Thinking Like a Futurist



Presented by: Garry Golden



Foresight 101



Drivers of Change



Learning More

More or Less Change Ahead?

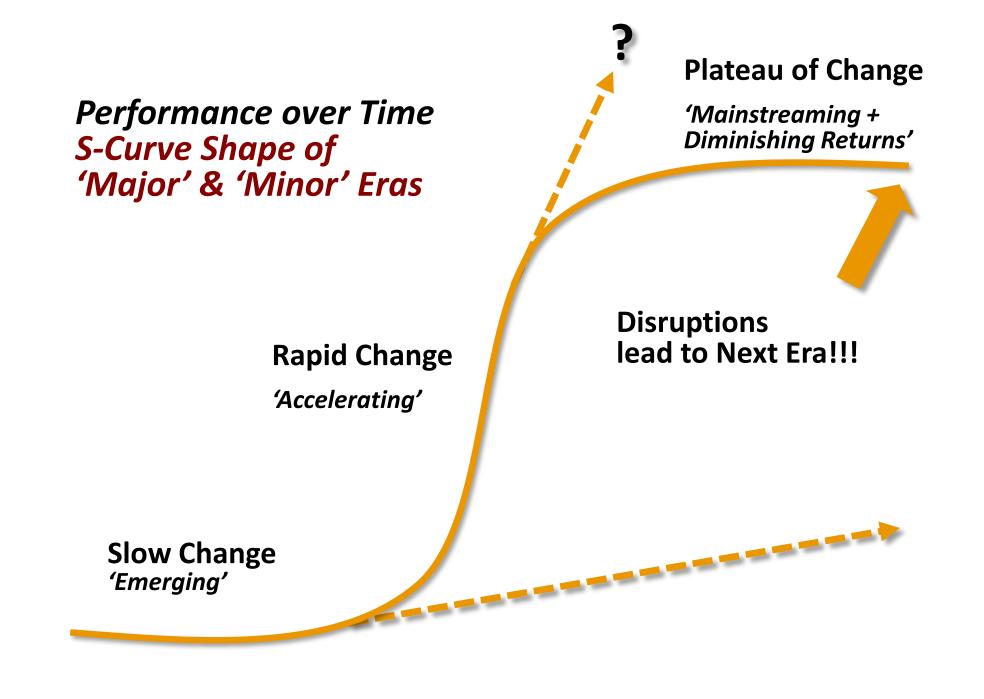


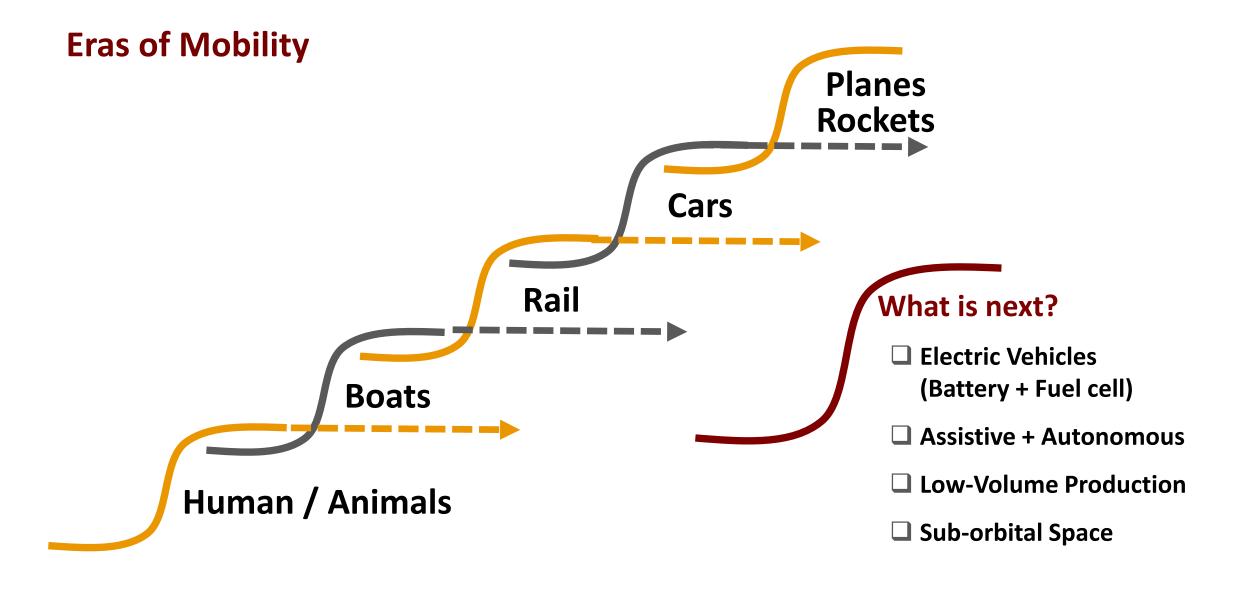
Foresight as the Front End... of Innovation + Strategy

