EXPONENTIAL DISRUPTION

Information Layers



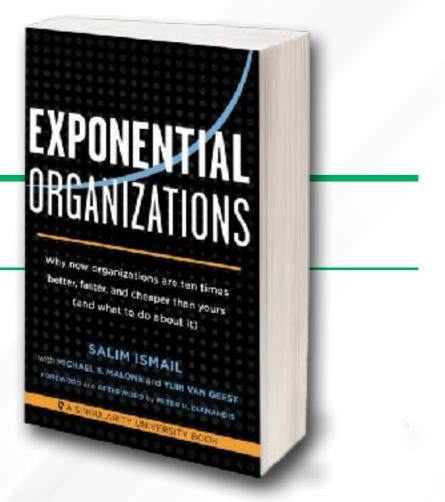
Al Robotics Biotech Nanotech Medicine Neuroscience Energy Computing



Digitize Disrupt Demonetize Democratize

New Breakthroughs





@salimismail

// Founder & Chairman

OpenExO, ExO Works, Fastrack Institute

// Board member
X Prize Foundation

// General Venture Partner Rokk3r Fuel ExO

// Founding Executive Director
 Singularity University

// Vice President

Yahoo

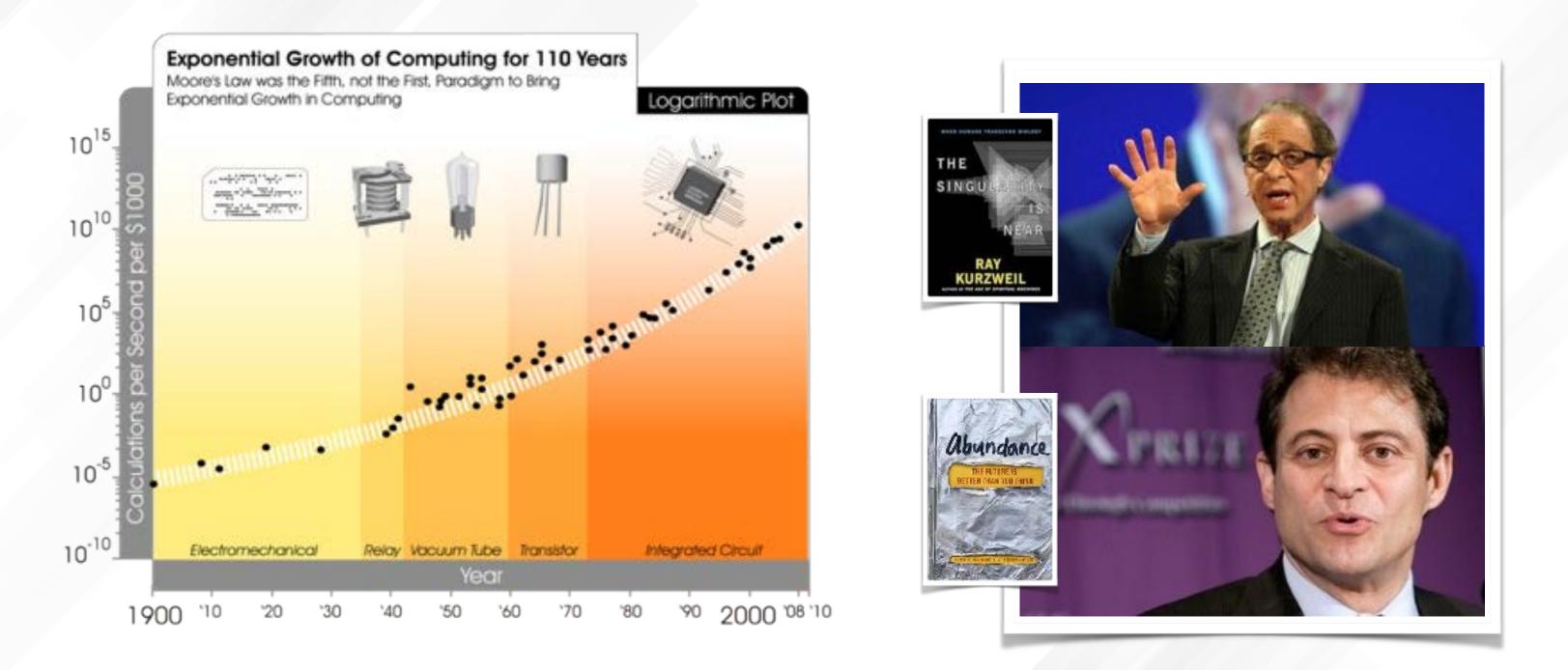








Moore's Law

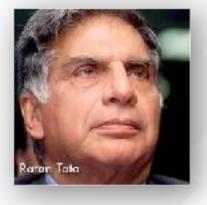




X Prize Board of Trustees & Benefactors



LARRY PAGE, CEO, Google



RATAN TATA Chairman of Tata Group



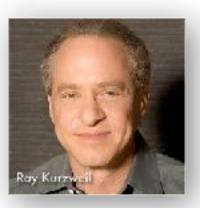
DR. CRAIG VENTER, **Genetic Pioneer**



Dr. ANOUSHEH ANSARI Astronaut & CEO



DEAN KAMEN, **CEO, DEKA** Research



RAY KURZWEIL Inventor & Futurist



ELON MUSK CEO, Tesla & SpaceX



O openexo



JAMES CAMERON Filmmaker and explorer



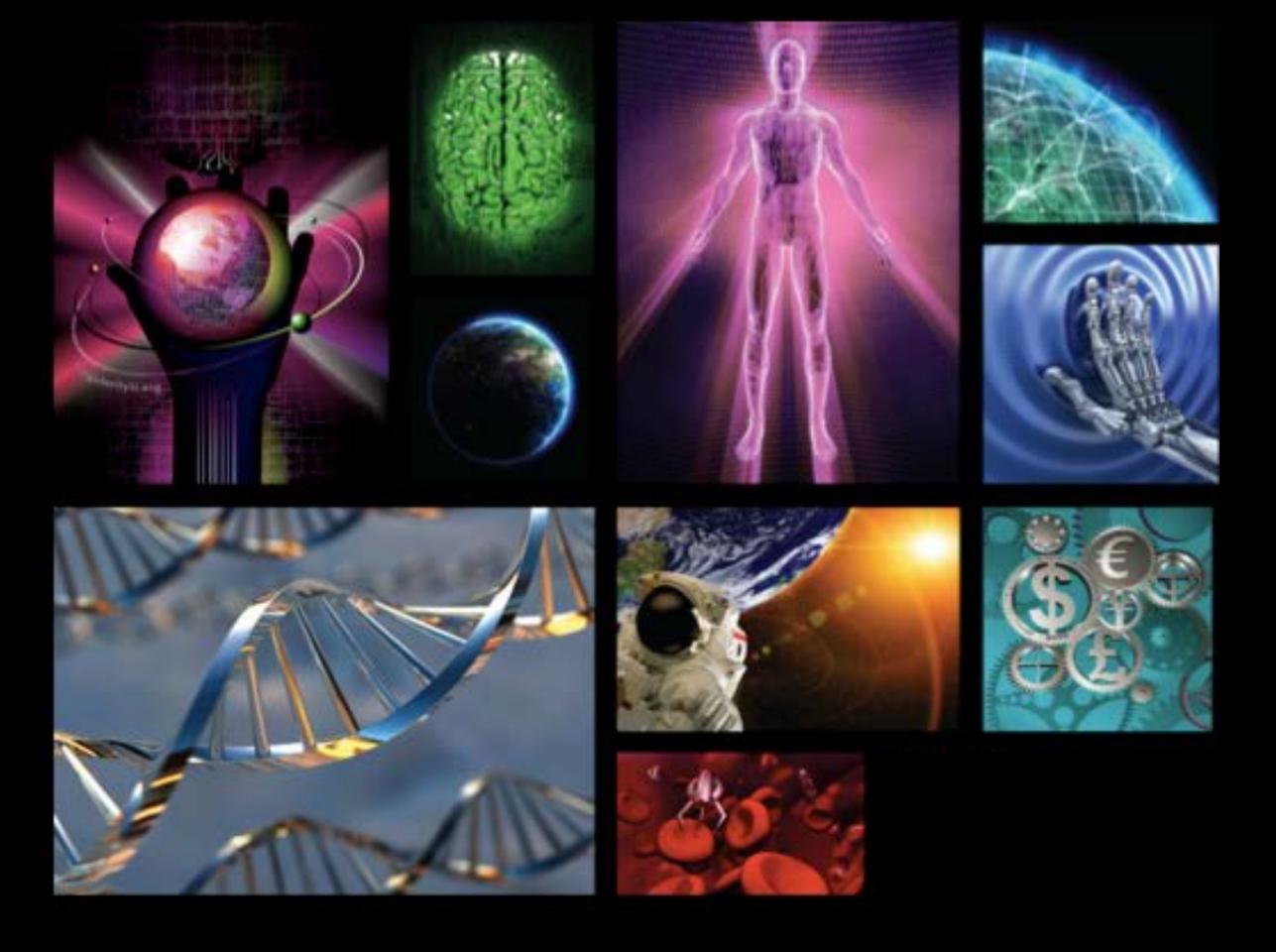


WENDY SCHMIDT Schmidt Family Fndtn



Accelerating Technologies

Al Robotics Biotech Nanotech Medicine Neuroscience Energy Computing



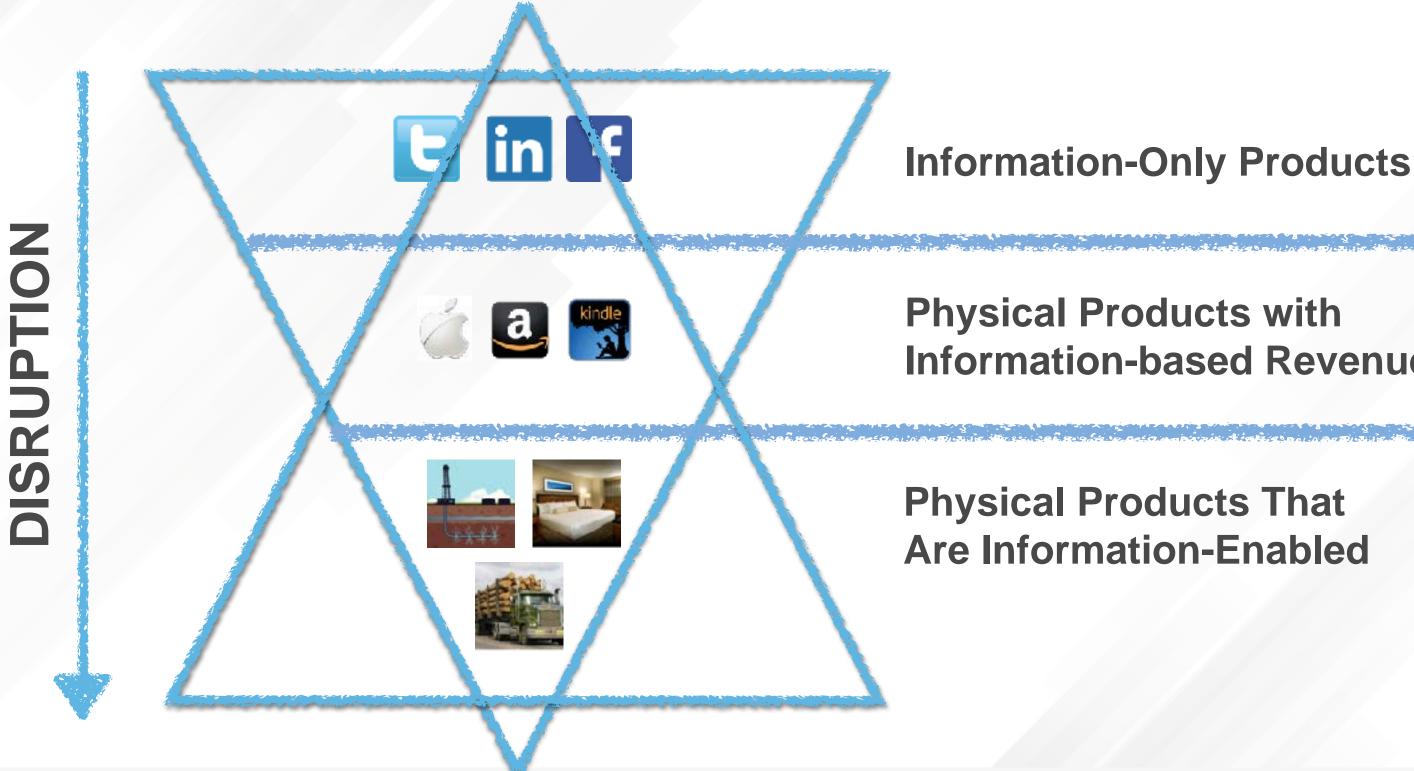
Deception of linear vs exponential





Chaos/ Amazement

Industries by Information Enablement



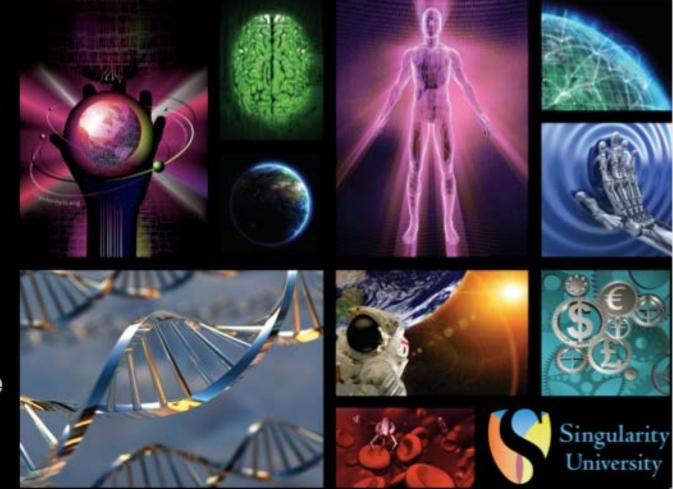


Information-based Revenue

Information Layers

Accelerating Technologies

Al Robotics Biotech Nanotech Medicine Neuroscience Energy Computing

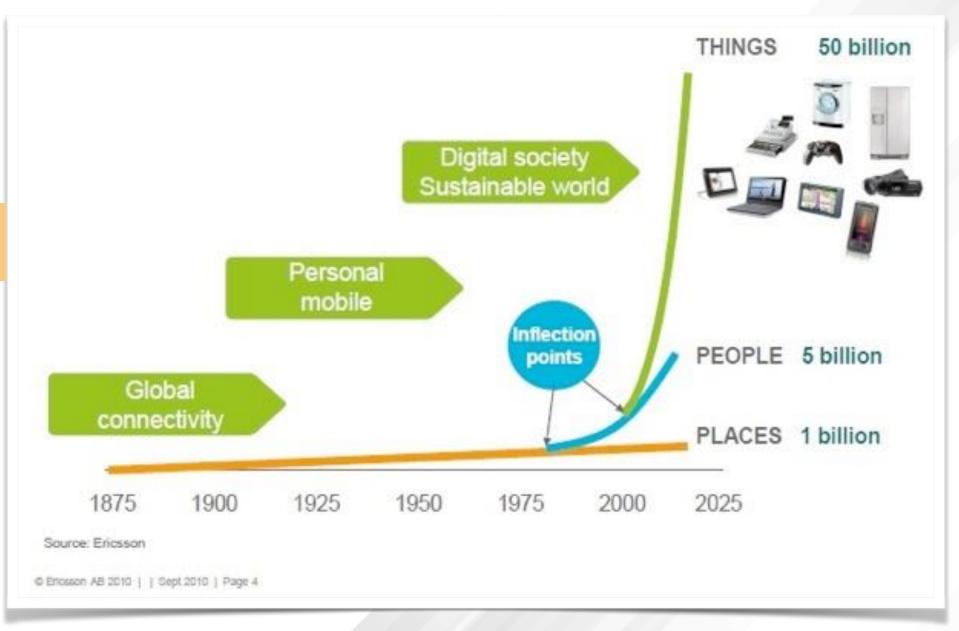


New Breakthroughs

Digitize Disrupt Demonetize Democratize

Internet of Things 50B devices by 2020

50B devices by 2020





M2M communication will be > 50% of data traffic by 2030





1 trilion connected devices using low bandwidth

Beyond Verbal

- 18 years of research
- Over 60,000 subjects world-wide
- 4 active researches
- 4 approved US patents (and two more on the way...)
- Major awards



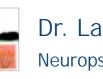




Dr. Yoram Levanon **Decision Making**, Physics



Dr. Lan Lossos Neuropsychology





DEMO Spring 2010 The Launchpad for Emerging Technology

People's Choice Winner!

iTunes Preview

Moodies Emotions Analytics By Beyond Verbal Open Tunes to buy and download apps.



Free



Description

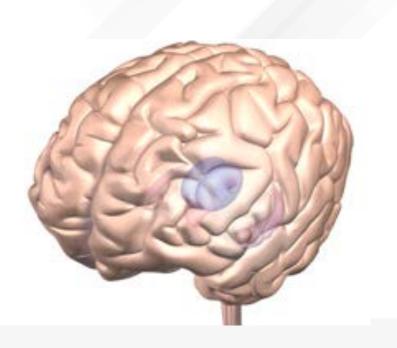
Your mood in 20 seconds. Just press a button and talk.

Intrigued by emotions?

Moodies Emotions Analytics Support +

What's New in Version 1.4

Improved user experience Bug fixes



My Mood/Attitude





Missionary leadership. Stubbornness. Restrained enthusiasm. Self-control. Conflict between enthusiasm and pragmatism.



