Design Strategy & Entrepreneurship CoID DS&E, MUO–E3032, Period III (3). 07.01—15.02. 2018 10 cr (270 h)

8



NALL DARK HARE NEED NEED NEED NEED NEED NEED NEED AND AND AND



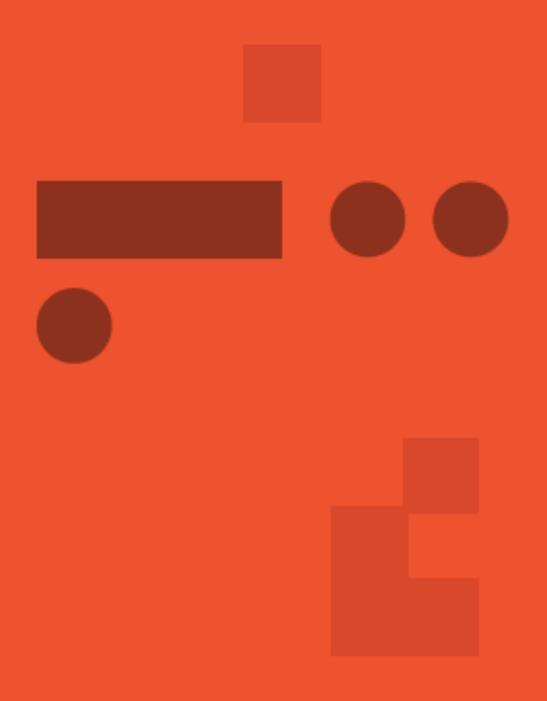
Design Strategy & Entrepreneurship CoID DS&E, MUO–E3032, Period III (3). 07.01—15.02. 2018

Learning Objectives & Anticipated Outcomes 10 cr (270 h)

identify, validate and persuasively communicate (through team-based exploration) the unique and complimentary role and value of design in enhancing innovation processes and entrepreneurial practices in startups & large corporations or organizations.



Design In Tech Report 2017



https://designintechreport.wordpress.com



John Maeda



Design Needs Design<u>ers</u>

66

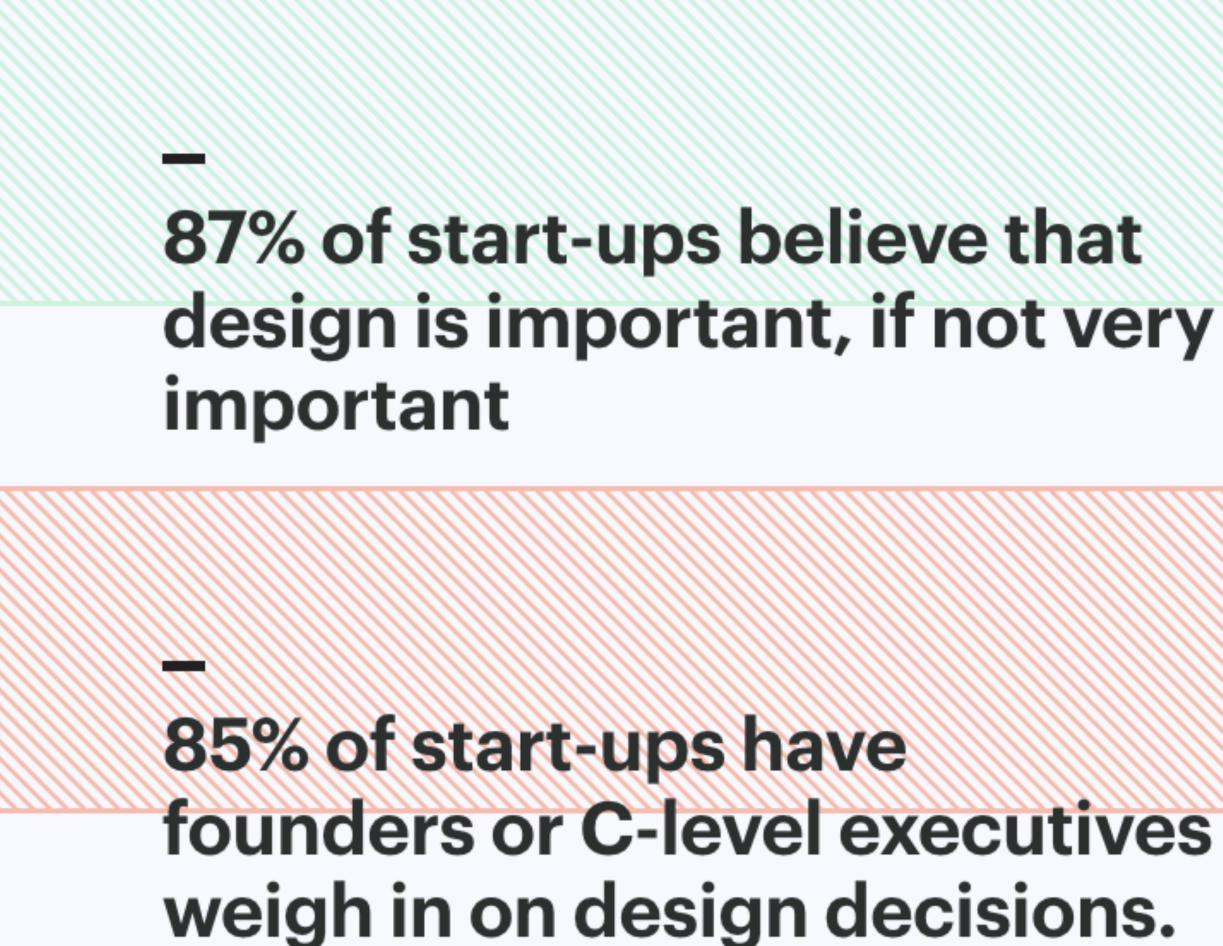
Capital is being superseded by creativity and the ability to innovate — and therefore by human talents – as the most important factors of production. If talent is becoming the decisive competitive factor, we can be confident that capitalism is being replaced by 'talentism'... -KLAUS SCHWAB Founder of the World Economic Forum \square

