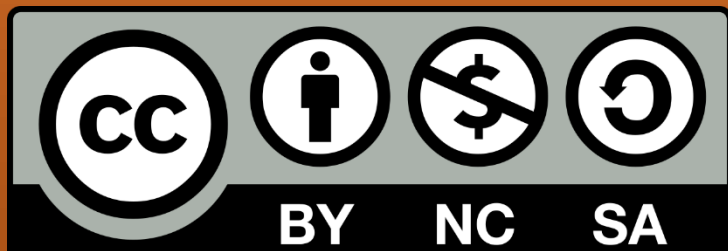


Grappling with change: A clear about-turn to survive?

Aldert Kamp | NORDTEK | Aarhus | August 18, 2023



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4 Provocative questions

1. How do you foresee your university in 20 years' time?

2. What exactly is the purpose and nature of your education?

3. Do you know why the knowledge in your programme is so important and what students actually gain from engaging with that knowledge?

4. Do you know what a young person must learn to lead a responsible and successful life in this rapidly changing world?

Engineering university today *a technology hub*

SOCIETAL CONTEXT

Technology-centred society

Front-loaded educational life

Qualifications-based labour market

UNIVERSITY EDUCATION

Curated curricula

Content driven

Discipline-focused

UNIVERSITY ROLES

Knowledge discovery and transfer

Input and direction to public debate

Human capital development for
economic growth and prosperity

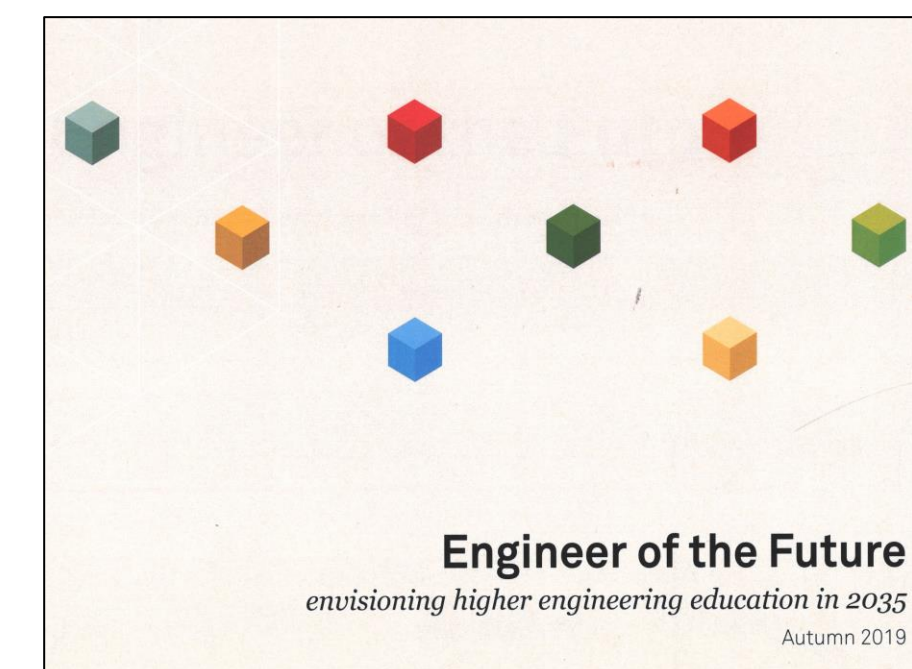
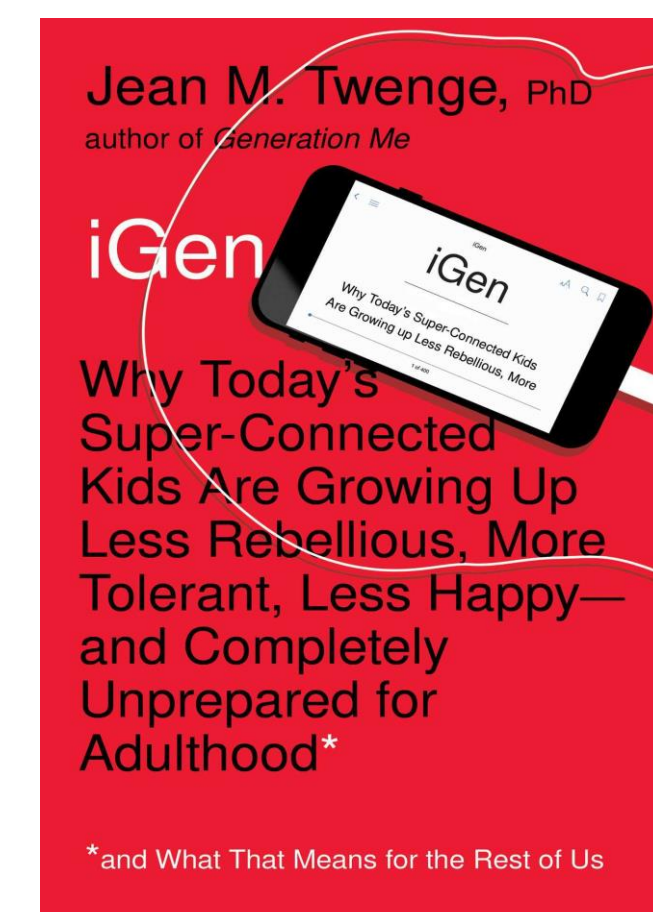
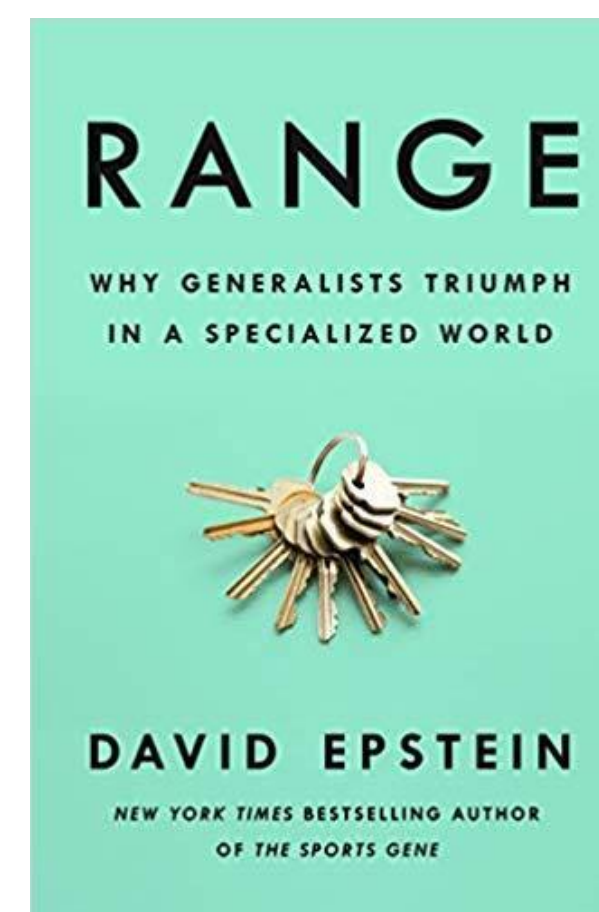