?

Duration 00:13

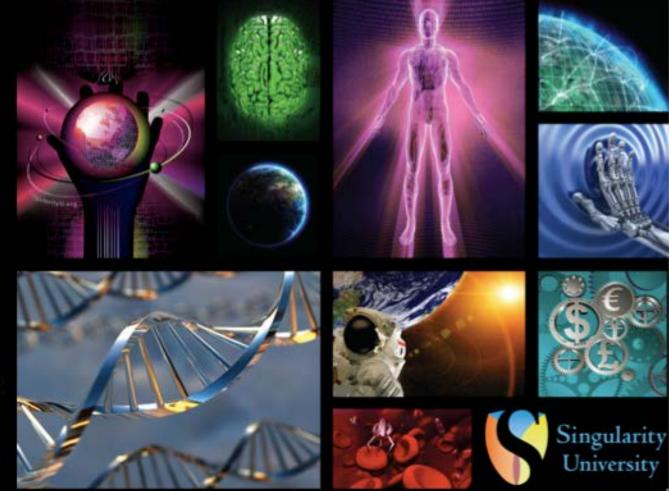
belief



Information Layers



Al Robotics Biotech Nanotech Medicine Neuroscience Energy Computing



New Breakthroughs

Digitize Disrupt Demonetize Democratize

Why information » exponential

// marginal cost >> zero // domain explodes // problem space shifts

>scarcity to abundance









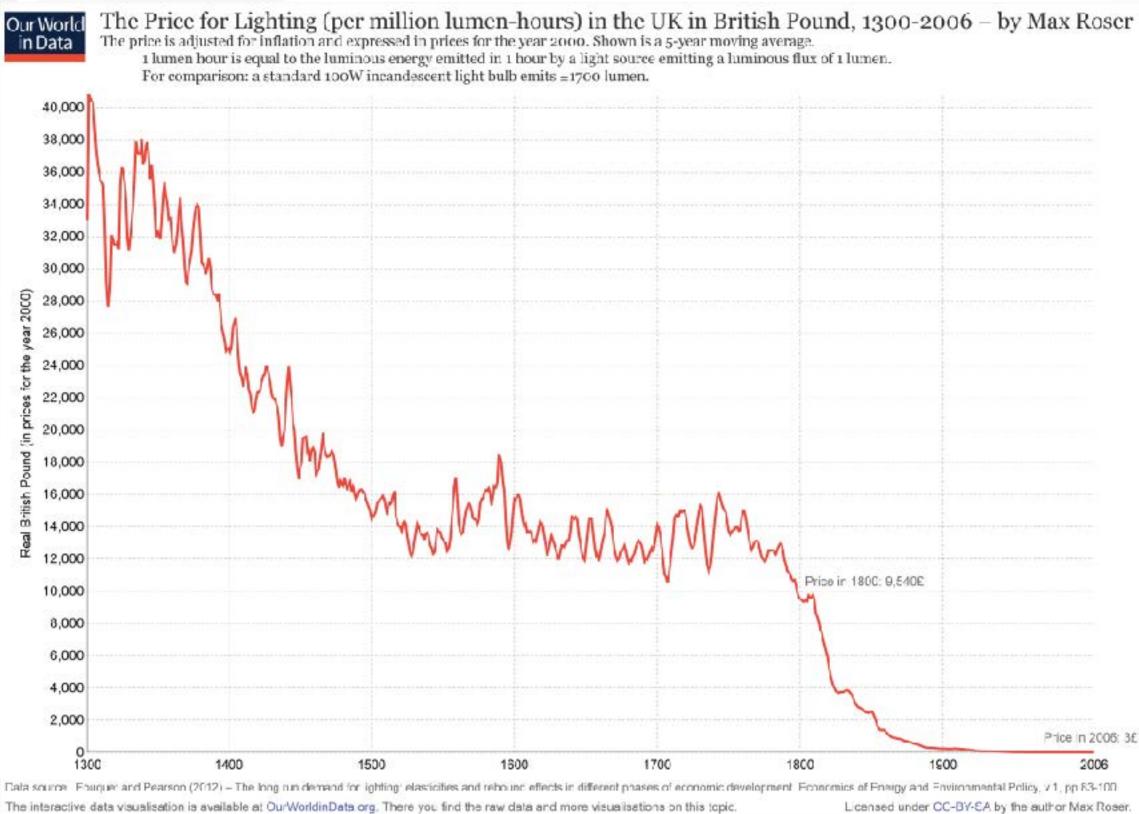


Accelerating Technologies

Al Robotics Biotech Nanotech Medicine Neuroscience Energy Computing

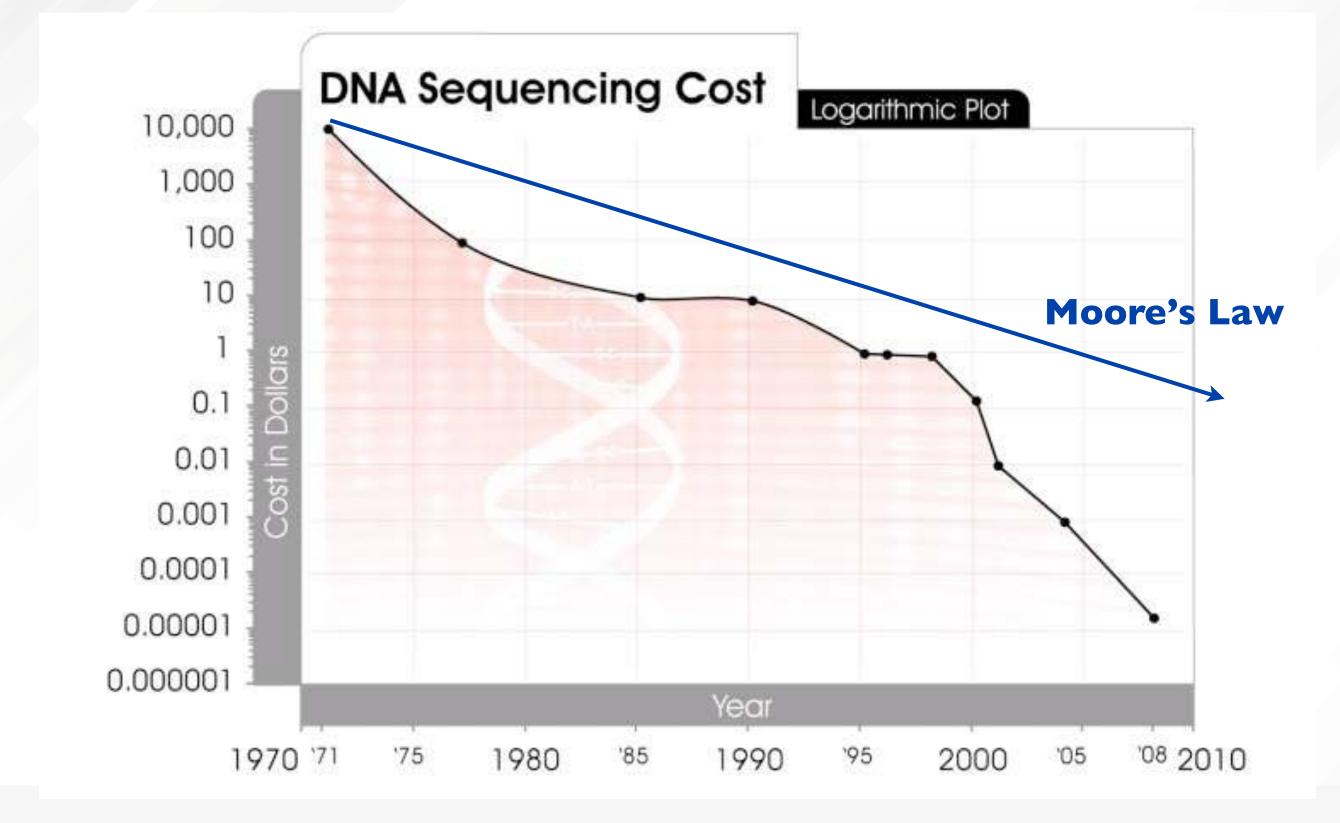


Cost of Light



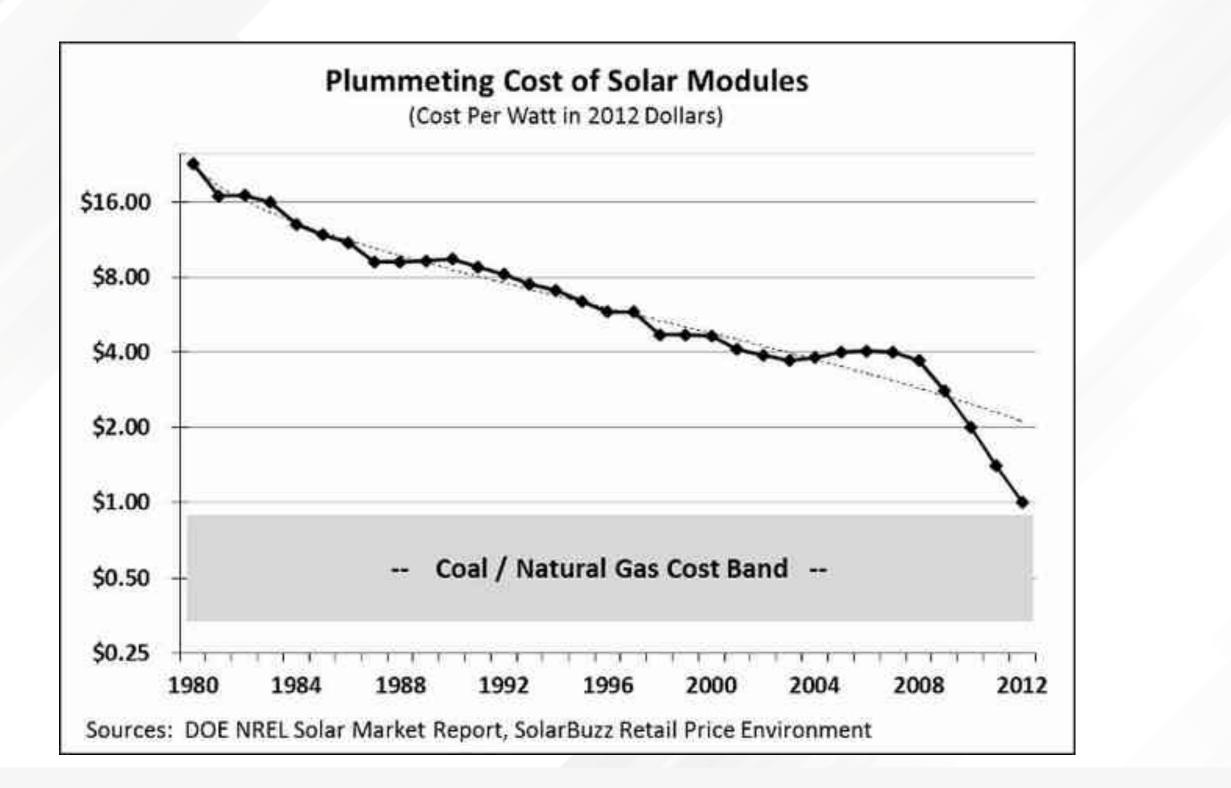


Reading / Sequencing DNA



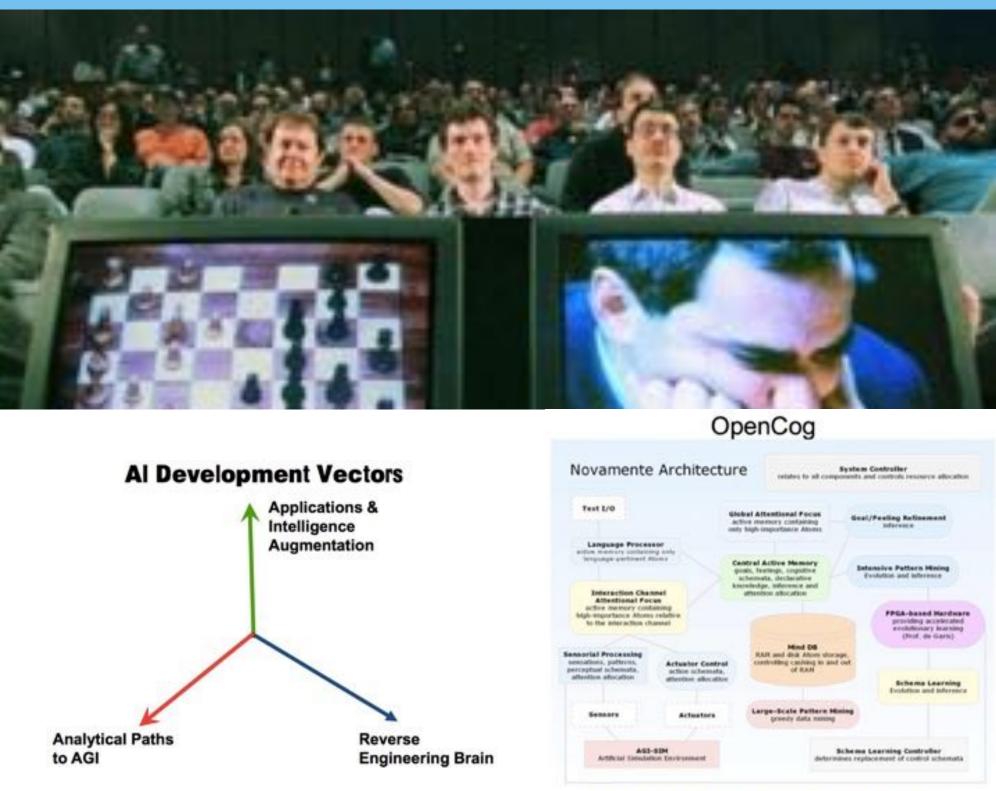


Cost of Solar Modules





AI & Robotics





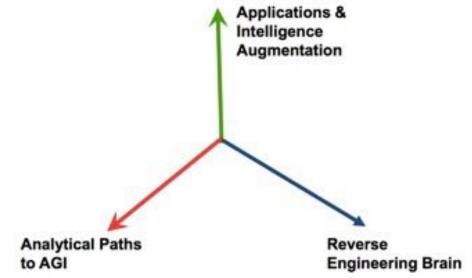
Dan Barry, MD

(Space, AI, Robotics) NASA Astronaut



Neil Jacobstein

(AI, Robotics) AI CEO, Visiting Scholar Stanford



http://opencog.org/wiki/The Open Cognition Project

Last upgrade - 50k years

Ancient architecture Torrents of data Hardwired biases Limited bandwidth Technological amplification Change accelerating **Global** problems Navigation requirements increasing





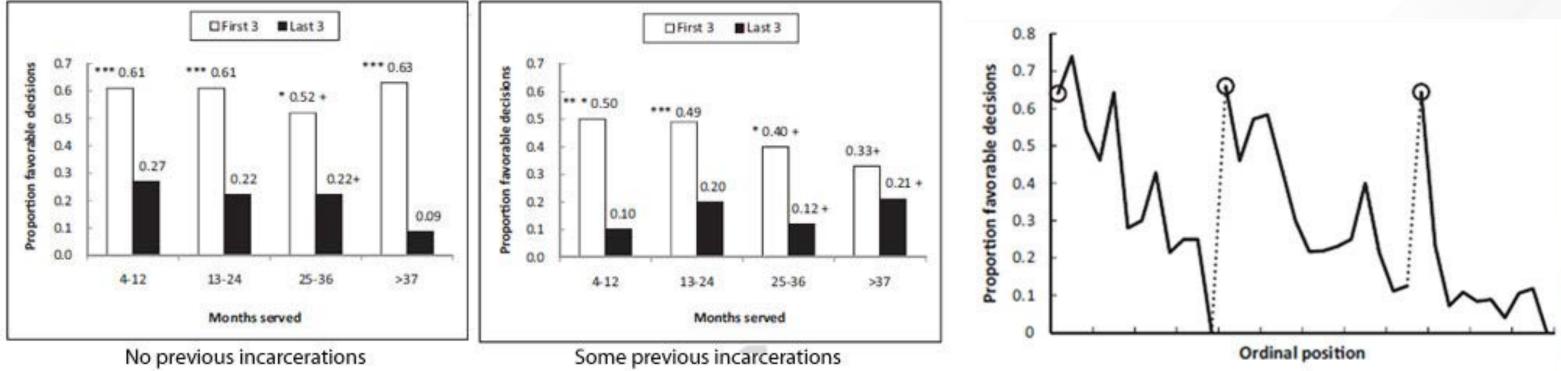
Biases & heuristics in human cognition

Anchoring bias – fixating on 1st impressions Status quo bias – failure to consider alternatives to what is Sunk-cost bias – protecting earlier bad choices Confirming-evidence bias – selective data collection Framing bias – posing the wrong question Overconfidence bias – failure to challenge assumptions Saliency bias – focus on dramatic events vs whole picture Base-rate bias – neglecting relevant baseline information Pattern invention bias – imposing patterns on events Prudence bias – slanting probabilities & estimates