The Future of Design in Start-Ups

2016 SURVEY RESULTS



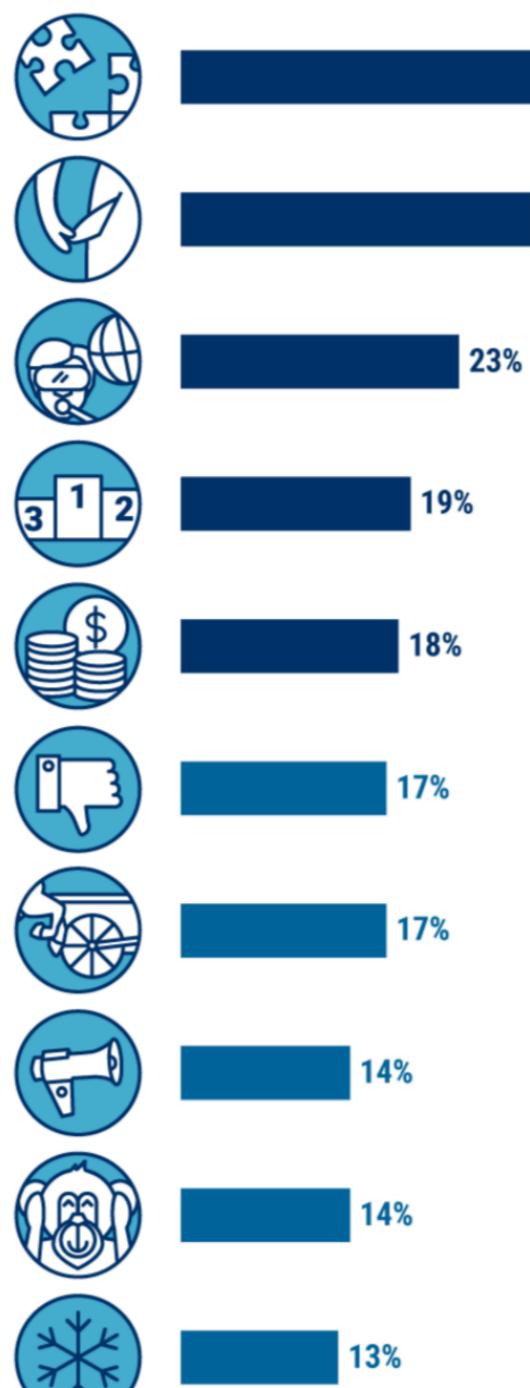




Everyone agrees that design matters

Top 20 Reasons Why Startups Fail

From lack of product-market fit to disharmony on the team, we break down the top 20 reasons for startup failure by analyzing 101 startup failure post-mortems



42%

29%

NO MARKET NEED

RAN OUT OF CASH

NOT THE RIGHT TEAM



GET OUTCOMPETED

PRICING / COST ISSUES

USER UN-FRIENDLY PRODUCT

PRODUCT WITHOUT A BUSINESS MODEL

POOR MARKETING



PRODUCT MISTIMED

Design Strategy & Entrepreneurship CoID DS&E, MUO–E3032, Period III (3). 07.01–15.02. 2018