Foresight = Front end of Innovation

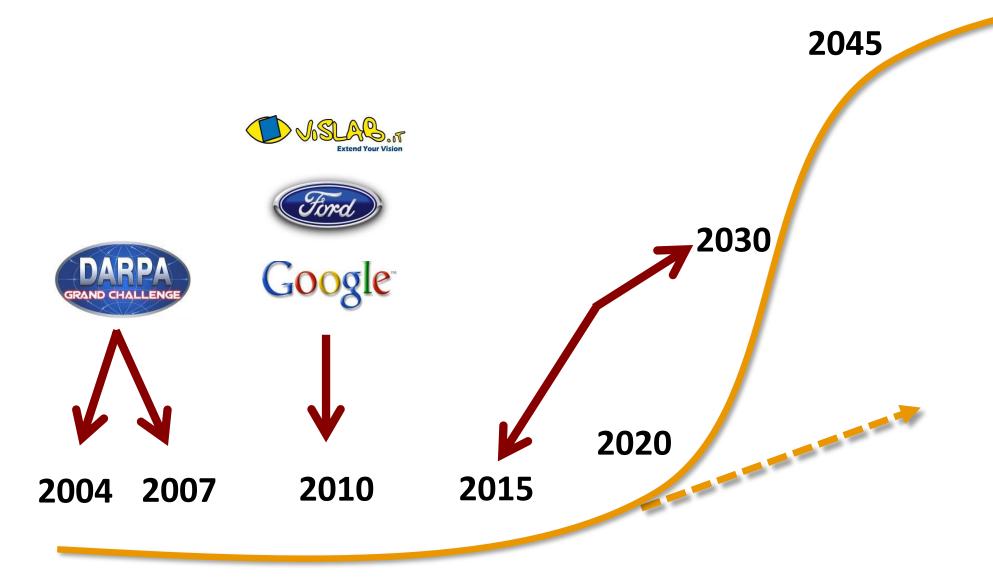
Era-based Growth Strategies

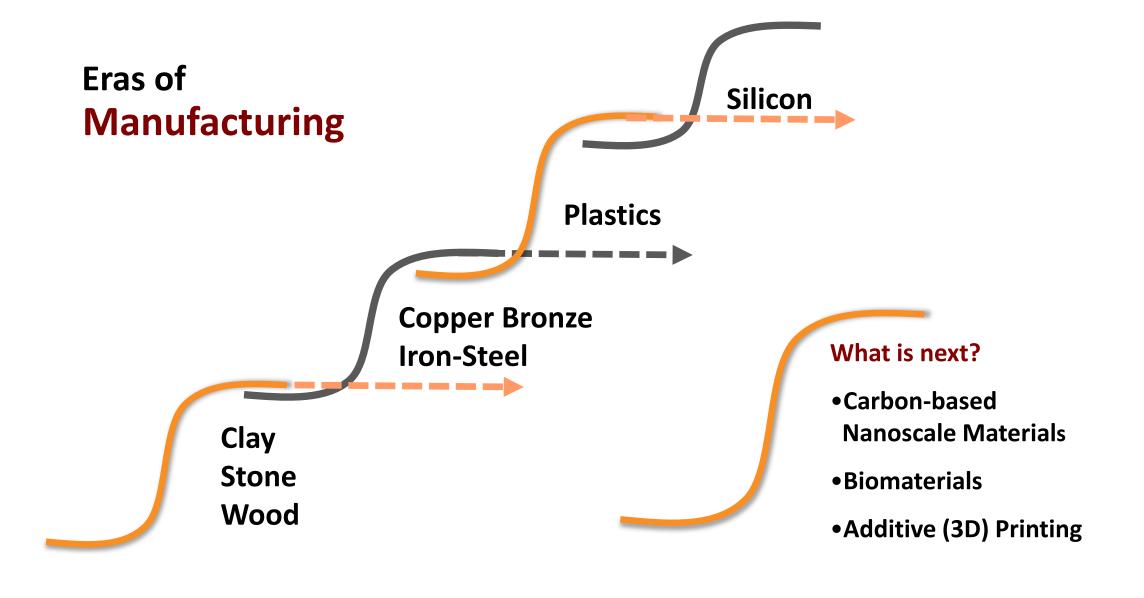


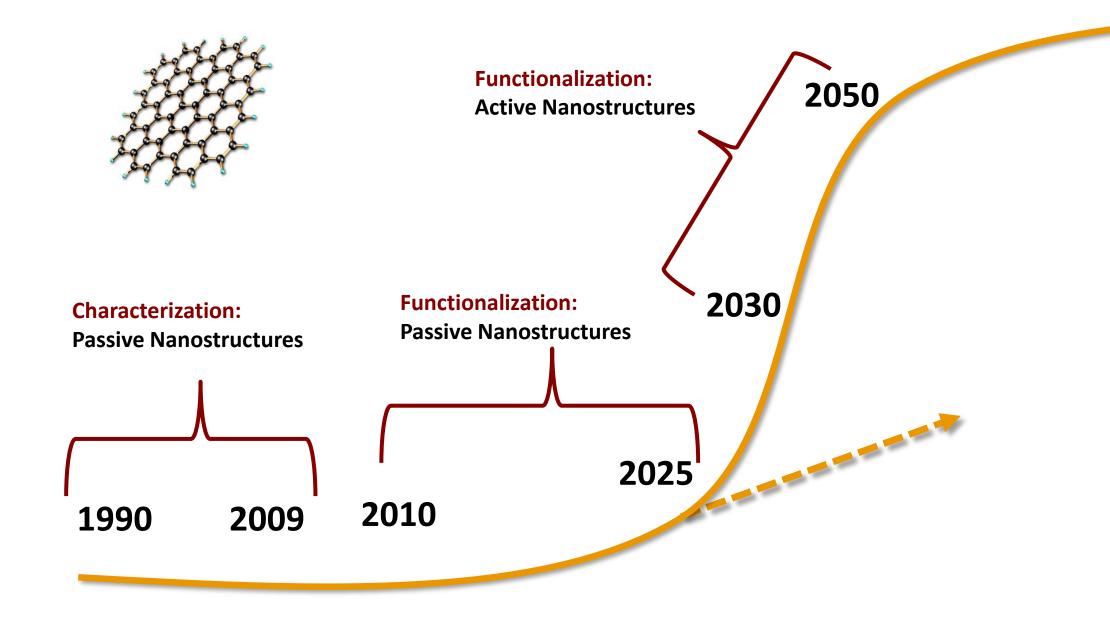


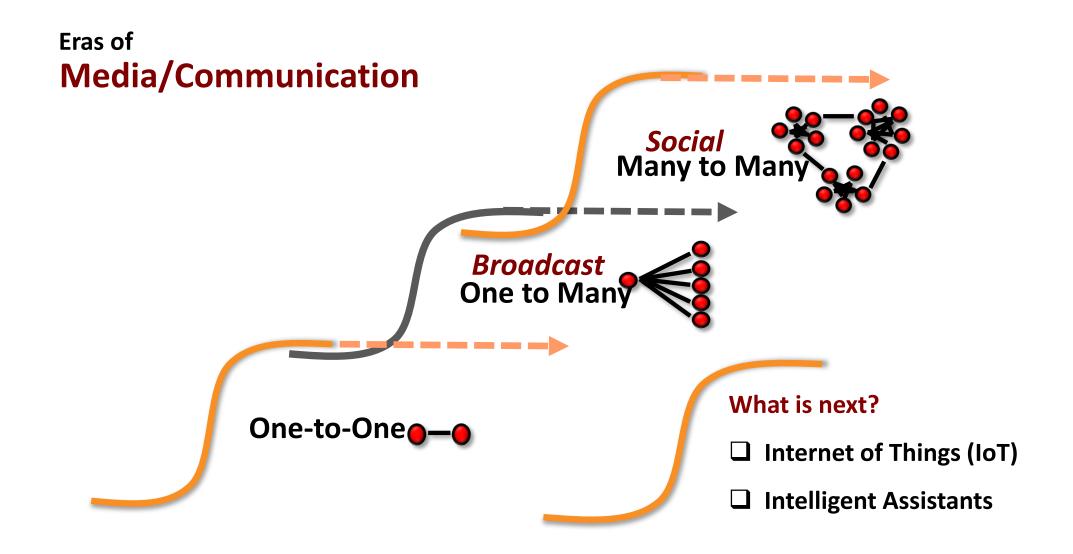


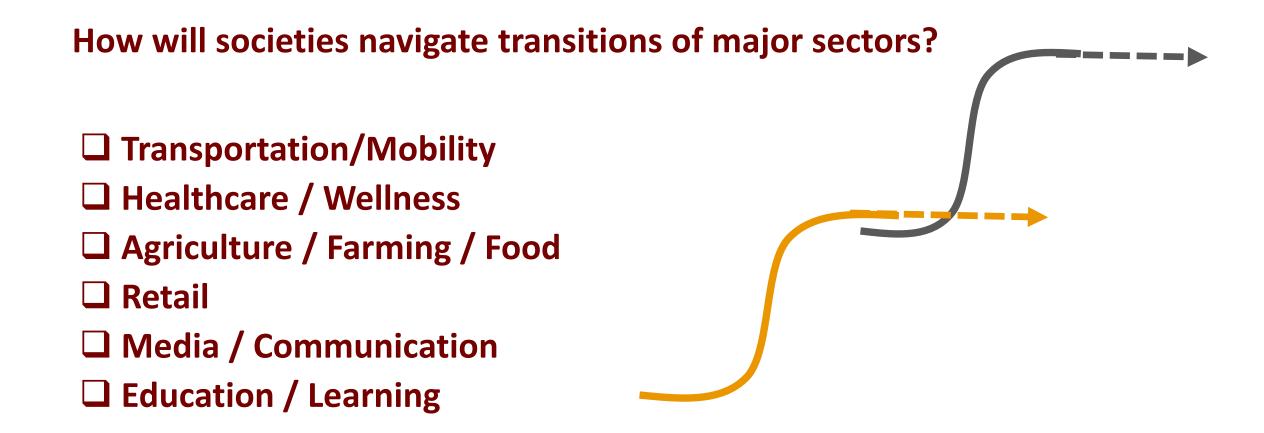
Tapping Your Inner Futurist: Monitoring Signals of Change











Collective Anticipation of Industry & Market Transitions



Future of Transportation

Autonomous // Electrification



Future of Healthcare

Population Health // Consumerization



Future of Energy

Distributed // Fuel Cells





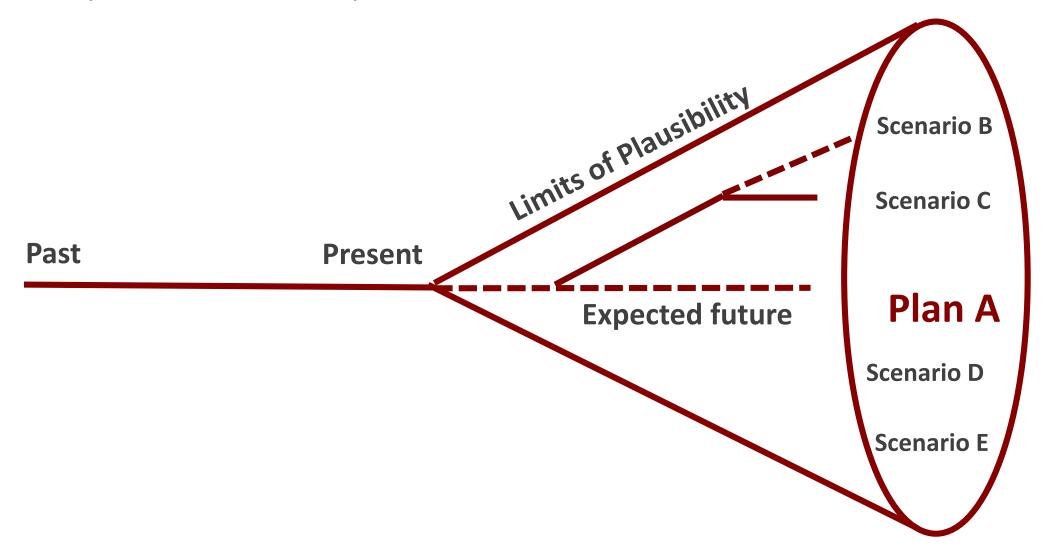
Future of Financial Services

Blockchain / Artificial Intelligence

Thinking Like a Futurist?

