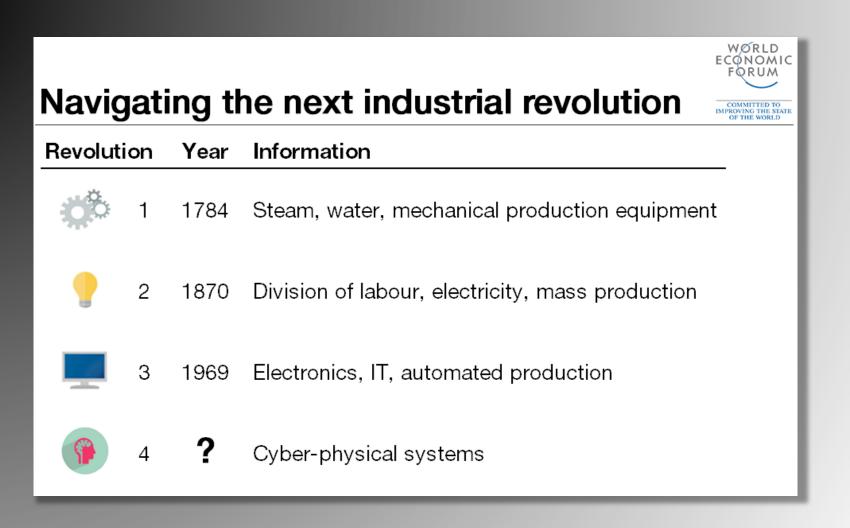
## **Digital organisational shuffle**

Silvija Seres Slovenian Managerial Congress Portoroz, 30 September 2016

### The fourth industrial revolution



This time is different: exponential and combinatorial.

#### The internet and connectivity

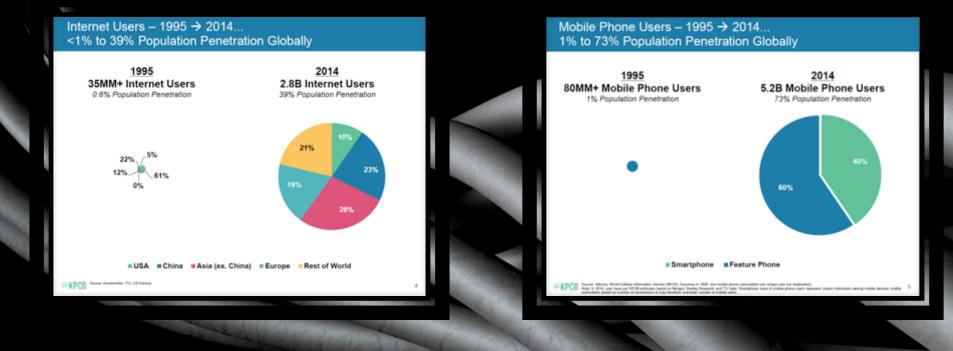
The Internet is the largest experiment involving anarchy in human history.

Billions of people are creating and consuming untold amounts of digital content in an online world not truly bound by terrestrial laws.

Virtual space is becoming as relevant as the physical one.

#### Mary Meeker's State of the Internet





#### There are 5.2 billion mobile phone users, up from 80 million in 1995.

#### The laws og speed and computing power #5

Moore's Law: processor chips double in speed every 18 months.

Photonics Law: the amount of data coming out of fiber optic cables, doubles every nine months.

Exponential growth unleashes huge possibilities in graphics, virtual reality, driverless cars, tought-controlled robots, AI, etc.

#### The two network laws

# Reed's Law: utility of large networks, particularly social networks, scales exponentially with the size of the network.

Metcalfe's Law: the value of a telecoms network is proportional to the square of the number of connected users.

Consequences for the networked business: winner takes all dynamics.

#### Exponential growth

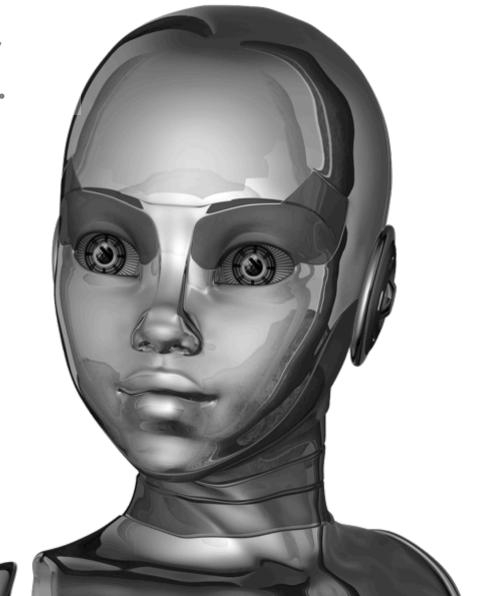
#### Take 30 linear spaces: 30 meters

Take 30 exponential paces: 26x around the Earth!