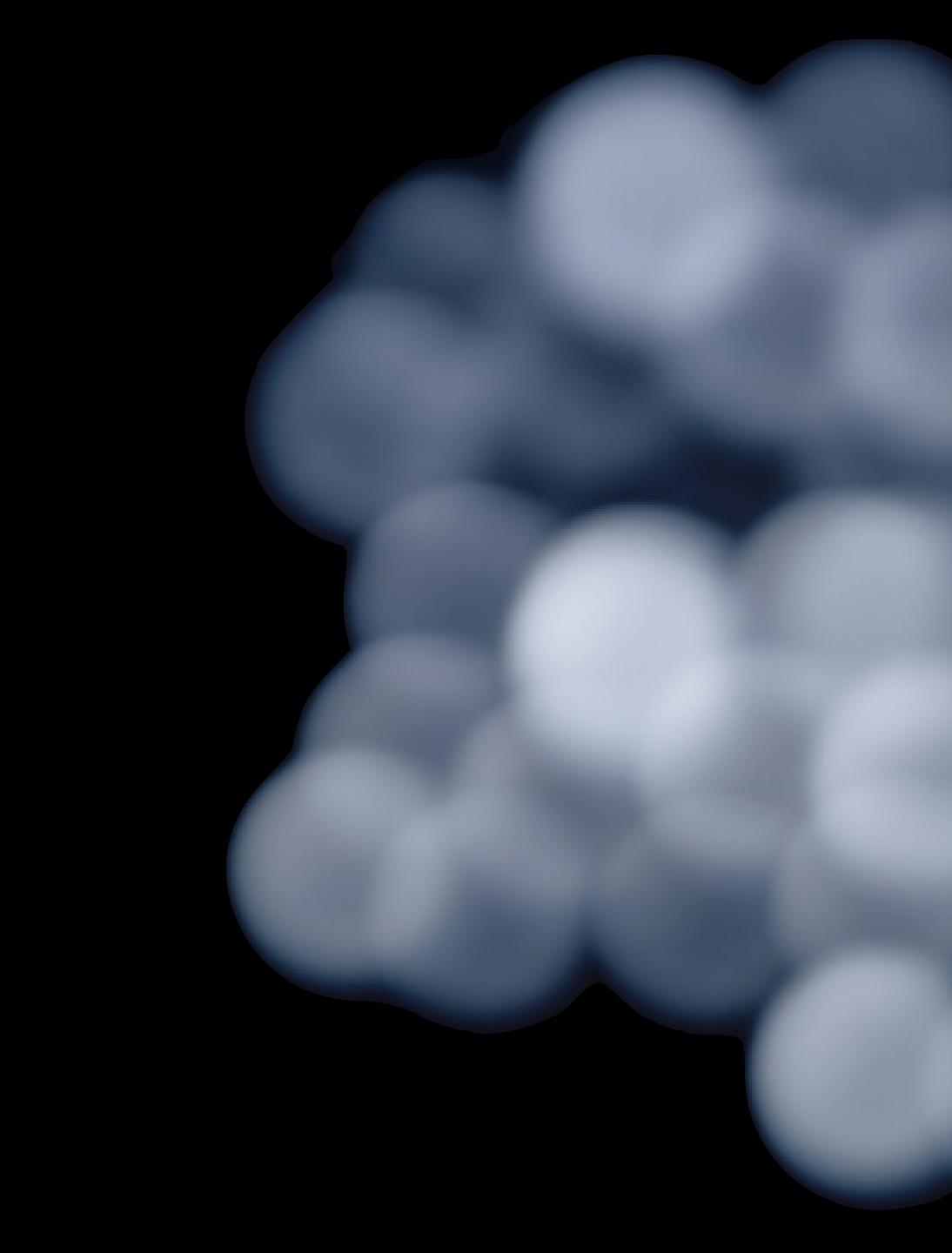
the project-based component of the course will focus primarily on exploring transformative opportunities within the sharing economy, with particular emphasis on the synergies to be gained through the strategic integration of products (hw+sw), services (se) & systems (sy).



SHARING ECONOMY

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SYSTEMIC INNOVATION & DESIGN

SYNERGY 4.0

Peter McGrory Director IDBM Programme @ Aalto ARTS

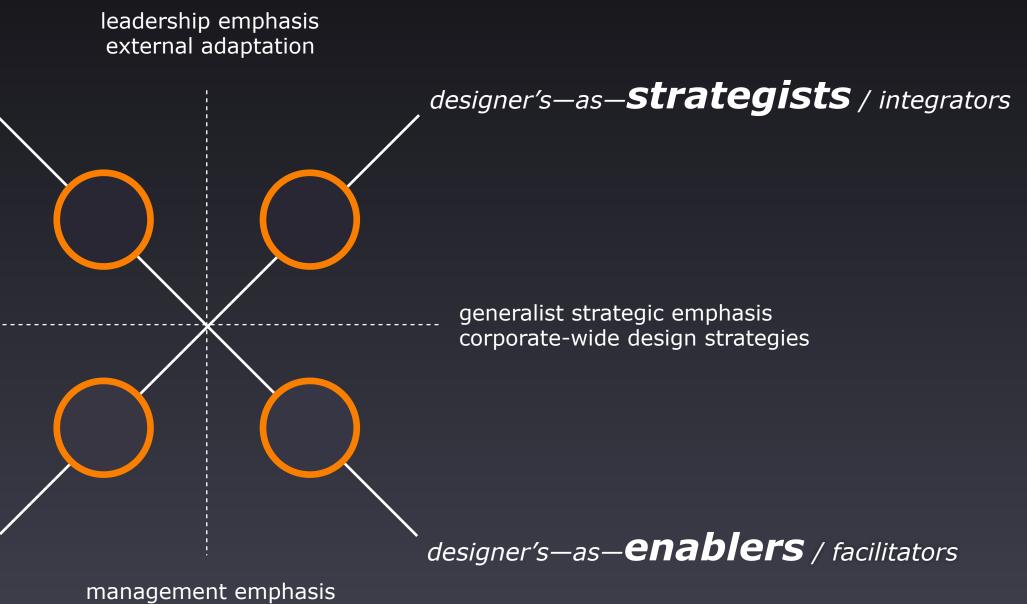
what is the role & value of design in enhancing innovation processes & entrepreneurial practices?