Foresight 101: Cone of Plausibility

Multiple Outcomes, Multiple Time Horizons



Foresight 101

Trends (Continuities)



Plausible Future

Forecasts

Events (Discontinuities)



Possible Futures

Scenarios

Choices (Discontinuities)



Preferred Future

Visions

Four Futures Thinking













Collapse

Continued Growth

Disciplined Constrained







Ability to Tell Stories of Evansville's Four Futures









Continued Growth

Disciplined Constrained

Transformed

Decline Collapse

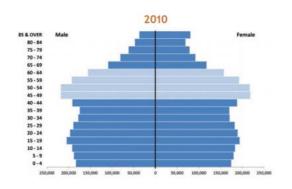


Drivers of Change

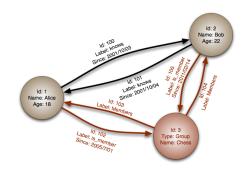


Learning More

The Slow Pace of Big Change



Demographic Destinies



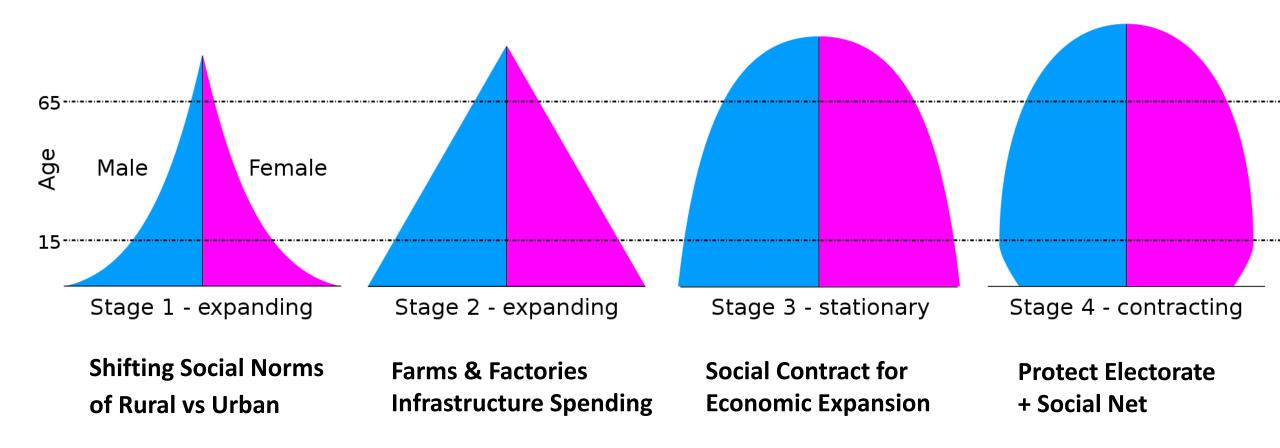
From Social Graph to Experience Graph



Blockchain + Trusted Transactions

Globalization Reshaped by Demographic Realities

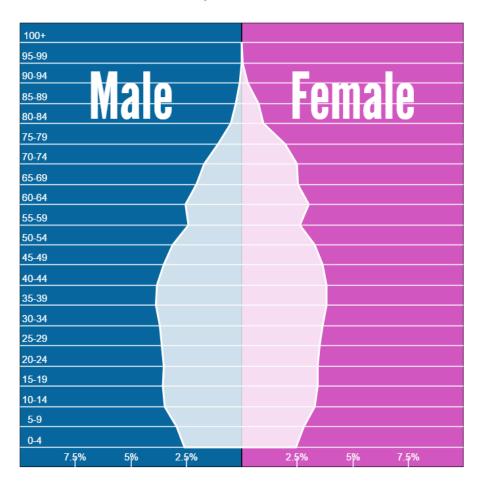




Europe's Demographic Liability

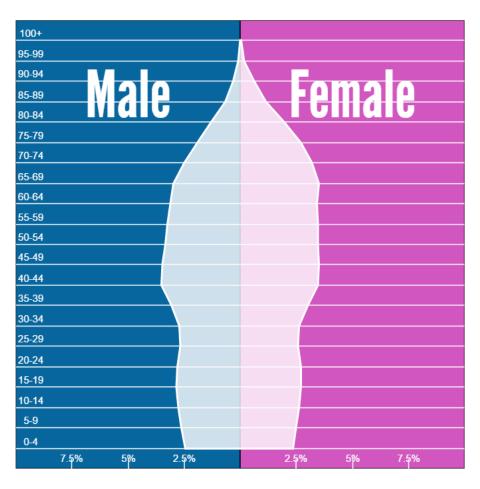
EUROPE 2000

726.407.000 Population:



EUROPE 2030

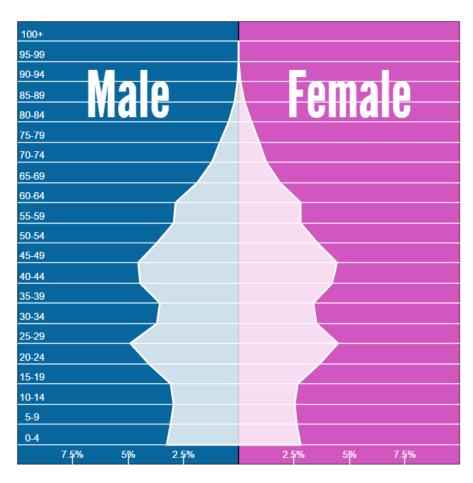
733.929.000



Global Challenges: Workforce Constraints + Delayed Consumerization

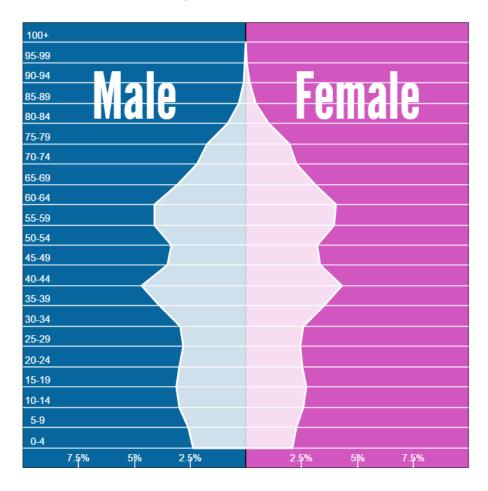
China 2015

Opulation: 1.376.048.000



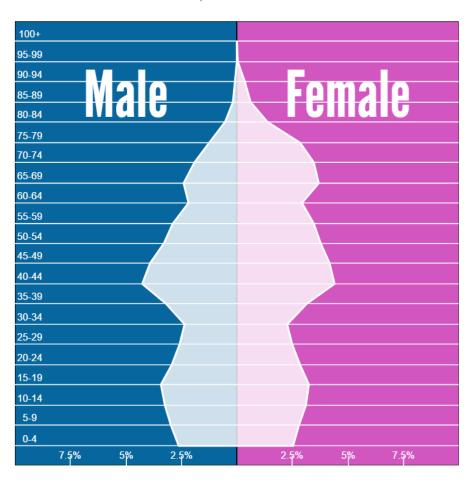
China 2030

Population: 1.415.545.000



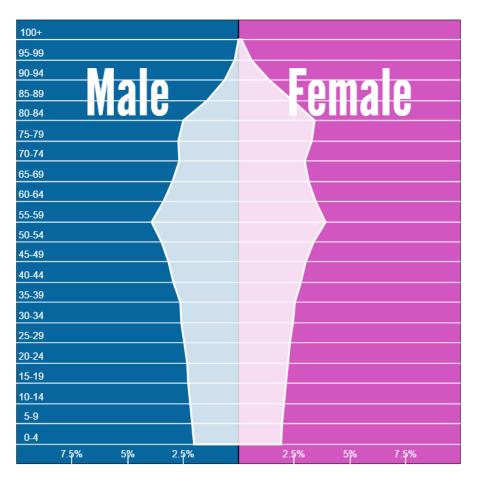
Global Challenges: Aging Electorates inside Regional Powers

