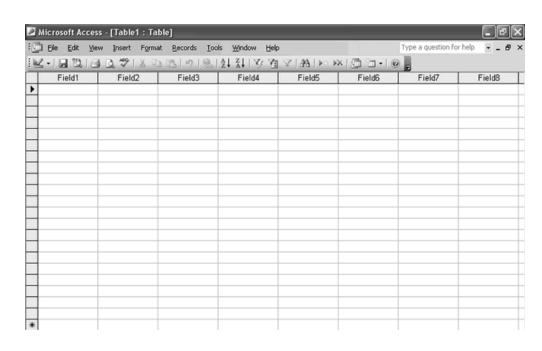
If we capture experience data...



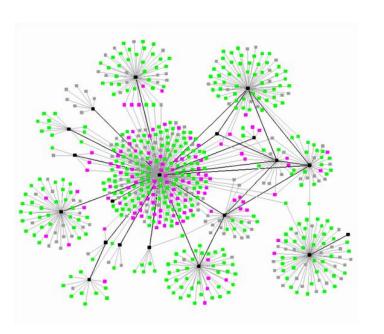
"I did this..."
Statements

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



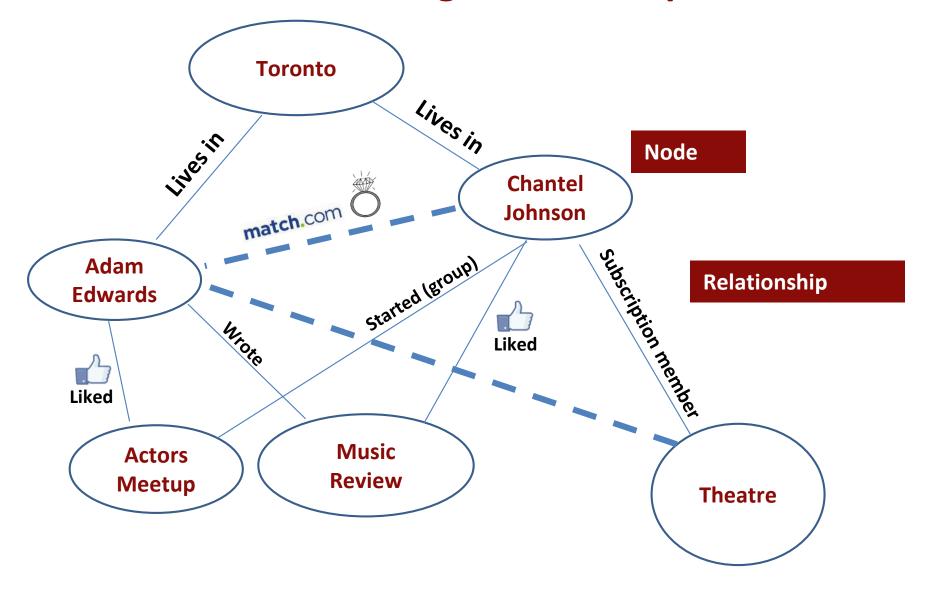
Tables = Past



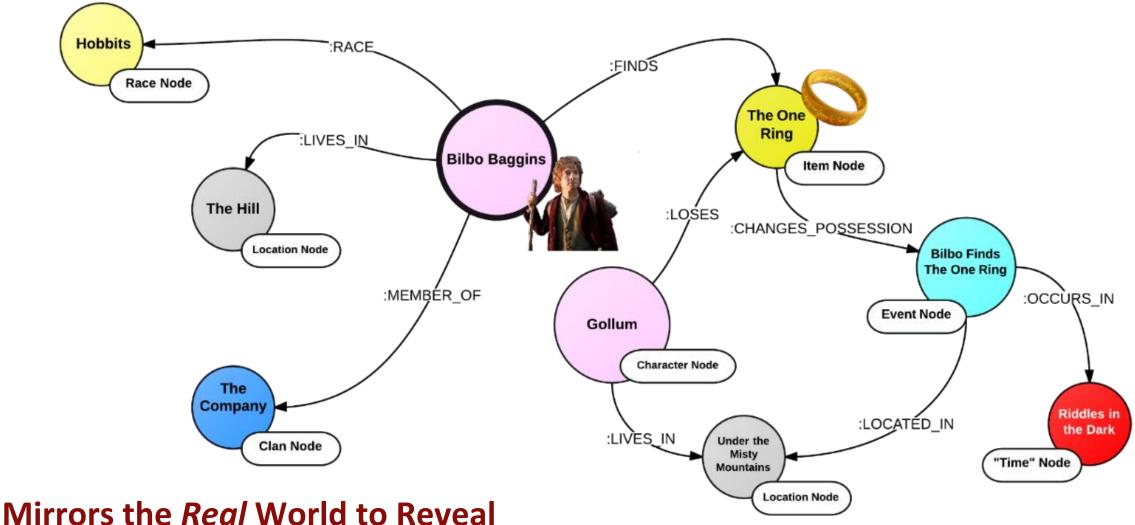


Graph Thinking = Future

Graph Database = Understanding Relationships + Connections

