



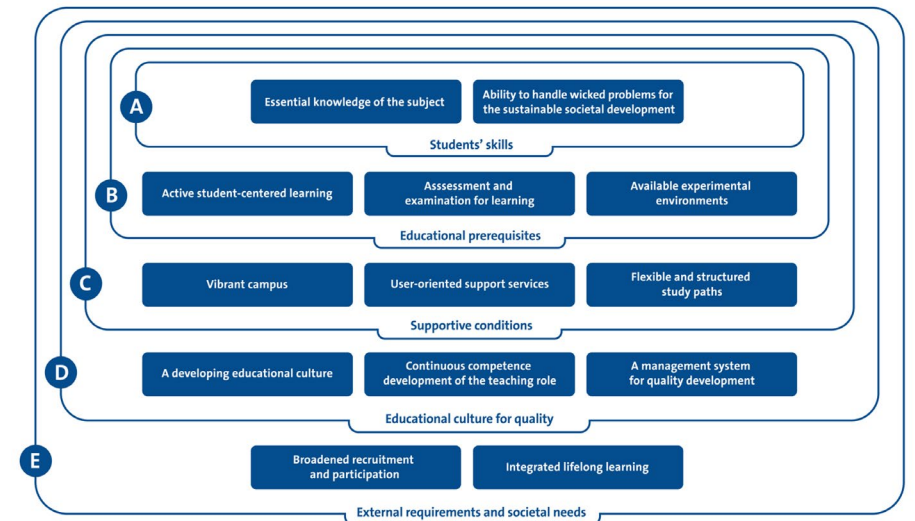
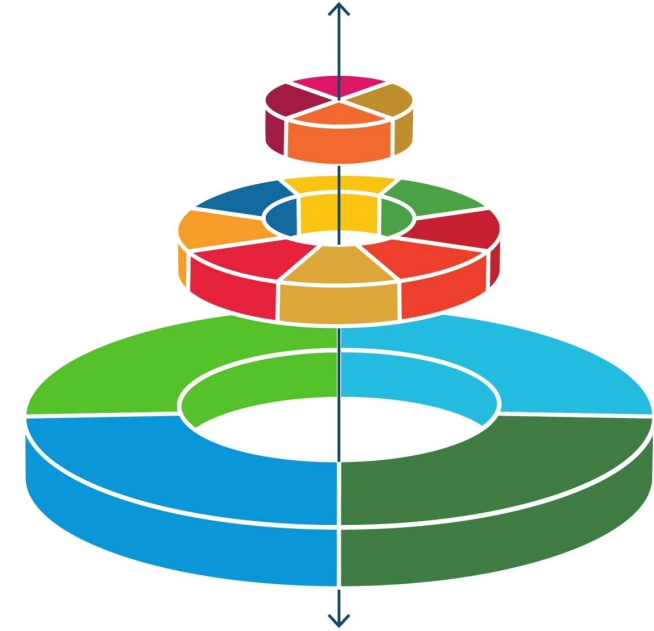
Future Education at KTH

Per Fagrell

2023-10-20

Future Education at KTH

Future Education at KTH is a change programme with a framework that will help us to be proactive and structure our development work of KTH's education based on a long-term holistic perspective .