Russian Federation 2030 138.652.000



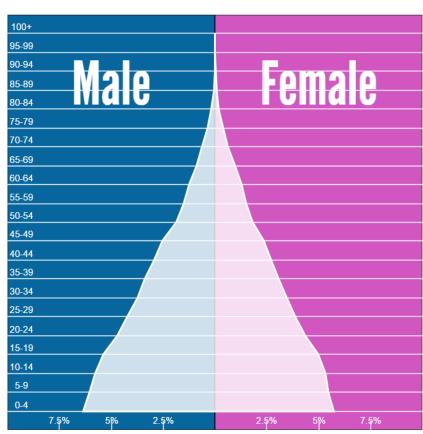


Population: 120.127.000



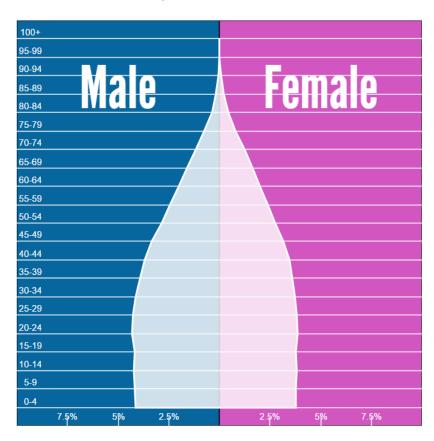
Investing in Global Demographic Dividends





India 2030

Population: 1.527.657.000

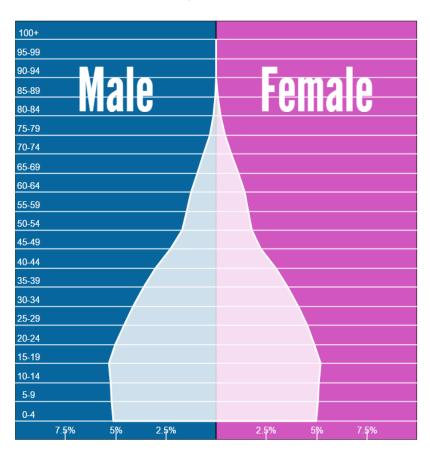


250 million joining workforce by 2030

Investing in Global Demographic Dividends



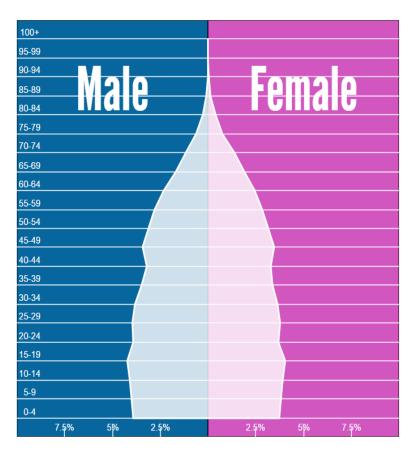
Population: 211.540.000



Indonesia

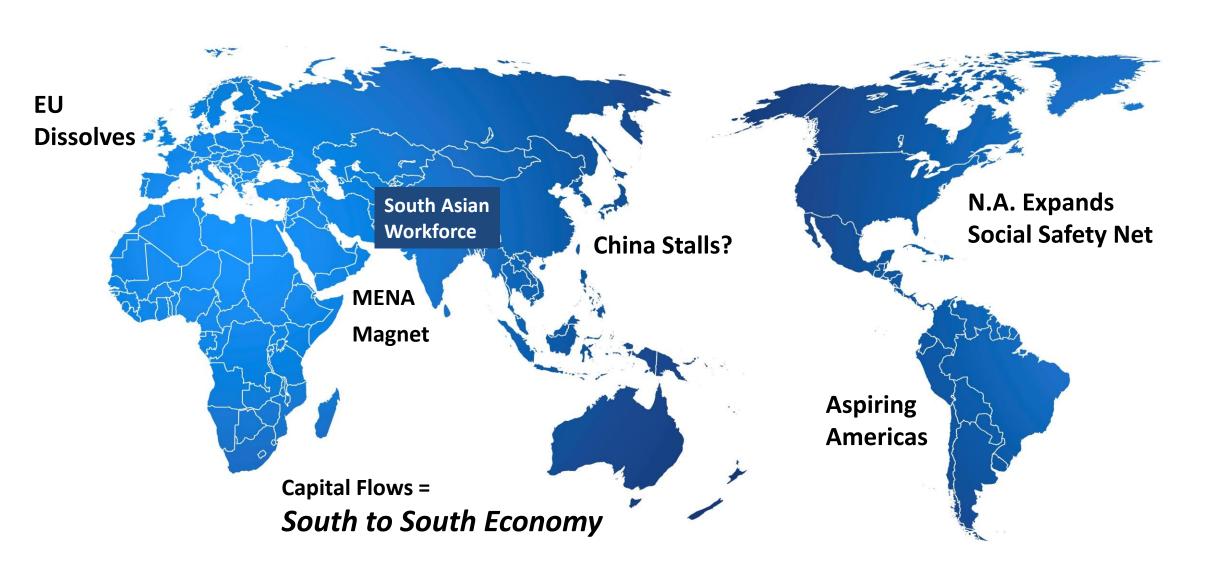
2030

Population: **295.481.000**

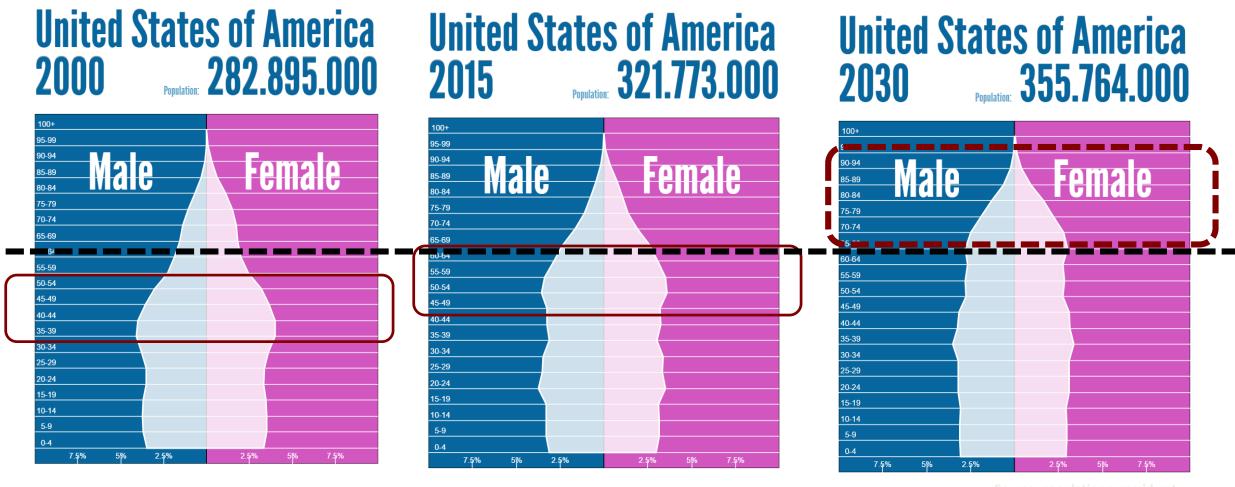


Consider Tipping Points Ahead for Global Events





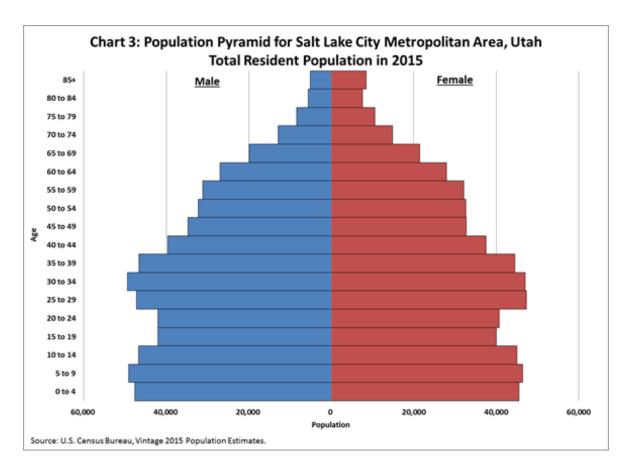
Society, Policy & Norms Re-align around Demographic Transitions



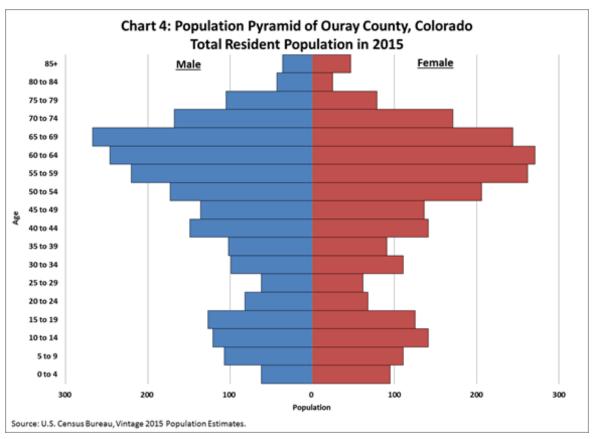
Source: populationpyramid.net

Bifurcated Demographic Destinies...?

