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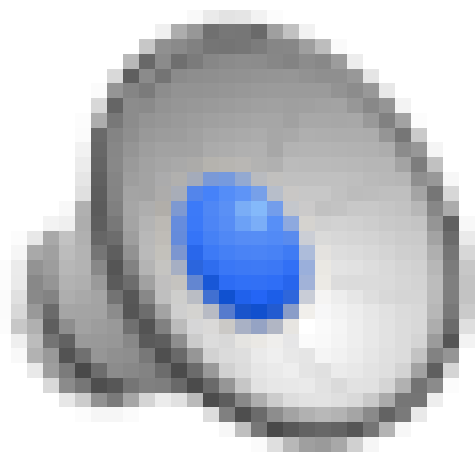
**SALIM ISMAIL
YURI VAN GEEST**

MET MICHAEL S. MALONE EN EEN VOORWOORD VAN PETER H. DIAMANDIS

EXPONENTIËLE ORGANISATIES

WAAROM NIEUWE ORGANISATIES TIEN KEER BETER, SNELLER
EN GOEDKOPER ZIJN - EN HOE JIJ DAT OOK WORDT

 A SINGULARITY UNIVERSITY BOOK





Singularity
University



10⁹+

How will you positively impact
1 billion people in the next decade?



*The best vision on
the future is
peripheral vision*

Accelerating Technologies

AI
Robotics
Biotech
Nanotech
Medicine
Neuroscience
Energy
Computing



Exponential Technologies

	Cost (averages) for equivalent functionality	Scale
3D printing	\$40,000 (2007) to \$100 (2014)	400x in 7 years
Industrial robots	\$500,000 (2008) to \$22,000 (2013)	23x in 5 years
Drones	\$100,000 (2007) to \$700 (2013)	142x in 6 years
Solar	\$30 per kWh (1984) to \$0.16 per kWh (2014)	200x in 20 years
Sensors (3D LIDAR sensor)	\$20,000 (2009) to \$79 (2014)	250x in 5 years
Biotech (DNA sequencing of one whole human DNA profile)	\$10 million (2007) to \$1,000 (2014)	10,000x in 7 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

Declining Costs

Increasing
Capabilities

Audi RS 7 - Autonomous Car



Audi RS 7 piloted driving concept







Nano-Fridge (CEO of your own Food)

