

#EBF17



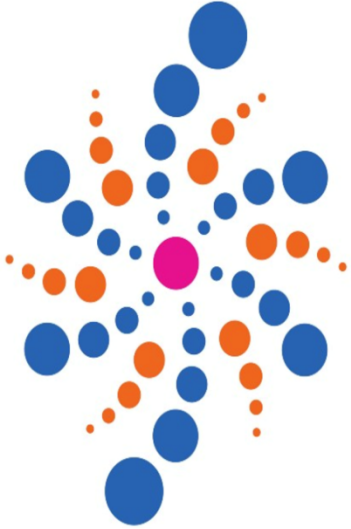
EUROPEAN BUSINESS FORUM 2017

Odense, Denmark



Exponential Organizations

Keynote by Yuri van Geest



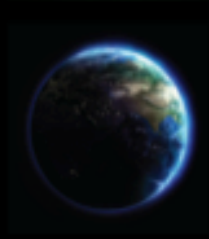
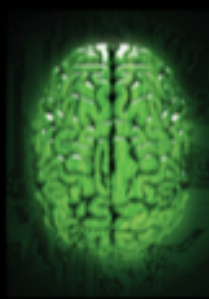
Singularity

U N I V E R S I T Y

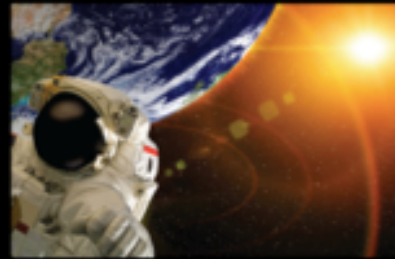
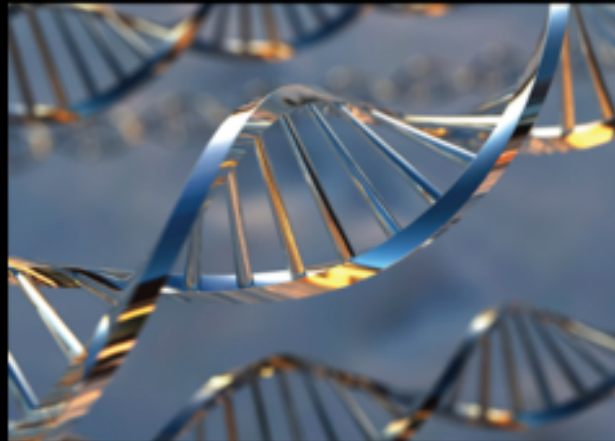
*The best vision on
the future is
peripheral vision*

Accelerating Technologies

AI
Robotics
Biotech
Nanotech
Medicine
Neuroscience
Energy
Computing



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Singularity University

	Cost (Averages) for Equivalent Functionality	Scale Impact
3D Printing	\$40,000 (2007) to \$100 (2016)	400x in 9 years
Industrial Robots	\$500,000 (2008) to \$1,000 (2016)	500x in 8 years
Drones	\$100,000 (2007) to \$100 (2016)	1,000x in 9 years
Solar	\$30 per kWh (1984) to \$0.025 per kWh (2016)	1,200x in 22 years
Sensors (3D LIDAR sensor)	\$20,000 (2009) to \$79 (2014)	250x in 5 years
Biotech (DNA sequencing of one whole human)	\$10,000,000 (2007) to \$80 (2016)	125,000x in 11 years
Neurotech (BCI devices)	\$4,000 (2006) to \$90 (2011)	44x in 5 years
Medicine (full body scan)	\$10,000 (2000) to \$500 (2014)	20x in 14 years