Metropolitan Pyramids



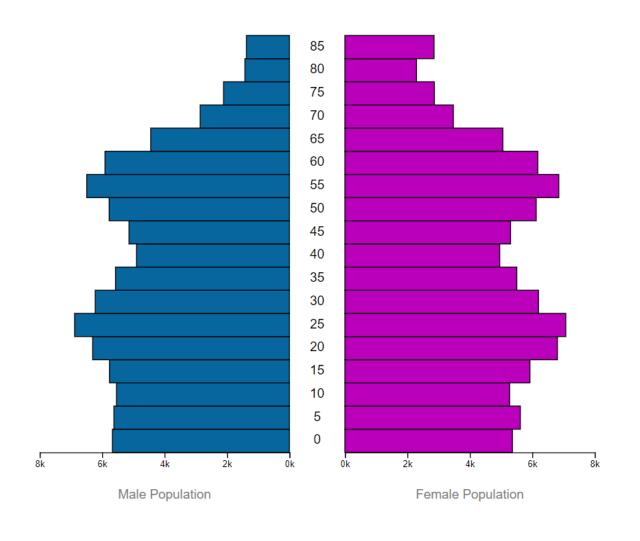
Rural & Small Town Pyramids

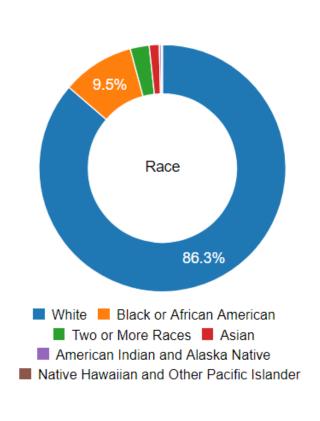


Source: https://www.census.gov/

Understanding Implications of Our Demographic Destinies

Vanderburgh County Population Pyramid





Solutions for Aging Populations

Aging in Place Solutions

How might we enable successful transitions to Aging-in-Place lifestyles?

Caregiver-centered Design

How might we develop caregiver-centered solutions?



Aging in Place



Financial Solutions









Non-Traditional Partnerships & Solution Providers

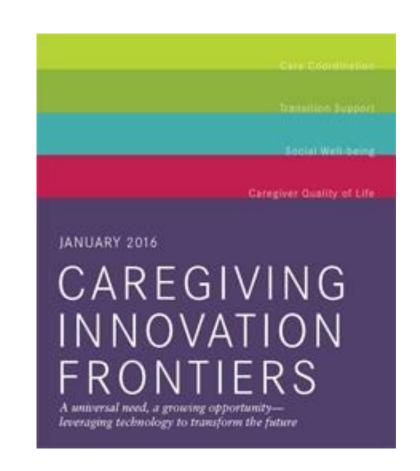
echo show + amazon cloud cam



Social Norms

Elevating Status and Solutions for Caregivers

AARP Report Finds Caregiving Market Will Grow 13% To Become \$279 Billion Disruptive Opportunity 2016-2020



45 million unpaid caregivers by 2020.

Evansville Scenario: Most Supportive Caregiver Community in U.S.



HEALTH AND SAFETY AWARENESS PAGE 18

Health vital alerts, diet and nutrition, medication management, personal safety monitoring, telehealth



CARE COORDINATION PAGE 26

Care planning, care professional engagement, records and benefits management, recovery support





TRANSITION SUPPORT PAGE 34

Home retrofit services, long-term care insurance planning, long-term care provider referral, legal assistance, hospice/funeral planning



DAILY ESSENTIAL

ACTIVITIES PAGE 10

Meals, home and personal

care, home repair, delivery,

transportation services

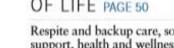
CAREGIVER QUALITY OF LIFE PAGE 50

Respite and backup care, social support, health and wellness, financial/job security



SOCIAL WELL-BEING PAGE 42

Digital inclusion, life enrichment and empowerment, community networking, life companions





Understanding Range of Solutions Coming to Market



End of Life Planning



Social Isolation



Leveraging Key Assets



Caregiver-Connected Solutions

Aligning Skillsets & Mindsets for Public & Private Sector Orgs

Innovation to Drive Business:	Innovation that considers:
☐ Security / Fraud Protection	Social Isolation
☐ Automotive	Dignity & Purpose
☐ Housing	☐ Fairness / Discrimination
☐ Budgeting/Planning	Cognitive Support Needs
☐ Credit Risk Profile (Beyond FICO)	Expanding Notions of Community
	☐ Language (Senior; Older Adult)

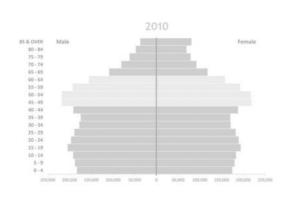
Learning More from Innovative Organizations



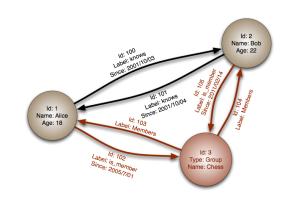




The Slow Pace of Big Change



Demographic Destinies



From Social Graph to Experience Graph



Blockchain + Trusted Transactions





In the News



In Fall 2018, Stanford Business School will pilot a program with **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

Images Removed

Social Norms & the Social Web 2008

Images Removed



Everyone knows I'm working on some personal growth issues

Images Removed

Assumption for Life in 2020s: The web is a platform for managing outcomes & personal behavior change.

Emergence of Data & Outcomes-driven World



Social Data



Health Data



Device + Infrastructure



Learning & *Doing* **Experience Data**

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

Assumption: Experience Data Appears Inside School, Workplace & Beyond



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

Scenario: People Embrace Experience Capture Analytics





"I did this..."

Statements

☐ Lucy <i>read</i> an article on virtual reality f	or aging populations
☐ Lucy opened an Evernote folder on ag	geing solutions
☐ Lucy <i>watched a</i> Youtube video on Soc	ial VR Experiences for Ageing Boomers
☐ Lucy interviewed the Director of MIT's	s Age Lab
☐ Lucy <i>attended</i> an MIT workshop on V	R simulations
☐ Lucy <i>wore</i> an 'ageing suit' at MIT Age	Lab
☐ Lucy <i>mentored</i> with the Head of Inno	vation at AARP
☐ Lucy <i>designed</i> a new VR social space (ısing Facebook Oculus dev kit
☐ Lucy <i>demonstrated</i> her VR experience	e for Aging populations at a NYC Meetup
☐ Lucy won an Webbie award for Social	VR platform
☐ Lucy <i>taught</i> a Coursera MOOC on Uni	versal Design and VR experiences
Lucy was hired as head of Social VR for	r Aging Populations at Facebook



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

- ☐ Thomas **liked** a **Lucile 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

Scenario for 2020s: Early Adopters Embrace Experience Analytics







Assumption to Explore

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

and Controversial

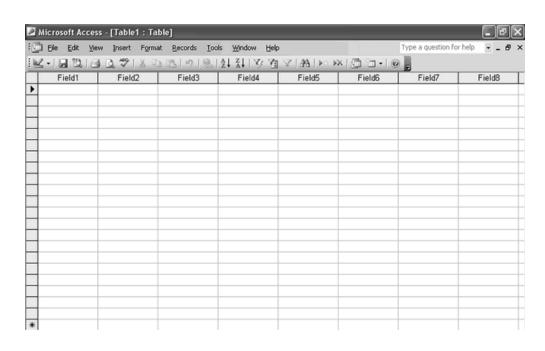
If we capture experience data...