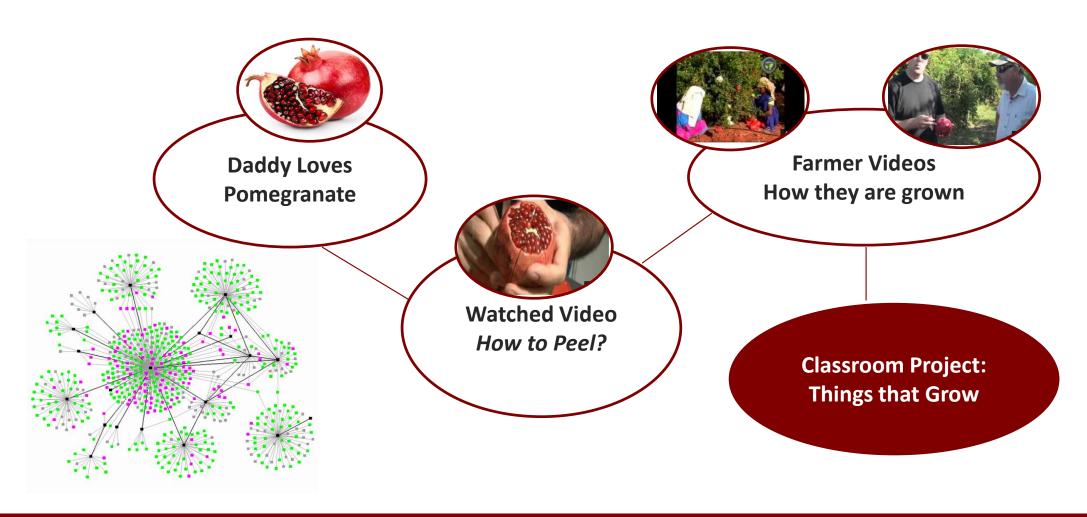


Graph Solutions for Understanding the Campus Journey vs Outcomes



Influencer Profiles, Decision Pathways and Recommendations

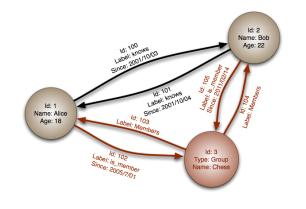
Noah is Connecting Things on his Experience Graph

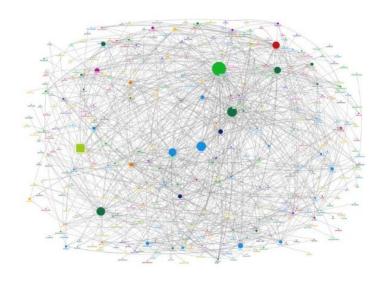


Who might have permission to see connections of experiences? Learner, Teachers, Parents, Libraries, Museums, Park Staff...