Shai Danziger - 1,112 parole hearings



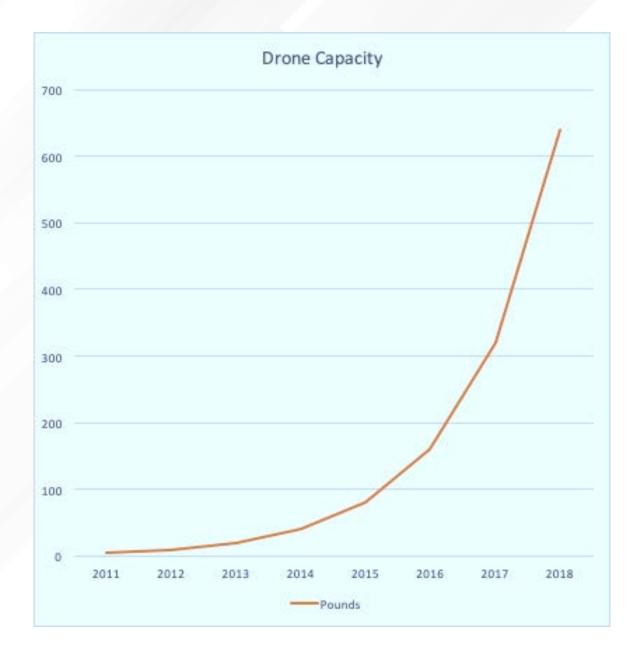






Drones Since 2012

WIRED





A team of 50 engineers spent three months building what looks like a car-sized Erector Set, fitted with eight spinning blades (each six feet from tip to tip), and weighing in at an auspicious



Boeing's Experimental Cargo Drone Is a Heavy Lifter

ALEX DAVIES TRANSPORTATION 01.14.18 07:00 AM

00:20.821



Vertical Farming (Aerofarms)

80k sq feet, feeds 80k ppl

(not cheap... YET)



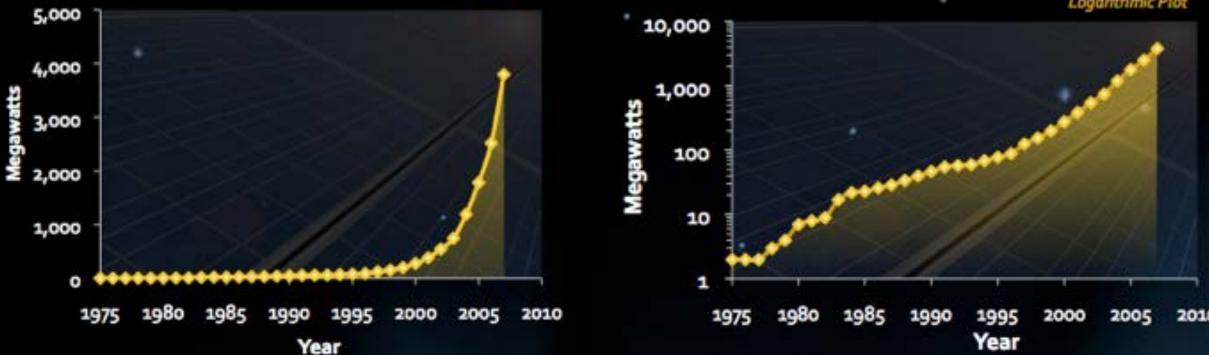






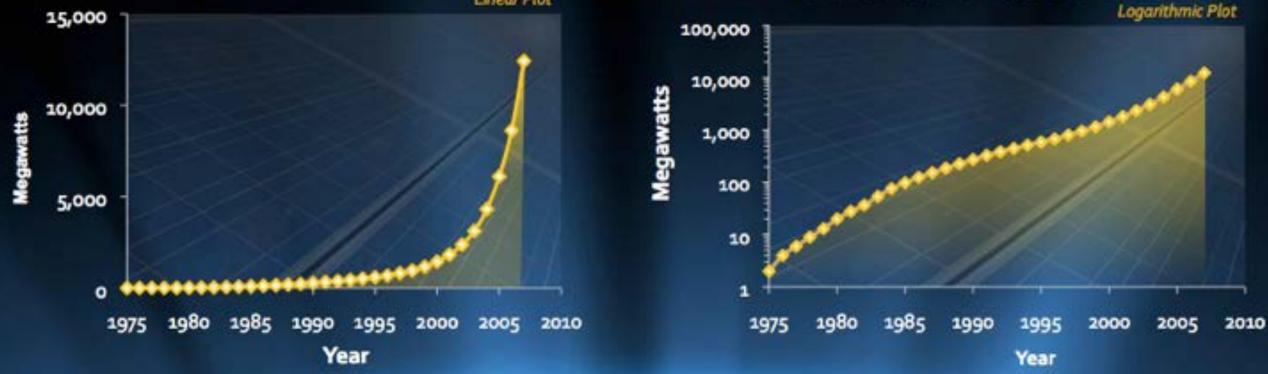
World Annual Photovoltaic Production

Linear Plot



World Cumulative Photovoltaic Production

Linear Plot



Contract in

Solar

World Annual Photovoltaic Production

Logarithmic Plot

2010

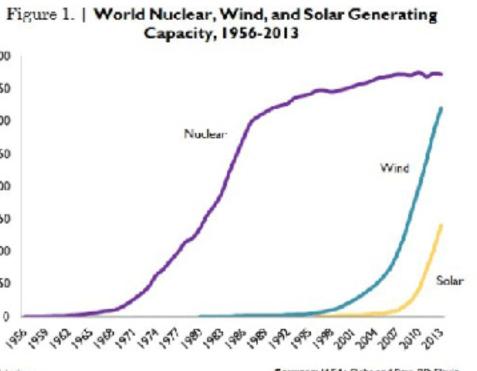
World Cumulative Photovoltaic Production

Relative cost of solar...

	1970-2013	1970-2020
Petroleum	5355x	16065x
Nuclear	1540x	4620x
Natural Gas	2275x	6825x
Coal	900x	2700x

Source: Tony Seba





400

350

300

250

200

150

00

50

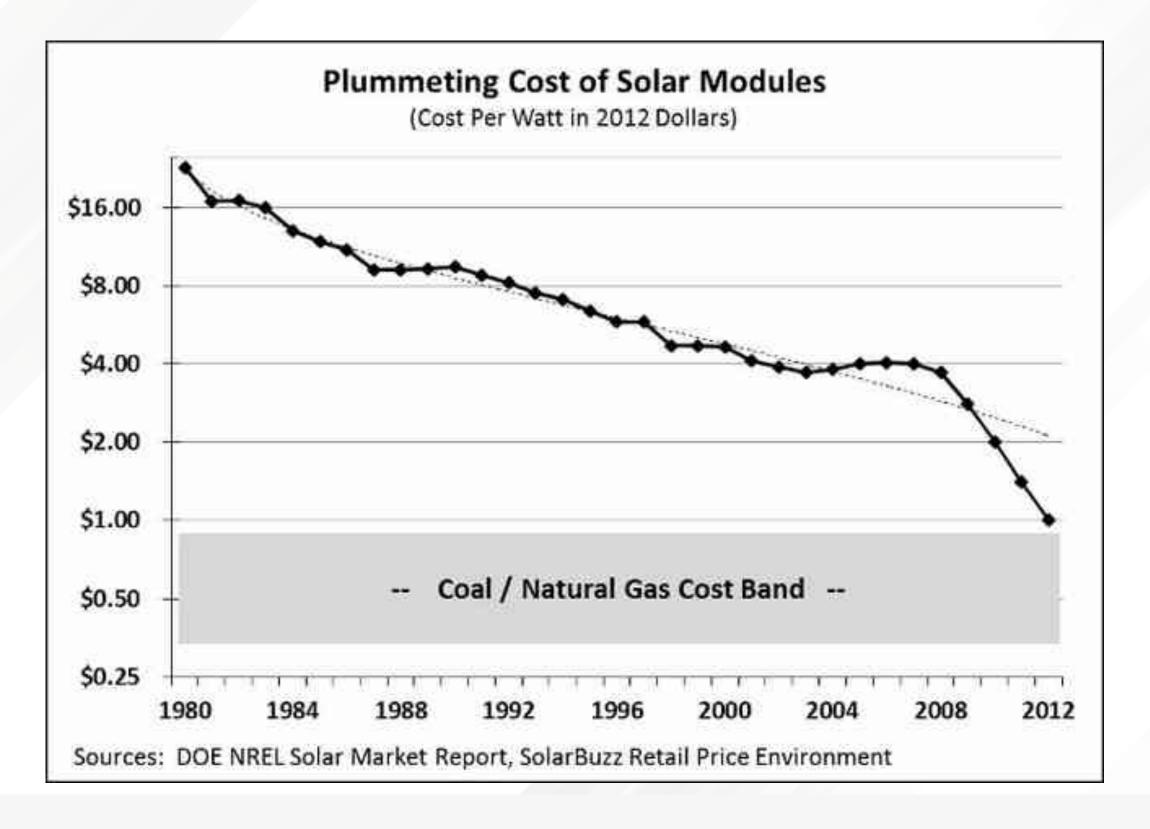
@Wiorldwatch Institute

Gigawatts

Sources: IAEA; Ochs and Ray: BP; Flavin

2016 == U.S. Grid

Cost of Solar Modules





Solar Impact



Mike Hudema @MikeHudema · Apr 14 POW! A Quarter of all the farms in California are now #solar powered: buff.ly/2pevOGf #Climate #cdnpoli #abpoli #NoKXL #DumpKM



MINISTRY OF INNOVATION -

To save money, Kentucky Coal Museum turns to solar panels

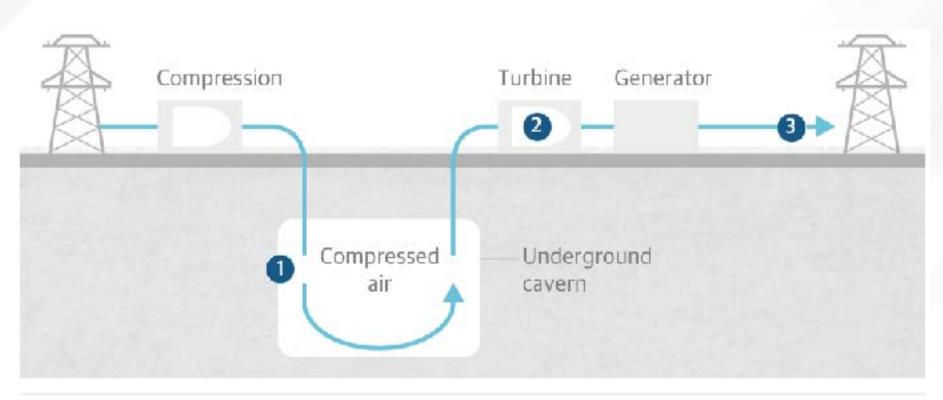
Museum's 80 solar panels on the roof are expected to save approximately \$8,000 per year.

MEGAN GEUSS - 4/10/2017, 9:35 PM

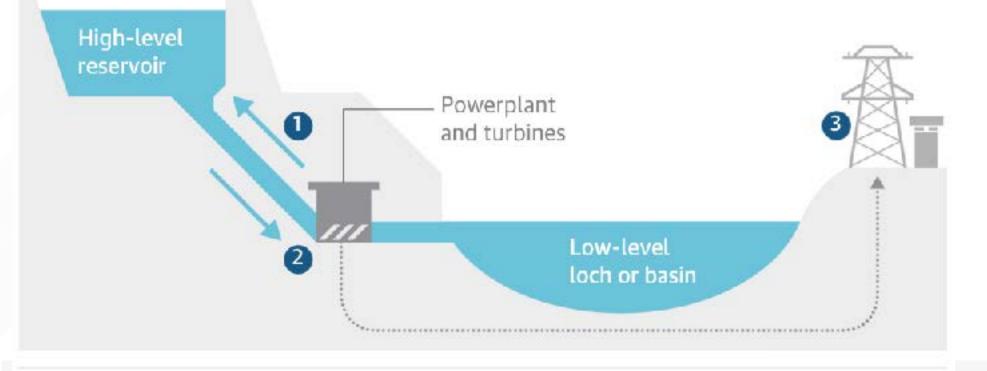




Breakthroughs in Storage



Guardian graphic



Guardian graphic

Source: Renewable Energy Association



Source: Renewable Energy Association

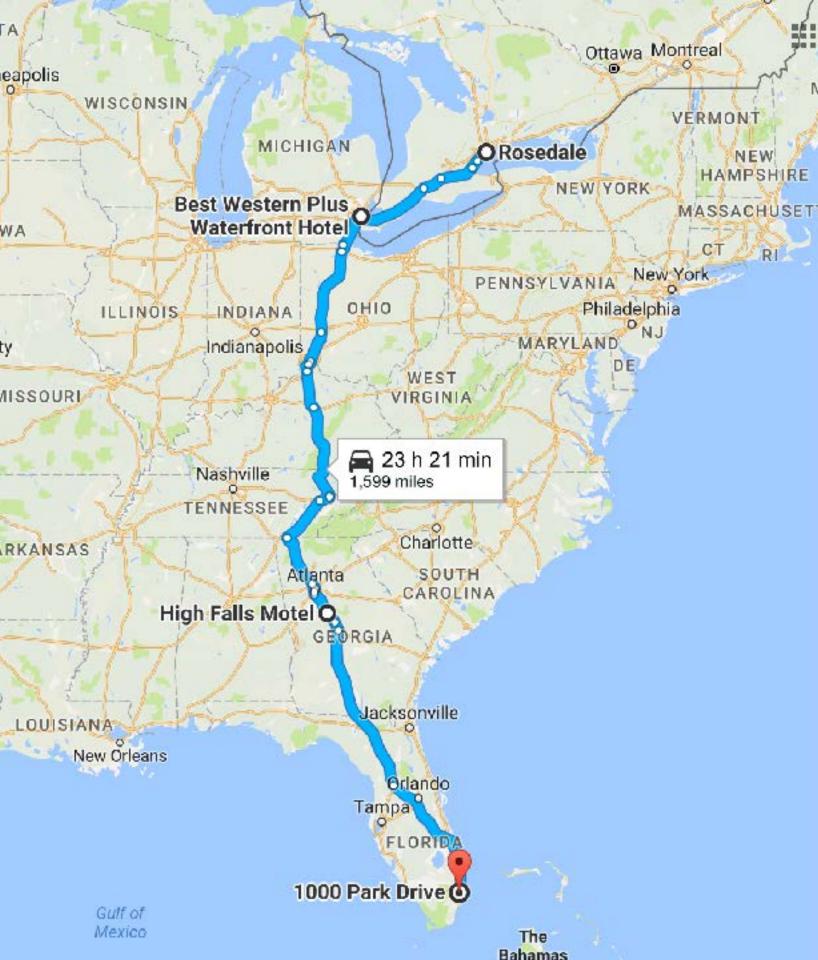
Home or Utility











Road Trip

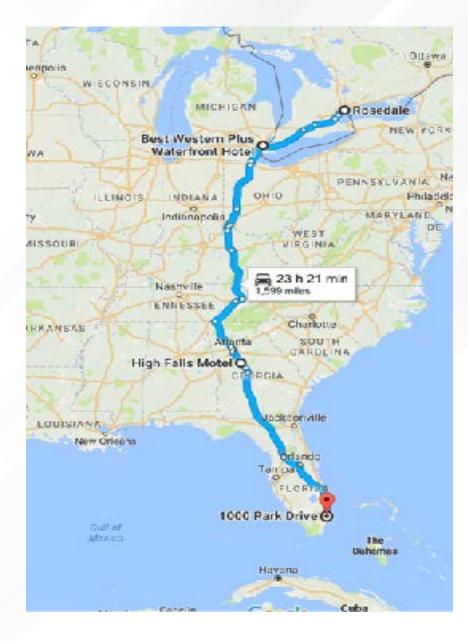
34 hrs, 11 stops, ~35% self driving





Solar + sensors + robotics + mobile + batteries

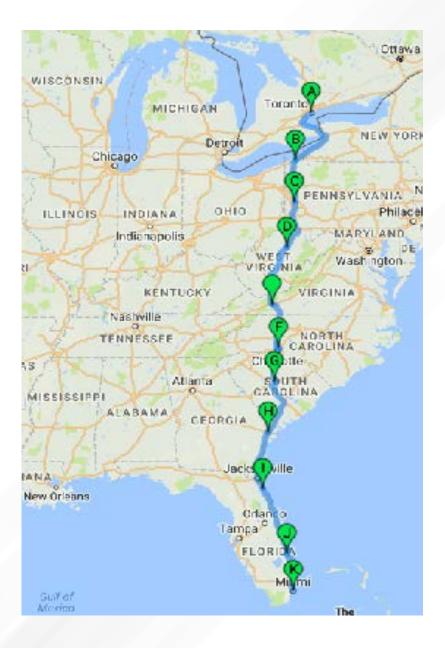
Tesla Trips



	Jul 2016	Dec 2017
Total Time	36 hrs	29 hrs
Driving time	23 hrs	21 hrs
Num Stops	11	9
% Self Driving	35%	80%