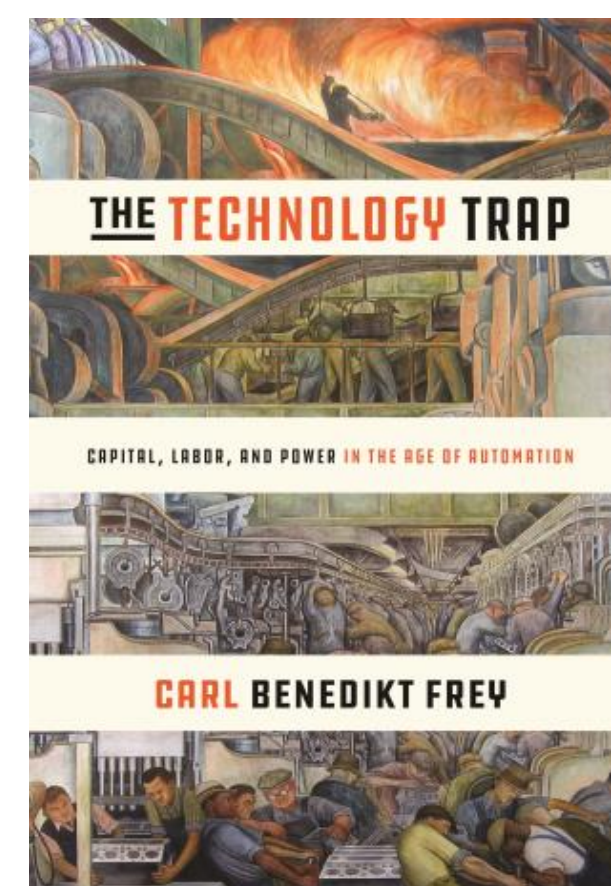
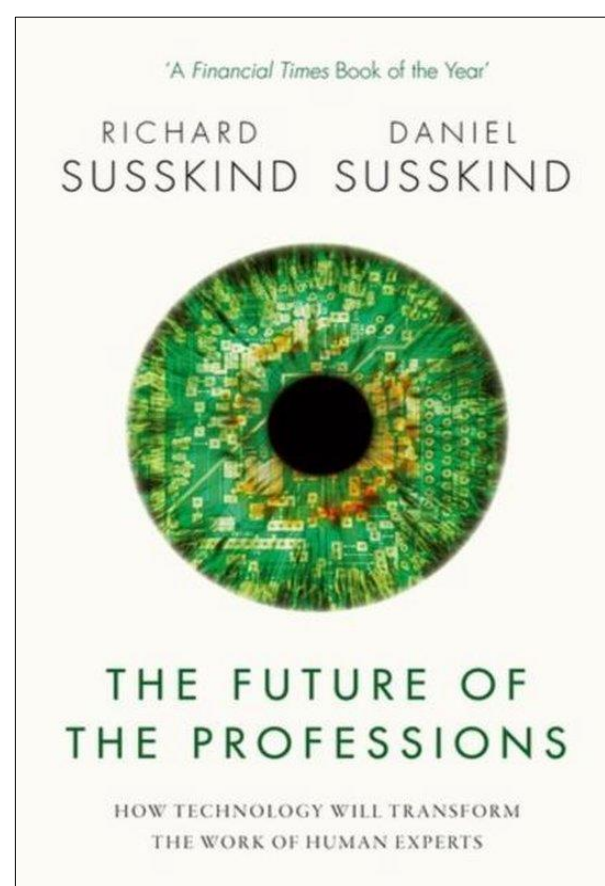
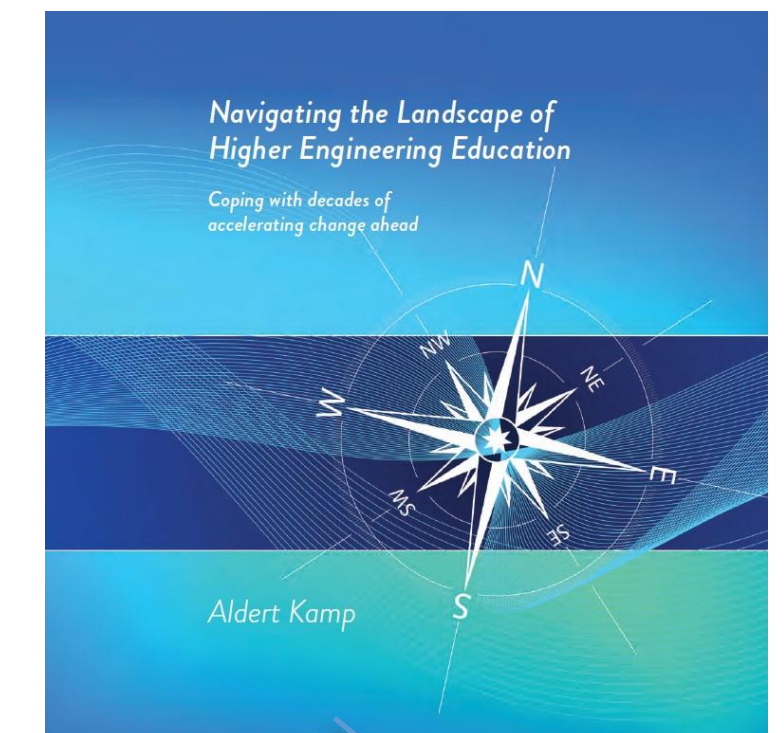
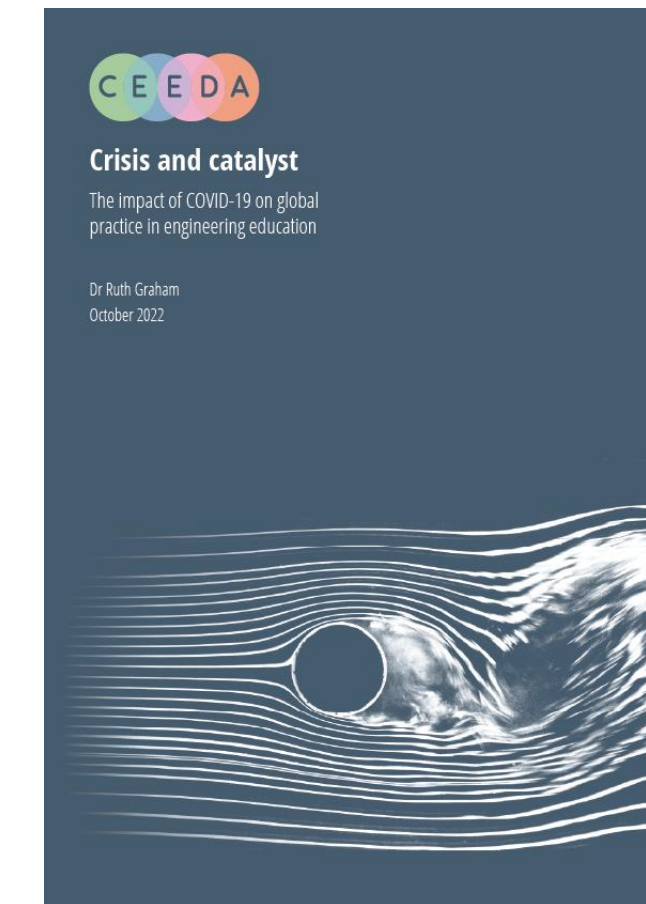
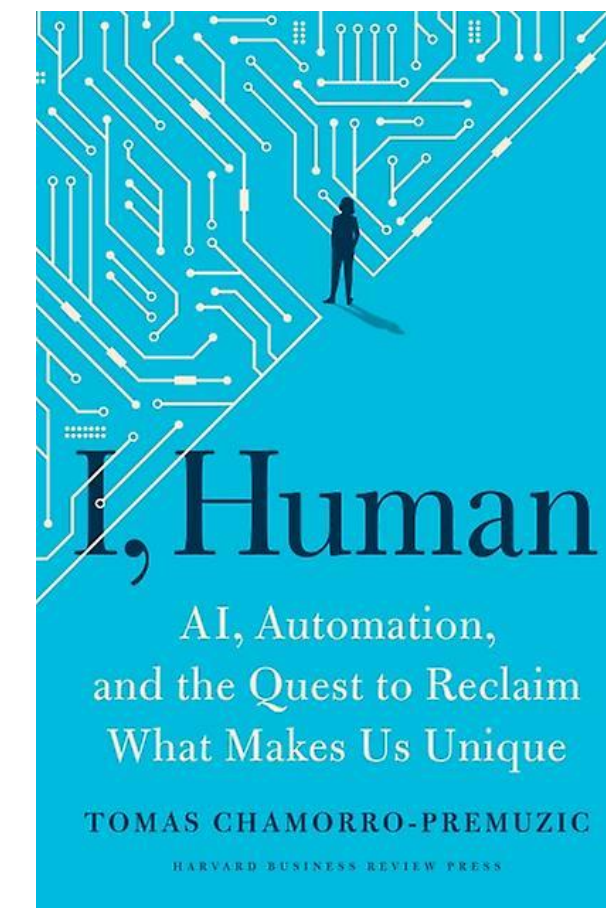
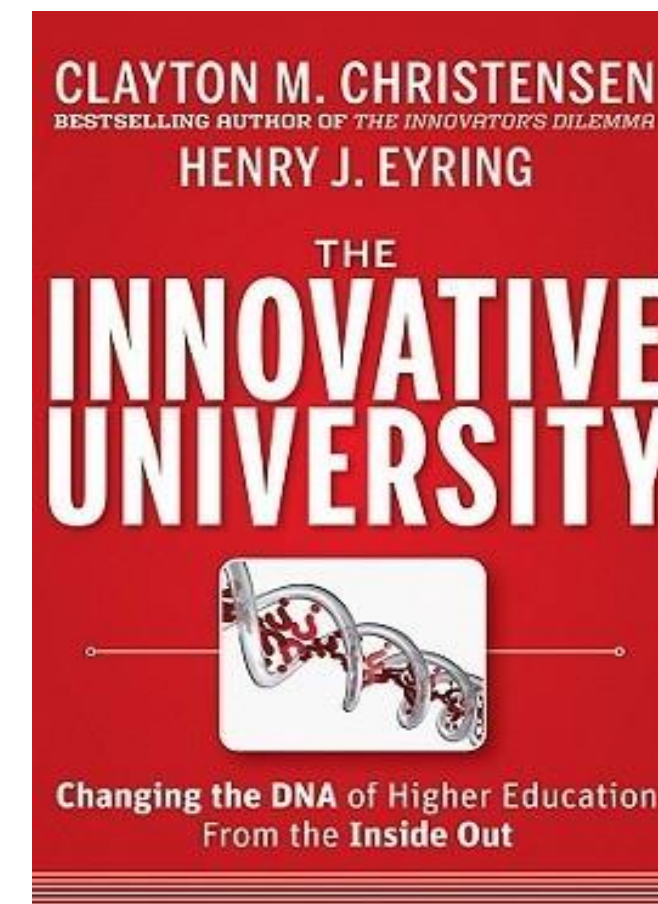
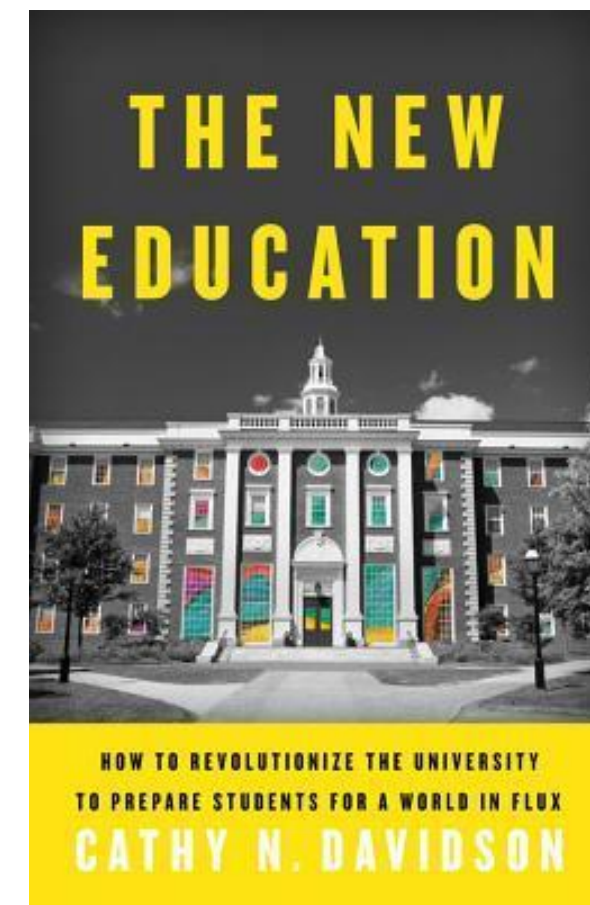
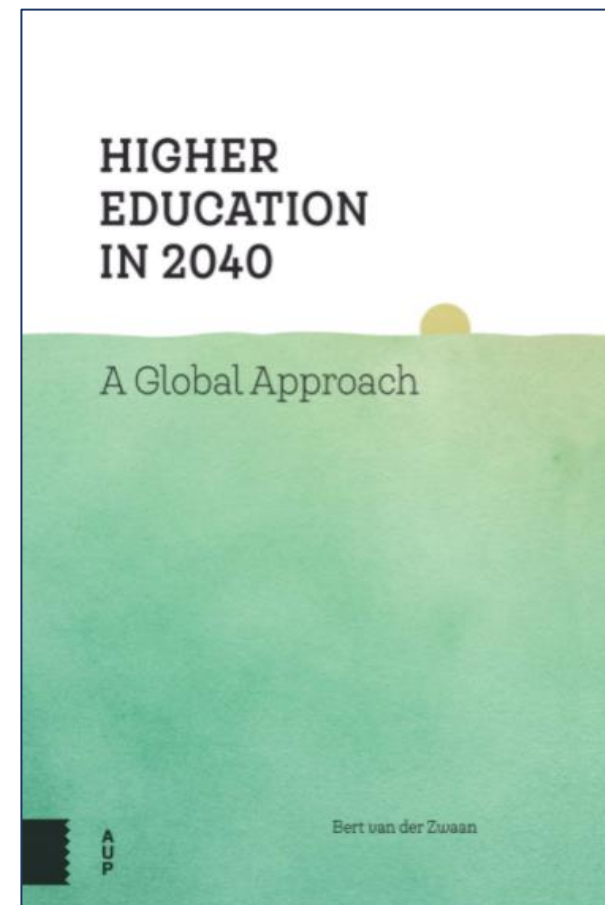
UNIVERSITY PROCESSES