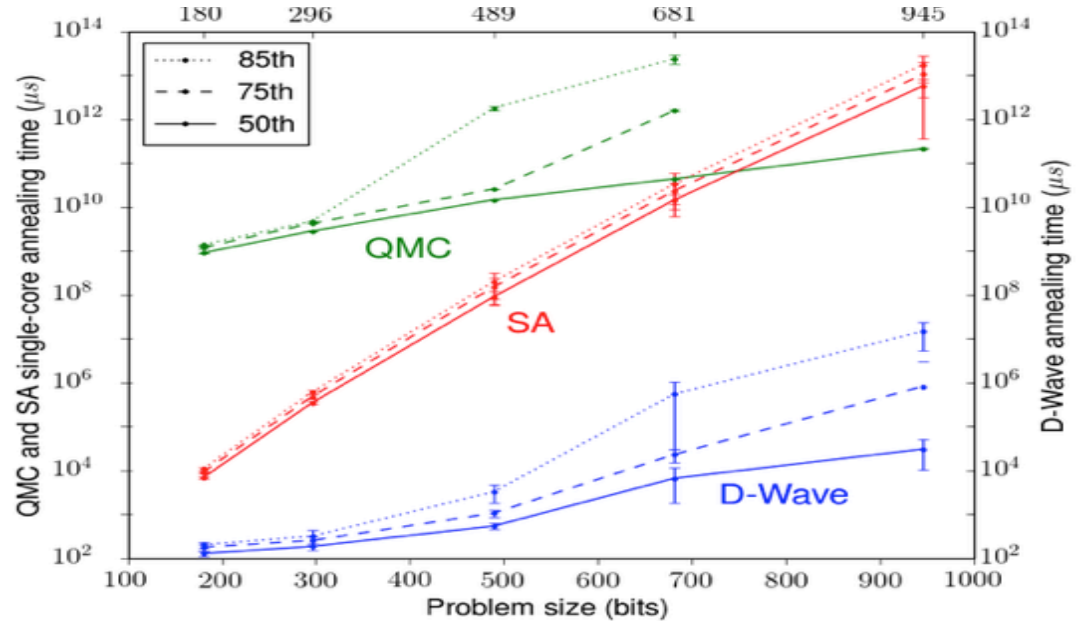
Audi RS 7 - Autonomous Car #EBF17



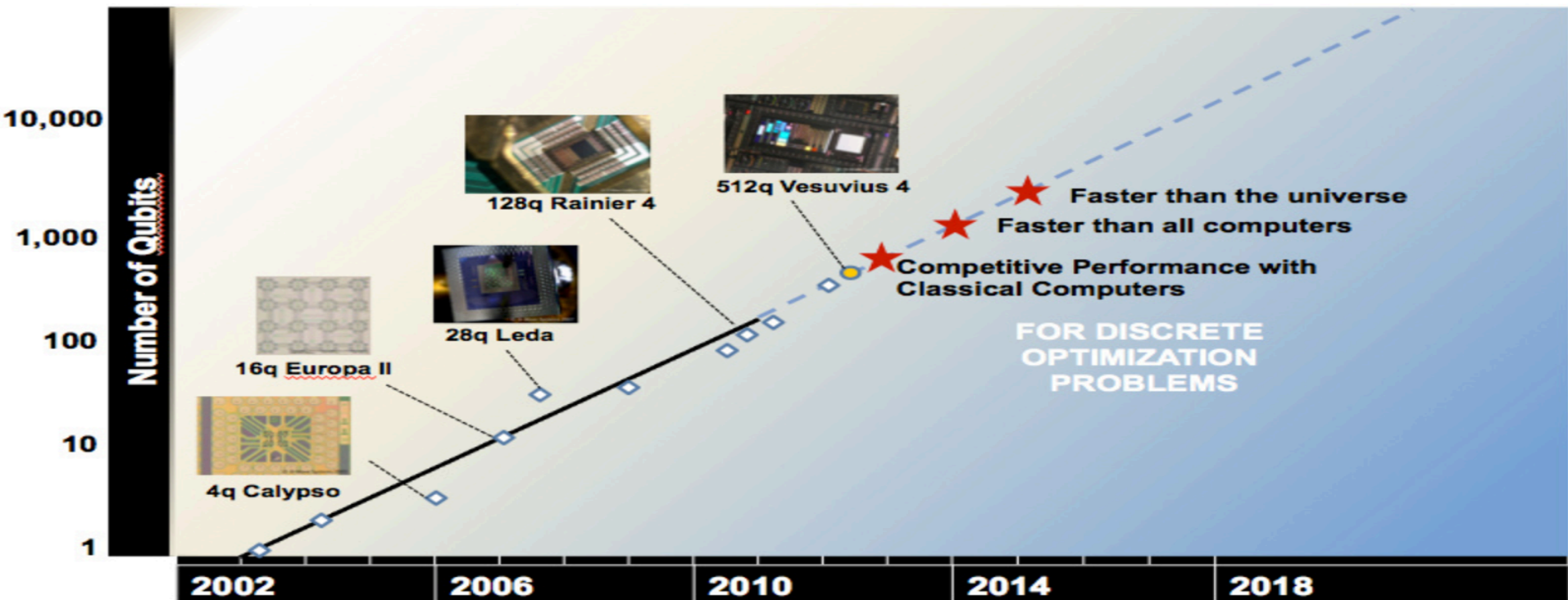
Audi RS 7 piloted driving concept



Google & NASA - Quantum Computing #EBF17

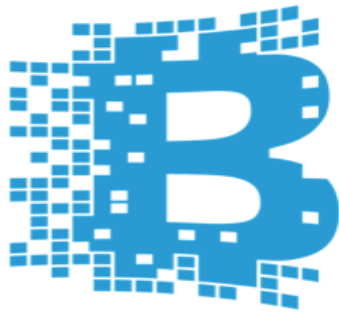


The D-Wave 2X quantum computer is **100 million times faster than classic computer** with an optimization problem. **Leaps in Big Data & AI.**



"Quantum computers have the potential to solve problems that would take a classical computer longer than the age of the universe." — Professor David Deutsch, Oxford

Technology behind Bitcoin allowing for **automated trust** in whole ecosystems and supply chains:



BLOCKCHAIN



THE GLOBAL BRAIN

Viv radically simplifies the world by providing
an intelligent interface to everything.