Jul 2016



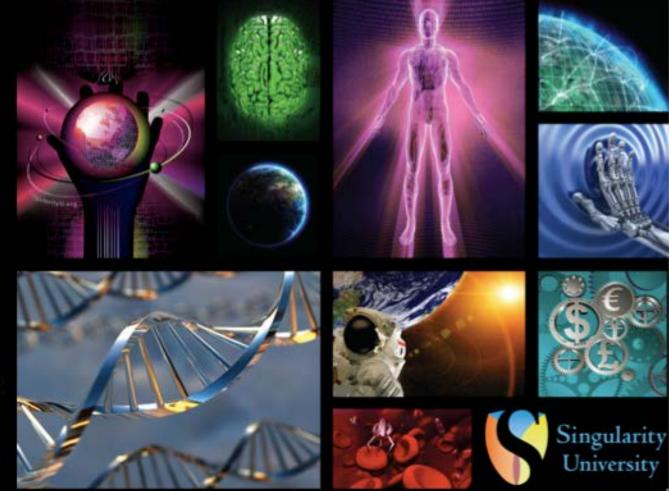


Dec 2017

Information Layers



Al Robotics Biotech Nanotech Medicine Neuroscience Energy Computing



New Breakthroughs

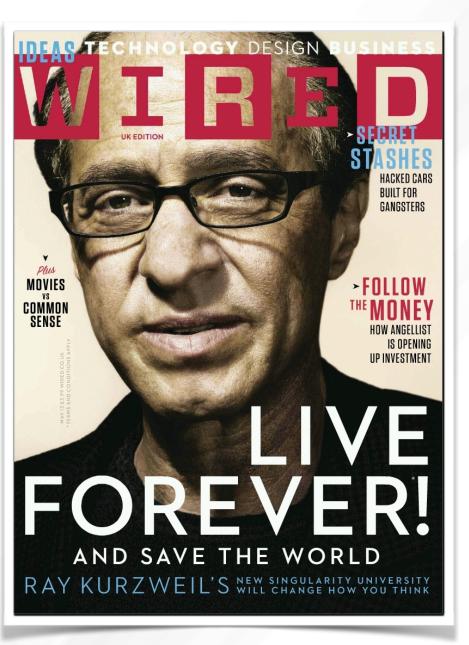
Digitize Disrupt Demonetize Democratize

Recent News



The New Hork Times Magazine WHO IS Watson? THE MAY THEM ANTONICAL COLORS TO THE WEST LINES. BUT DOES THAT WERE COMPANY ON GAS COMMENT RECENT OF CLUB I AND PAGE \$6,500 \$13,400 erica WATSON OBERT Party and benefits from a second statement and a statement of the latter





INSTITUTIONAL DISRUPTION

Marriage
Democracy
Capitalism
Education
Religions



WHO

WorldBank

Monetary System

🕞 openexo

Stock Markets

Criminal Justice Healthcare

UN

Voting Systems

Amygdala & Technology

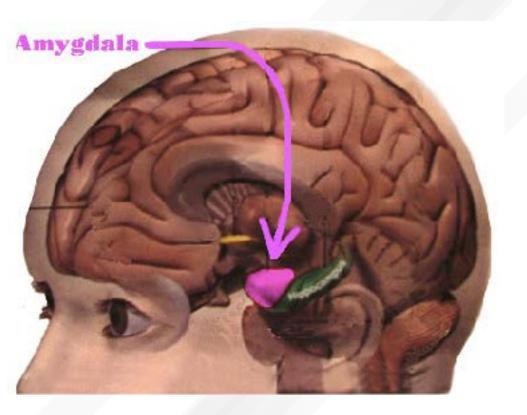
1. Anything that is in the world when you're born is normal and ordinary and is just a natural part of the way the world works.

2. Anything that's invented between when you're fifteen and thirty-five is new and exciting and revolutionary and you can probably get a career in it.

3. Anything invented after you're thirty-five is against the natural order of things.

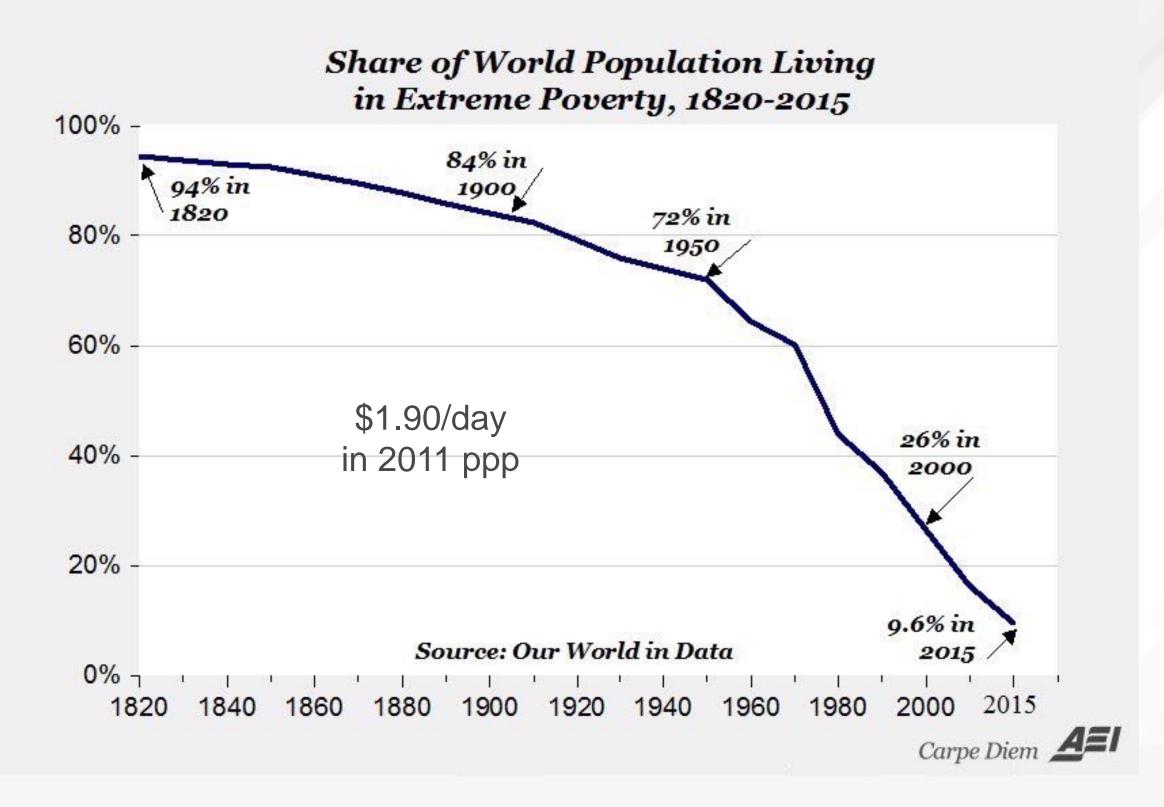
Douglas Adams





Population Living in Extreme Poverty

1820: 94%2017: 9.4%

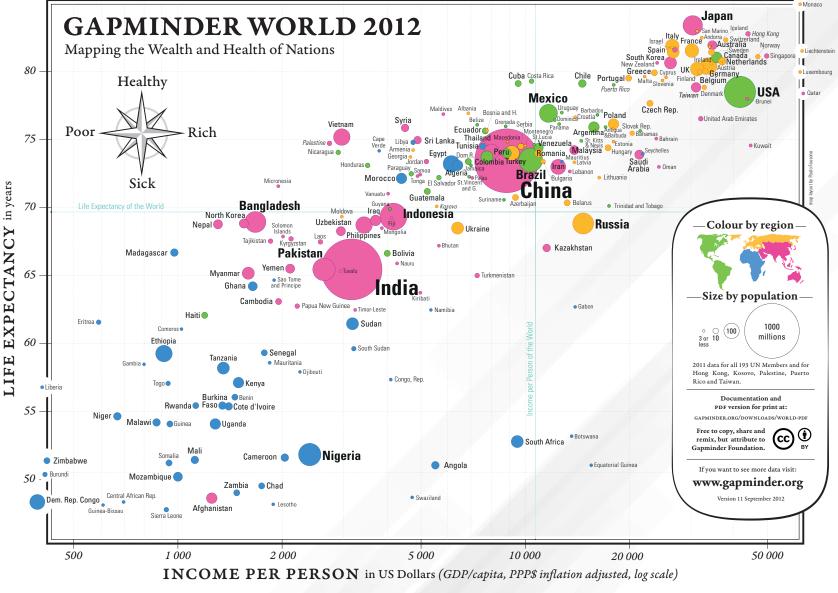




Abundance through Technology

Extraordinary Century of Progress

Human life-expectancy more than doubled Infant mortality reduced by 90% Maternal mortality reduced by 99% Cost of electricity reduced by 20-fold Cost of transportation reduced 100-fold **Telecom, information** reduced by 1000-fold



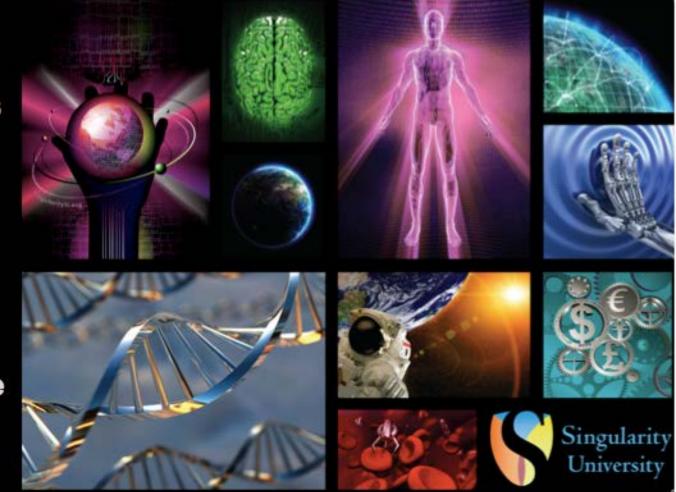


HANS ROSLING | Swedish Statistician | Gapminder

Information Layers



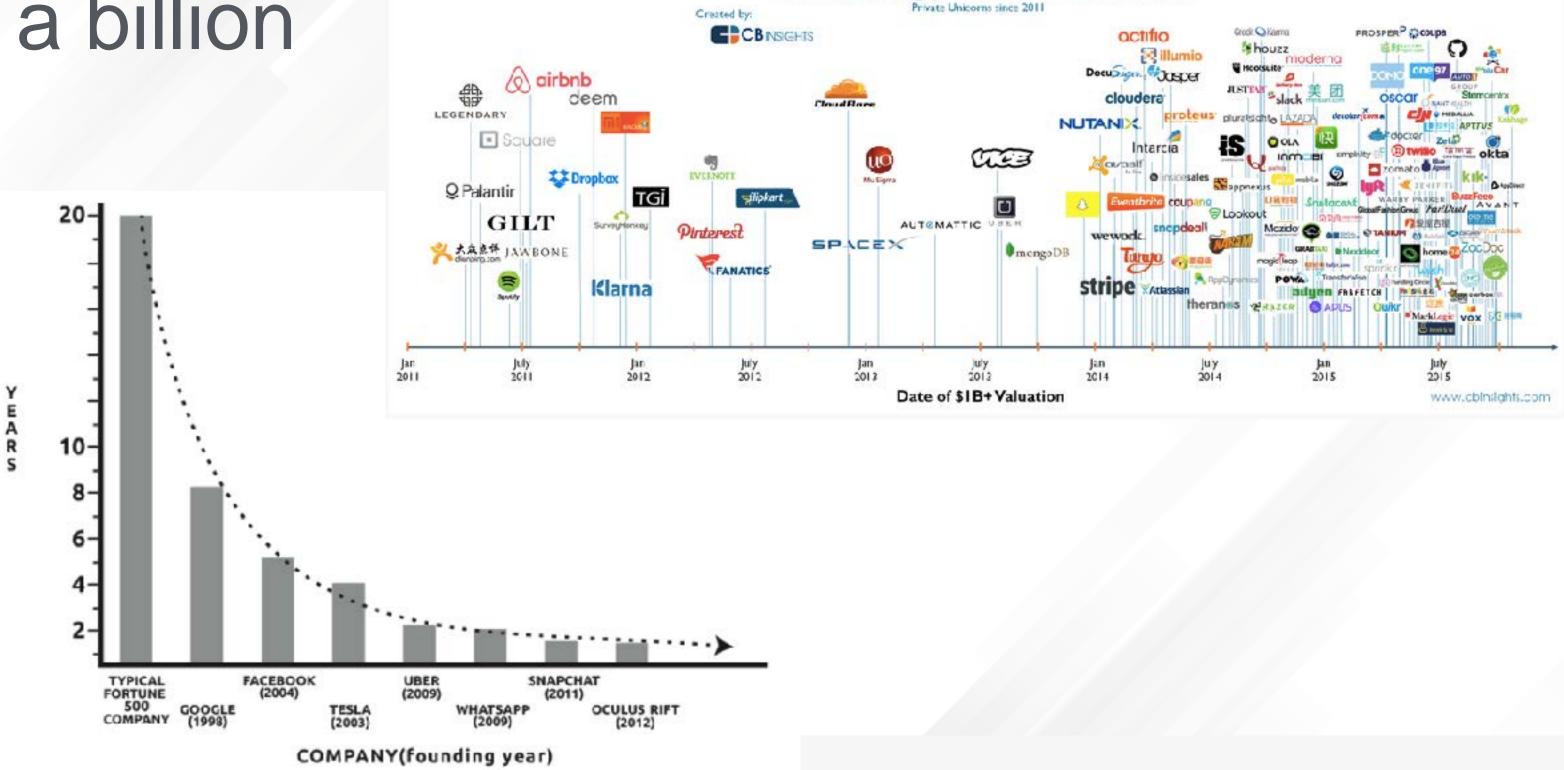
Al Robotics Biotech Nanotech Medicine Neuroscience Energy Computing