designer's—as—**differentiators** / communicators

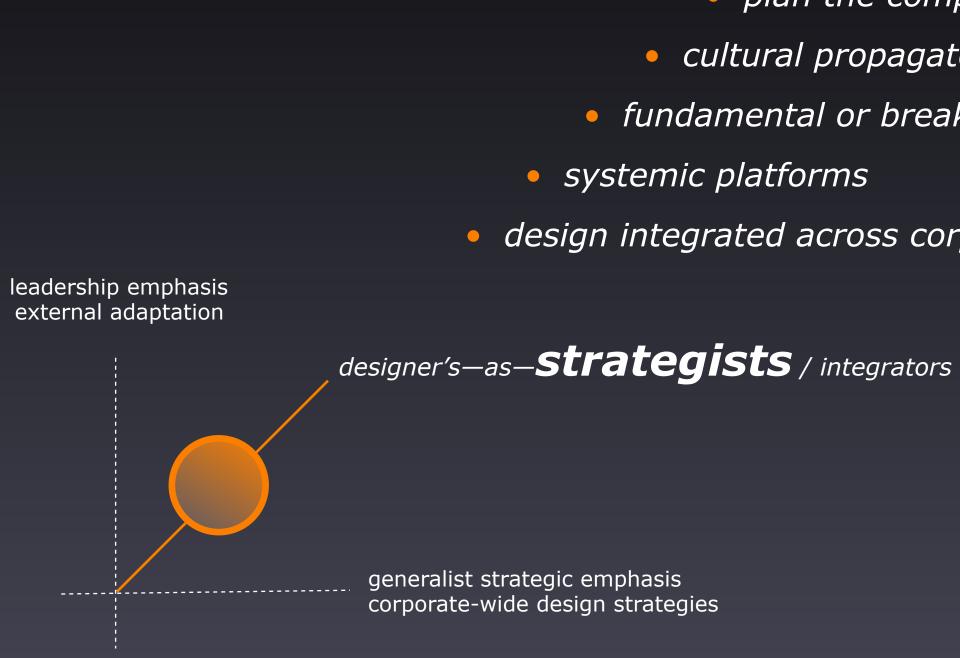
specialist operational emphasis product / product line design strategies

designer's—as—**implementers** / maintainers

corporate functions of design ...



internal integration



• strategic partners • plan the company's future • cultural propagator • fundamental or breakthrough innovation design integrated across corporate functions

form differentiation (unique forms) • cultural provocation / stimulators designers as stars / celebrities •

- many design awards •
- often independent (external) consultants •

leadership emphasis external adaptation

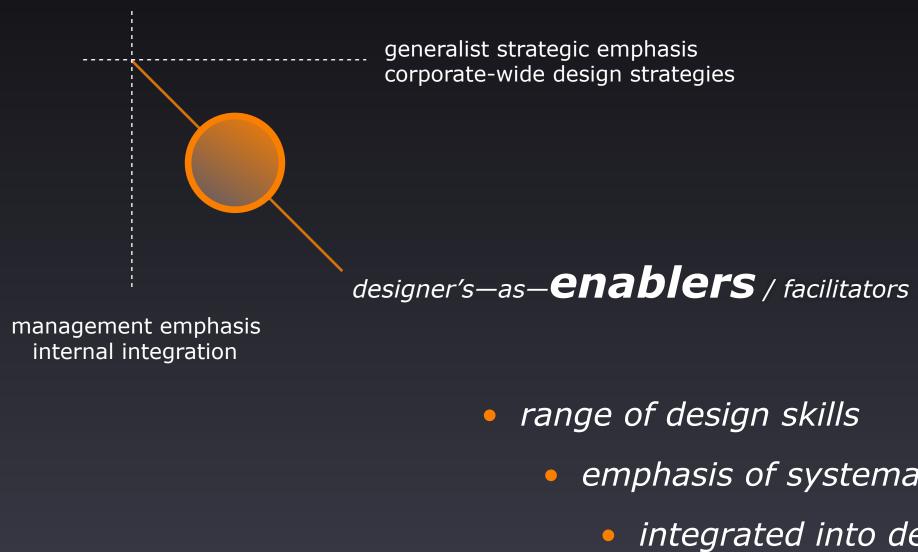
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designer's—as—**differentiators** / communicators

specialist operational emphasis product / product line design strategies

embellish the known (focus on derivative products) • carry out orders / instructions superficial form differentiation • short product life • leverage existing or known platforms •