Efficiency

Massification

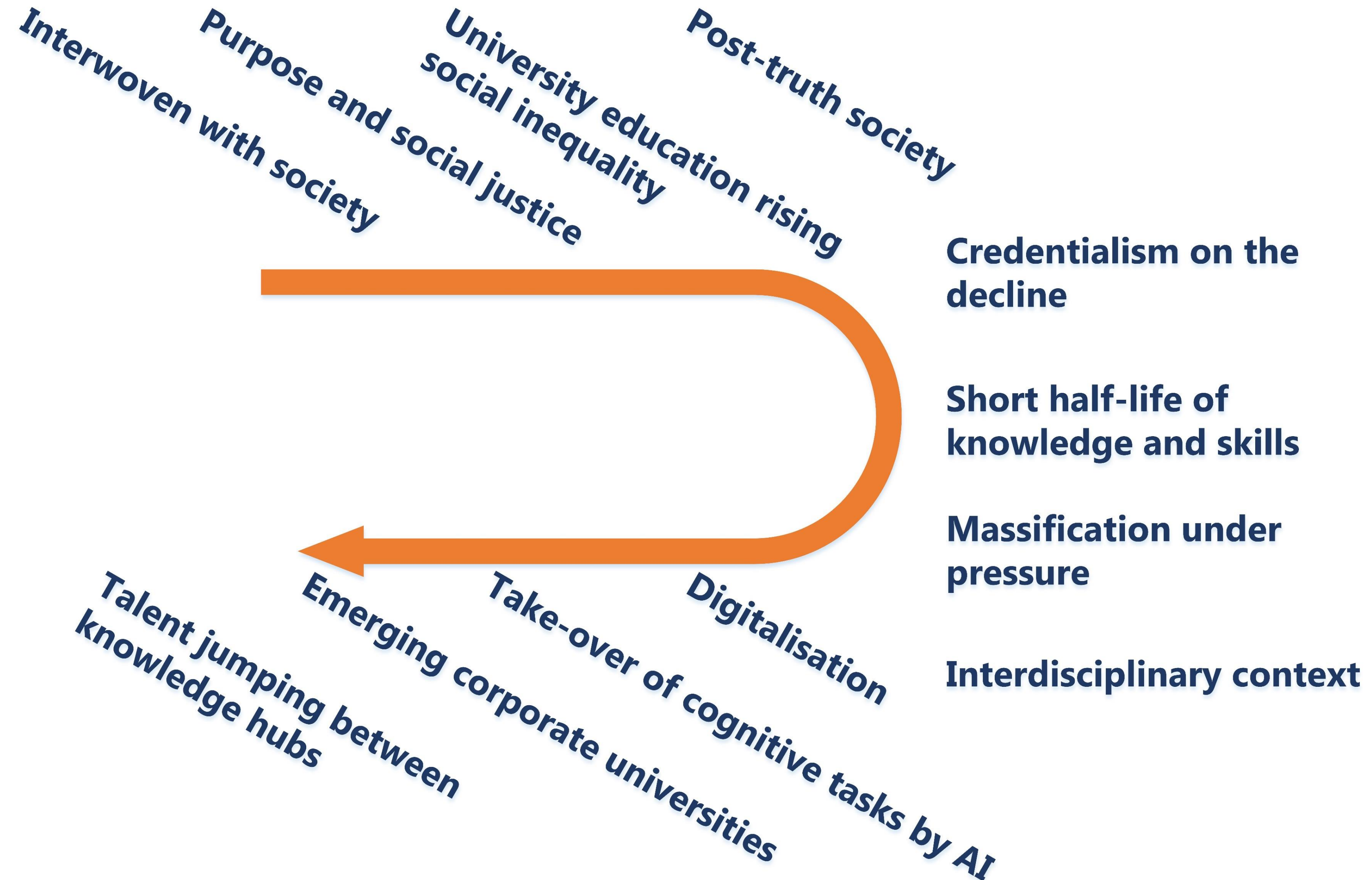
Academic excellence through
expert knowledge

Interesting reads to open your mind



Available at
www.aldertkamp.nl
and TU Delft Open

The great reversal



Is university education doing the right thing?

*It is so much easier to educate students for our past
than for their future*

Are you flexible enough to adjust to change?

Consequences for university education





- Shift to human value
- Need for range
- Skills-first approach
- What can humans do better dan AI?