New Breakthroughs

Digitize Disrupt **Demonetize** Democratize

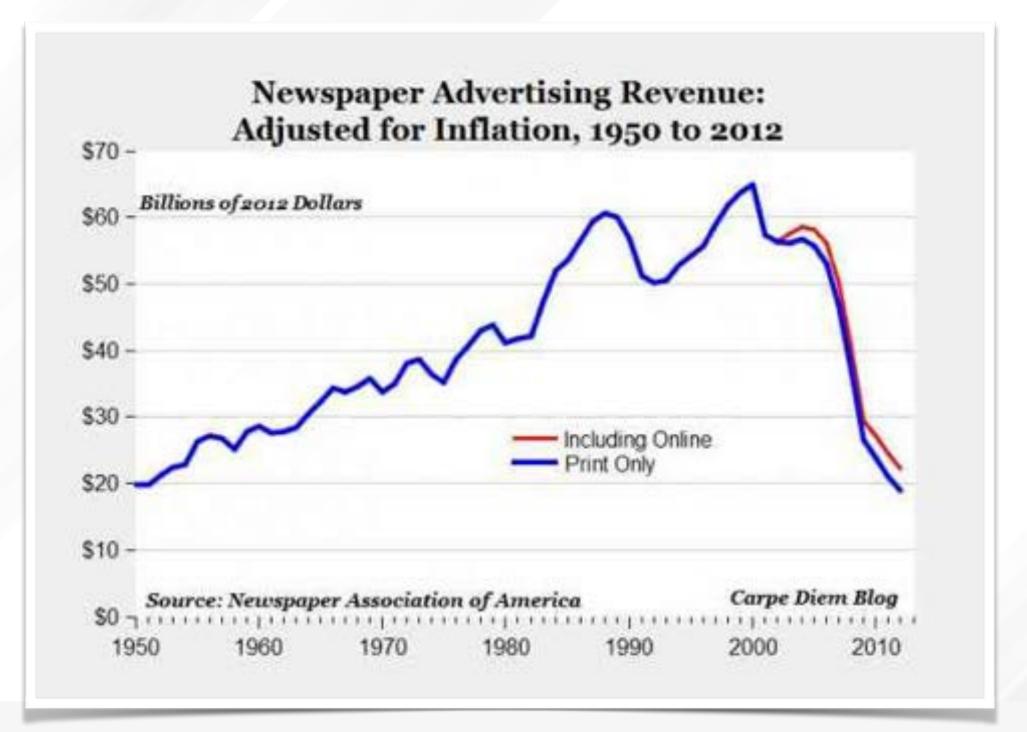
Market cap to a billion



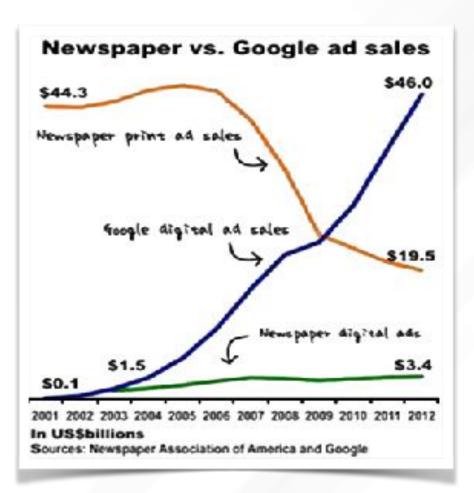
openexo

The Increasingly Crowded Unicorn Club

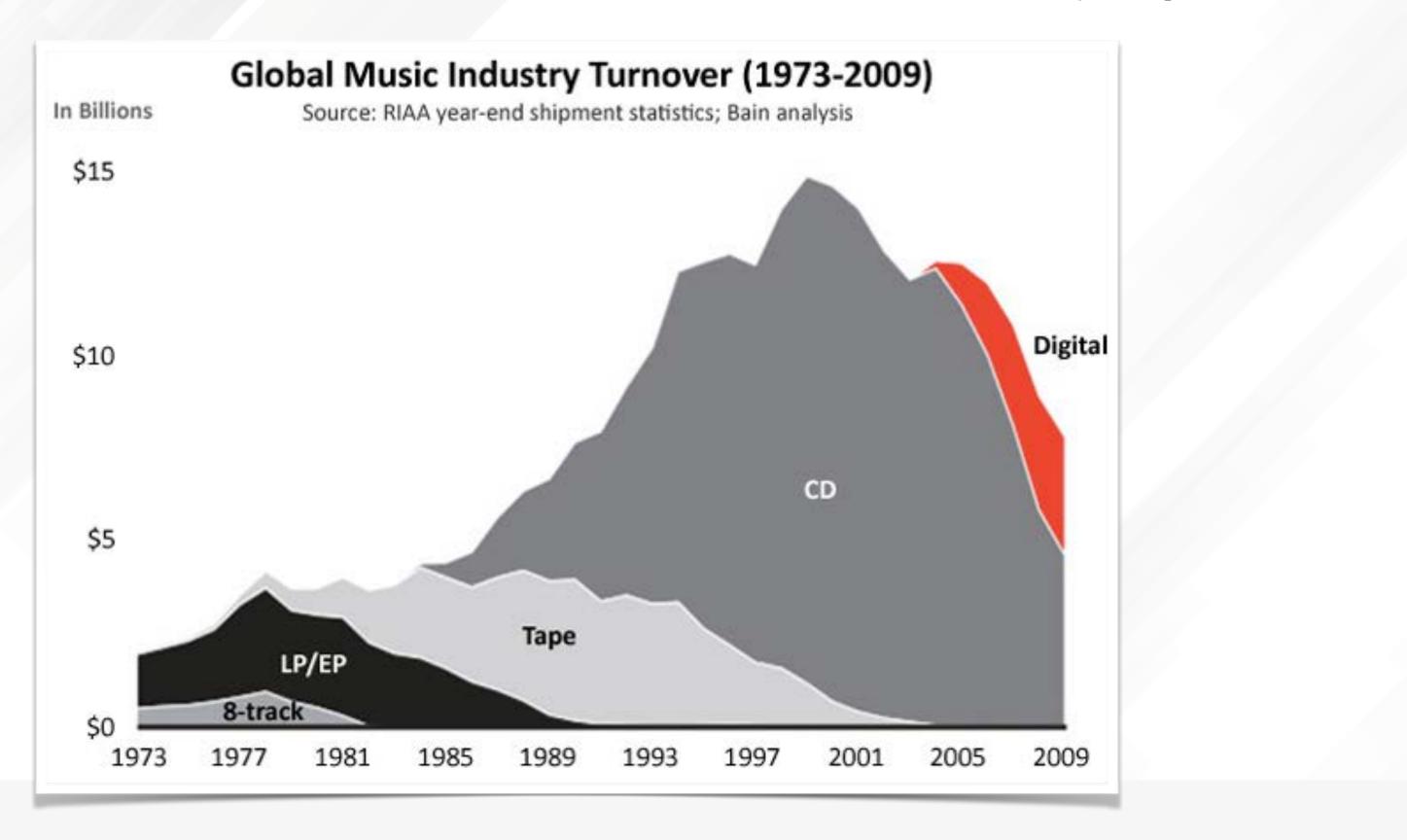
Newspapers







Music





Deception of linear vs exponential

You are here

Disappointment



Chaos/ Amazement

Cost of Lidar

2012: \$75,000 2017: \$50 2020: \$10







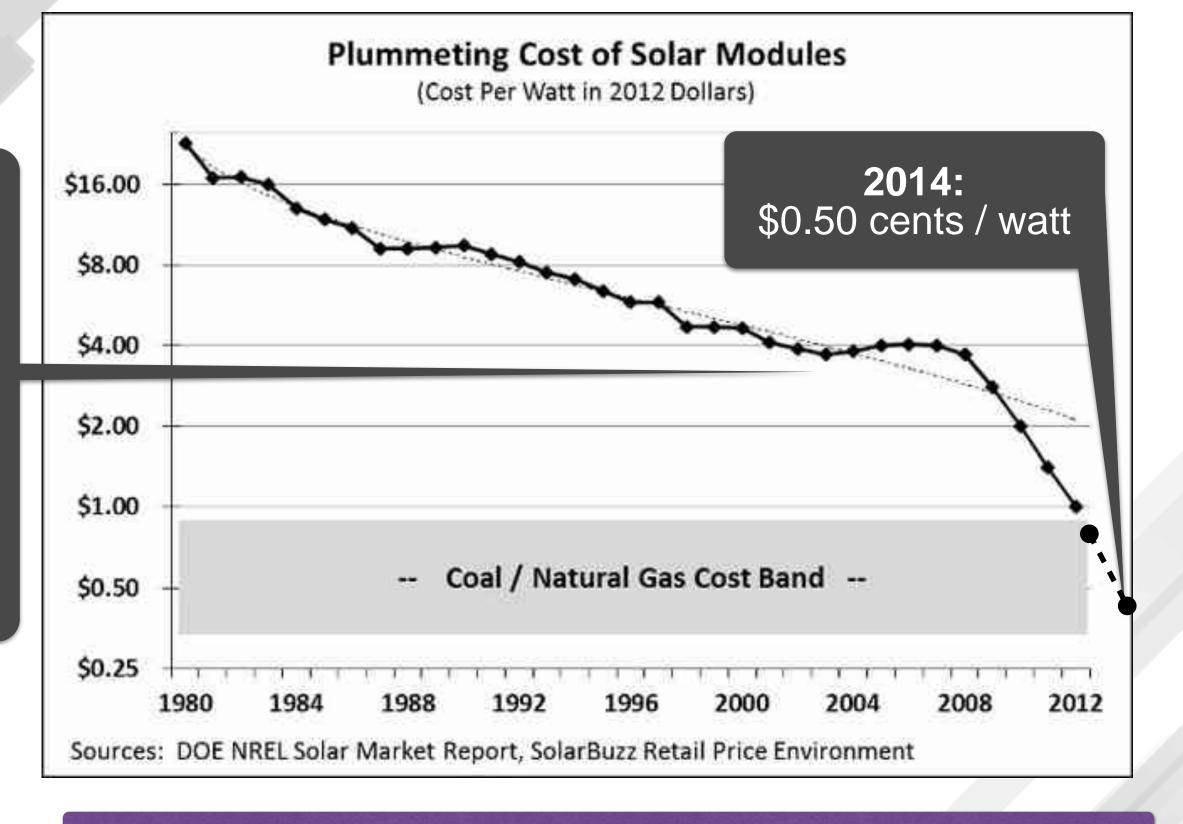
Vinod Khosla // The rise of mobile phones





Top Solar Expert:

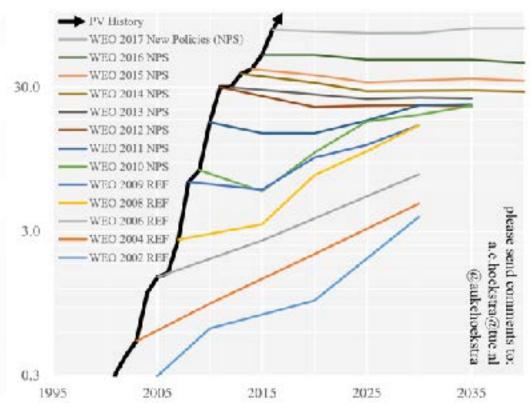
cost of all components (polycrystalline silicon ingots, protective glass & silver in wiring) will never drop below \$1/watt.

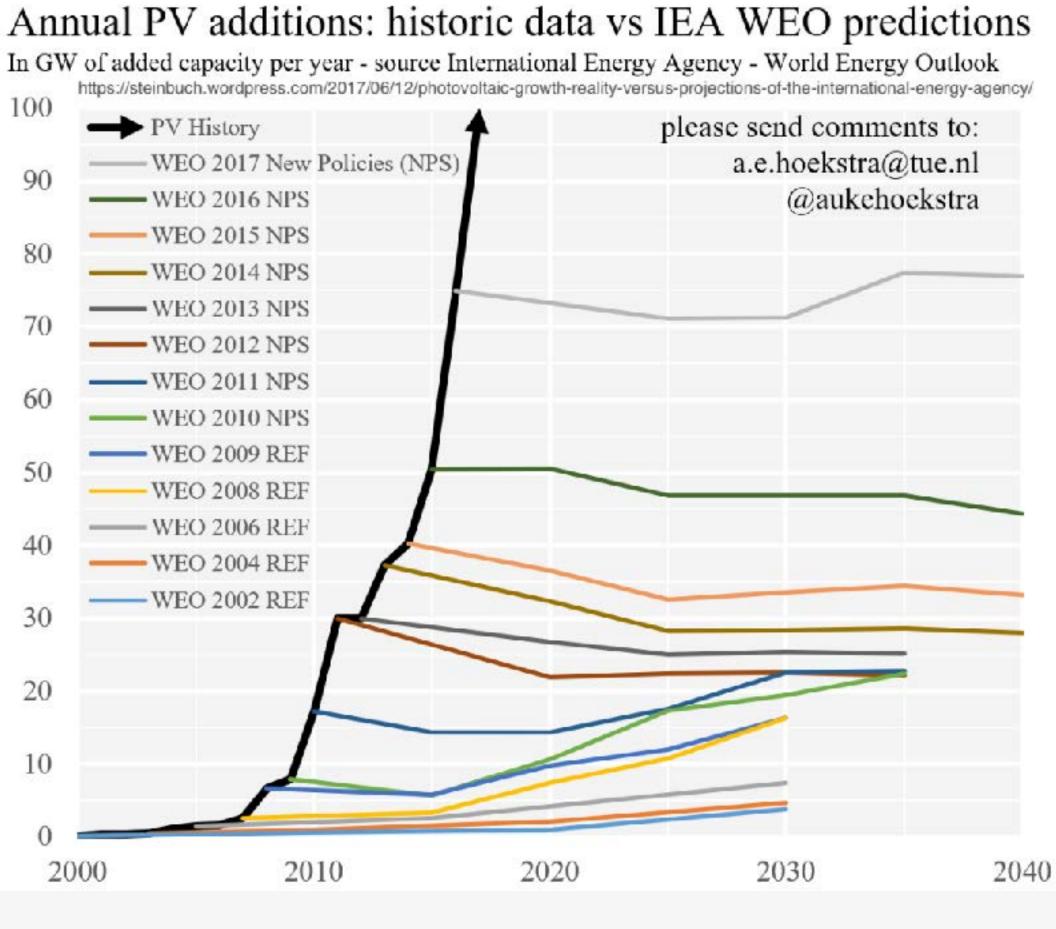


"Getting below \$1 has exceeded my expectations"

OECD - WEO







The shaving battle

P&G









2005: \$57bn (70%)

2016: \$1bn (15%)

Car Wash - Buenos Aires

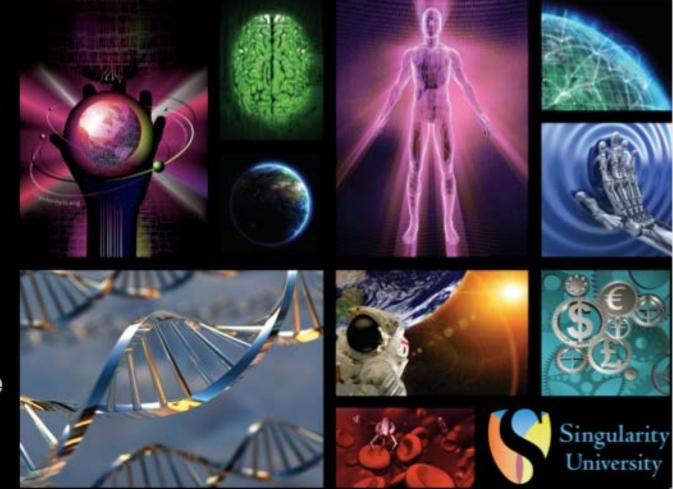




Information Layers

Accelerating Technologies

Al Robotics Biotech Nanotech Medicine Neuroscience Energy Computing



New Breakthroughs

Digitize Disrupt Demonetize Democratize

Open Everything

Domain is Digitized

Costs Drop to Zero Open Source Communities Form Technologies Intersect



Existing Businesses Disrupted

New Products & Services



Vietnamese farmers make solar powered boat





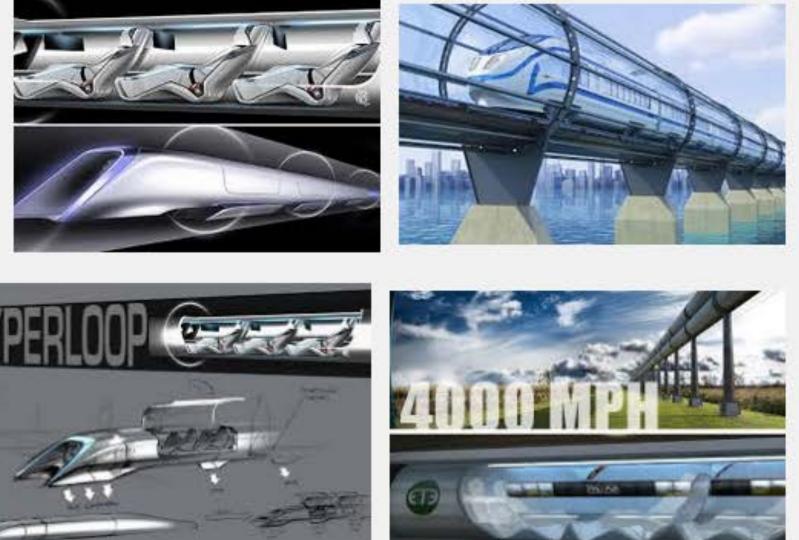
Hyperloop



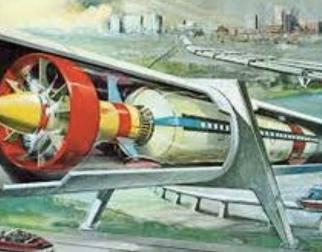
Concept

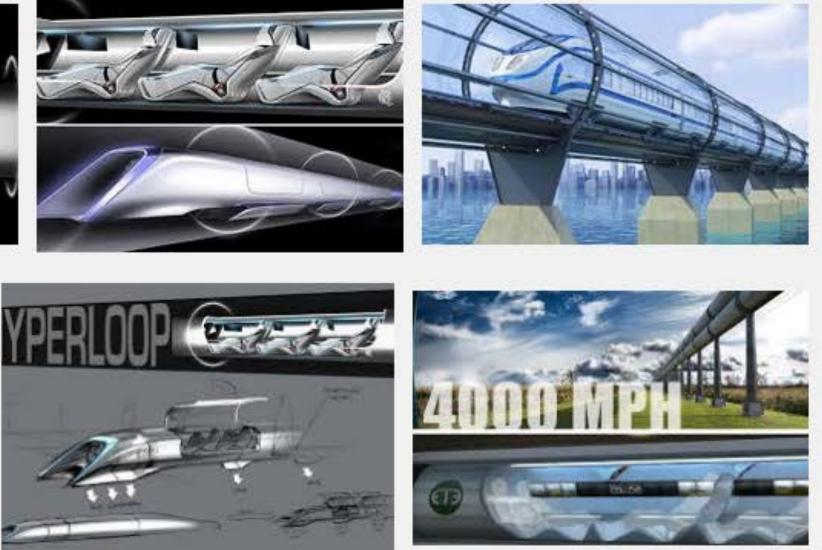
\$33 WEAH, (\$00 Billion \$30.94Fter 1100 aller1 ngrate, total obsprends) Disease, without the out-teen in control to part from the program above. Circle 2 kit county angeleter algorithed woman annumber of Arrows, arrows taking a party Per an Industria , Al carrier Subjects managing any and a providence of the second secon -Dies with Physics and the second grine give and address of some of















Мар

Bitcoin / Blockchain

Network

Bitcoin Network

Economy

Total BTC Market Cap based on latest prices

Transactions last 24h

Transactions avg. per hour Bitcoins sent last 24h Bitcoins sent avg. per hour

Blocks

Count	
Blocks last 24h	
Blocks avg. per hour Difficulty	
Next Difficulty in 1555 blocks	
Network Hashrato Torahashs/s	
Network Hashrate PetaFLOPS	

12,569,550 BTC 6,511,026,900 USD or 5,027,945,696 EUR or 20,526,075,150 PLN or 4,173,090,600 GBP 70,980