Why now? – Everyone is already worn out from the pandemic situation

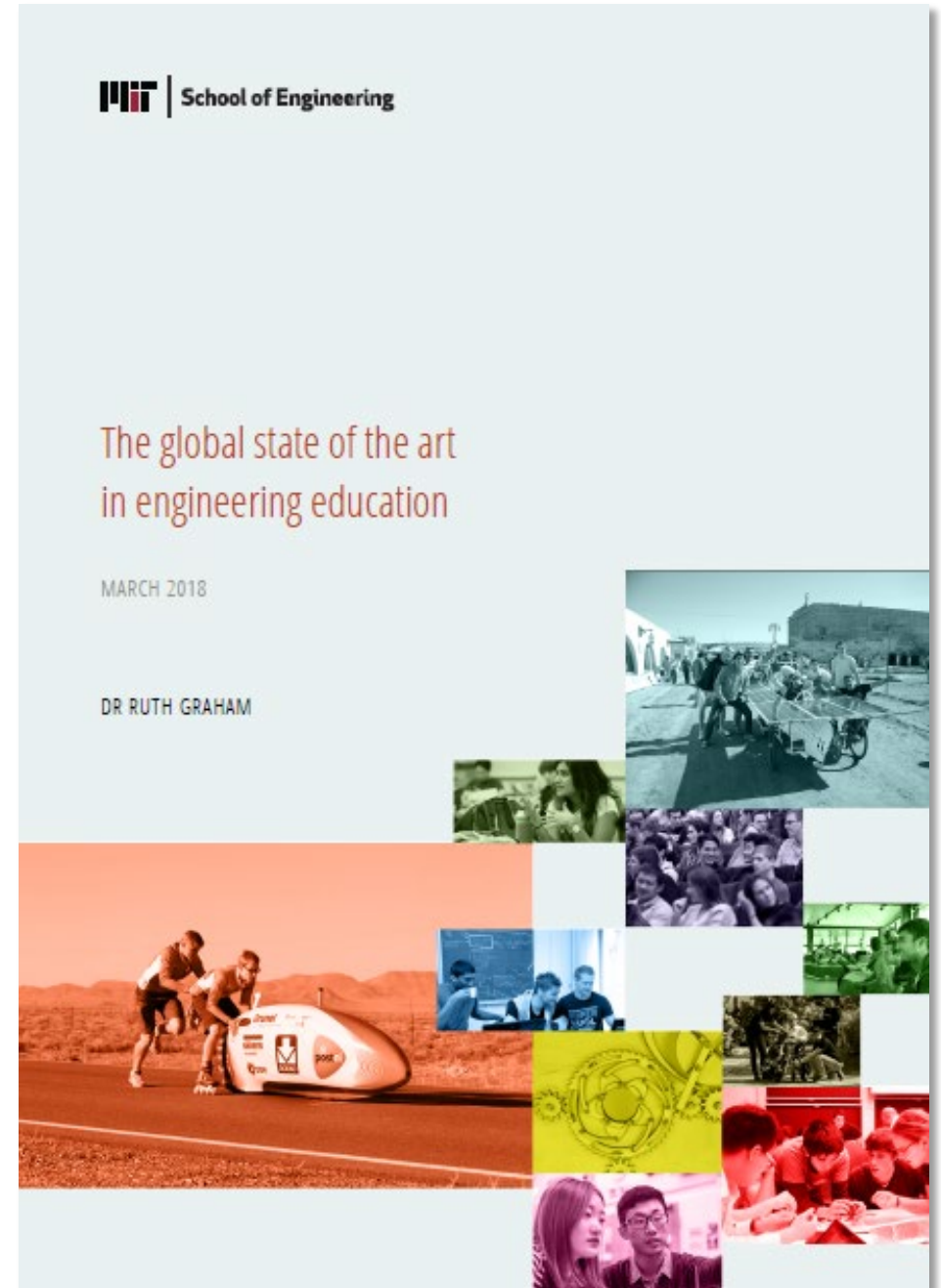


- Major societal challenges and changes
- Changed behaviour among students
- ...and teachers

- We need to continuously improve in order to be relevant for the society
- We want to build on things we developed during the pandemic
- We see that other universities that we want to compare us with are doing the same thing