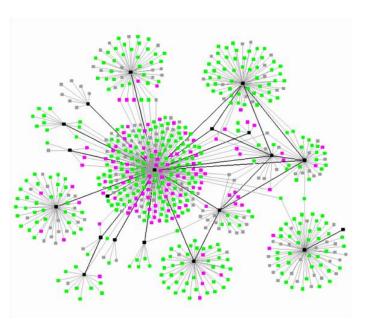
"I did this..."
Statements

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



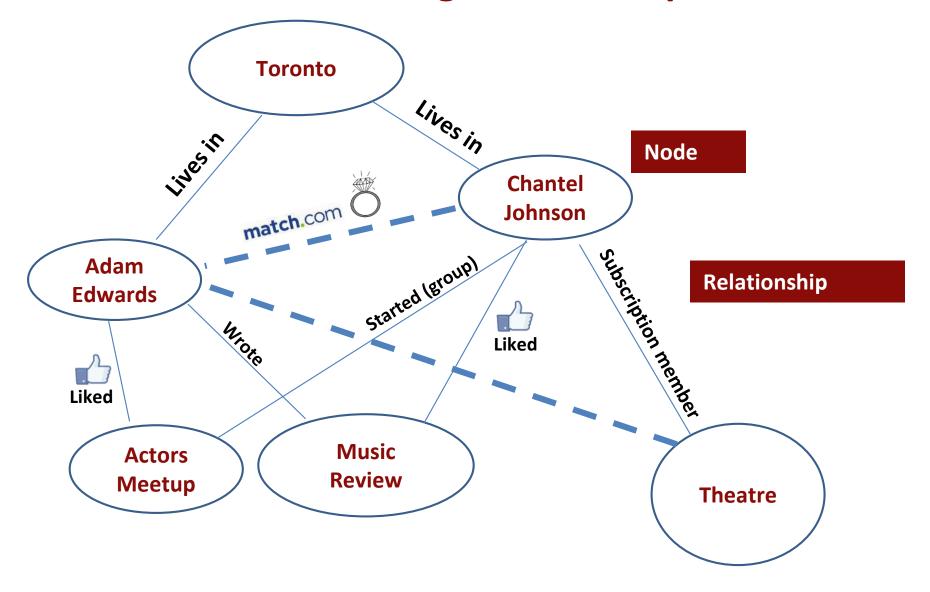
Tables = Past



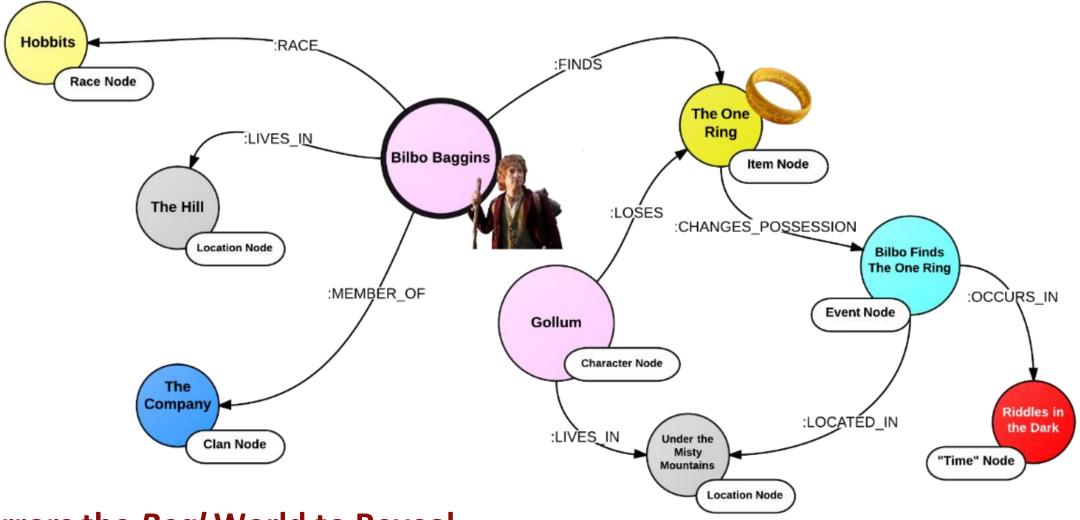


Graph Thinking = Future

Graph Database = Understanding Relationships + Connections

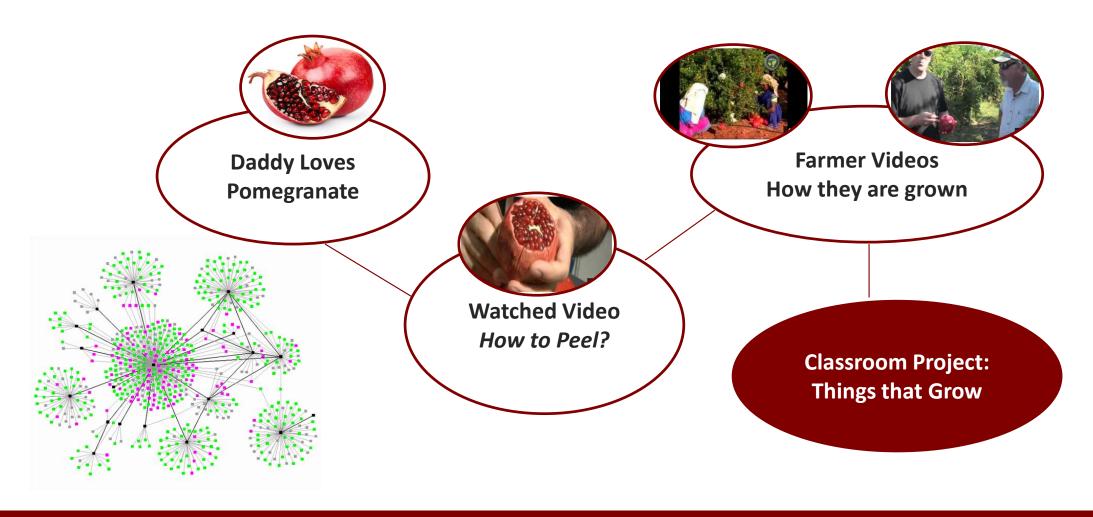


Graph Solutions for Understanding the Journey vs Outcomes



Mirrors the *Real* World to Reveal Influencer Profiles, Decision Pathways and Recommendations

Noah is Connecting Things on his Experience Graph

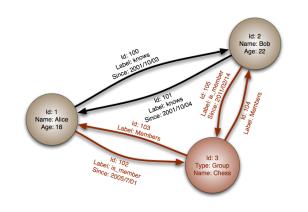


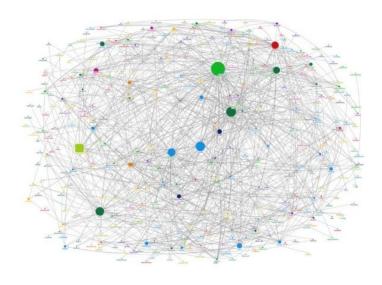
Who might have permission to see connections of experiences? Learner, Teachers, Parents, Libraries, Museums, Park Staff...

Scenario: Students, Teachers, Citizens Adopt Experience Graphs









Era of Social Graph

Era of Experience Graph

Real World Product = Enterprise Knowledge Graphs

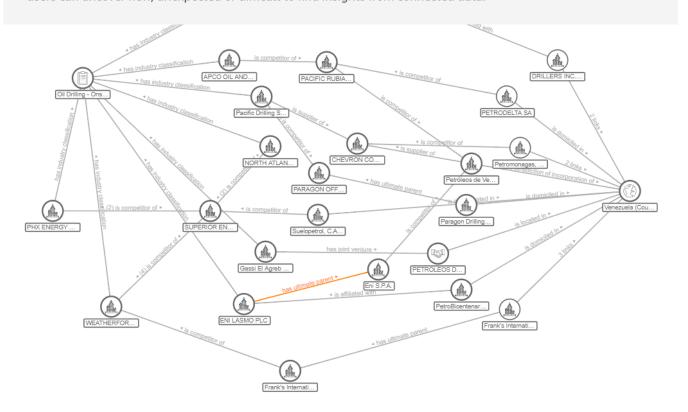
OCTOBER 23, 2017

Thomson Reuters Launches first of its kind Knowledge Graph Feed allowing Financial Services customers to accelerate their AI and Digital Strategies

Graph network of 2 billion relationships brings to life a comprehensive view of the financial ecosystem so that users can uncover new, unexpected or difficult to find insights from connected data.