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



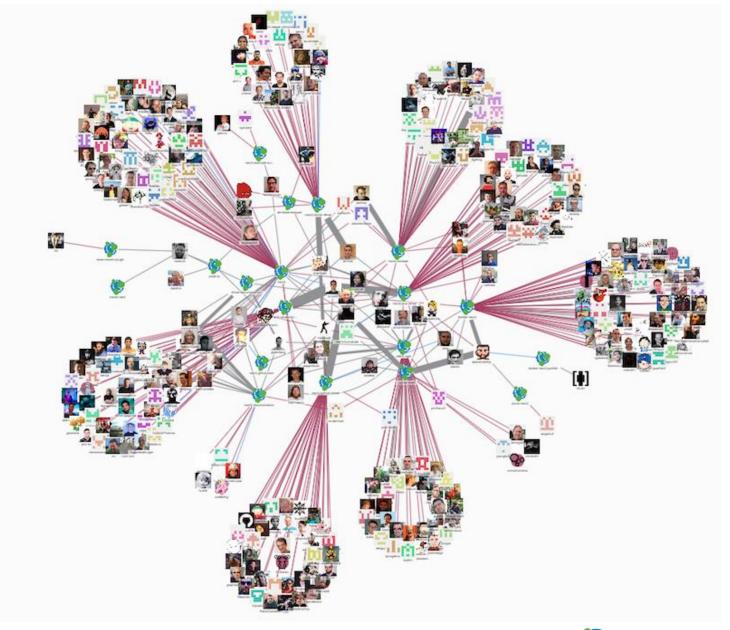




Era of Social Graph

Era of Experience Graph

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





Should we create a Campus Community Learning/Experience Graph?



Members – Companies – Jobs – Skills – Schools – Knowledge

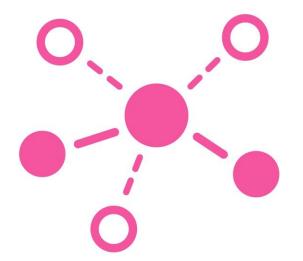
Scenario: Campus Life Meet Connected Experience Data

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



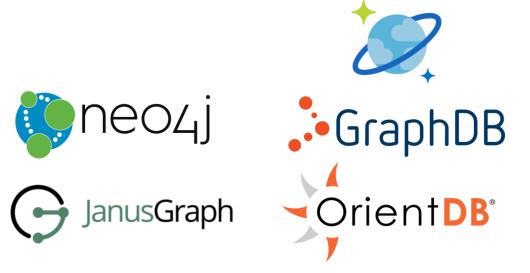
Learning Curve







Experience Analytics Learning Record Stores



Graph Analytics

Breaking News

News from 2025

Supreme Court Upholds Students' Rights to Own Experience Data

College students earn the right to learning and performance analytics in the classroom. The ruling will now be tested beyond campus for workplace analytics as society tries to understand implications of this data-driven age.



"The resume is dead.

Long live the Experience Graph"

DAILY ALTERNATIVE FACTS

Class of 2028

Donates Experience Data

More than 70% of the Class of 2028 have open-sourced access to their Learning Pathways. Anyone in the world 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

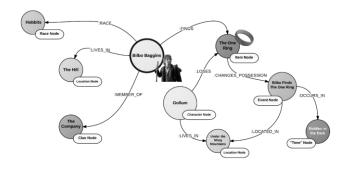
125 million Experience Graphs hacked in 2031 across leading corporations.

FEDERAL OF INVESTIGATION OF THE PROPERTY OF TH

Older Millennials to younger siblings: "You should have stuck with the Social Graph".