#### The social effect



# Challenging the very concept of humanity.



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## Examples of rate of change

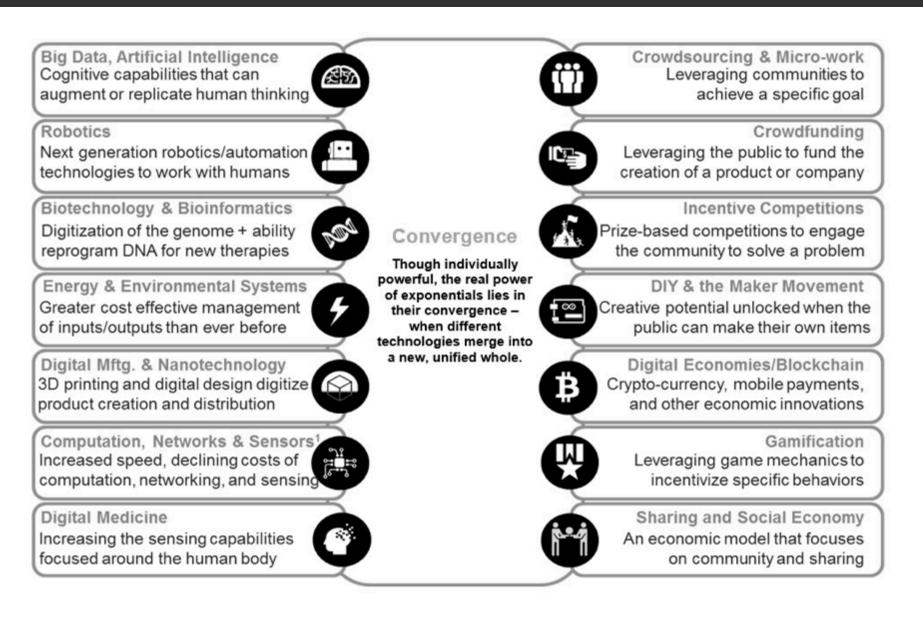
Technology	Average cost for equivalent functionality	Scale 400x in 7 years	
3D printing	\$40,000 (2007) to \$100 (2014)		
Industrial robots	\$500,000 (2008) to \$22,000 (2013)	23x in 5 years	
Drones	\$100,000 (2007) to \$700 (2013)	142x in 6 years 200x in 20 years	
Solar energy	\$30 per kWh (1984) to \$0.16 per kWh (2014)		
3D LIDAR Sensors	\$20,000 (2009) to \$79 (2014)	250x in 5 years	
DNA genome seq \$10,000,000 (2007) to \$1,000 (2014)		10,000x in 7 years	
BCI neuro devices \$4,000 (2006) to \$90 (2011)		44x in 5 years	
Full body med scan \$10,000 (2000) to \$500 (2014)		20x in 14 years	



Source: "Exponential Organizations"

http://www.slideshare.net/vangeest/exponential-organizations-h

@dw2



#### Old news

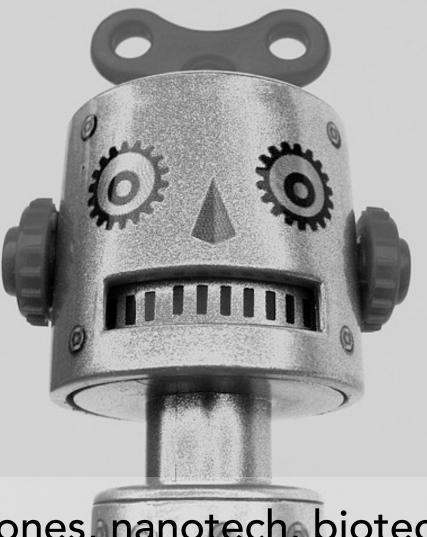
## Cloud, big data, analytics of everything.

#### Known news

#### #12

## Sharing economy, crowdfunding, crowdsourcing,

#### The real news



Robots, AI, VR, 3D, drones, nanotech, biotech.