Businesses' top-10 skills priorities 2027



- | | |
|--|--|
| 1.  Analytical thinking | 6.  Curiosity and lifelong learning |
| 2.  Creative thinking | 7.  Technological literacy |
| 3.  AI and big data | 8.  Design and user experience |
| 4.  Leadership and social influence | 9.  Motivation and self-awareness |
| 5.  Resilience, flexibility and agility | 10.  Empathy and active listening |

Type of skill

 Cognitive skills
  Self-efficacy
  Technology skills
  Working with others

Source

World Economic Forum, Future of Jobs Report 2023.

Note

The skills which organizations will prioritize in workforce development initiatives from 2023 to 2027

Consequences for university education (cont.)

- Shift to human value
- Need for range
- Skills-first approach
- What can humans do better than AI
- Alternative qualifications
- Personalised learning paths
- Diversity in teaching and learning

Imagining a metamorphosis

When people talk about the future, they tend to pinpoint a few big trends and then try to relate those ideas to those trends in isolation.

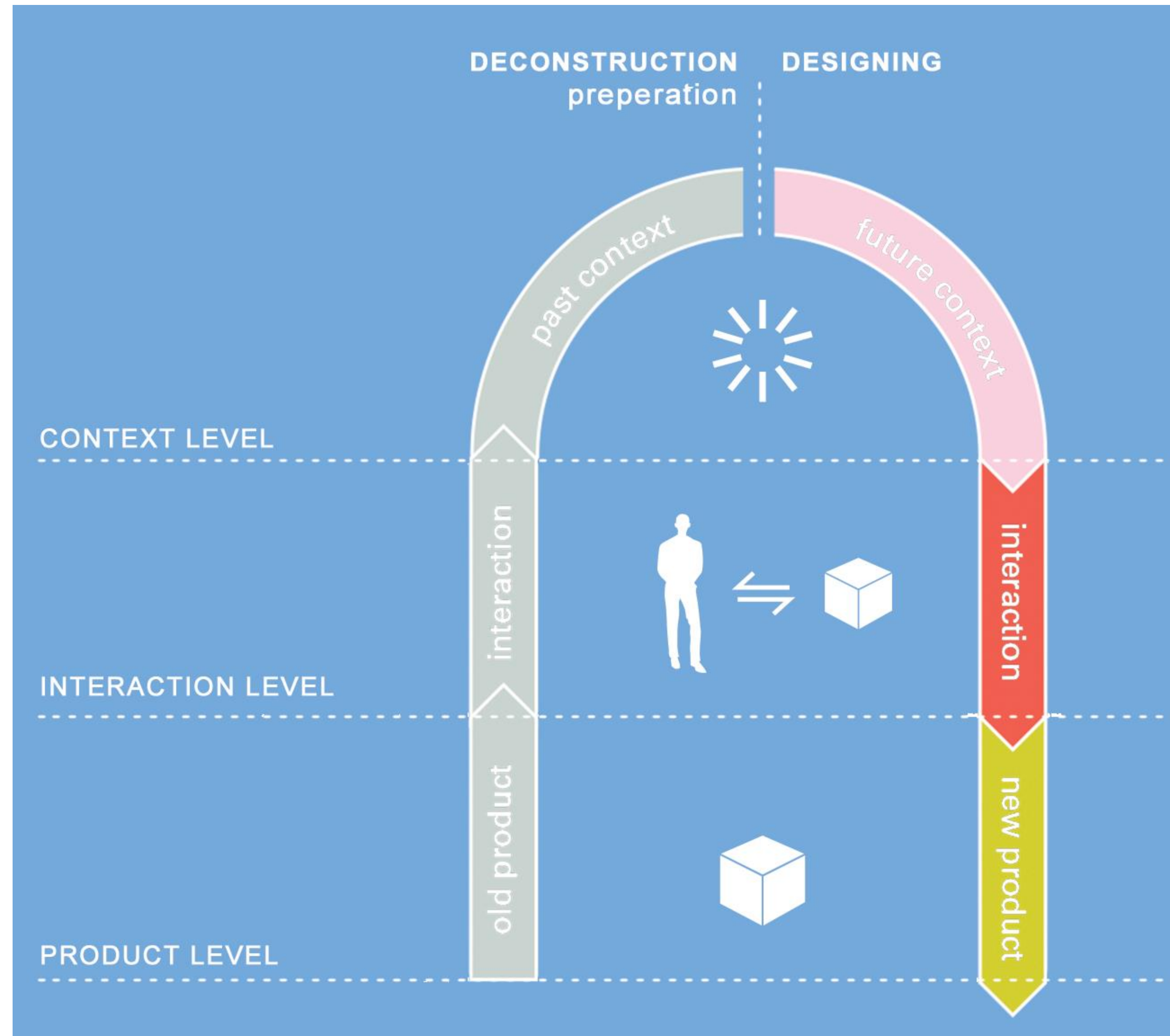
*But to develop a new frame of reference for how your university can manifest itself **20 years** from now*

you have to try and understand the coherence between everything

Vision in Product Design (ViP)