Break









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



Semicolon tattoos in St. Cloud raise funds, stir hope, highlight mental health

Nora G. Hertel, Saint Cloud Times Published 5:04 p.m. CT March 2, 2019





Amy Bleuel



Cream City Tattoo Owner Ryan Schepp tattooed "smile" with a semicolon for the letter I on Teresa Nelson Saturday, March 2. Artists tattooed semicolons on dozens of people in St. Cloud Friday and Saturday to promote suicide awareness and raise funds for nonprofit The Beautiful Mind Project. The semicolon has come to symbolize there is more life to live for those people facing and affected by mental illness. (Photo: Nora G. Hertel, nhertel@stcloudtimes.com)

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.
- 2. People want to be asked rather than being told to do something.
- 3. People want to be told why they are being asked to do something.
- 4. People want to be given options rather than threats.
- 5. 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

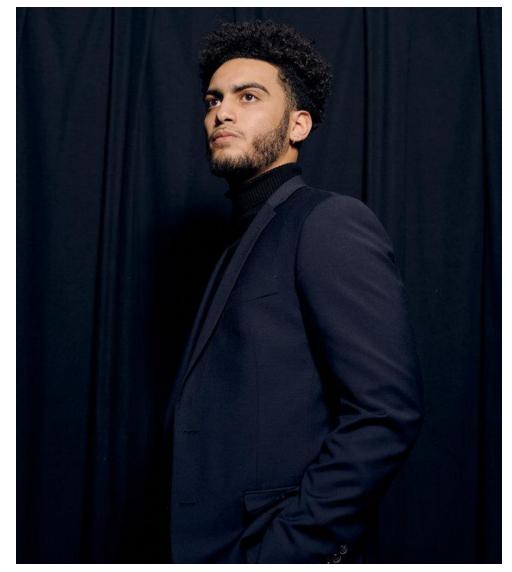
The New Hork Times

By Pat Borzi March 14, 2019

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>



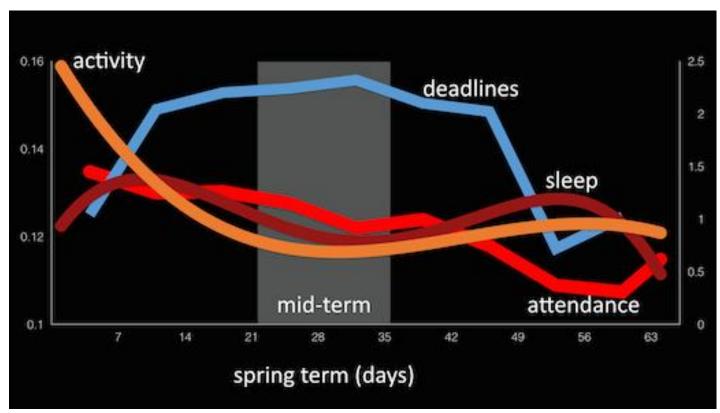
Vincent Tullo for The New York Times

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'...



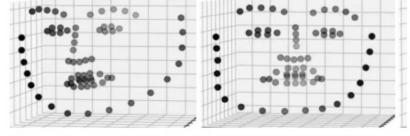
Your smartphone's Al algorithms could tell if you are depressed

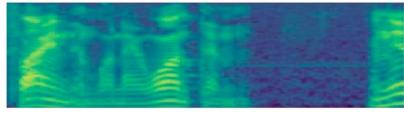
Smartphones that are used to track our faces and voices could also help lower the barrier to mental-health diagnosis and treatment.

December 3, 2018 by Will Knight

Technology Review

Intelligent Machines





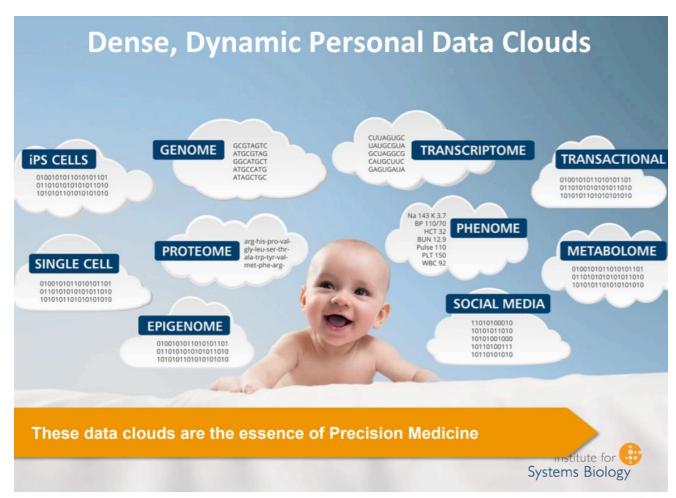
um . . . yeah . . . i mean

2020 -2030:

How much wellness data will students have vs understand?