• range of design skills

emphasis of systematic development

• integrated into development teams

• user-centred enabling approach

• products / standard platforms

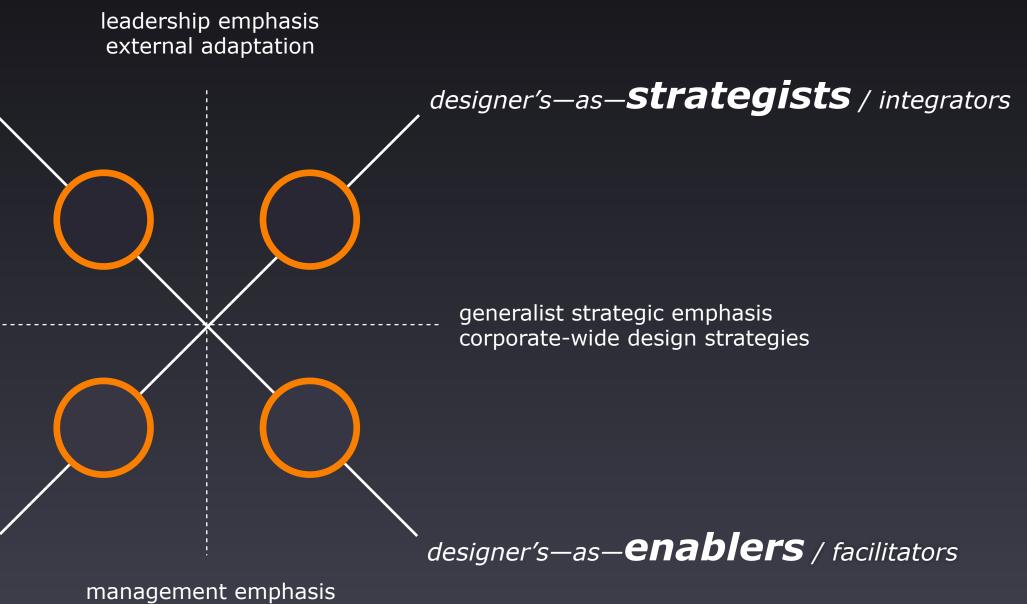
Heskett (1999); McGrory 2000

designer's—as—**differentiators** / communicators

specialist operational emphasis product / product line design strategies

designer's—as—**implementers** / maintainers

corporate functions of design ...



internal integration

Design Strategy & Entrepreneurship course sequence

- 1. Synergy 4.0
- 2. Sources & Streams of Insights & Ideas
 - 3. Different Strategic Approaches
- 4. Systemic Innovation & Integrated Platform Strategies





vision is the art of seeing what is invisible to others

Jonathan Swift (1667-1745)

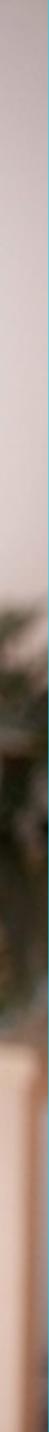
vision is the art of seeing what others don't