“The greatest achievement of human technology is to allow us to create more than we can understand”

Danny Hillis

Zero-employee Robot Factories #EBF17

 **TOYOTA** + = SoftBank + **FOXCONN**[®]

Toyota - Japanese automotive manufacturer

Softbank - Japanese telecom & Internet corporation

Foxconn - Taiwanese electronics manufacturer



Factories with robots creating new robots (STM Machines)

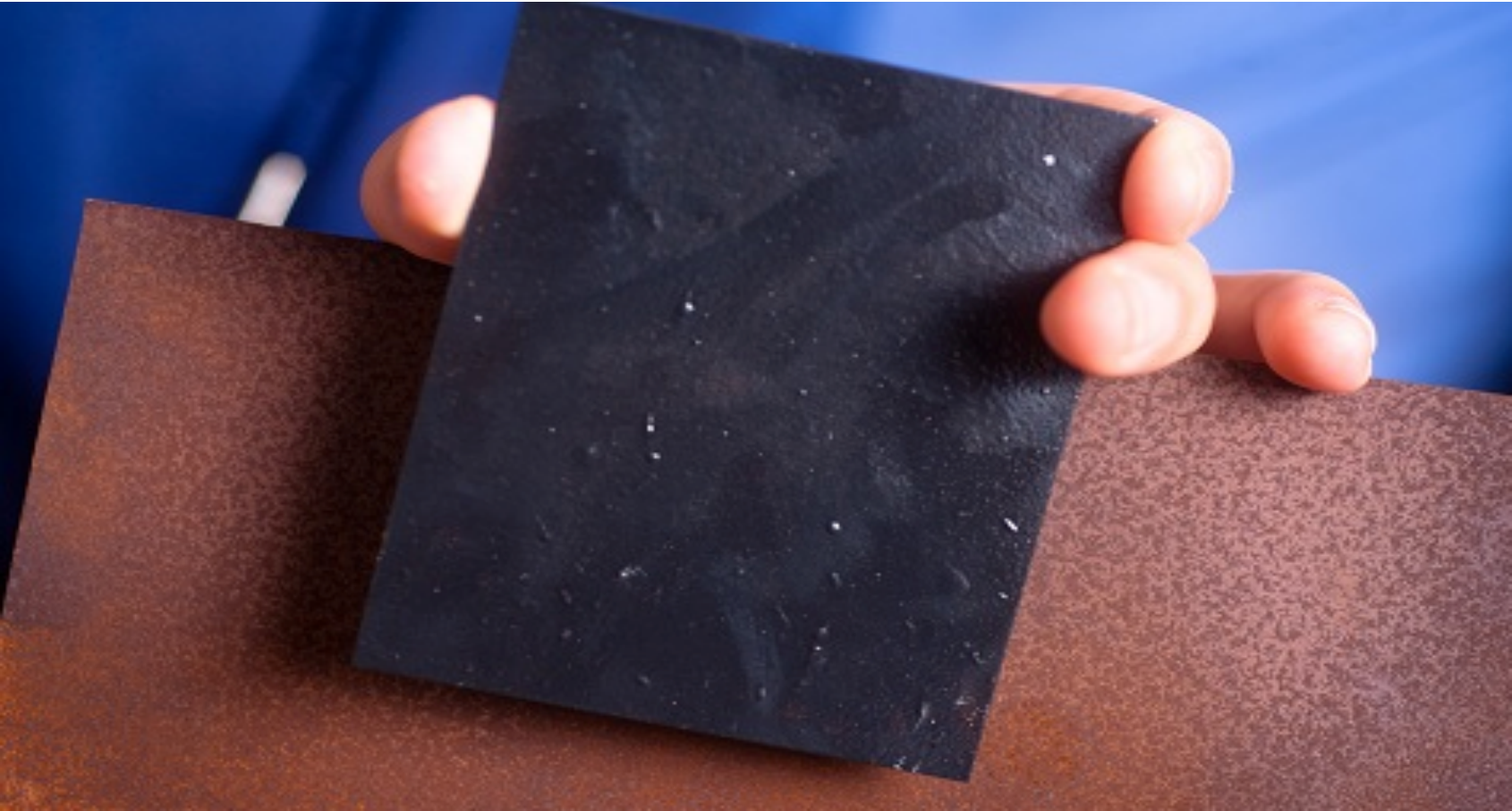
Started in 2016

Qingdao Unique - House 3D Printer #EBF17



Graphene - Nanomaterials

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Titanium Dioxide (TiO₂) Nanocoating

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Benefits:

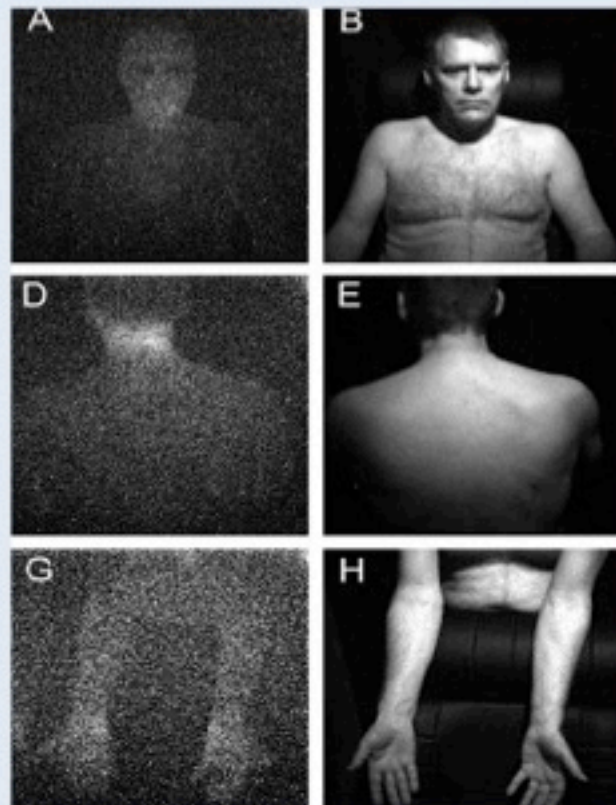
- Anti-corrosive
- Wear-resistant
- Self-cleaning
- UV-resistant
- Hydrophobic
- Anti-bacterial
- Deodorization (no scents)