2957.50

292,781

5,006,860,689

37558.56

476993.66

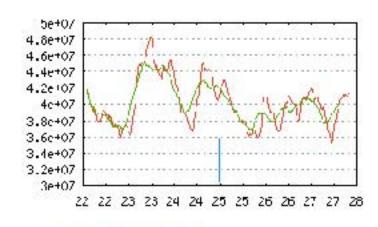
163

6.79

780,489.04 BTC

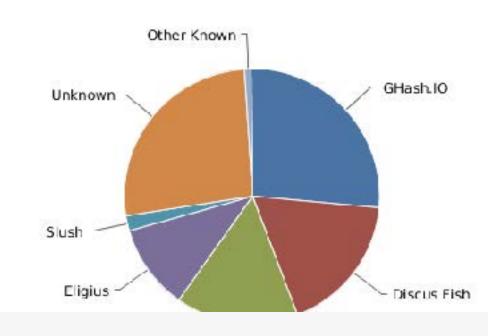
32,520.38 BTC

Network Hashrate

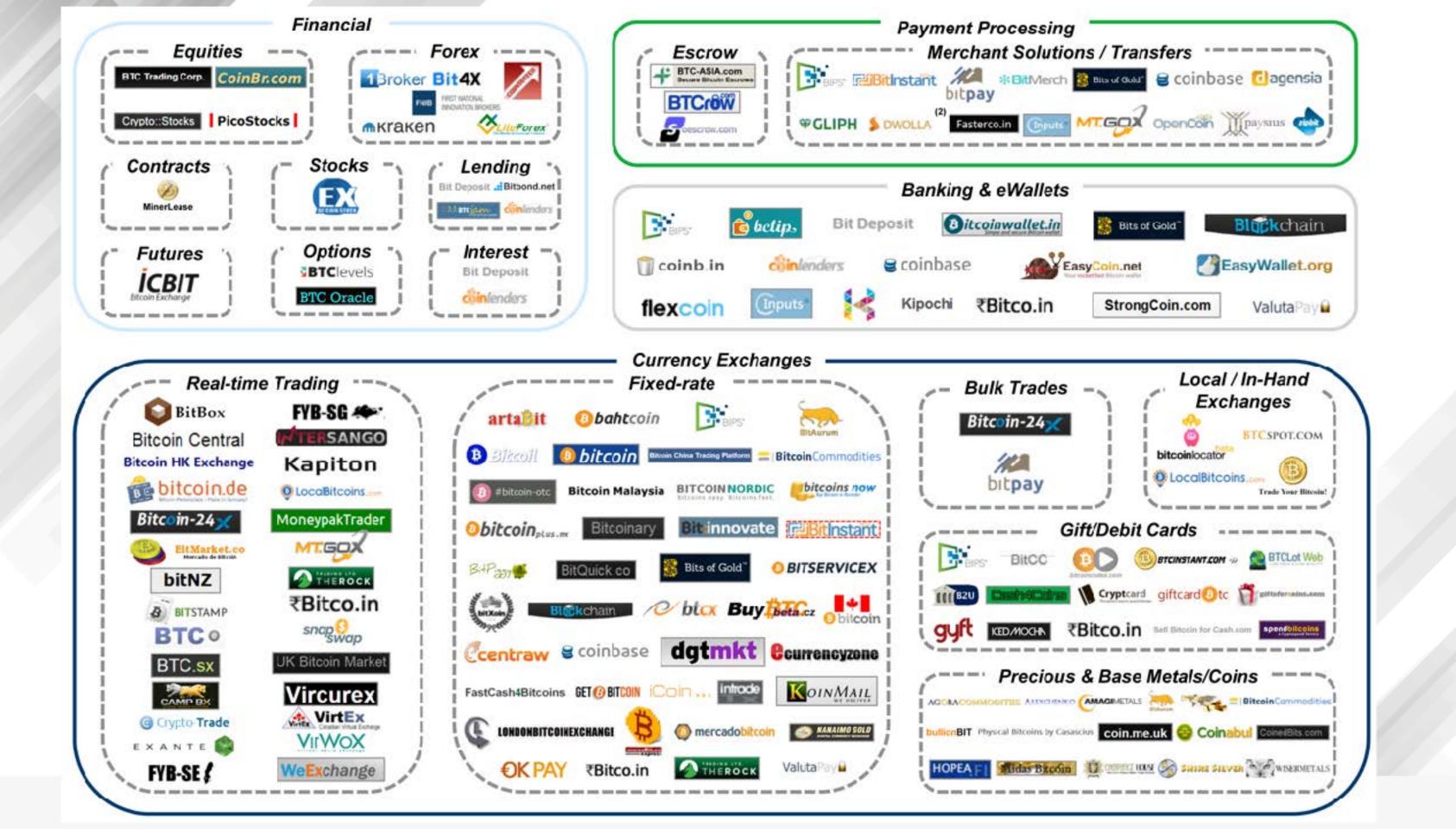


Source: http://bitcoin.sipa.be/

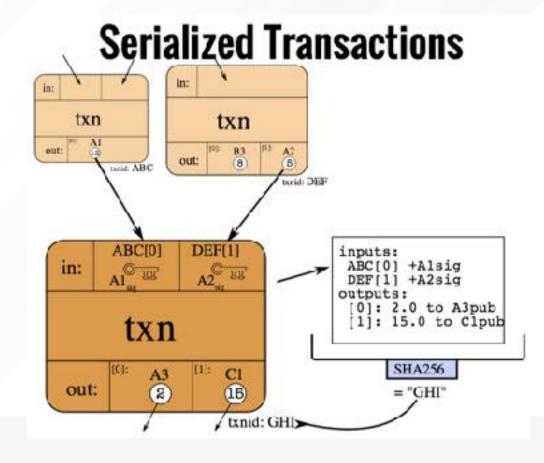
Hashrate Distribution

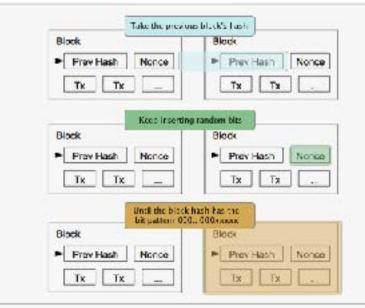


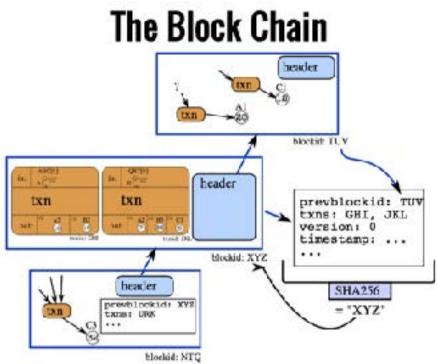




Block Chain









and now we can do it in 10 minutes"



http://bitly.com/bitcoinsalim2

"It took three days to settle and clear [trades] Bob Greifeld, CEO - Nasdaq

Block Chain - applications

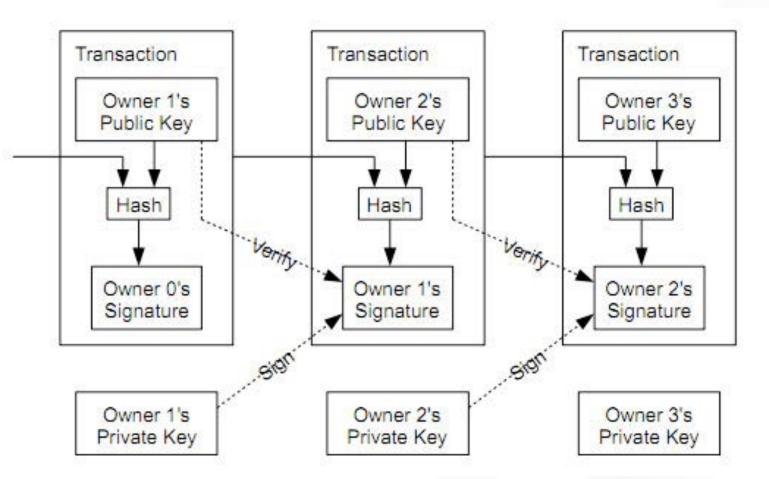
International payments

Contracts

Transaction logs

Voting systems

Registries



Multi-signatory contracts (joint savings, forex, trust funds) DACs (Distributed Autonomous Corporations - Ethereum)





How many people are online?

2010 **1.2** billion

2015 **2.8** billion





2020 >6 billion

Google Loon





SkyFi

60 nano satellites

1 gb







What's Next?

David Rose - Gust

"Any company designed for success in the 20th century is doomed to failure in the 21st."



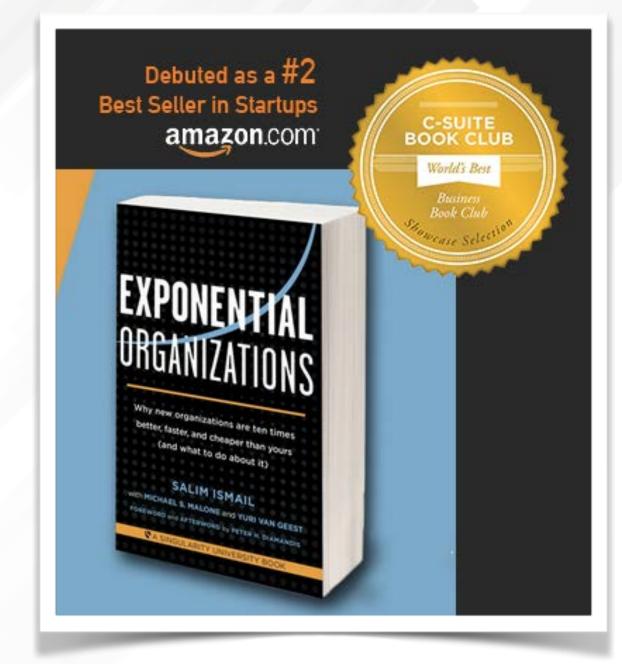
Foreword by Reid Hoffman Angel Investor and Founder of Linkedn

ANGEL

gust

GUIDE TO Making Money & Having Fun Investing in Startups

David S. Rose CEO of Gust and Founder of New York Angels



Frost & Sullivan 2014 GIL Book of the Year www.exponentialorgs.com



Best Business Books november 17 2015

upert Murdoch Says Tribune ublishing, LA Times About to be old 7.07 PM EST







5 Best Business Books

by Verne Hamish

@theGrowthGuy

NOVEMBER 17, 2015, 9:00 AM EST

EXOS.. 10x better performance



Airbnb Hotels	90x mor
GitHub Software	109x mo employe
Local Motors Automotive	1000x ch model, 5 to produ
Quirky Consumer Goods	10x faste days vs 3
Google Ventures Investments	2.5x mor stage sta design p
Valve Gaming	30x mor
Tesla Automotive	30x mor
Tangerine (formerly ING Direct Canada) Banking	7x more 4x more



re listings per employee

ore repositories per e

heaper to produce new car 5-22x faster process for a car uce (depending on vehicle)

er product development (29 300 days)

re investments in early artups, 10x faster through process

re market cap per employee

re market cap per employee

customers per employee, deposits per customer

bitly.com/exotop100 - Secrets of Unicorns

Google









NETFLIX

TESLA

2 EXO Score

The business world has learned over the last two decades how to scale technology – now it's time to sca new breed of Exponential Organizations (or ExOs) are delivering 10x or better performance benchmark peers. We present below the 100 most scalable organizations in the world, based on the diagnostic survey book, "Exponential Organizations".

1. GitHub





GitHub

0 0 0

Top 100 ExOs

ted

- // Started off as 'just' a conference
 // Several thousand passionate attendees
 // Exposed TED Talks on the web

 over a billion views

 // Created TEDx events

 over 10,000 in five years
- // Scaling the community





Local Motors - Strati



	CarCo	Local N
Cost of Design	\$3 billion	\$3 mi
Number of Parts	25,000	50
Assembly Time	1000 man hrs	1 ma
Area	1 million sq feet	1500 se

LOCAL MOTORS



Motors

hillion

0

an hr

sq feet

the ExO formula

ExO = MTP + SCALE + IDEAS





the mtp

MTP Massive, Transformative, Purpose



MTP - Massive Transformative Purpose

"Radical breakthroughs for the benefits of humanity" "Positively impact one billion people" "Organize the world's information" "Make invention accessible" "Ideas worth spreading" "Open Happiness"

Uniquely yours **Highly Aspirational** Neither narrow nor technology specific Aimed at Heart & Mind Declared with sincerity & confidence



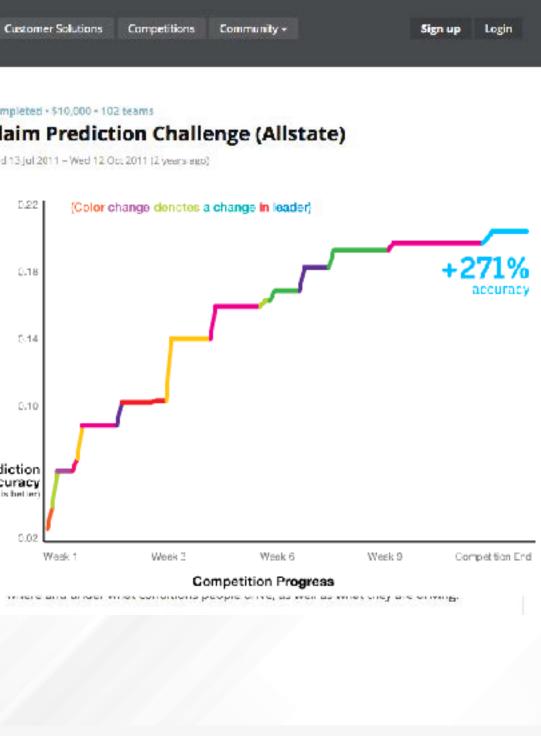
S.C.A.L.E External Attributes of an ExO

- S Staff on Demand
- C Community & Crowd
- A Algorithms
- L Leveraged Assets
- E Engagement

	1	Completed • 5
1 33 / / //	1	Wed 13 Jul 2011
Dashboard		0.22
Hame	6	
Desta	=	0.18
Information	θ	
Description		
Evaluation		0.14
Pales Prices		0.14
Forum		
Leaderboard	=	0.10
Public		
Private		
		Prediction
Leaderboard		Accuracy (higher is better)
1. Mail C		· · · /
2. Owen		0.02
3. PlanerThaner		We
4. Uld Dogs With New Troks		
5. dmvse/hgml 6. Winter is Coming		
		111111111111111111111111111111111111111

kaggle





IDEAS Internal Attributes of an ExO

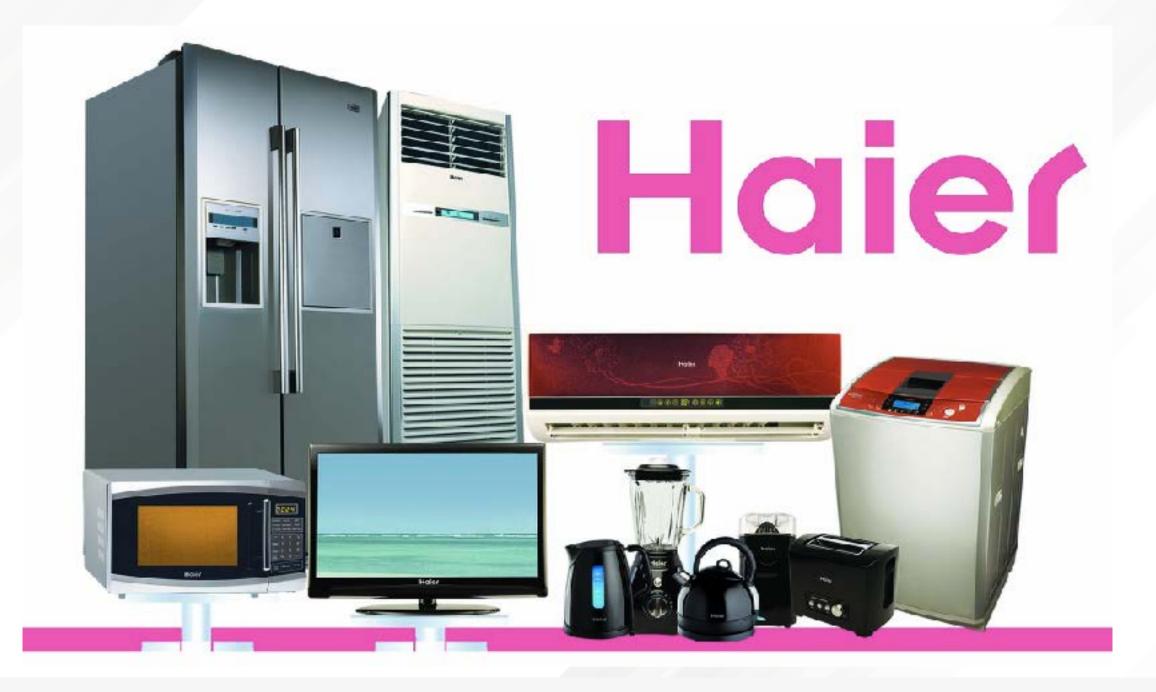
- I Interface Processes
- **D** Dashboards
- **E** Experimentation
- A Autonomy
- **S** Social Technologies