A linked data feed of Thomson Reuters financial content sets with a pre-identified set of relationships, helping you to uncover previously undetected connections within and across data sets.



Real World Product = The Economic Graph



Members – Companies – Jobs – Skills – Schools – Knowledge

Learning Curve

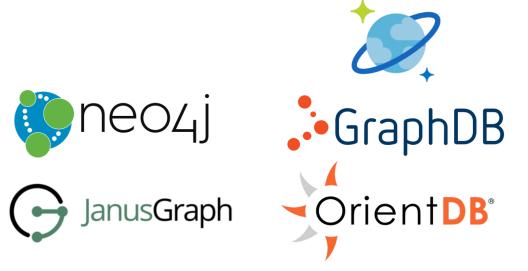








Experience Analytics Learning Record Stores



Graph Analytics

Rethinking Trust,
Identity and Community



Blockchain, Smart Contracts & Tokenization

Remember, It Was Hard to Explain the Internet in 1994



1994: "Today Show": "What is the Internet, Anyway?"

Evolution of the Web: Trust for Transactions



Internet of Files (Websites)

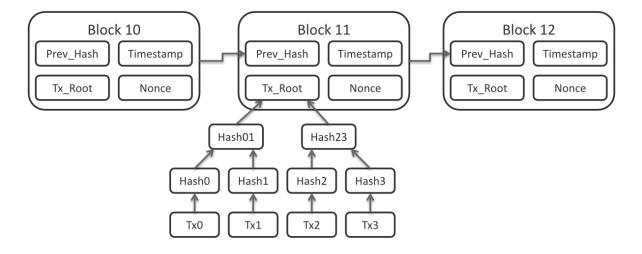


Internet of Social Networks



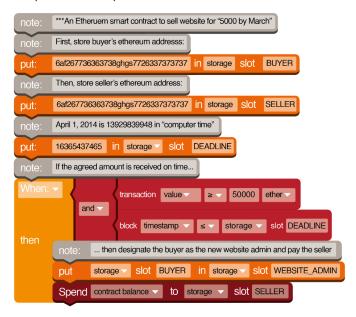
In Records We Trust

Network Consensus on who did what...



Ledger of Keys & Asset Transactions

A sample of EtherScript



Smart Contracts for Business Process Automation!

$$T = 0$$

Learning Curve: Development Platforms











Public



Private

Peer to Peer Transaction Marketplaces

Decentralized exchanges to disrupt* the third-party while opening up service stack for new value driven services. *Low fees may still apply.









iTunes without iTunes
Smart Contracts
disperse payments

Uber without Uber
Distributed
Ridesharing

ebay w/o ebay
Distributed
Marketplace

Peer to Peer Energy Trading

Supply Chain – Automation, Transparency & Safety

IBM Forges Blockchain Collaboration With Nestlé & Walmart In Global Food Safety



Financial Inclusion / Economic Identity



Home

About Us

Our Solution

Learn More

Partners

Contact Us

BANQU

Leveraging blockchain technology to give the world's poorest access to the global economy.



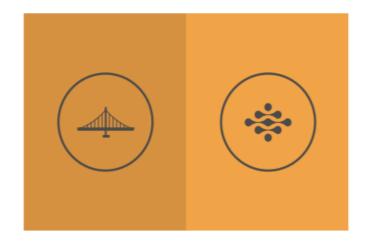
Application: Liquidity & Financing Ecosystems



A blockchain-based protocol stack for global commerce and supply chains

Bridgecoin

- 1 A stable currency
- Pegged to fiat currency
- Your key to using the Sweetbridge Fund liquidity application



Sweetcoin

- Enables interest-free borrowing
- A limited-supply currency
- Your key to exchanging
 Bridgecoin for fiat &
 using the Settlement
 application at no fee

BLOG

Civil is the decentralized marketplace for sustainable journalism.

Local Journalism runs on Civil



CIVIL

The Colorado Sun

Investigative, explanatory and narrative journalism for a state in the midst of a massive evolution. From former top editors/writers at the Denver Post.

VIEW NEWSROOM



Block Club Chicago

The only independent outlet delivering reliable, nonpartisan coverage of Chicago's diverse neighborhoods. From the team behind DNAinfo.

VIEW NEWSROOM

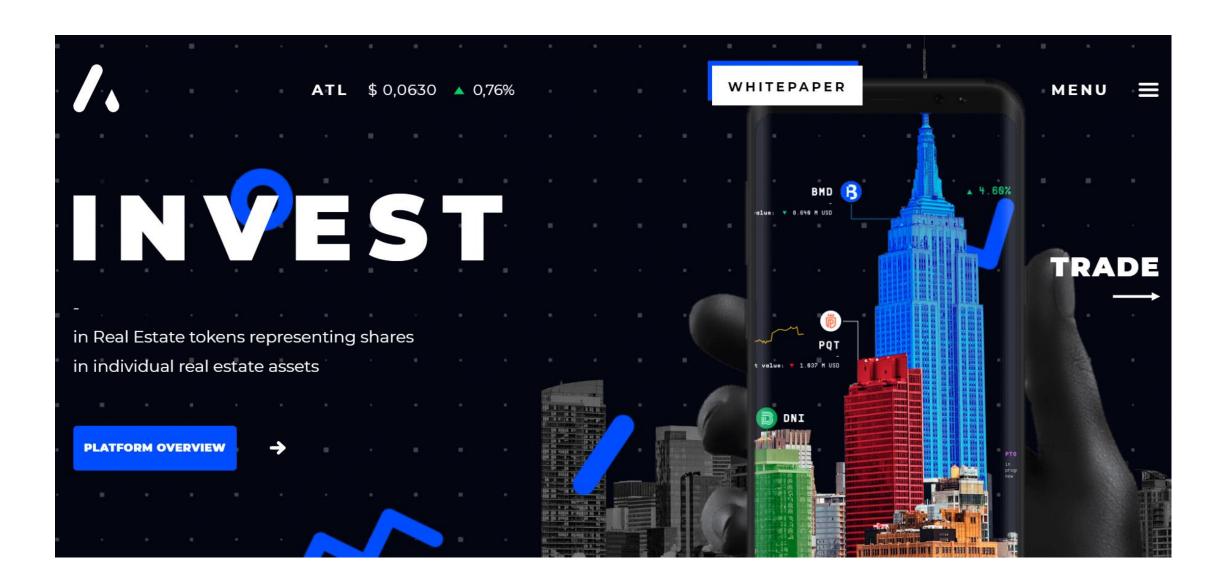


The River

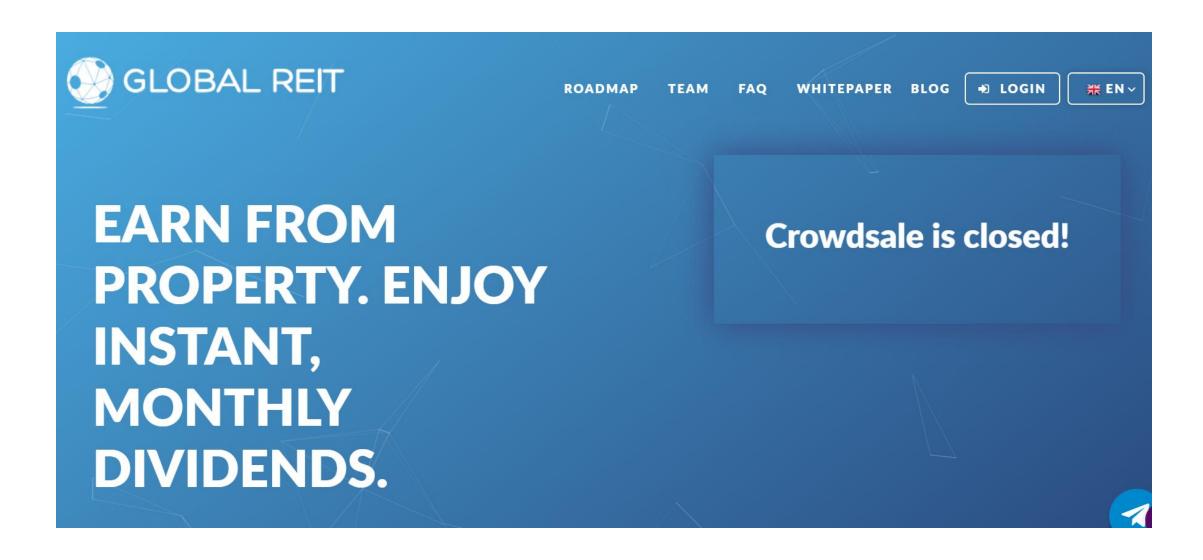
A Hudson Valley-based news outlet connecting the region to the world. Offers in-depth coverage from a regional perspective on issues of national importance.