Gary Klein

vision is the art of seeing what others see and thinking what others don't

Albert Einstein



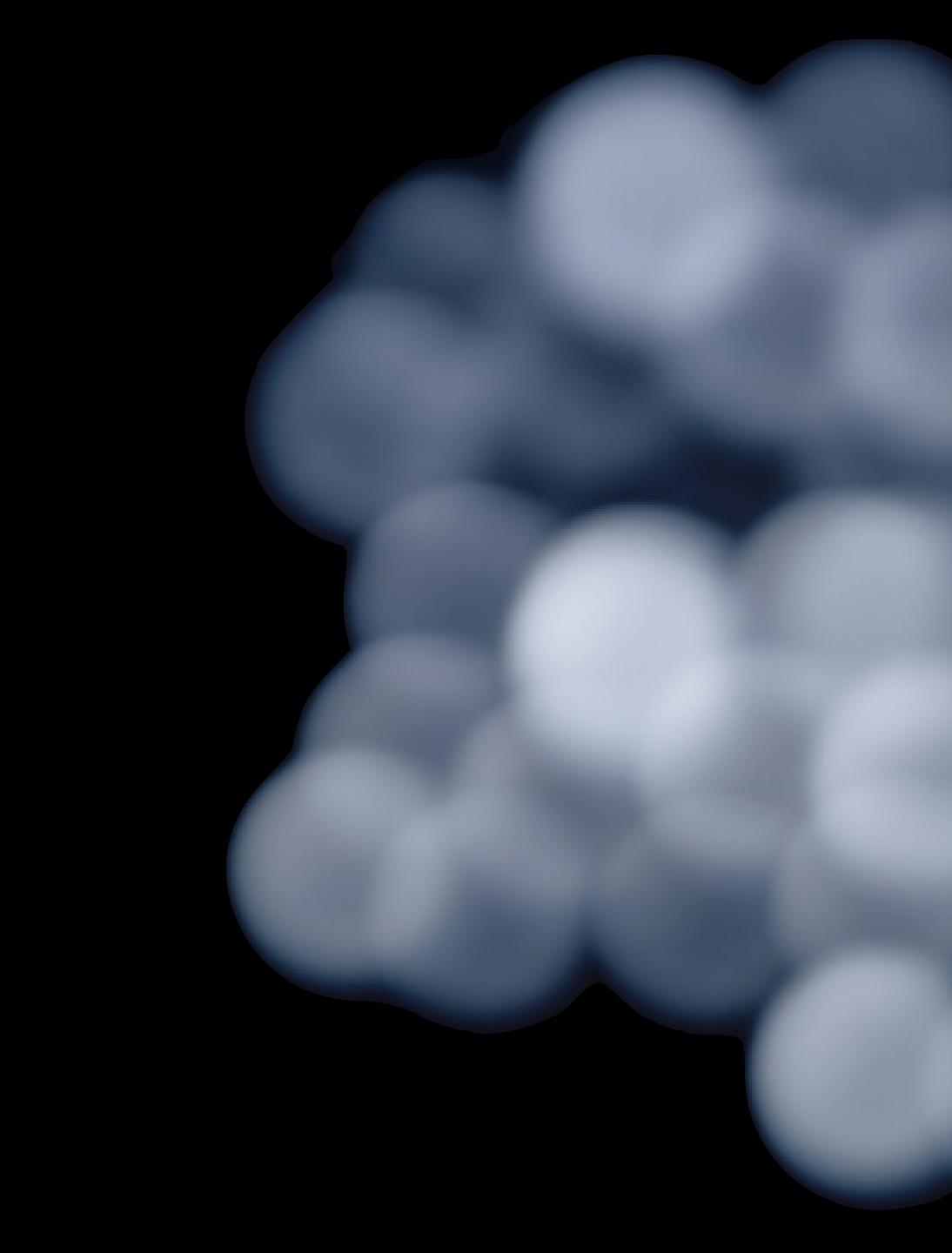


to act as society's visionaries and change agents

Aalto University _ Founding Mission

a world class university in the fields of technology, business and design by 2020

Aalto University _ Founding Vision



SYSTEMIC INNOVATION & DESIGN

SYNERGY 4.0

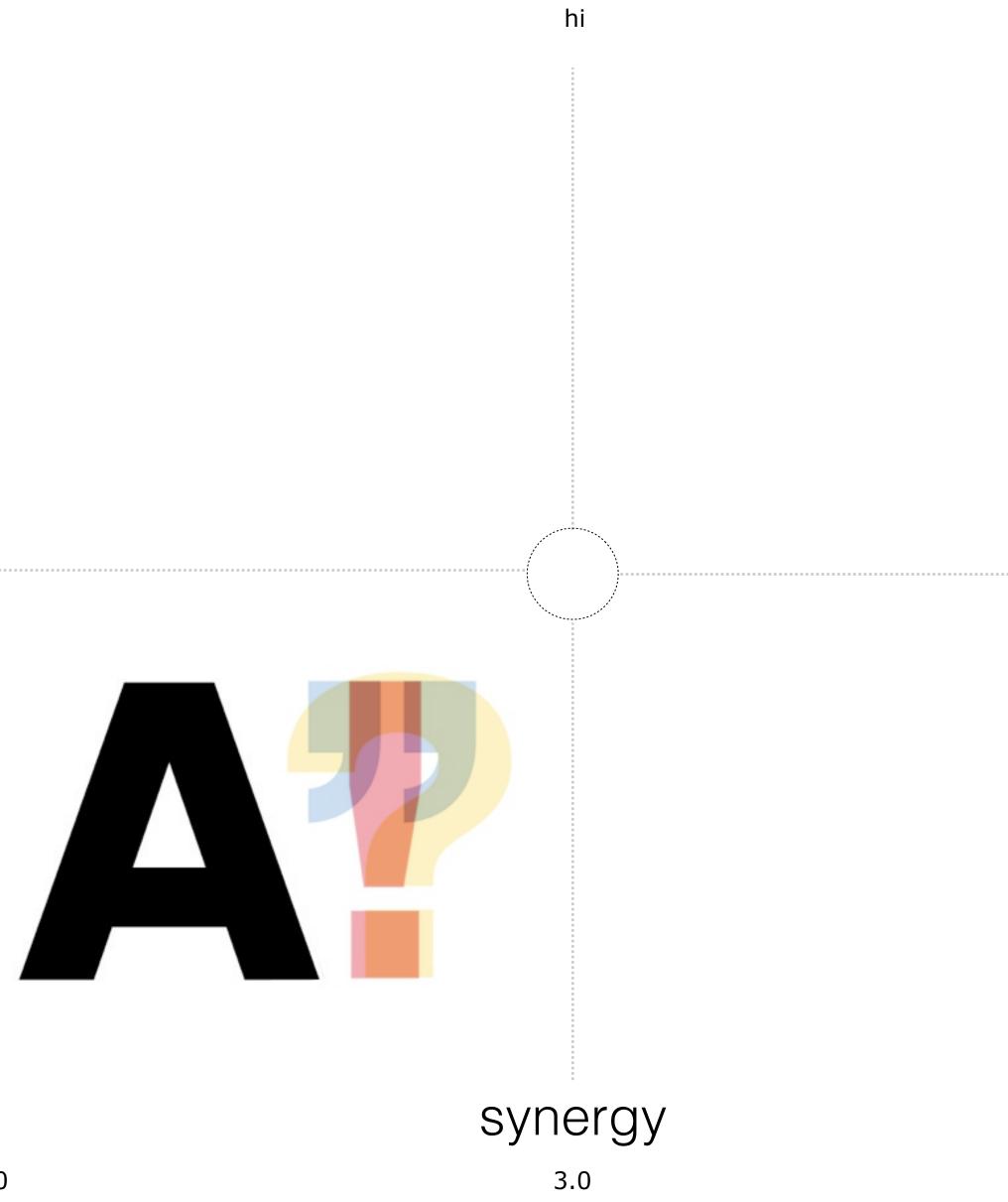
Peter McGrory Director IDBM Programme @ Aalto ARTS