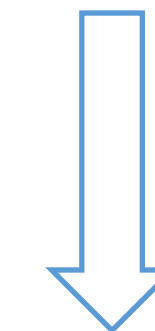
A guidebook for innovators



- Context-driven



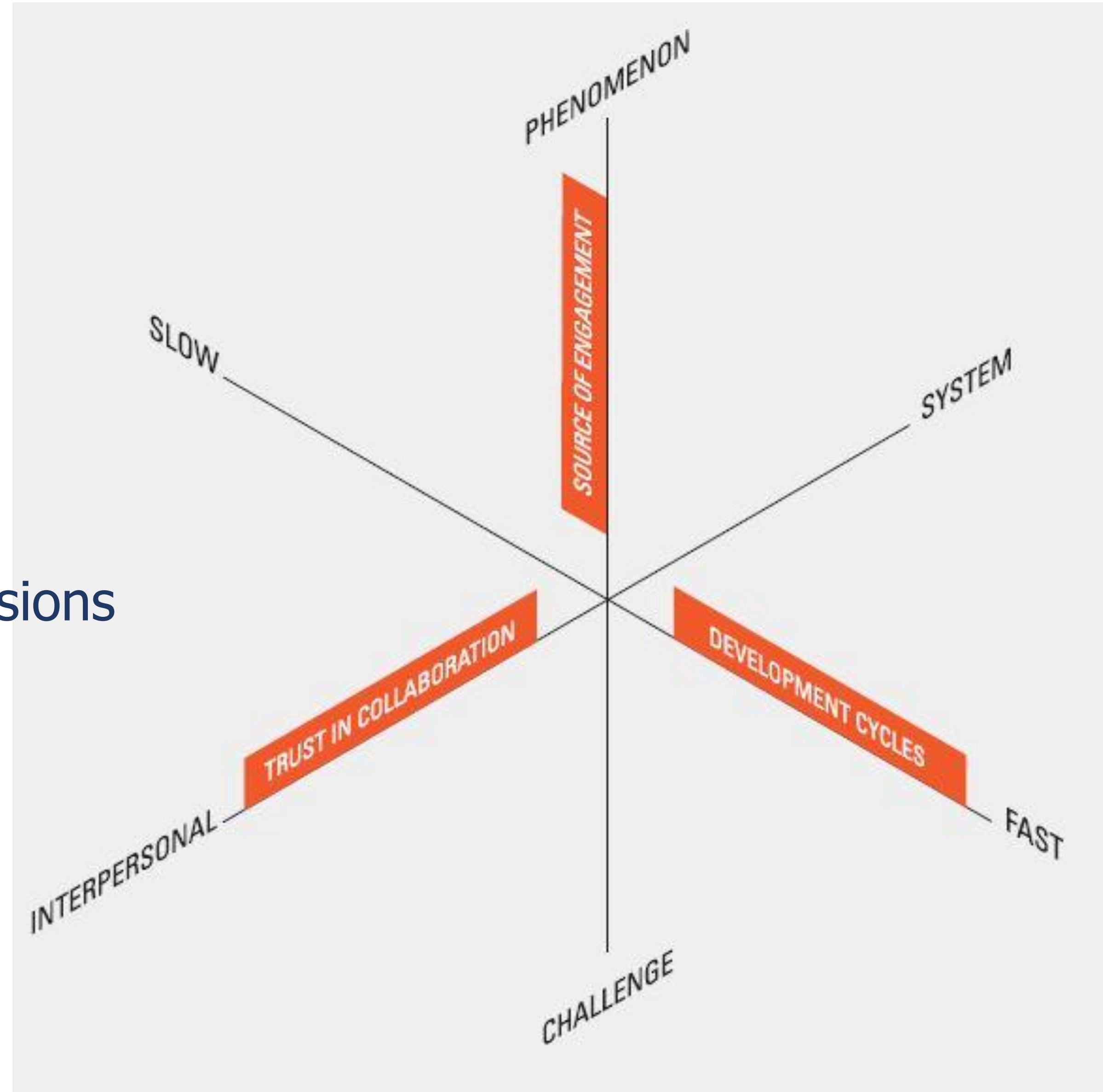
- Human-centred



- Future-fit

A metamorphosis of how to organise future engineering education

Three **RGB** dimensions



Source: Engineer of the Future (2019)
4TU.Cetnre for Engineering Education,
Reframing Studio,