VIEW NEWSROOM

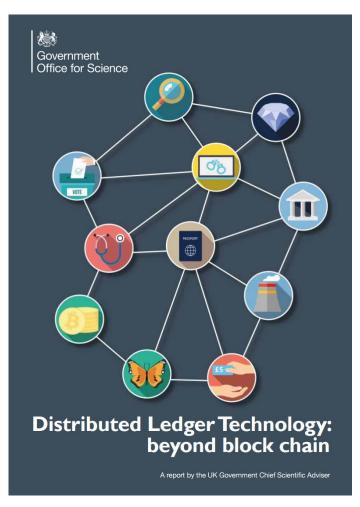
'Tokenization' of Real Estate



Middle East Policies for Crypto Innovation



Government Services



Governments reduce the cost and complexity via:

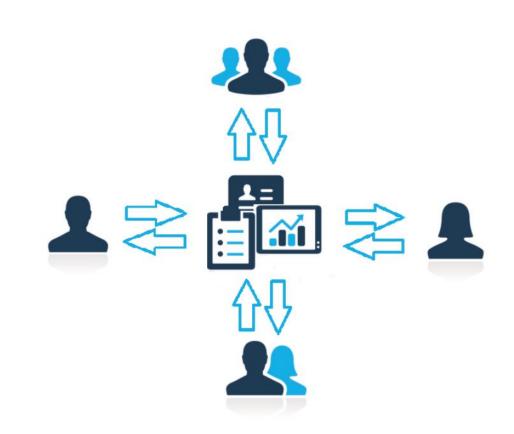
- ☐ Identity (Passports; Birth certificates; Business)
- ☐ Asset Registries (including land)
- □ Voting
- Procurement
- ☐ IoT and Building Management
- ☐ Regulatory + Compliance Automation
- ☐ Community Crypto Currencies (Financial inclusion)
- ☐ Cyber Security / Access Control to Documents
- □ DAOs (Decentralized Autonomous Organizations)

Population Health Data Exchanges

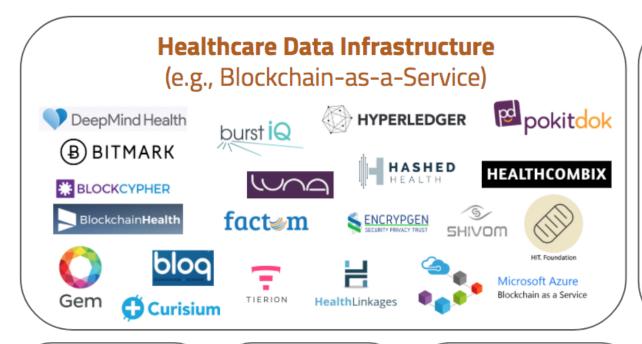


Is Blockchain the Answer to Healthcare's Big Data Problems?

Can a blockchain approach to big data solve the healthcare industry's issues with security, interoperability, and care coordination?



Healthcare-related blockchain projects

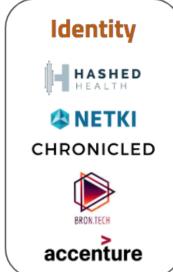


















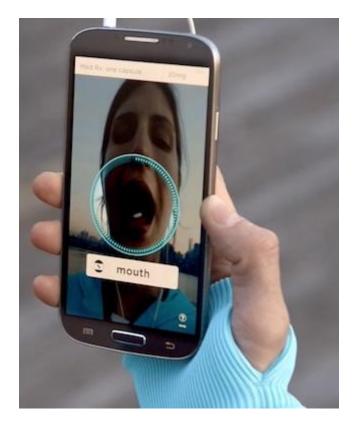
Future: Crypto Currencies Tied to Behavior Change

Incentivized Patients...



Crypto Currencies + Smart Contracts Automate Incentives for Adherence





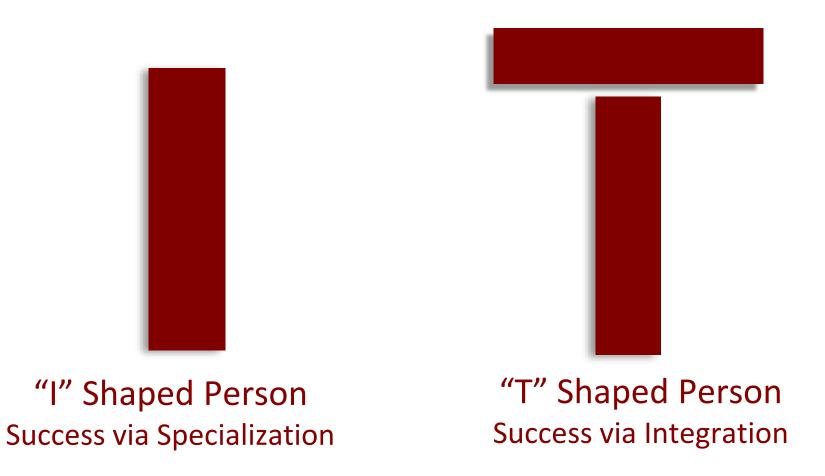
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End



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
Low Volume Manufacturing

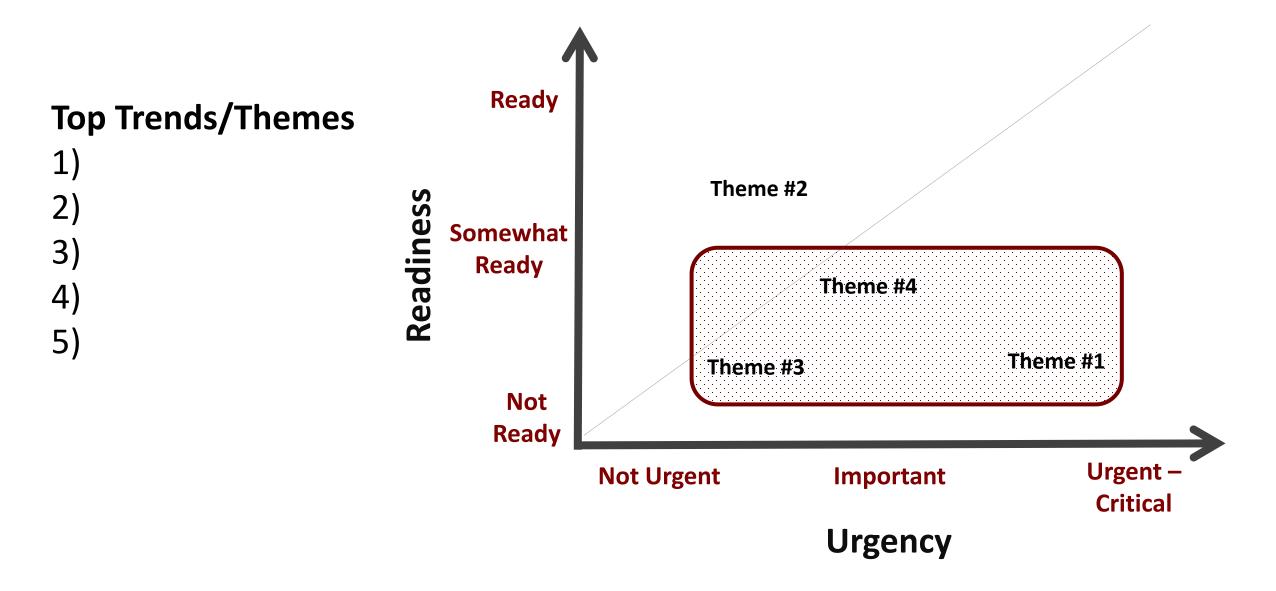
Thank you!

Garry Golden
garrygolden@gmail.com (Two Rs)





Take a Pulse Check on Emerging Trends vs Organizational Appetite



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?