VALVE



Autonomy - 3x

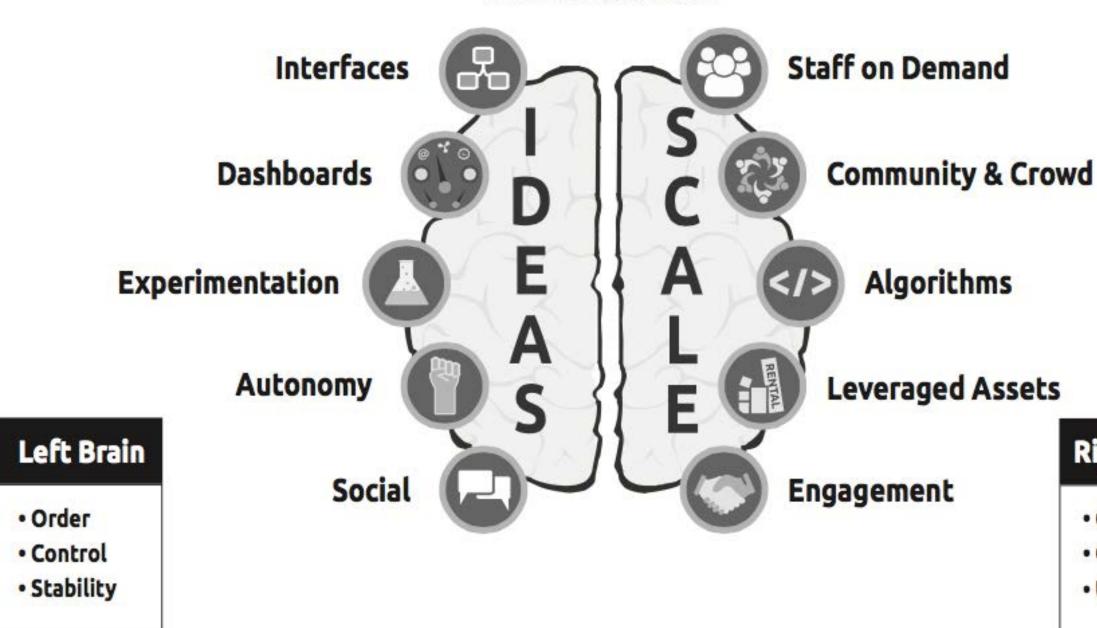




ANANDA Development



4 out of 10 = ExO



ΜΤΡ

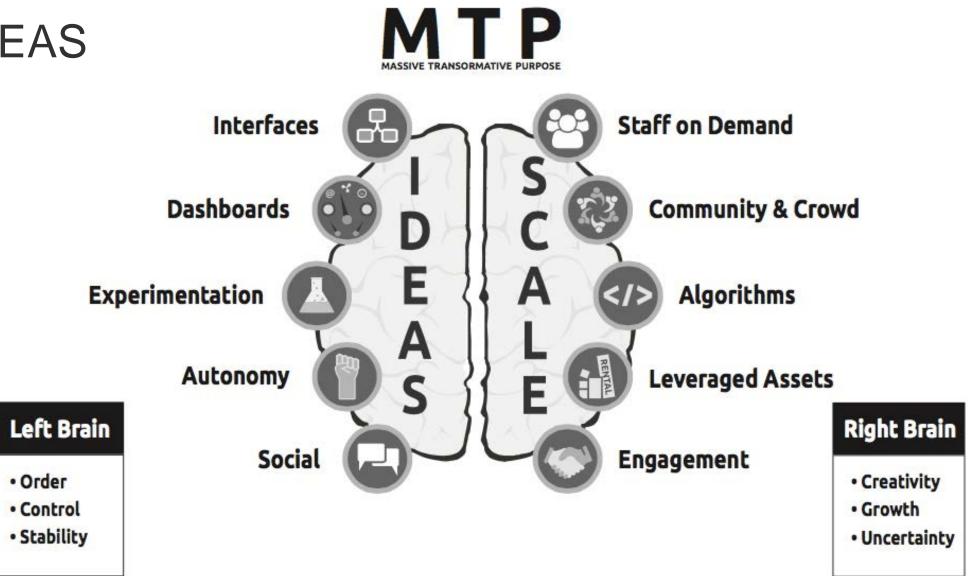


Right Brain

- Creativity
- Growth
- Uncertainty

GitHub - 10 out of 10

- Highest rated ExO in Top 100 (76/84)
- Uses all of MTP + SCALE/IDEAS
- Founded 2008
- Sold \$7.5bn





Ranking the Fortune 100 by their ExO Score

f100.exponentialorgs.com

Yuri van Geest Michiel Schuurman ExO Experts





HULL International Business School



co-build amazing companies

Exponential Quotient - Sample

17. To what extent do you tolerate failure and encourage risk-taking?

- Failure is not an option (NASA) and is a Career Limiting Move (CLM)
- Failure and Risk are encouraged, but in name only and not tracked or quantified
- Failure and risk-taking are allowed and measured, but sandboxed in Skunkworks or very defined boundaries (e.g. Lockheed skunkworks)
- Failure and risk-taking are expected, pervasive, measured and even celebrated across the organization (e.g. Amazon, Google, P&G Heroic Failure Award)



sk-taking? ting Move (CLM) nd not tracked or

out sandboxed in eed skunkworks) sured and even ogle, P&G Heroic Failure

Fortune 100 by ExQ

F100 Company	ExQ
Google	72.9
Amazon	66.2
Apple	62.6
International Business Machines (IBM)	61.0
Verizon Communications	58.8
General Electric	56.6
Microsoft	55.9
Cisco Systems, Inc.	55.8
The Walt Disney Company	54.8
Oracle Corporation	54.0
The Coca-Cola Company	49.5
DIRECTV	49.0
McKesson	49.0
United Parcel Service (UPS)	49.0
AT&T	48.8
Humana Inc.	48.8
State Farm Insurance Cos.	48.4
The Allstate Corporation	47.3
Lockheed Martin Corporation	47.2
Comcast	47.0
American Express Company	46.8
Twenty-First Century Fox, Inc.	46.6
PepsiCo	46.5
Walgreen Co.	46.5
Anthem Inc. (Wellpoint)	46.4
Johnson Controls, Inc.	46.0
Mondelez International, Inc.	45.6
Merck & Co., Inc.	45.0
United Continental Holdings, Inc.	45.0
Ford Motor	43.2
Lowe's Companies	43.0
UnitedHealth Group	43.0
Home Depot	43.0

f100.exponentialorgs.com

F100 Company	ExQ
Wal-Mart Stores	42.7
World Fuel Services Corporation	42.5
John Deere Company	42.4
Wells Fargo	42.4
General Motors	42.0
New York Life Insurance Company	42.0
Supervalu Inc.	42.0
The Goldman Sachs Group, Inc.	41.8
Archer Daniels Midland (ADM)	41.8
Prudential Financial, Inc.	41.4
Target	41.4
Sears Holdings Corporation	41.3
E.I. du Pont de Nemours and Company (DuPont)	41.3
CHS Inc.	41.0
FedEx Corporation	41.0
Kroger	41.0
United Technologies	41.0
Procter & Gamble	40.9
Cigna Corporation	40.7
Hewlett-Packard	40.7
TIAA-CREF	40.7
Boeing	40.3
CVS Caremark	40.0
Best Buy Co., Inc.	40.0
Intel Corporation	40.0
Liberty Mutual Holding Company Inc.	40.0
Pfizer	39.8
Citigroup	39.8
Johnson & Johnson	39.3
Honeywell International Inc.	39.3
Ingram Micro Inc.	39.3
Massachusetts Mutual Life Insurance Company	39.0
Delta Airlines, Inc.	39.0

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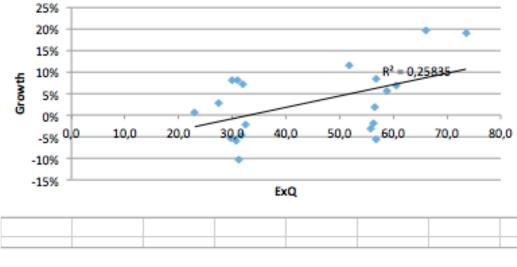
F100 Company	ExQ
Delta Airlines, Inc.	39.0
American International Group (AIG)	38.3
Express Scripts Holding	38.0
Tyson Foods, Inc.	37.5
AmerisourceBergen	37.0
Exxon Mobil	37.0
Nationwide Mutual Insurance Co.	37.0
Safeway Inc.	36.3
Freddie Mac	36.3
MetLife	36.0
Sysco Corporation	36.0
Caterpillar	34.5
Chevron	34.5
ConocoPhillips	34.5
General Dynamics Corporation	34.5
Cardinal Health	34.0
Dow Chemical	34.0
Fannie Mae	34.0
Intl FCStone Inc.	34.0
Aetna Inc.	33.5
Morgan Stanley	33.5
Berkshire Hathaway	33.2
J.P. Morgan Chase & Co.	33.0
Bank of America	32.5
Marathon Petroleum	32.3
Costco Wholesale	32.0
Philip Morris International Inc.	31.6
Hess Corporation	31.3
HCA Holdings, Inc.	31.0
Phillips 66	30.7
Tesoro Corporation	30.0
Valero Energy	29.8
Plains GP Holdings, L.P.	27.5
Energy Transfer Equity, L.P.	26.5
Enterprise Products Partners L.P.	23.0

Hult Business School

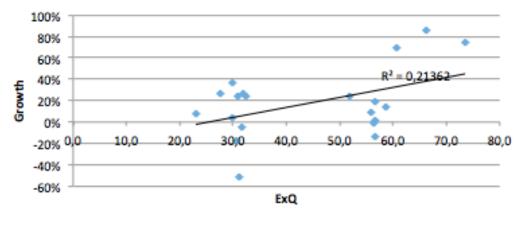
"ExQ Score correlates to stock performance"

HULT International Business School

	Mean	Median	Min	1	Max		Top quartil	Bottom qua	rtil
TOP 10	6%	6%	-	6%		20%	11%	-1%	
BOTTOM 1	0%	-1%	-1	0%		8%	6%	-5%	
3 yr Growtl	1								
	Mean	Median	Min	1	Max		Top quartil	Bottom qua	rtil
TOP 10	28%	17%	-1	3%		85%	58%	3%	
BOTTOM 1	8%	16%	-5	1%		36%	26%	-2%	









ExQ index vs 1yr Growth

ExQ index vs 1yr Growth

2 year trailing returns

Top 10

F100 Company	ExQ
Google	72.9
Amazon	66.2
Apple	62.6
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Verizon Communications	58.8
General Electric	56.6
Microsoft	55.9
Cisco Systems, Inc.	55.8
The Walt Disney Company	54.8
Oracle Corporation	54.0

+26.7%

Bottom 10

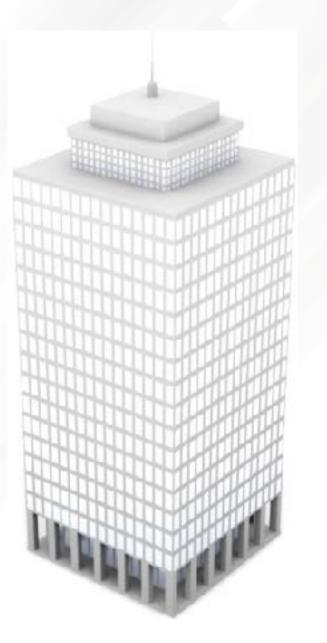
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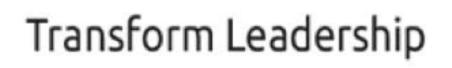
S&P +9.9%

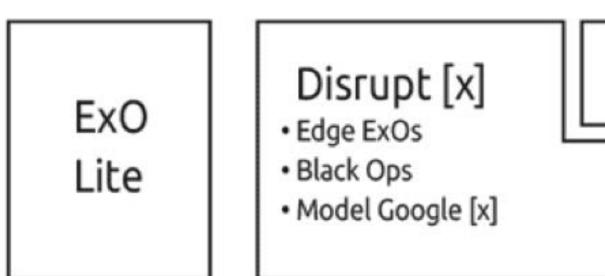


-1.7%

Advice to large companies









- Education
- Board Managment
- Diversity
- Leadership Skills

Partner, Invest, Acquire ExOs

- Partner with
 - Incubators
 - Accelerators
 - Hackerspaces

Advice to large companies

- Transform leadership (mindset, education)
- Inspire ExOs at edges (via chg mkrs)
- Invest/Partner with adjacent ExOs
- Leverage or expose data
- Hire a 'Black Ops' team
- Set up a Google[X] equivalent



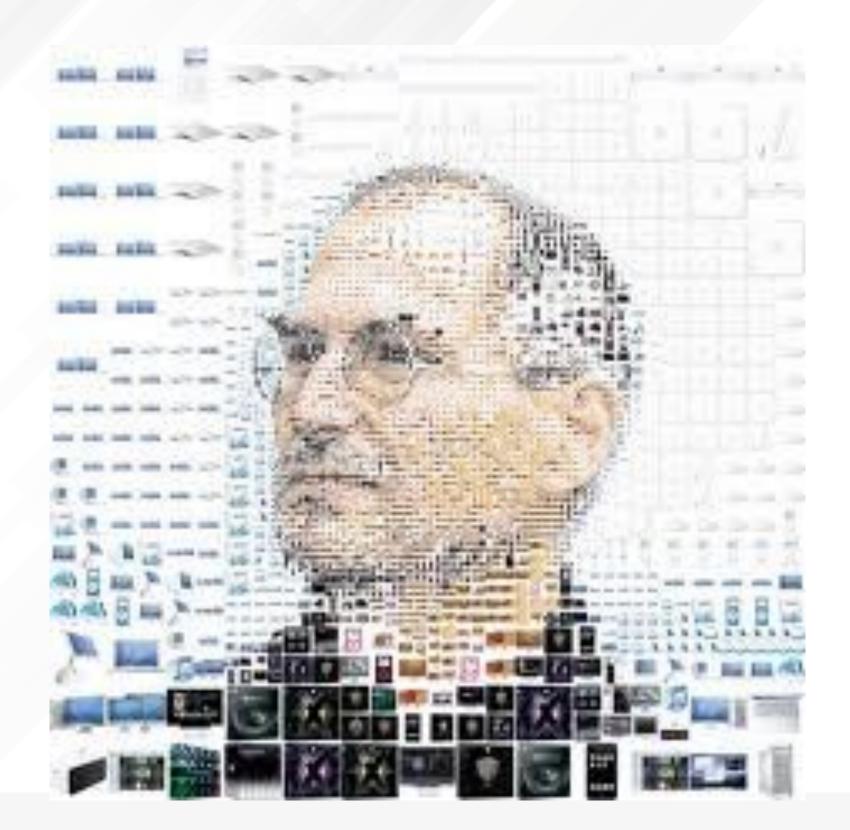
Education from outside sources

Board Management

Implement Diversity

Leadership Skills

Advice to large companies



- Transform leadership
- Inspire ExOs at edges (via chg mkrs)
- Invest/Partner with adjacent ExOs
- Leverage or expose data
- Hire a 'Black Ops' team
- Set up a Google[X] equivalent



Anecdotes..

Walmart > <

ING DIRECT

People in Progress



RWE





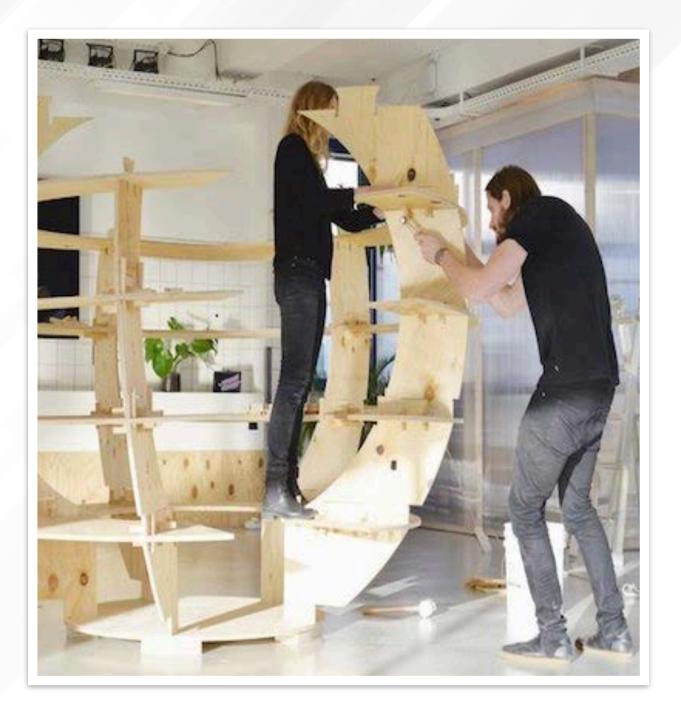




NESPRESSO



The GrowRoom









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NEW	′S	Ale de					
Home Video	World US&	Canada UK	Business	5 Tech	Science	Stories	Enter
Business	Market Data Gl	obal Trade	Companies	Entrepr	eneurship	Technolog	gy of Bus