innovation is essentially about the successful implementation and adoption of creative and imaginative (i.e., new, novel, better) insights and ideas that have (reciprocal) value.

synergy the whole being greater than the sum of its individual constituent parts 1+1= greater than 2.

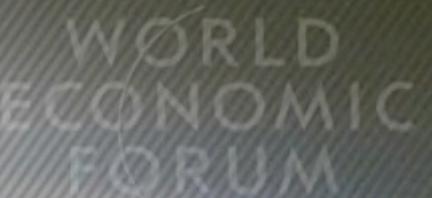
significance

SUCCESS

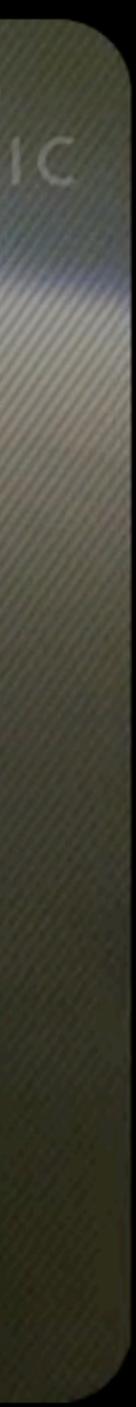


survival

hi



SYNERGY 4.0 CONTEXT



INDUSTRY 1.0

the first industrial revolution brought mechanical innovations like the steam engine, cotton spinning and railroads

INDUSTRY 2.0

the second industrial revolution brought mass production through assembly lines and electrification.

INDUSTRY 3.0

the third industrial revolution brought mainframe computing, personal computing and the internet.

INDUSTRY 4.0

today, radical system-wide innovation can happen in only a few years. the interplay between fields like nano technology, brain research, mobile networks and computing will create realities that were previously unthinkable.

1874

1785

1971

2016



DAVOS 2016: TECHNOLOGY TAKES CENTRE STAGE

Alex Katsomitros, The European Magazine, World Economic Forum 2016

"everyone agreed that technology would continue to shape everything, although exactly how seemed to divide the room"

"there is a win-win for business and society if we look beyond immediate commercial gain in favour of long-term value creation"

Mark Spelman, co-head, Future of the Internet Initiative, World Economic Forum 2016

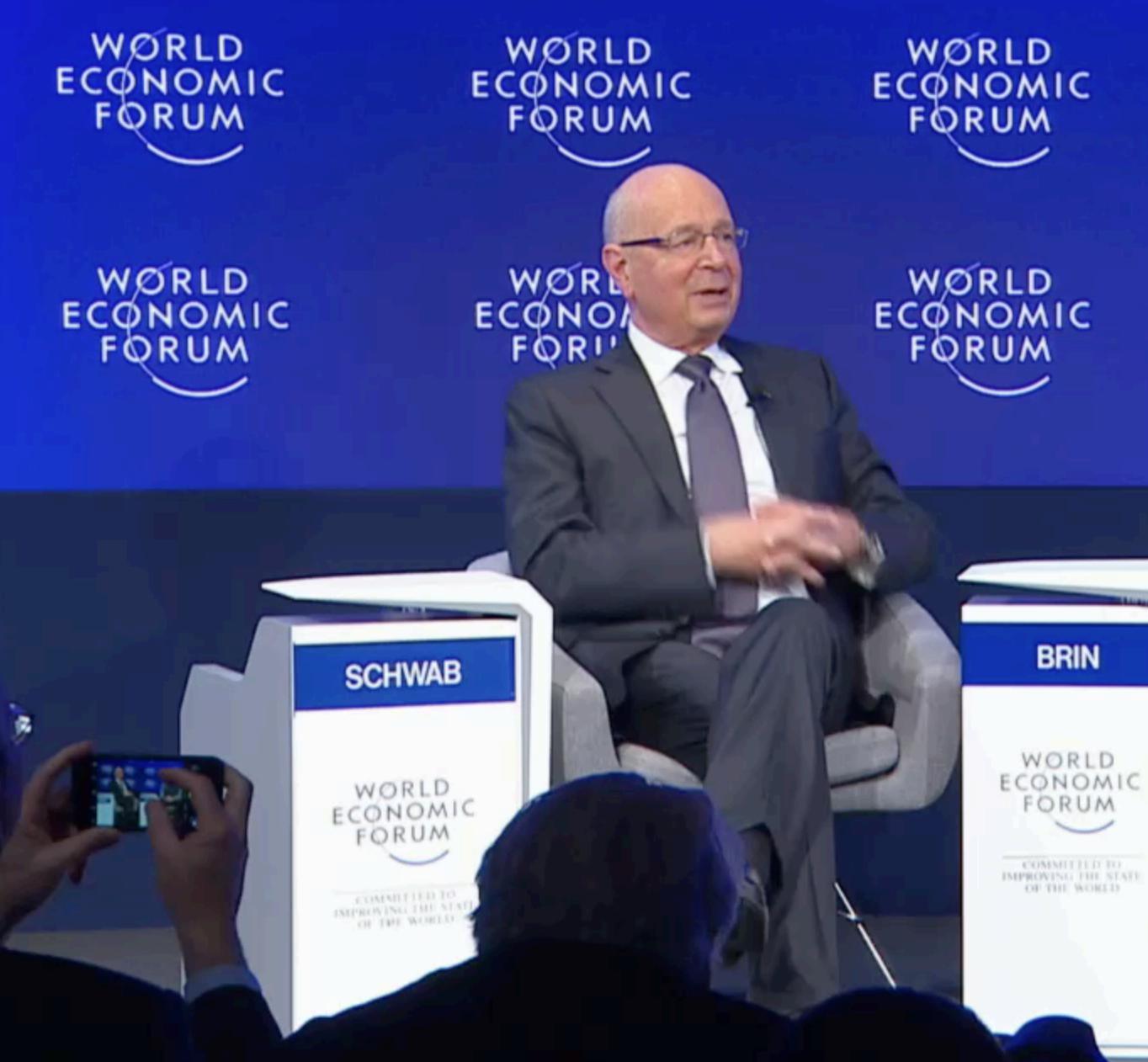
"what we need is more **empathy** we need it wired into our **systems**, programmed into our brains"