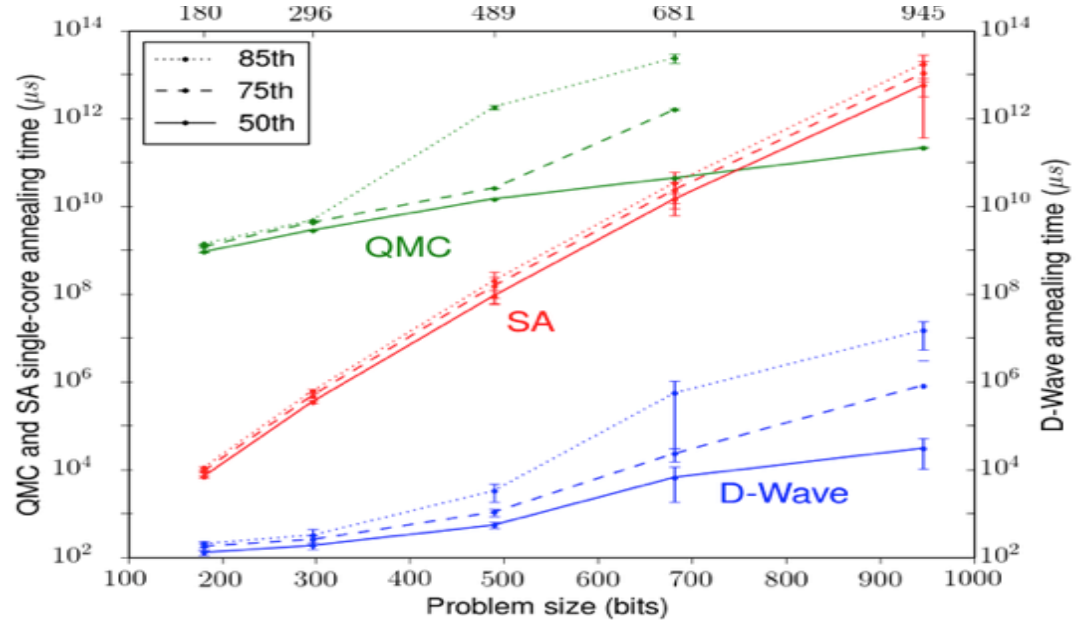


Haier - Chinese Consumer Electronics manufacturer

Alibaba - Chinese eCommerce and distribution company

Syngenta - Swiss seed producer and biotech company

Google & NASA - Quantum Computing



The D-Wave 2X quantum computer is **100 million times faster than a conventional computer** with a proof-of-concept optimization problem. Leaps in Big Data & AI.



THE GLOBAL BRAIN

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

Zero-employee Robot Factories



Toyota - Japanese automotive manufacturer

Softbank - Japanese telecom & Internet corporation

Foxconn - Taiwanese electronics manufacturer



Factories with robots creating new robots (STM Machines)

Starting Q3/Q4 2016

*Exponential
Organizations*

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

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“89% of the Fortune 500
companies from 1955 are
not on the list today.”

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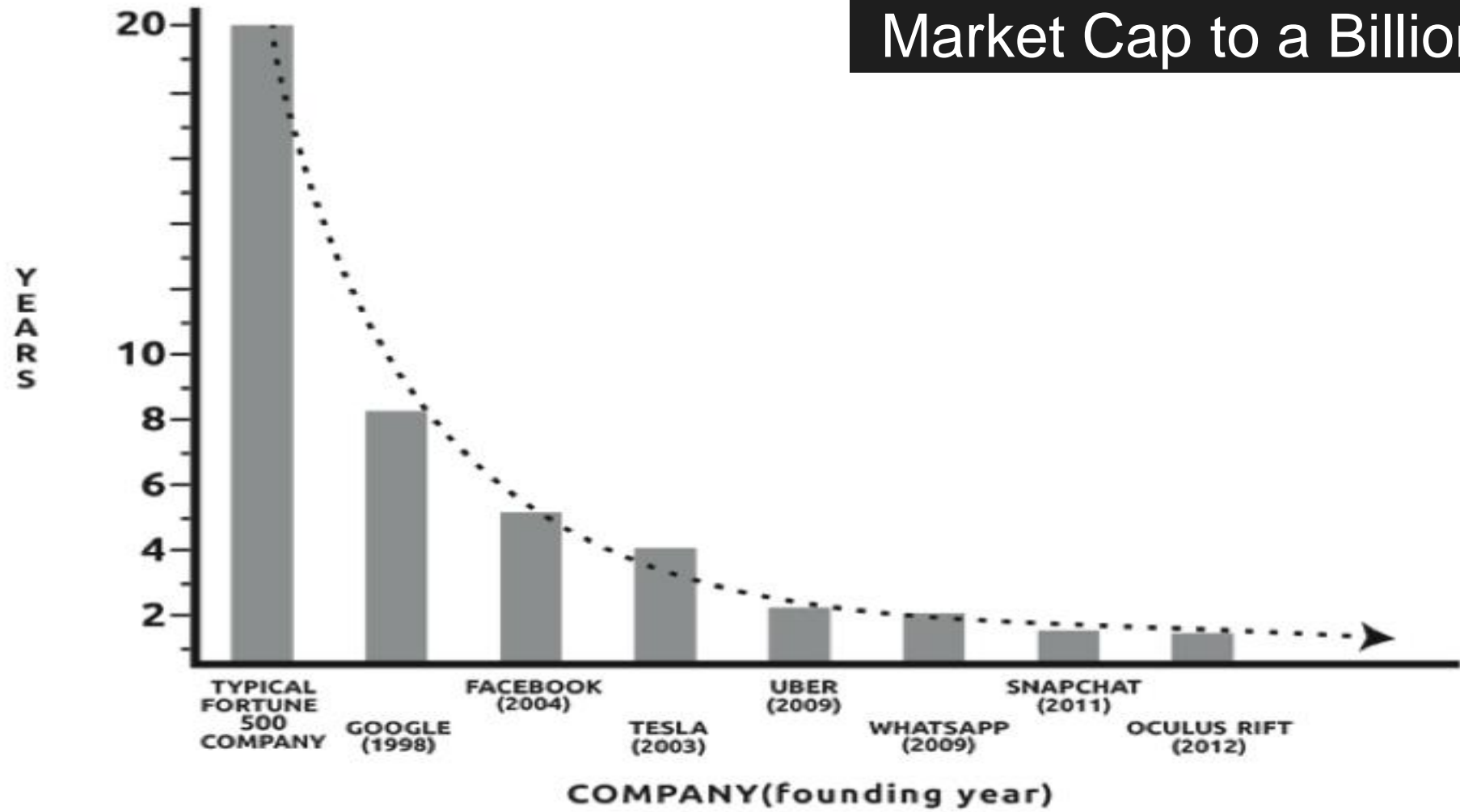
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“The average lifespan of an S&P 500 company has decreased from: 67 years (1920’s) to 15 years (today).”