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Qi 
Nanophotonics

Platform-of-platforms of
Light-based Technologies

“The human body literally glimmers” Quantum ID - qinano.com



You have a
unique
Quantum
Identity

sensors for
cyber security



“The Age of Understanding
is over. It is migrating
towards the Age of Mastery”

Michio Kaku



Exponential Organizations Overview

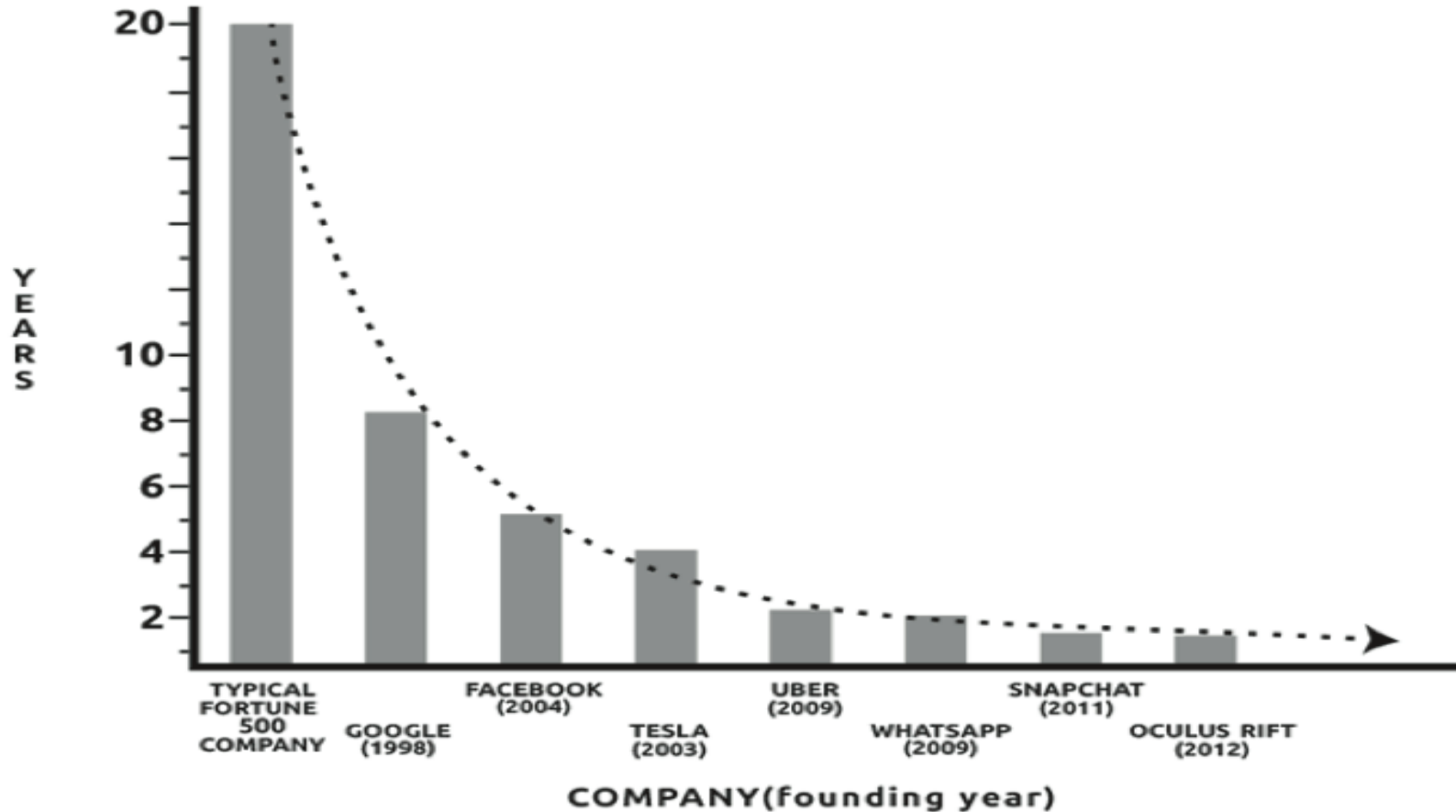
“The average lifespan of an S&P 500 company has decreased from: 67 years (1920's) to 12 years (today).”