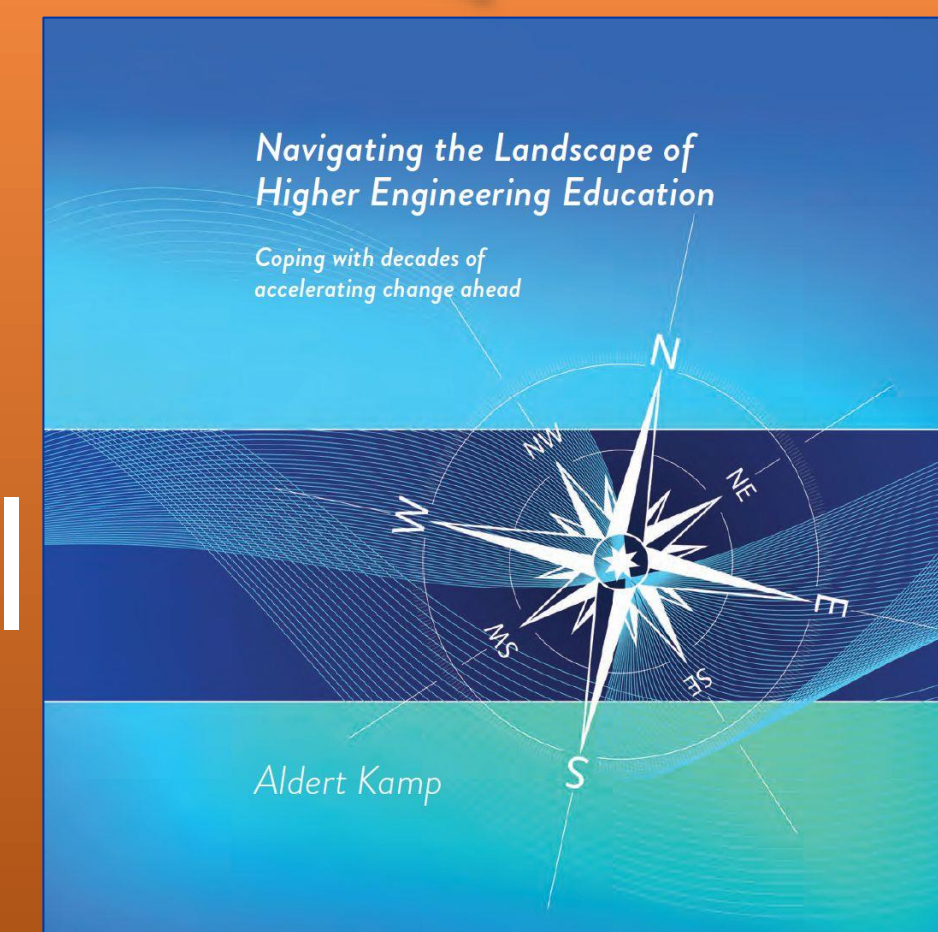
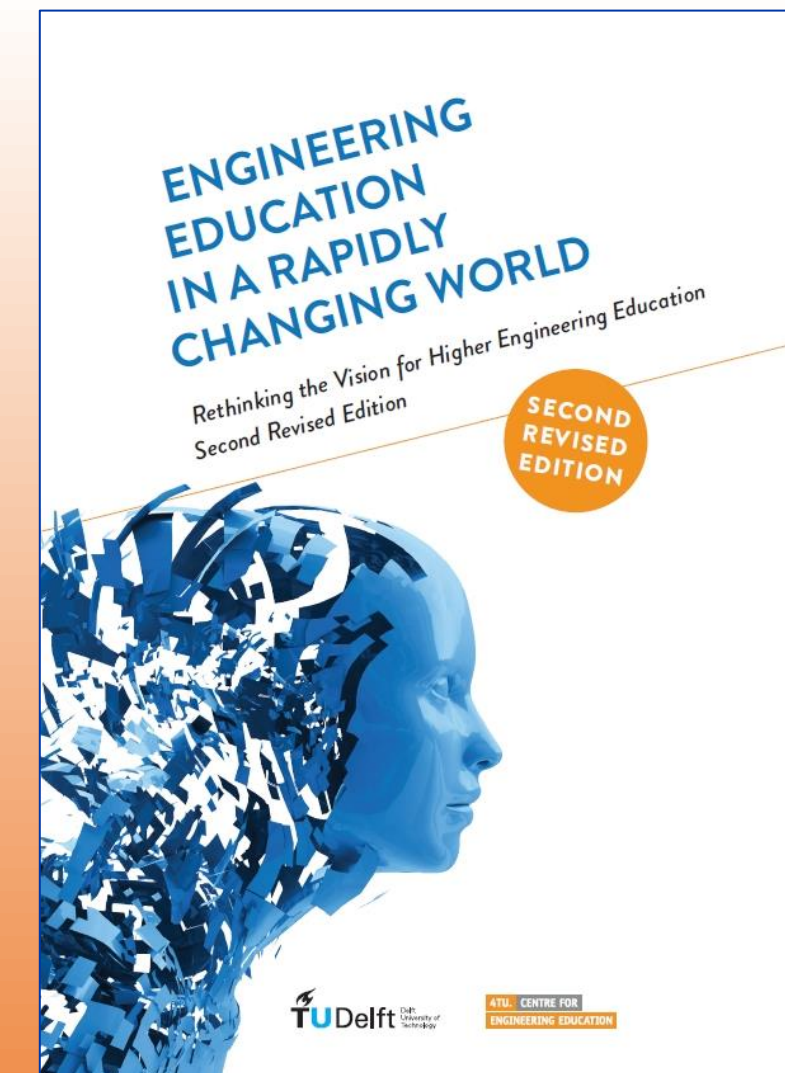
Takeaways

- **ACCELERATING CHANGE**
Digitalisation, Sustainability, Changing user needs
- **A GREAT REVERSAL**
- **PARADIGM SHIFT FROM TECHNOLOGY HUB TO HUMAN VALUE**
- **TIME AND COURAGE TO REFLECT AND ASSESS THE MASSIVE IMPACT**
- **UNDERSTAND THE COHERENCE BETWEEN EVERYTHING**
- **REFRAME YOUR ENGINEERING UNIVERSITY**
 - Vision on future context
 - Interaction- and Human-centred
 - Future-fit

Read more about future higher education

www.aldertkamp.nl

- Free downloadable books
- Keynote video recordings
- PowerPoints (some with voice-over)
- Reports
- Papers
- Blogs



Email: me@aldertkamp.nl