#### The world as we know it

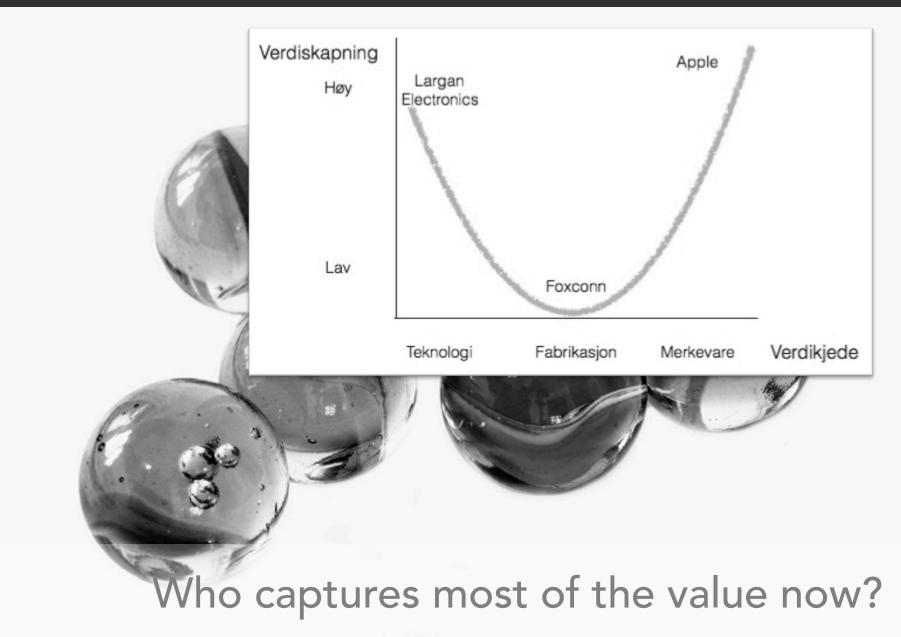
Polarisation, algorithmisation, globalisation

#### How are you organized?

#### #15

### For complexity or innovation?

#### When value chains stumble



#### New processes and new people



#### Lean, Devops, Design thinking

#### To-speed IT



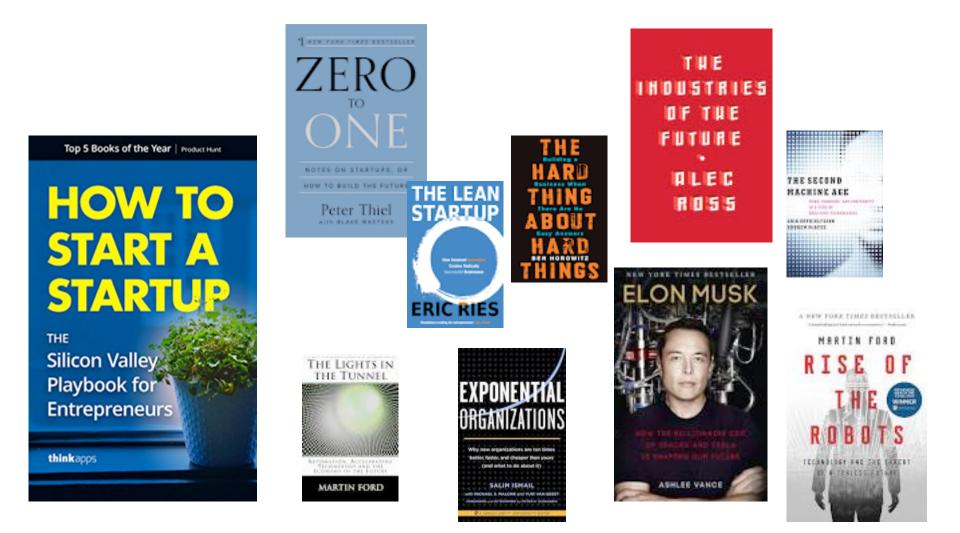
Below: infrastructure; above: customer contact

#### To innovation styles



#### Innovating at the edge, scaling at the core

#### Not <u>all</u> answers come from Silicon Valley #20



What is your unique digital playbook?

### Typical barriers to growth and innovation #21

- Lack of incentives
- The existing business is too powerful
- Management wants near-term success
- Too many silos
- Lack of customer focus
- Fear of failure
- It's 'no one's job'
- Innovations don't get big enough fast enough for us
- We are focused on our quarterly earnings
- We are afraid of cannibalizing our successful businesses
- We have no tolerance for unpredictable results
- We have no way of measuring progress

#### The new playbook for strategy

#22

Continuous Reconfiguration
Healthy Disengagement
Deft Resource Allocation
Innovation Proficiency
A Discovery Driven Leadership Mindset
Entrepreneurial Career Management

#### Individual careers & talent?

Organizational systems A stable career path Hierarchies and teams Infrequent job hunting Careers managed by the organization Individual skills A series of 'gigs' Individual superstars Permanent career campaigns Careers managed by the individual

### Stability/agility paradox

#### Incredible Stability in...

- Leadership
- Strategy
- Values
- Talent
- Customer relationships 8 Networks

Incredible change in...