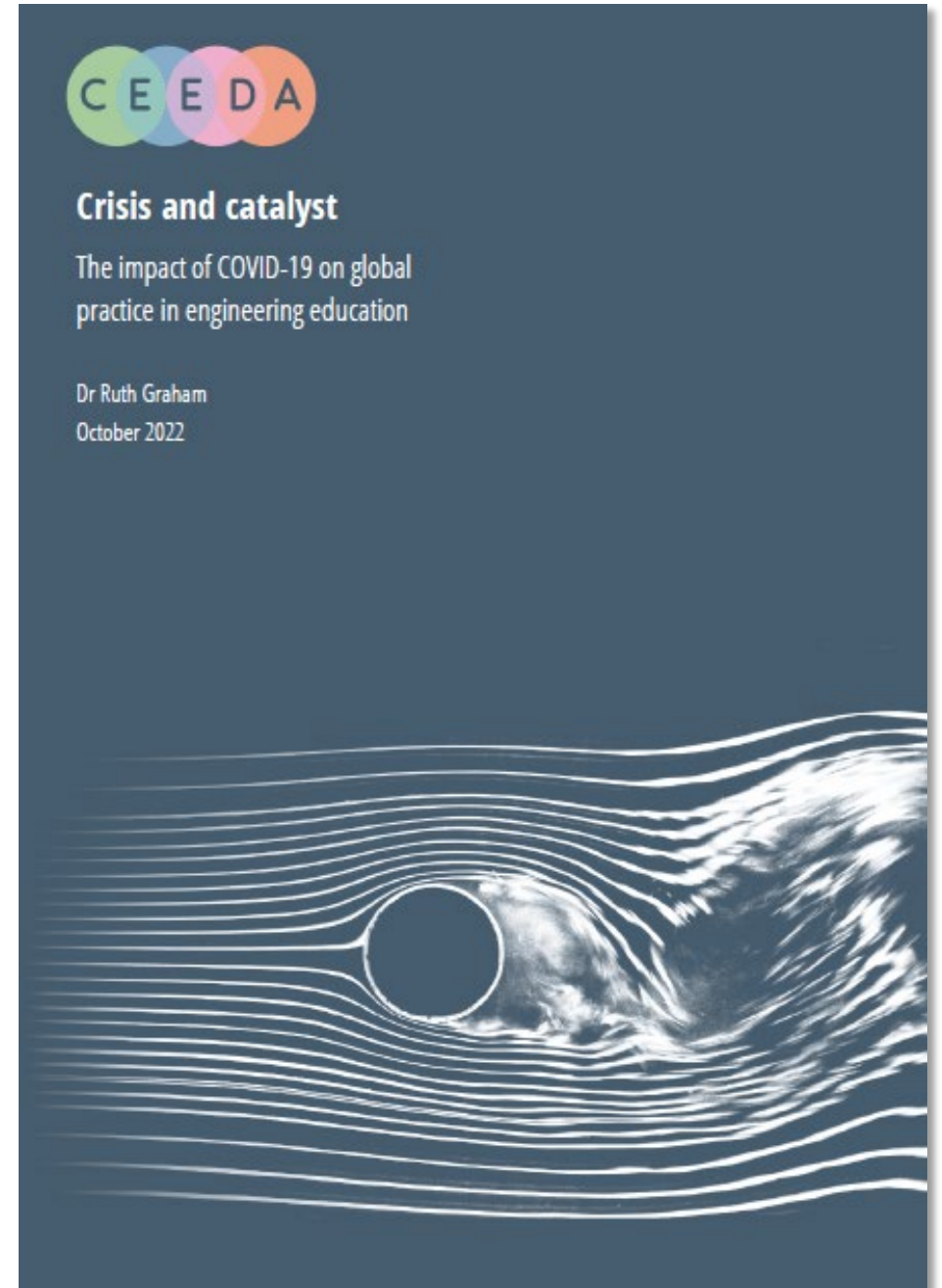
Graham (2018)

- Which institutions are considered to be the **"current leaders"** in engineering education?
- Which institutions are considered to be **"emerging leaders"** in engineering education?



Graham (2022)

- What were the experiences of the engineering education community during emergency teaching?
- How will the systematic shock of COVID-19 and emergency teaching impact the direction of travel for the sector?