“The average half-life of a business competency has dropped from 30-years in 1984 to 5-years today.”*

*In IT it's now 2-years

Market Cap to \$1B

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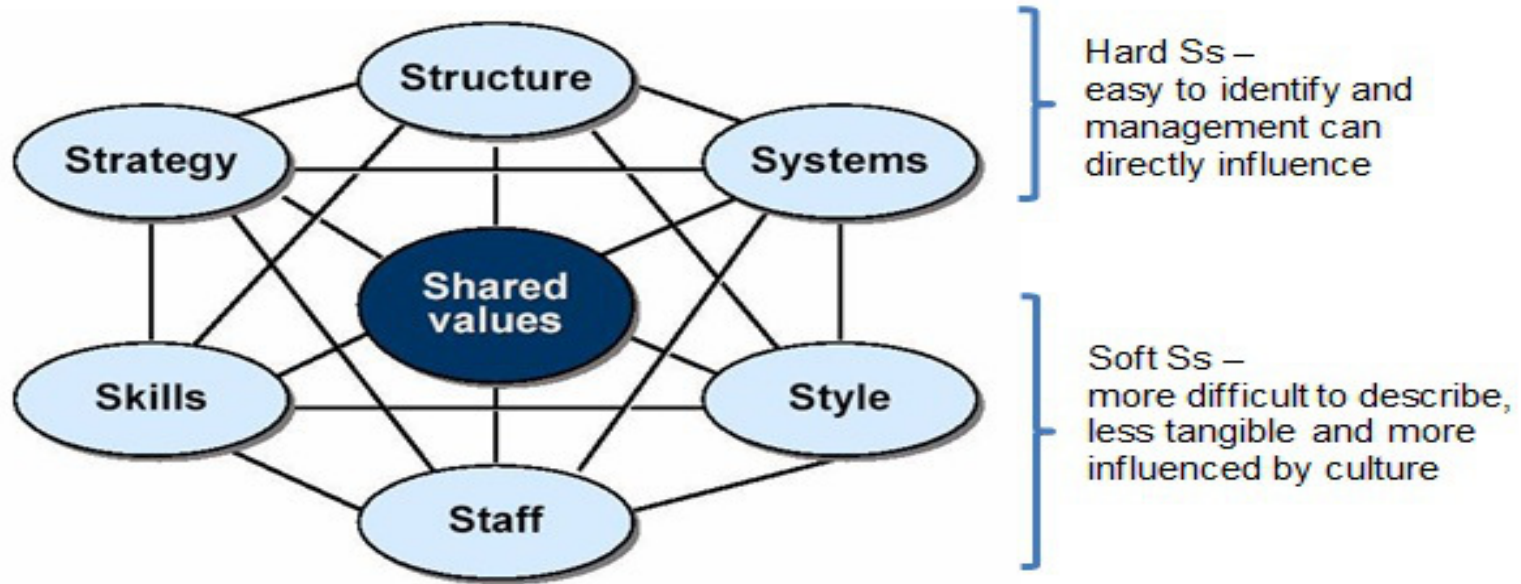


Why Exponential Organizations?

Scarcity vs. Abundance

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What are Exponential Organizations?

An Exponential Organization (ExO) is one whose impact is disproportionately large

– **at least 10x larger** –

compared to its peers because of the use of new organizational design and leveraging exponential technologies.

Every Company Will Become a Software Company

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Marc Andreessen
founder of Netscape,
renowned Venture Capitalist
Andreessen-Horowitz

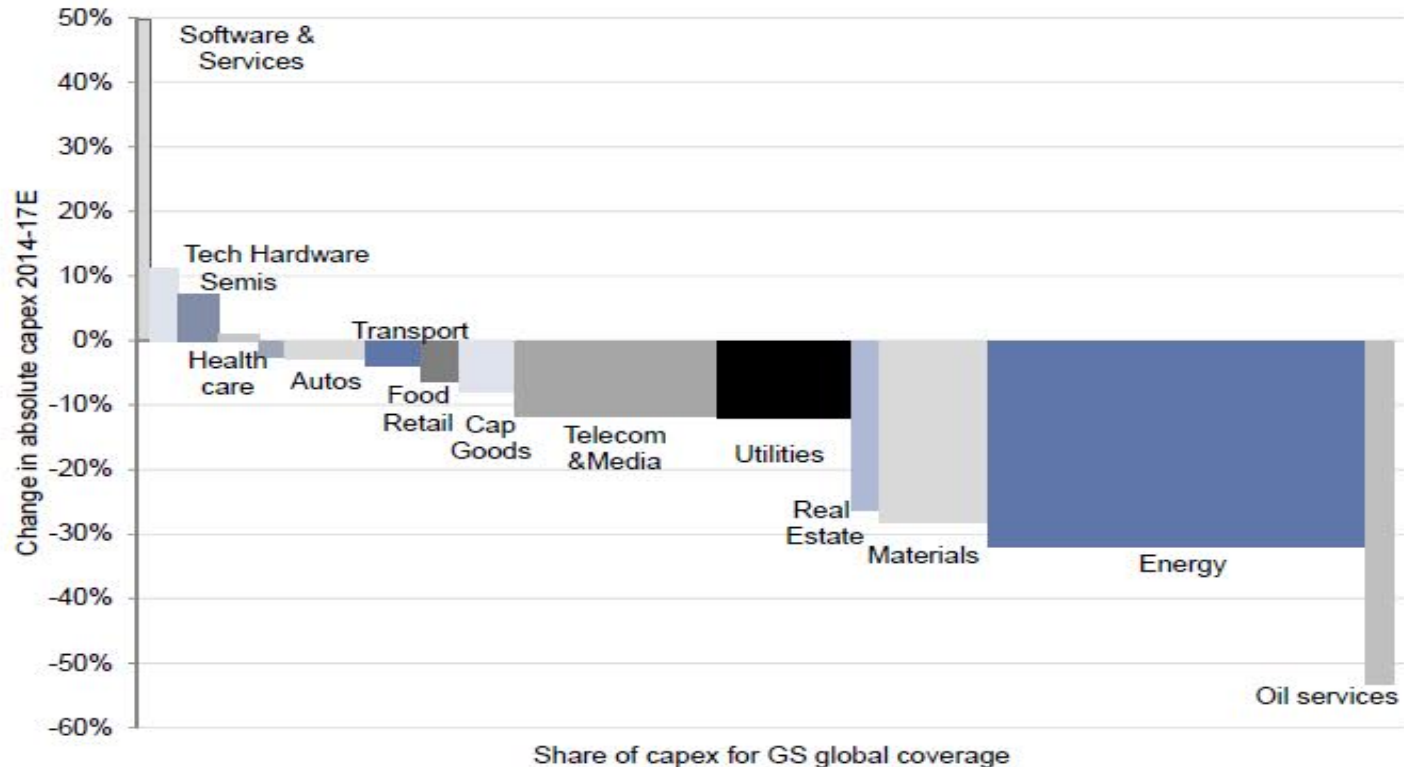
“Software is
eating the world,
in all sectors.