Million Data Points Per Person

Dr Lee Hood

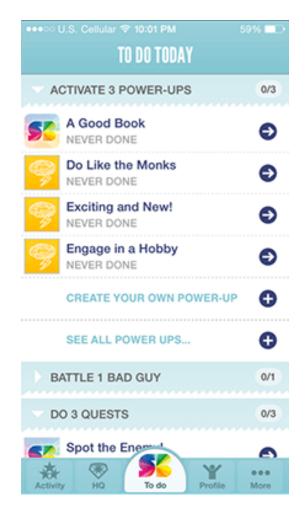




2020 - 2030:

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.

2020 - 2030:

Will health factors for indoor environments be seen differently?

SoFi and Delos Partner to Bring Delos' Home Wellness Solutions to Homeowners



Wellness real estate and technology company, Delos™, is collaborating with online personal finance company, SoFi, to ensure homeowners will have an accessible financing path to implement Delos' DARWIN Home Wellness Intelligence Network, a fully-integrated residential solution designed to enhance the health and well-being of residents.

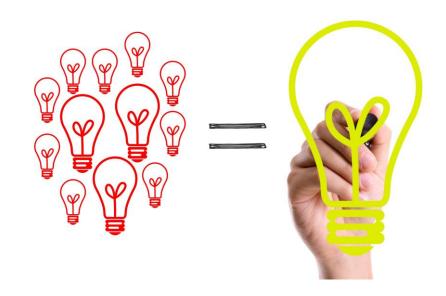








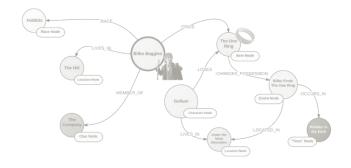
How might we rethink health + wellness integration?



Start

Stop

Continue







Age of Experience Graph

Health & Wellness

Role of Place

Role of Place



Third Place is a Real Thing





Pedestrian
Friendly Zones



PARKing Day - 2005 led by Rebar - SF

"Pop Up" Culture

PA unveils digital library at Central Mall

Story



Sherry Koonce

PA digital library



Places for Connections

Live Experiences, Together





Retail Healthcare Everywhere Places to Pause...
Mindfulness
Meditation
Sensory Enhancements
Sensory Deprivation
Play with Dogs and Cats

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.

Photo: Tulsa (Okla.) 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 Rotating Program Takeover

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





Place Use-Data

...Google Analytics for the union/center and campus buildings?





lode







Public Beta

2 1 9

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



Deliver to My Place

SELF-DRIVING PRODUCE —

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

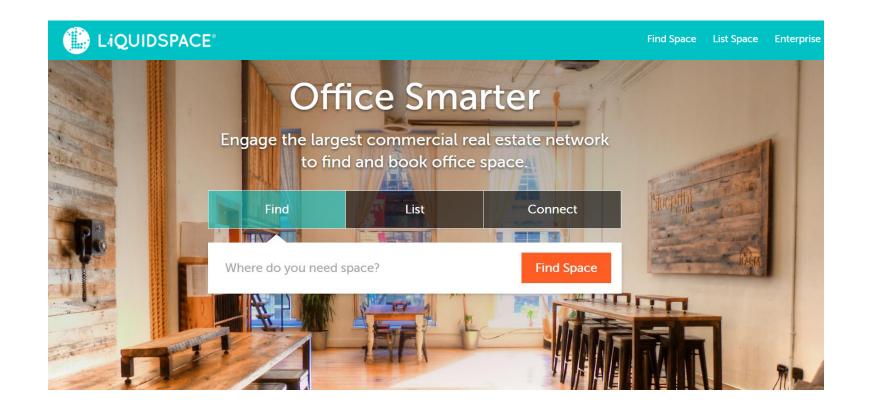
"It's not a delivery vehicle, it's an autonomous store on wheels," CEO tells Ars.