Market Cap to a Billion

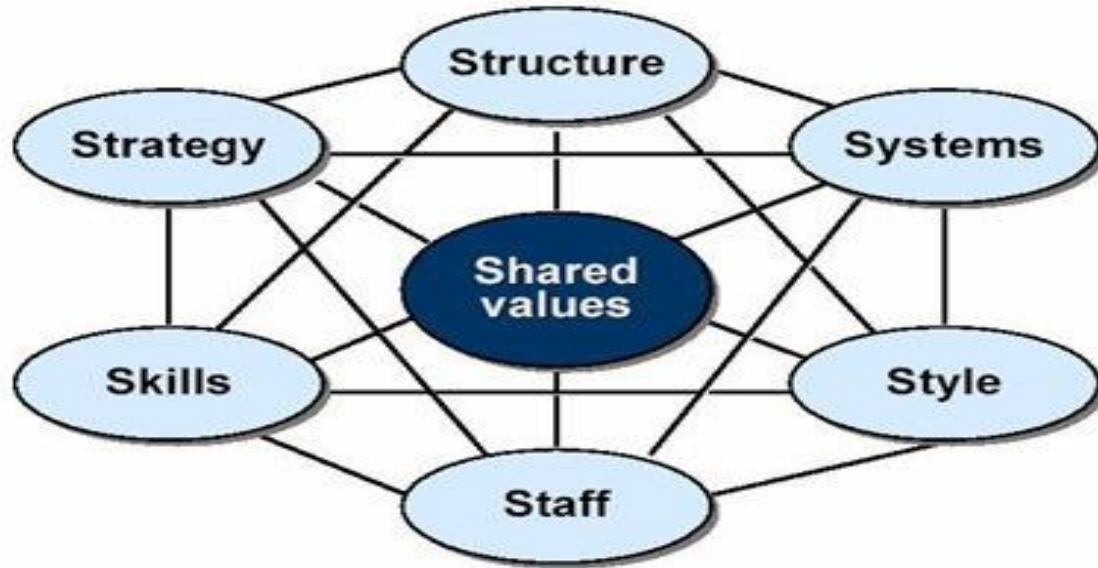


Why are there ExOs?

Scarcity > Abundance



Time to scale the organization



Hard Ss –
easy to identify and
management can
directly influence

Soft Ss –
more difficult to describe,
less tangible and more
influenced by culture

Source: McKinsey 7S model