Anand Mahindra, Chairman and Managing Director, Mahindra & Mahindra, World Economic Forum 2016.





DAVOS 2017

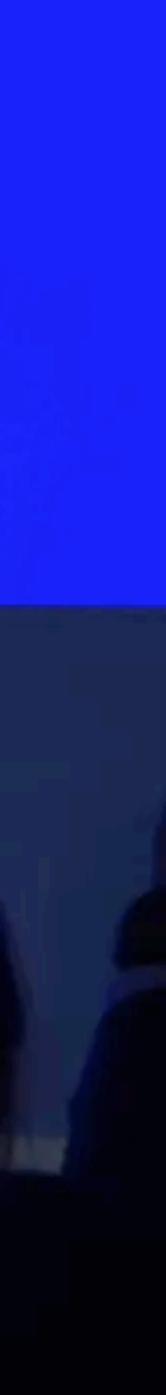


WORLD ECONOMIC FORUM













DAVOS 2018

"we need to break the cultural silos. too often people put science and the humanities, or science and the arts, in different silos. they are the highest expression of the curiosity and creativity of humanity"

> Fabiola Gianotti, Particle Physicist and the Director General of CERN World Economic Forum 2018

"if we do not change the way we teach, 30 years from now, we're going to be in trouble"

"children should be taught soft skills like independent thinking, values and teamwork."

Jack Ma, Founder of the Alibaba Group (China's e-commerce giant). World Economic Forum 2018

"we need to understand the importance of soft skills, creative skills, research skills, the ability to find information, synthesise it, and make something of it."

Minouche Sharif, Director of the London School of Economics. World Economic Forum 2018



DAVOS 2020: SYNERGY 4.0 TAKES CENTRE STAGE

SYNERGY 4.0

SYNERGY 1.0

disciplinary and intra-disciplinary perspective dominant emphasis: co-ordination / knowledge intensification

to know

SYNERGY 2.0

multi-disciplinary perspective dominant emphasis: co-operation / knowledge amplification

SYNERGY 3.0

inter-disciplinary perspective dominant emphasis: collaboration / knowledge integration

to imagine

SYNERGY 4.0

trans-disciplinary perspective dominant emphasis: deep and transformative collaboration and systemic integration of knowledge / collective imagination

SYNERGY 4.0 imagination is more important than knowledge

for knowledge is limited to all we know and understand, while imagination embraces the entire world, and all there will be to know and understand.

Albert Einstein

SYNERGY 4.0 GENERATIVE LEARNING

a style of learning that encourages experimentation, risk-taking, openness, and system-wide thinking.

SYNERGY 4.0 **TRANS-DISCIPLINARY**

Lawrence, R.J. & Després, C., 2004. Futures of Trans-disciplinarity. Futures, 36 (4), pp.397–405.

focus is on the mobilisation of knowledge around complex heterogeneous domains (i.e., sectors, systems and cultures) rather than the disciplines and subjects into which knowledge is commonly organised.

Resilience over strength

Systems over objects

Disobedience over compliance

THE PRINCIPLES

Pull over push Risk over safety

Compasses over maps Practice over theory

Emergence over authority Learning over education