TIMOTHY B. LEE - 6/27/2018, 11:19 AM



Kroger and Nuro Expand Unmanned Grocery Delivery to Houston

On-Demand(ness)
Scheduling Here or Anywhere



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 Campaign, www.lincolnshire.gov.uk/nomore

#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

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.













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

(Chris Burt) Aug 6, 2018 | Chris Burt

Micro Mobility





Mobility + Accessibility

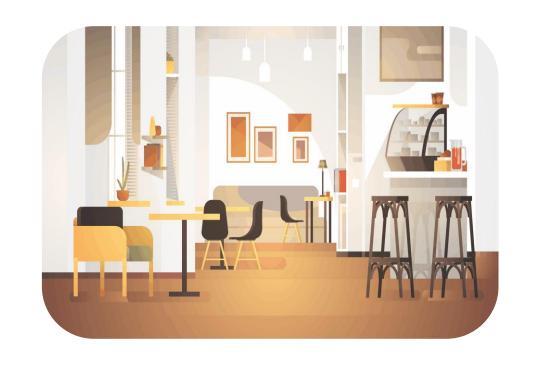
Safety, Equity + Access

Autonomous People Movers Coming Soon!





How might the nature of place surprise us in 2029?



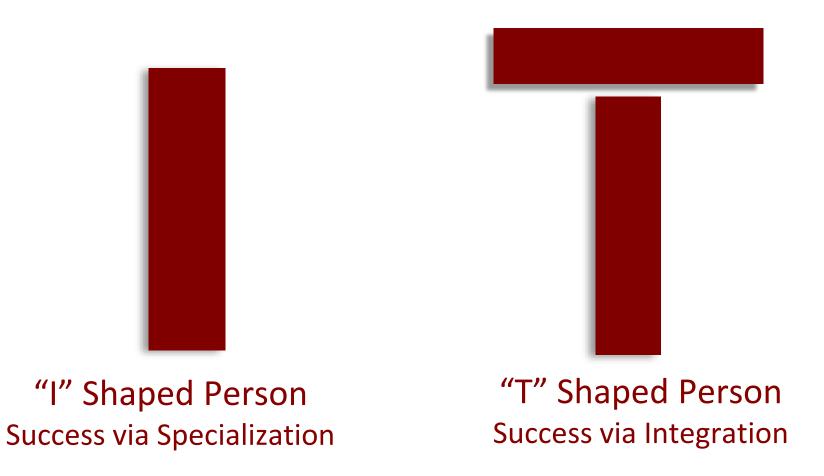


End



Discussion

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



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

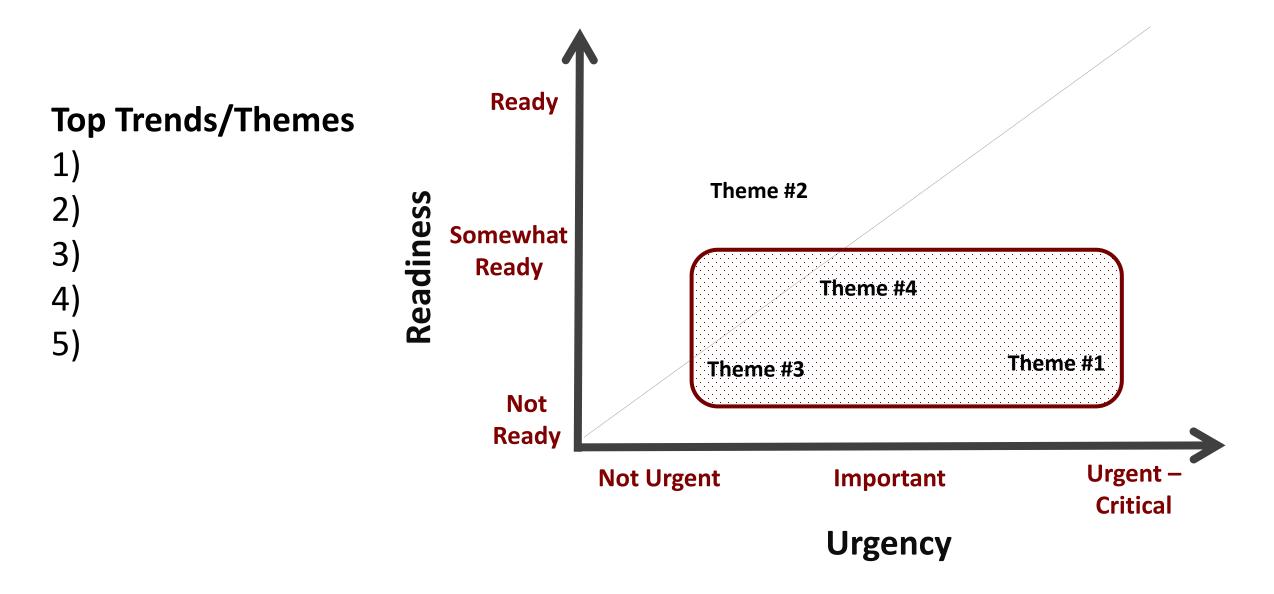


Also Trained in?

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