And AI is eating software
afterwards.”

Estimated Share of Capex by Industry

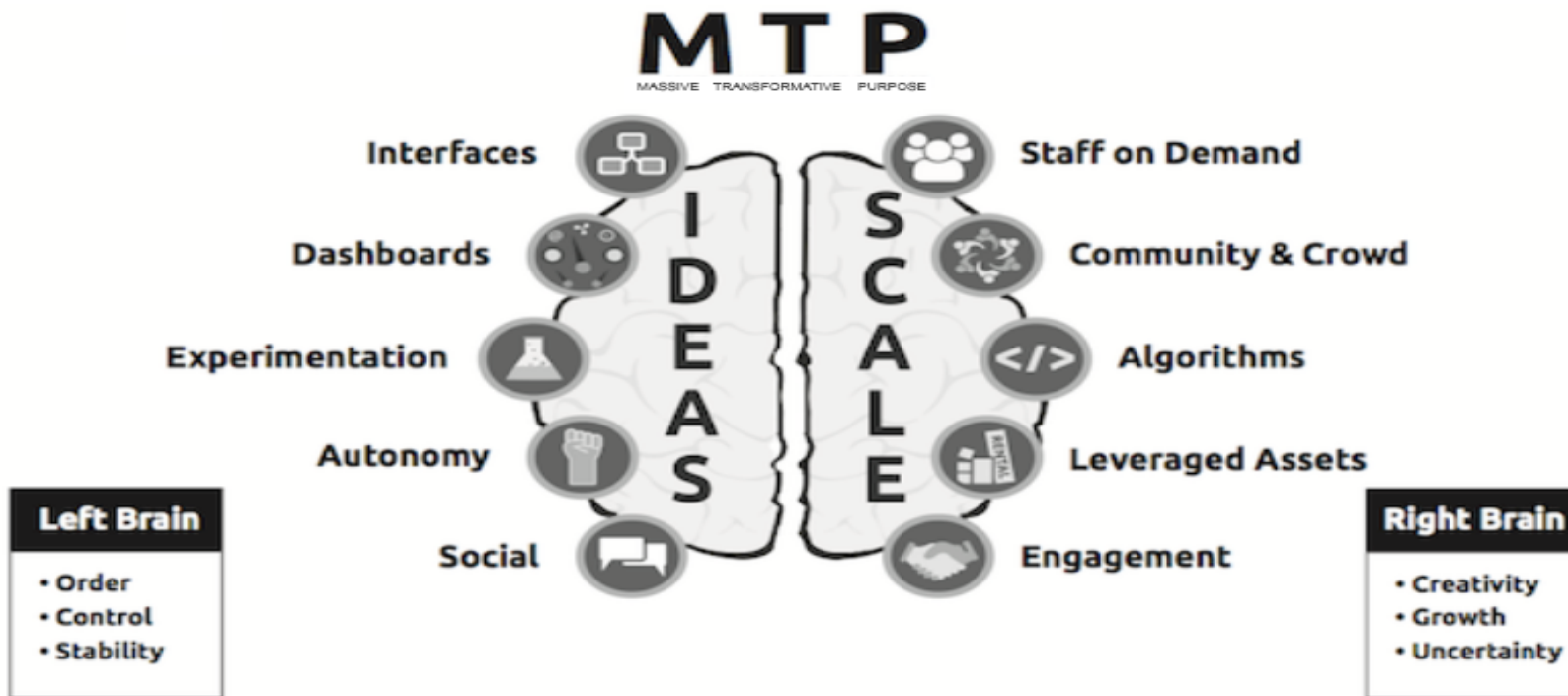
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Share of capex in 2014 vs. change 2014-2017E, GS global coverage





Exponential Organizations Attributes



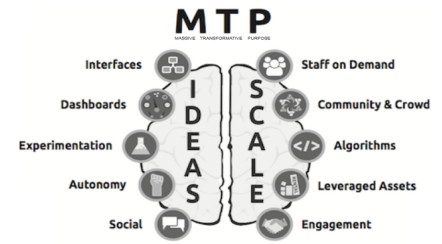
How is your organization
improving the world?