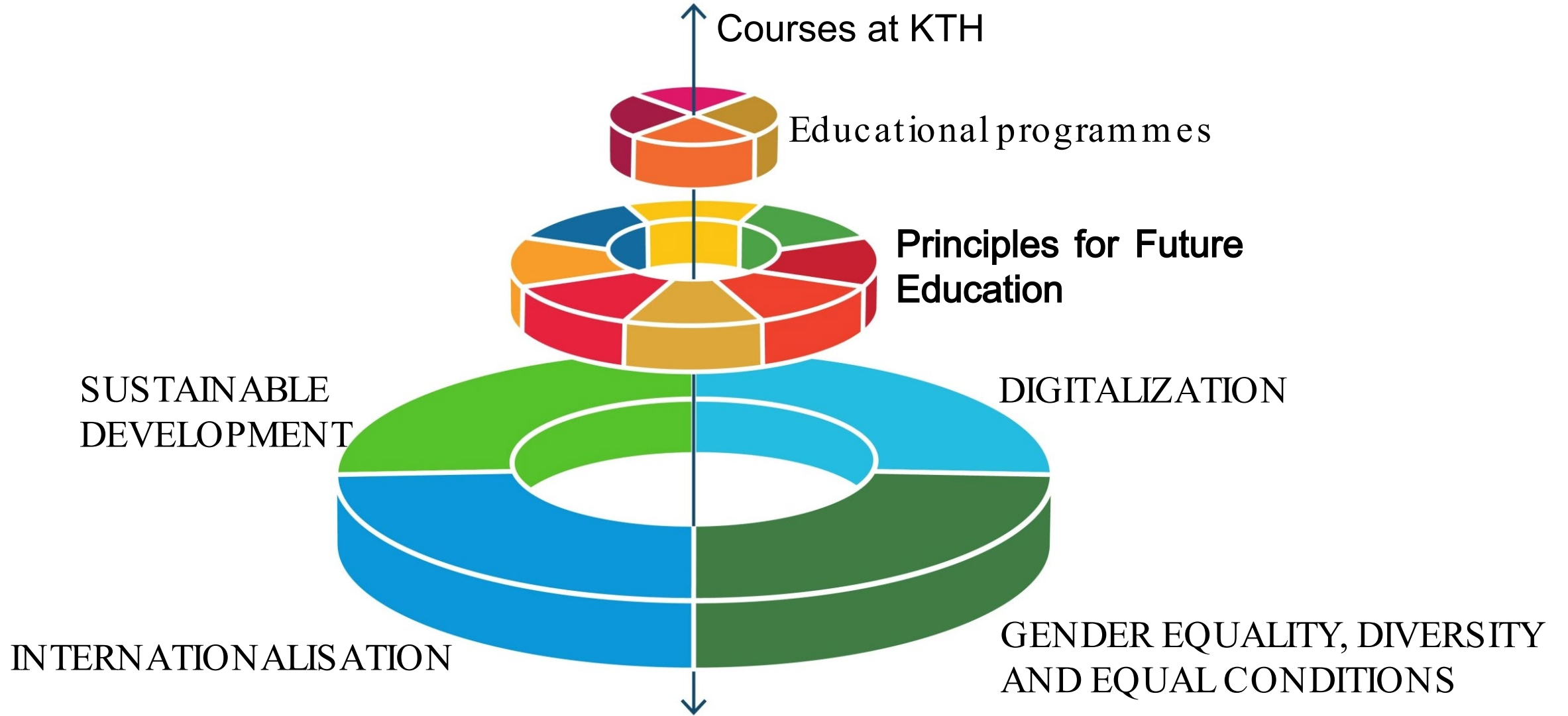




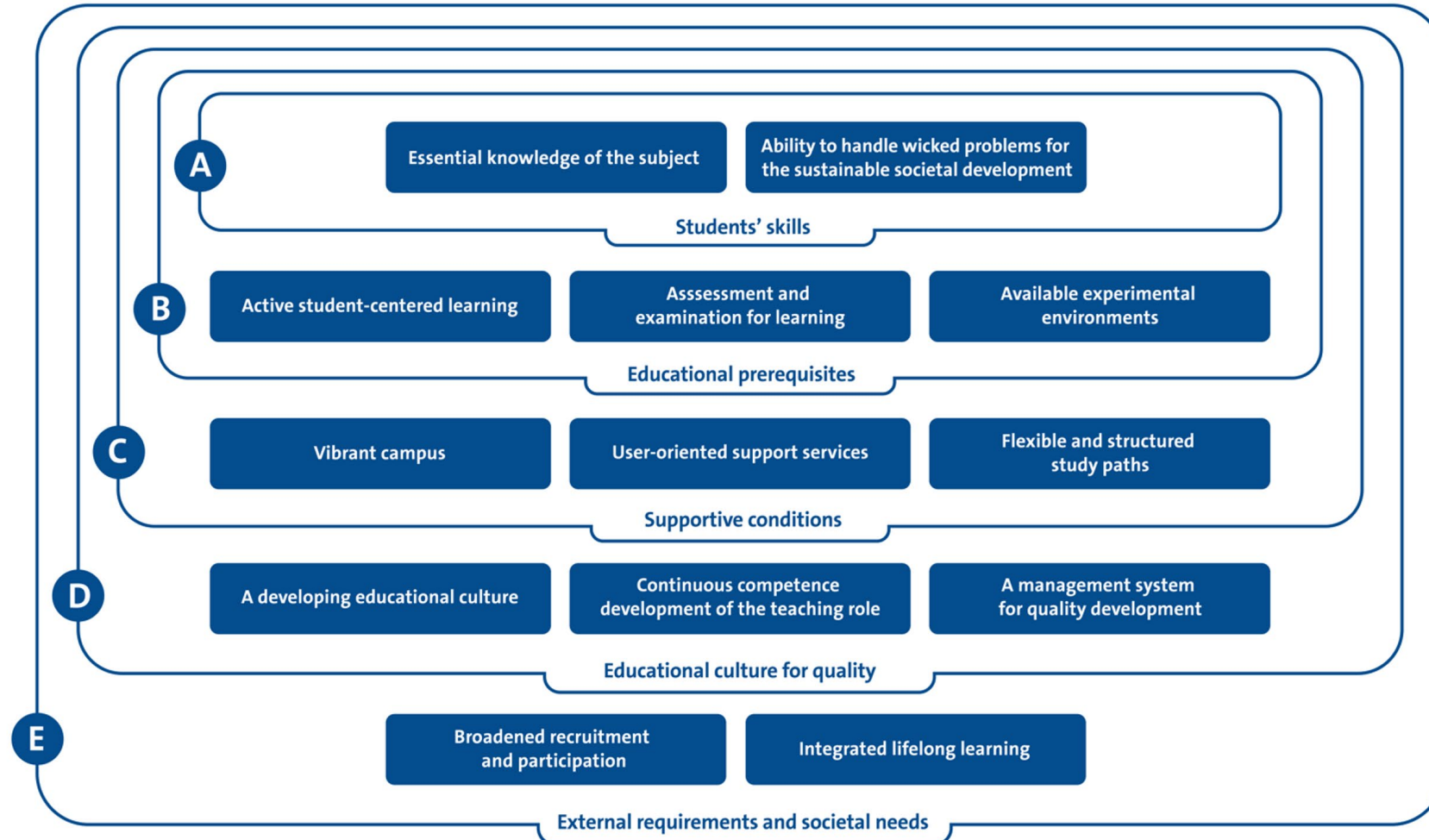
Future Education at KTH

”..principles that should characterise the work on developing KTH's education so that the education programmes remain highly relevant and attractive in the increased competition between national and international higher education institutions as well as new educational players.

An important starting point for the work is also the importance of education for a transformation towards a sustainable society, in which KTH shall maintain and develop its role.”



The framework and the principles





Development project fall 2023 – some examples

Digitalization

- Feasibility Study for Large-Scale Examination
- Digital and Continuous Assessment
- Flexible Recorded Materials for Active Learning
- Data-driven Admission to Master's Programmes
- Integration of physical and remote experimental learning environments
- Future education in technical foundation year

Programme development

- Master's Programme in Sustainable Digitalisation
- Present State Analyses for Programme Redesign
- Modularization of Master's Studies (M SPAN)
- Bachelor in Industrial Engineering with one entrance and several outputs
- Development of Second Cycle Programme Structures
- The design studio's pedagogical landscape

Plan forward



- **Sharing good examples**
 - A lot of focus on communication and knowledge sharing
 - Started a weekly podcast during the spring
- **Work proactively with change and development** instead of reactively
- Work to identify what **support the schools need**
- We have some **seed funding** to co-finance **more development projects** at the schools
- Guide a general discussion at KTH about **the educational offering**