Garry Golden

garrygolden@gmail.com

PDF: garrygolden.com/March23
Two Rs

Tags: diigo.com/user/garrygolden/KEYWORD





Strap on the Fitbit: John Hancock to sell only interactive life insurance

BUSINESS NEWS SEPTEMBER 19, 2018

Suzanne Barlyn



Signals

(Reuters) - John Hancock, one of the oldest and largest North American life insurers, will stop underwriting traditional life insurance and instead sell only interactive policies that track fitness and health data through wearable devices and smartphones, the company said on Wednesday.



Why Build a Habit in Scanning for Signals?

Outcomes & Outputs



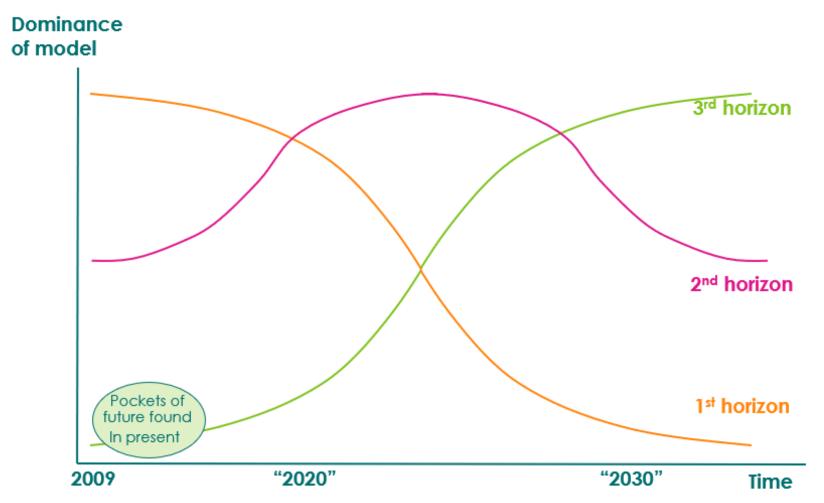




Building Knowledge (Framework Forecast)

Horizon Scanning, Meet the Three Horizons

"Three Horizons" Model of Change (Bill Sharpe)



Graphic courtesy of Andrew Curry, The Futures Company

Signals Scanning & Street Light Effect



Developing a Practice of Horizon Scanning