ExO Attribute 1: Staff on Demand

Staff on Demand is a necessary characteristic for speed, functionality and flexibility in a fast-changing world.

Rather than 'owning' employees, **ExOs connects with external people for simple to complex to even mission critical work via online marketplaces.**

ExO 1: Staff on Demand



upwork™

incloudcounsel

kaggle

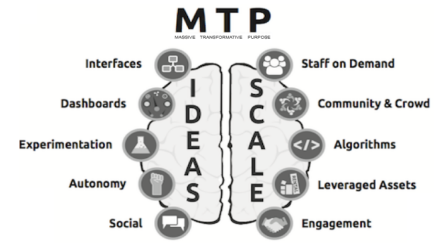
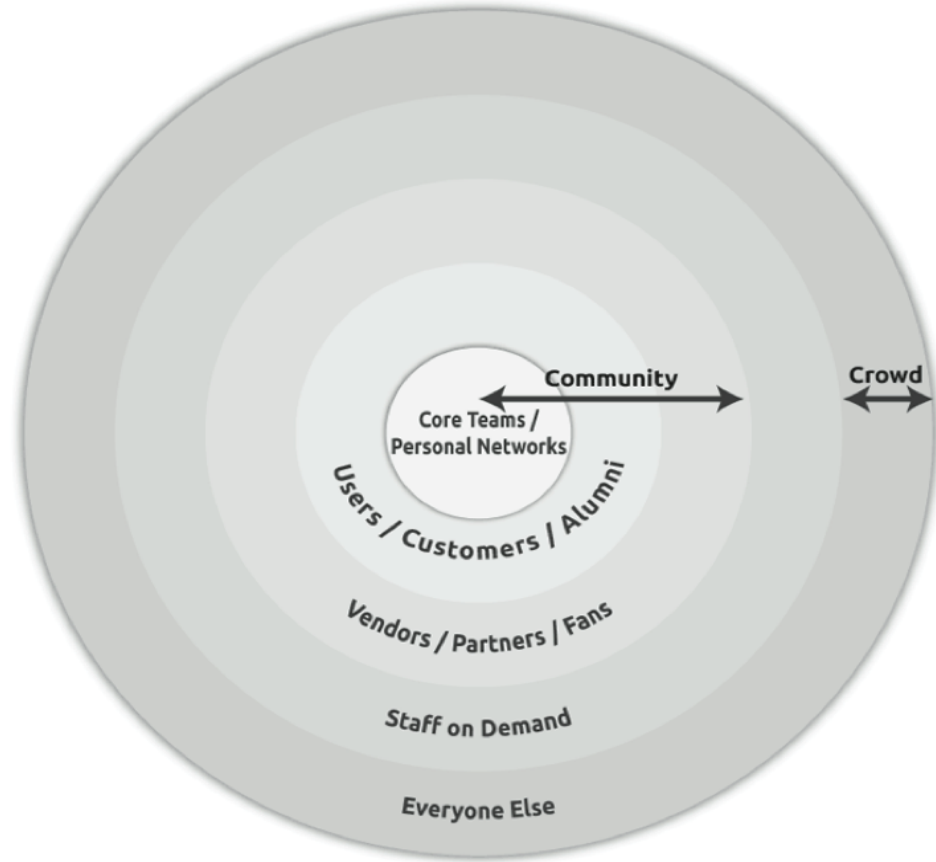
99 designs®

ExO Attribute 2: Community & Crowds

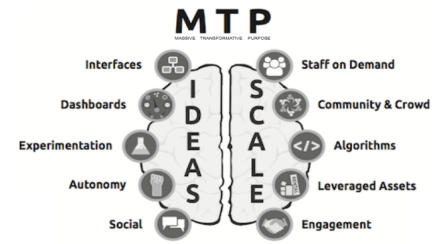
Connect with your extended crowd. From customers, to staff on demand to detractors.

Invite them to share creativity, ideation, validation and even funding.

ExO 2: Community & Crowds



ExO 2: Community & Crowd

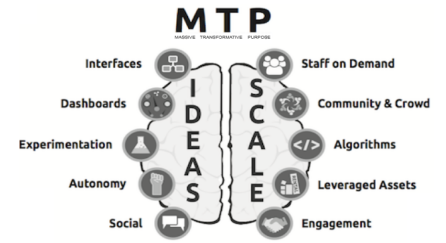


ExO Attribute 3: Algorithms

ExOs leverage Algorithms, including **Machine Learning and Deep Learning** to get new insights about customers and products.

Algorithms first, rest is secondary

ExO 3: Algorithms

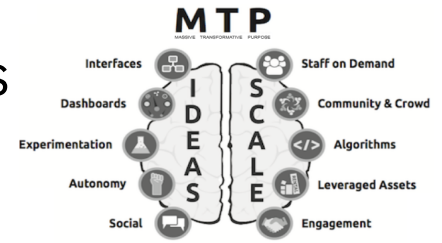


ExO Attribute 4: Leveraged Assets

Don't own. Access, rent or share assets to stay nimble.
Outsourcing even mission critical assets.