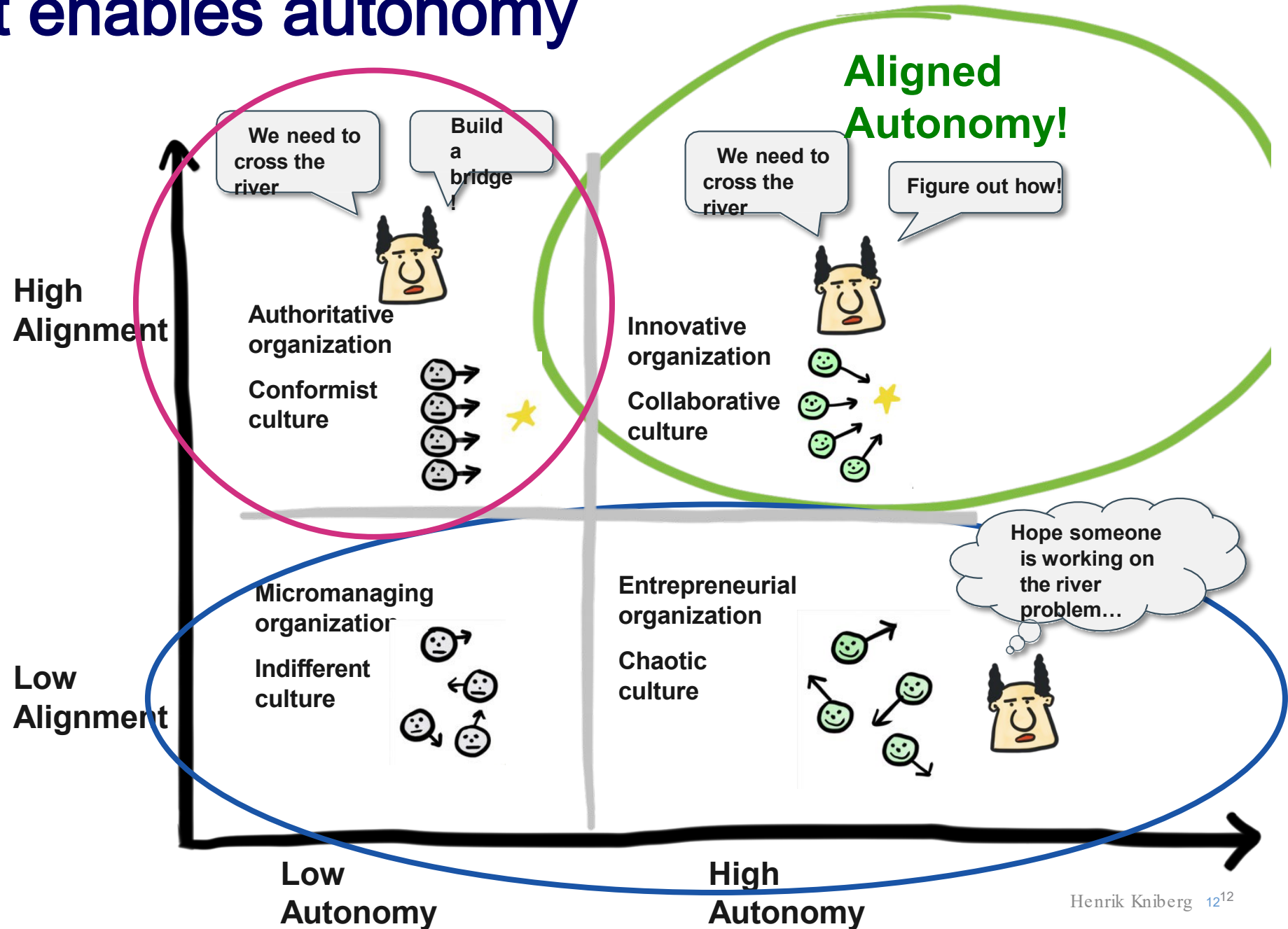
Alignment enables autonomy

- KTH in the last years?
- This is how many in the faculty experience KTH
- Our goal with the future of education
-

Steering/direction enables autonomy !

=>

Innovative culture of cooperation



Questions ?





Our webpage :

**[https:// intra.kth.se/en/utbildning/framtidens -
utbildning](https://intra.kth.se/en/utbildning/framtidens-utbildning)**