Corona beer owner to pour \$4bn into weed

③ 16 August 2018



Q | POPULAR | LATEST | FEATURED

PERSONAL PIZZA

Nestlé is using DNA to create personalized diets in Japan

By Chase Purdy - September 1, 2018



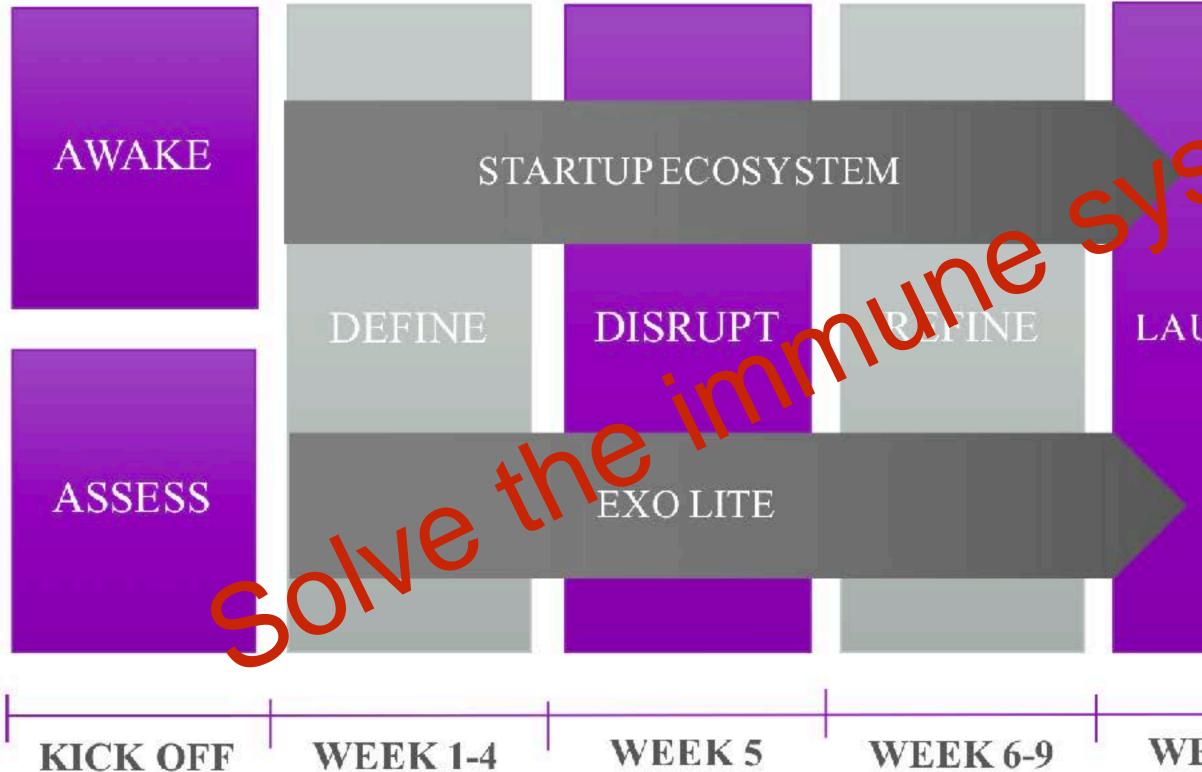




QUARTZ

DBSEBBIONS

ExO Sprint





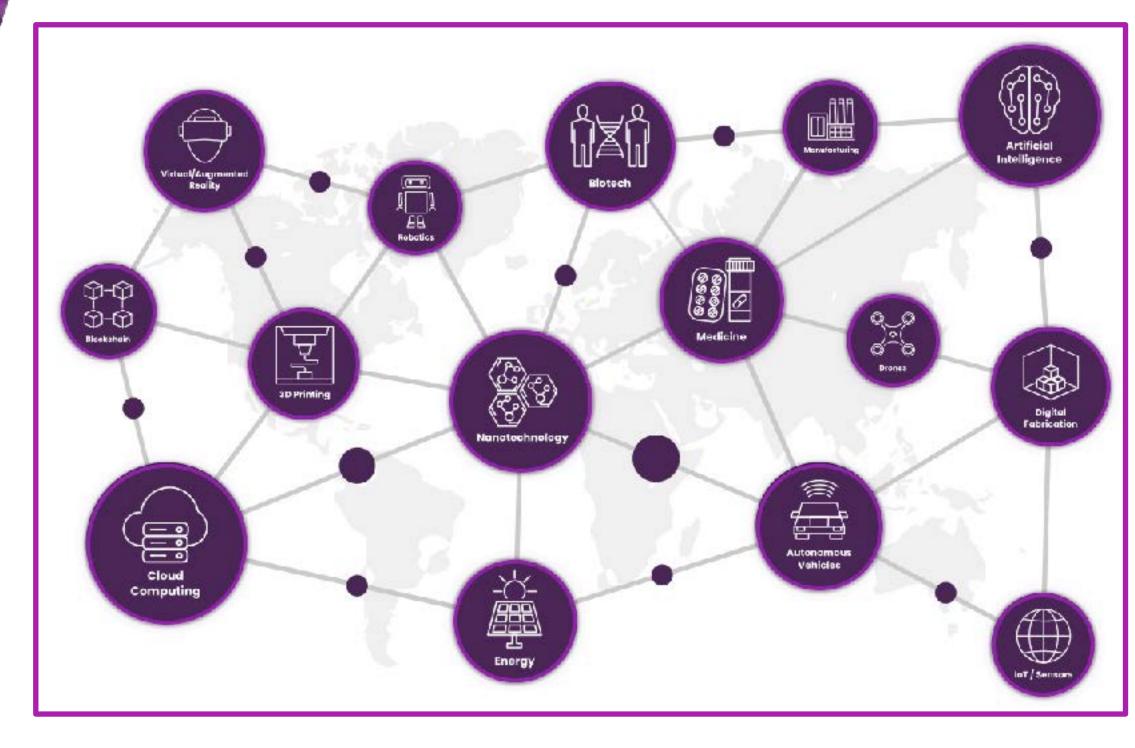
EXO ON THE EDGE INITIATIVES

LAUNCH

EXO INTERNAL INITIATIVES

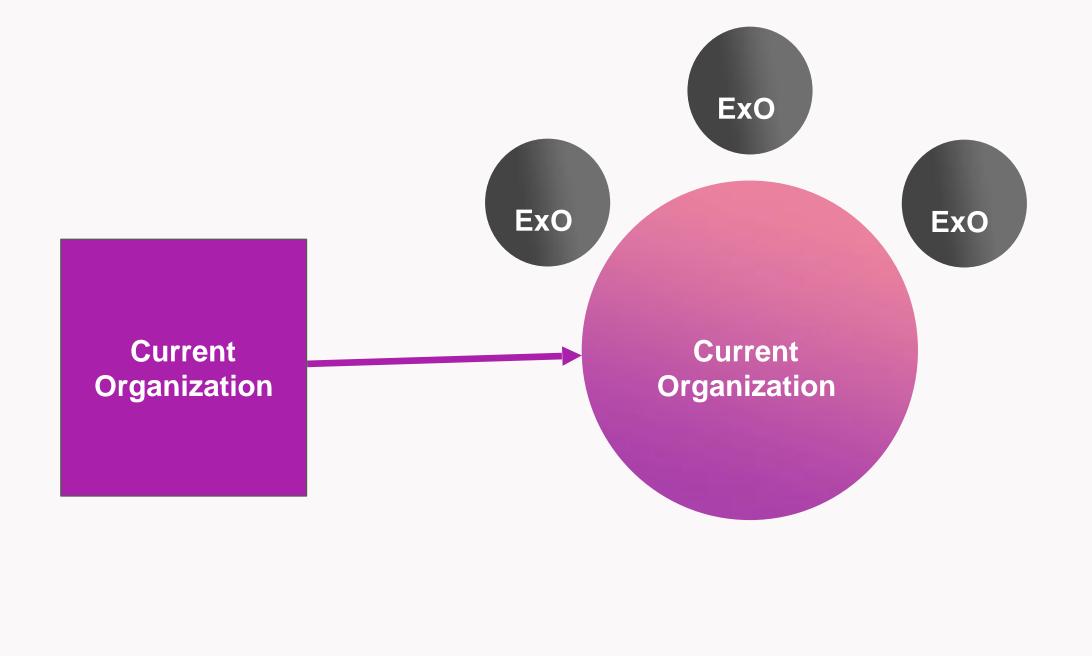
WEEK 10 OUTCOMES

ExO's Global Ecosystem



500 thought leaders, investors and entrepreneurs in 35 countries

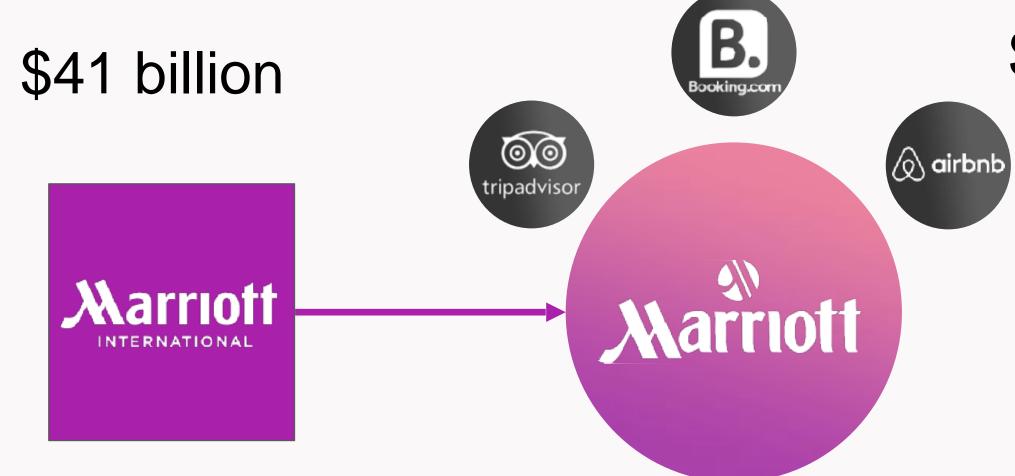
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\$100 billion







Current Organization





Cross-Industry Client Base

accenture





∃ Sareb **VISA** هيئة كهرباء ومياه دبان Dubai Electricity & Water Authority





















- → Launched 25 initiatives in four years on a tiny budget by focusing on "freeing our employees for free"
- \rightarrow 8 projects on track to deliver \$50+ million in value or 10X lift in customer satisfaction



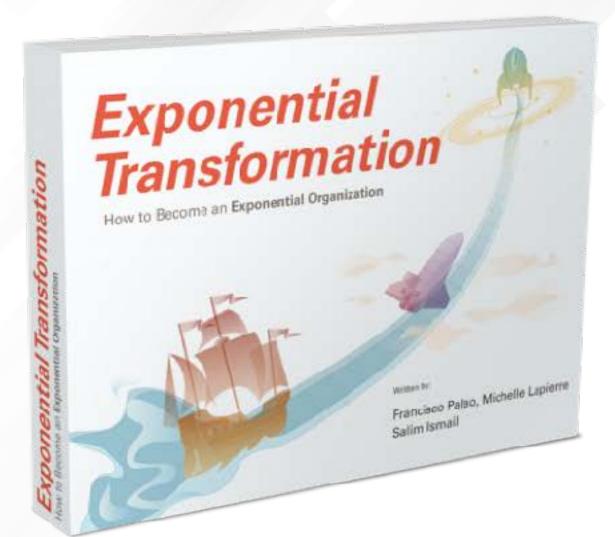


Doubled revenues Tripled profits





Open Sourcing the ExO Sprint









FASTRACKINSTITUTE

Accelerating Technology into Society



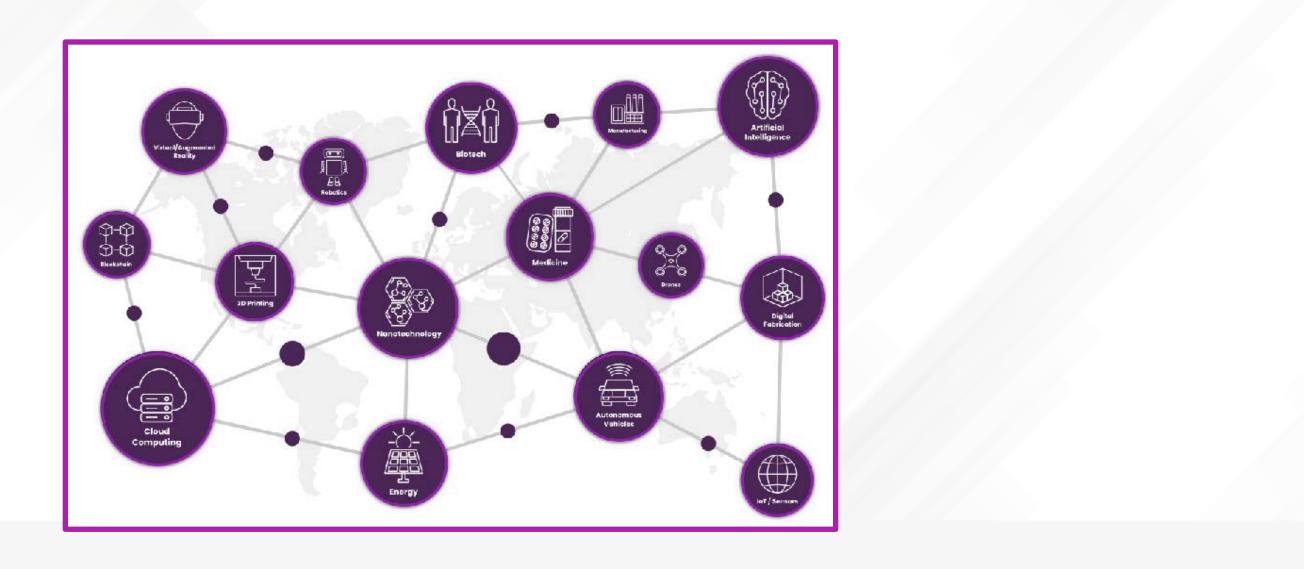






eloworks







FASTRACKINSTITUTE Accelerating Technology into Society

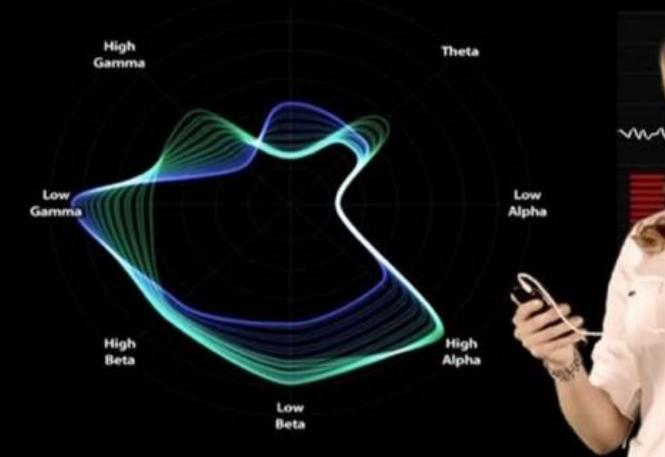
Exponential Thailand

- Digitize government and industry (leverage doubling patterns)
- Exponential Manufacturing (May 15/16th)
- Run Fastrack Sprints in key areas (tourism, agriculture)
- Create a community of exponential change agents
- Transform education



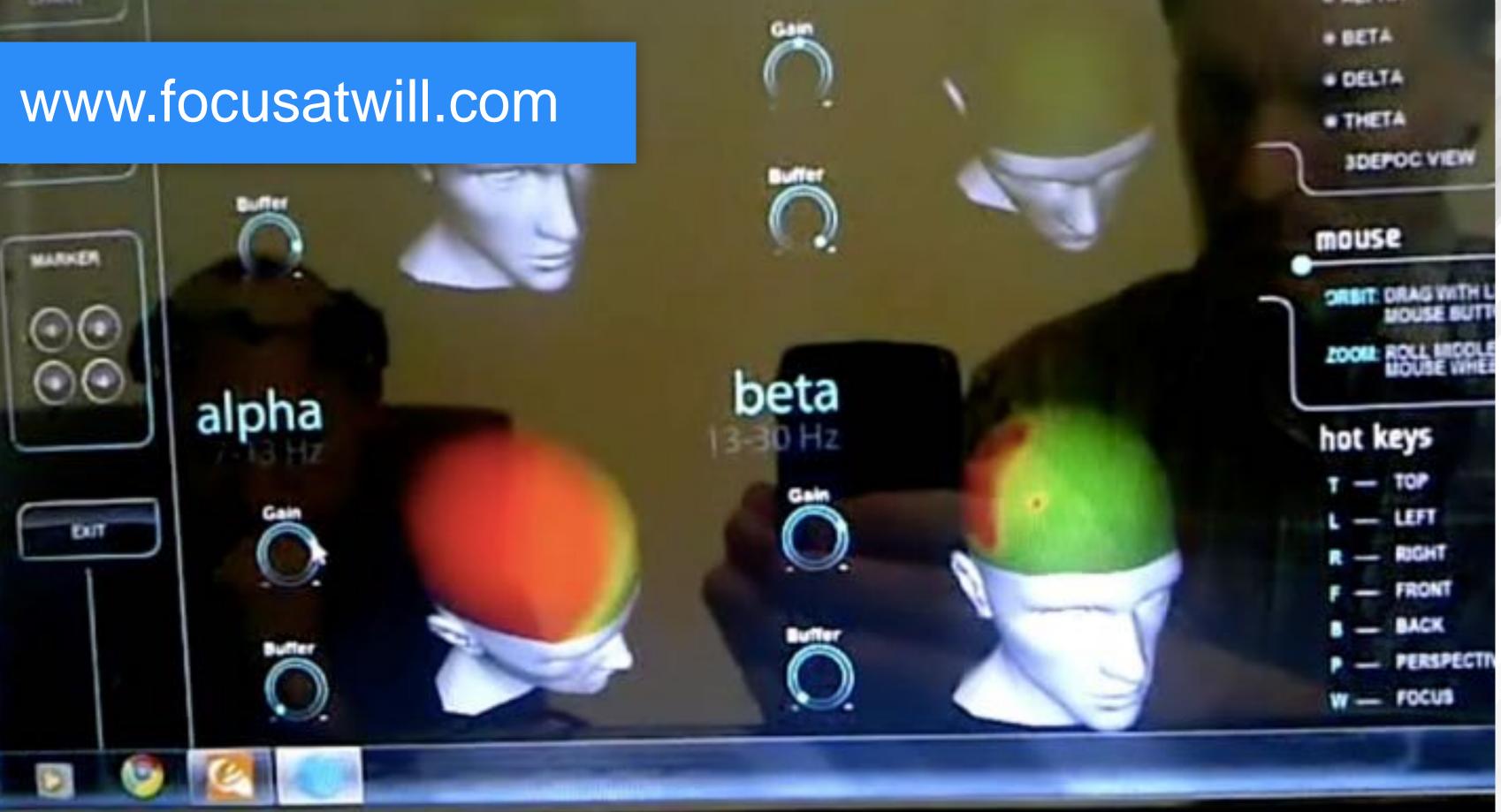


Brain interface (Neuro) NeuroSky Mindwave









lenovo

Two Ideas For You

www.exo.works/exq

Amazon Institutional Yes





Key Questions

// What disruptions will affect you?
// How will related industries be affected?
// How are organizations reacting?
// How do you navigate the turbulence?

www.singularityhub.com salim@openexo.com

Ideacity 2018 - "Death of Corporations TEDx Toronto - "Fixing Civilization" TEDx Bay Area - "Occupy Male Street"





EXPONENTIAL DISRUPTION

Information Layers



Al Robotics Biotech Nanotech Medicine Neuroscience Energy Computing



Digitize Disrupt Demonetize Democratize

New Breakthroughs