- **Resource** allocation
- Budgeting
- Business Portfolio
- Individual job assignments
- **Business Models**

#### Creating Commitment

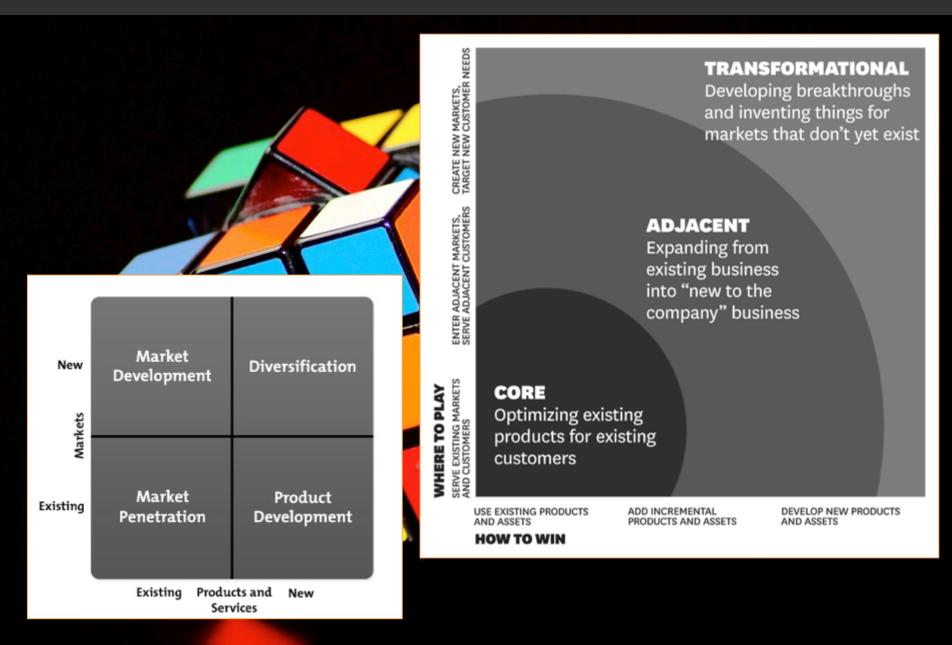
#### Demonstrate Commitment Build confidence

Impose the right disciplines (Assumption vs Knowledge, Intelligent Failures, Planning to learn)



### Managing inovation

#### #26



#### 70-20-10 rules and its variations

#27



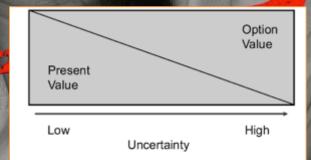
#### Two strategic logics

#### #28

#### Two Strategic Logics

The Five Dimensions of Strategy	Conventional Logic	Value Innovation Logic	
Industry assumptions	Industry's conditions are given.	Industry's conditions can be shaped.	
Strategic focus	A company should build competitive advantages. The aim is to beat the competition.	Competition is not the benchmark. A company should pursue a quantum leap in value to dominate the market. A value innovator targets the mass of buyers and willingly lets some existing customers go. It focuses on the key commonalities in what customers value.	
Customers	A company should retain and expand its customer base through further segmentation and custom- ization. It should focus on the differences in what customers value.		
Assets and capabilities	A company should leverage its existing assets and capabilities.	A company must not be constrained by what it already has, It must ask, What would we do if we were starting anew?	
Product and service offerings	An industry's traditional boundaries determine the products and services a company offers. The goal is to maximize the value of those offerings.	rmine the products and services the total solution customers seek, even if that takes the company beyond its	

20 .



Source: Dixit & Pindyck. 1994. Investment Under Uncertainty Princeton University Press

#### Future skillsets



Digital skills				
Digital business skills	Ability to work virtually	Understanding of corporate IT software and systems	Digital design skills	Ability to use social media an "Web 2.0"
50.6%	44.9%	40.1%	35.2%	29.3%
Agile thinking skil				
Ability to consider and prepare for multiple scenarios	Innovation	Dealing with complexity and ambiguity	Managing paradoxes, balancing opposing views	Ability to see th "big picture"
54.8%	46.0%	42.9%	40.9%	15.3%
Interpersonal and	communication a	à Illa		
Co-creativity and brainstorming	Relationship building (with oustomers)	Teaming (including virtual teaming)	Collaboration	Oral and writter communication
48.3%	47.4%	44.9%	30.4%	29.0%
Global operating s	akilla.			
Ability to manage diverse employees	Understanding international markets	Ability to work in multiple overseds locations	Foreign language skills	Cultural sensitivity

### Thank you

Comments? silvija.seres@technorocks.com @silvijaseres