Leveraged assets include **cloud computing, hackerspaces and customer and partner assets as inputs for your business.**

Attribute #4: Companies Built on Leveraged Assets

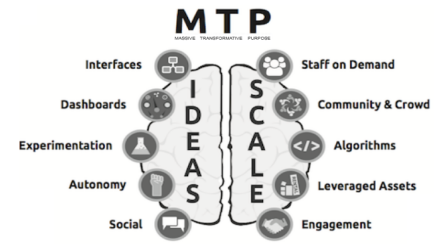


ExO Attribute 5: Engagement

Engage employees, customers and partners through **digital reputation systems, gamification and incentive prizes.**

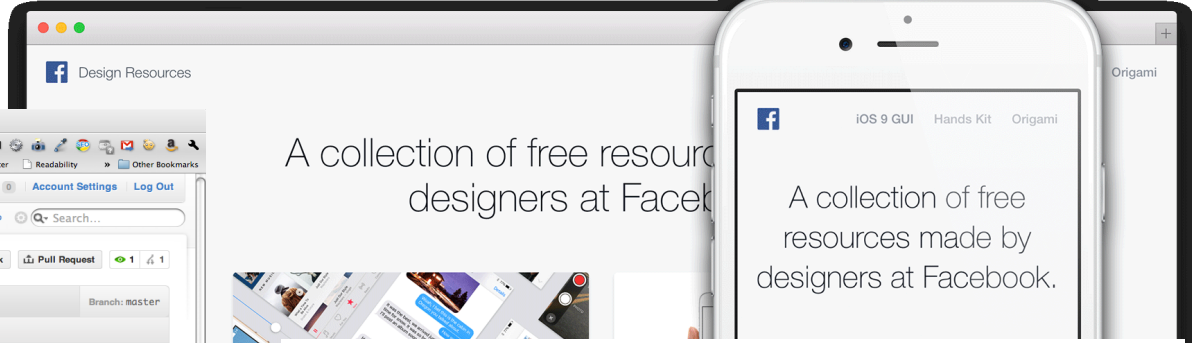
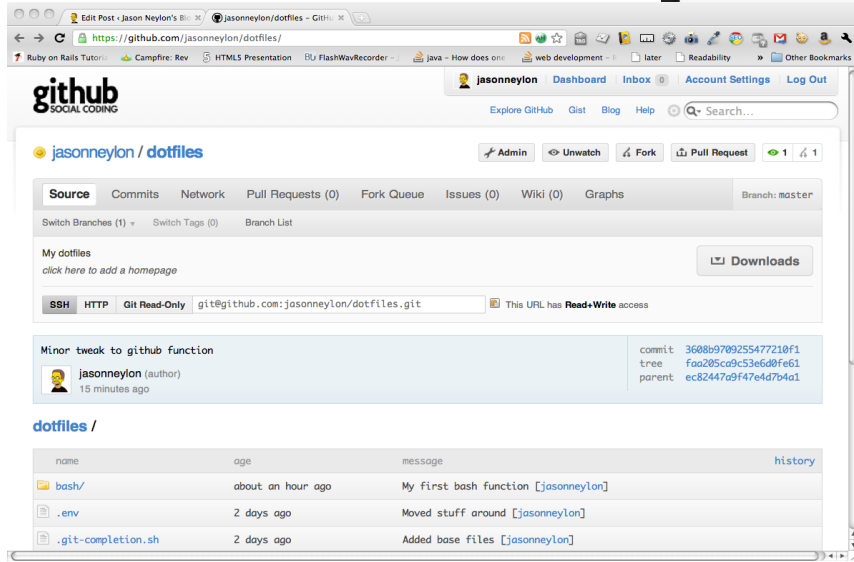
This creates network effects and positive feedback loops.

Attribute #5: Engagement



Examples of Exponential Organizations

GitHub



A collection of free resources made by designers at Facebook.

A collection of free resources made by designers at Facebook.



MTP

Staff on Demand

Community & Crowd

Algorithms

Leveraged Assets

Engagement



Interfaces



Dashboards



Experimentation



Autonomy



Social



Open source code and collaboration community

Permissionless innovation

Passion, purpose and potential for HR



Haier

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- 80,000 employees
- Organized in 2005 into 2,000 self-managed units with decision-making authority (Autonomy)
- Market cap grew from \$20B to over \$60B today in the last 3 years.

MTP		
Staff on Demand		Interfaces ✓
Community & Crowd	✓	Dashboards ✓
Algorithms		Experimentation ✓
Leveraged Assets		Autonomy ✓
Engagement	✓	Social ✓

Future of Jobs and Work

Humans are best
at being human



Thrive in an Exponential Era

Worlds' first corporate transformation agency based on the bestseller Exponential Organizations disrupting classic consulting and training business models

**Corporate transformation
10x faster, 20x cheaper,
more impact and skin in
the game**



Yuri van Geest



Anthony Ferrier

New York City (HQ)
Amsterdam
soon Hong Kong

***REALITY IS A
PERMANENT
MUSEUM***

More info on Exponential
Technologies & Organizations
and my upcoming book:

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