



Design for a Circular Economy

A TU Delft start-up research team
Phil Brown

From Linear to Circular



**BETTER
FUTURE
FACTORY** 

Meet the DfCE team

Professors & teachers



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Marita
Sauerwein



Deborah
Sumter

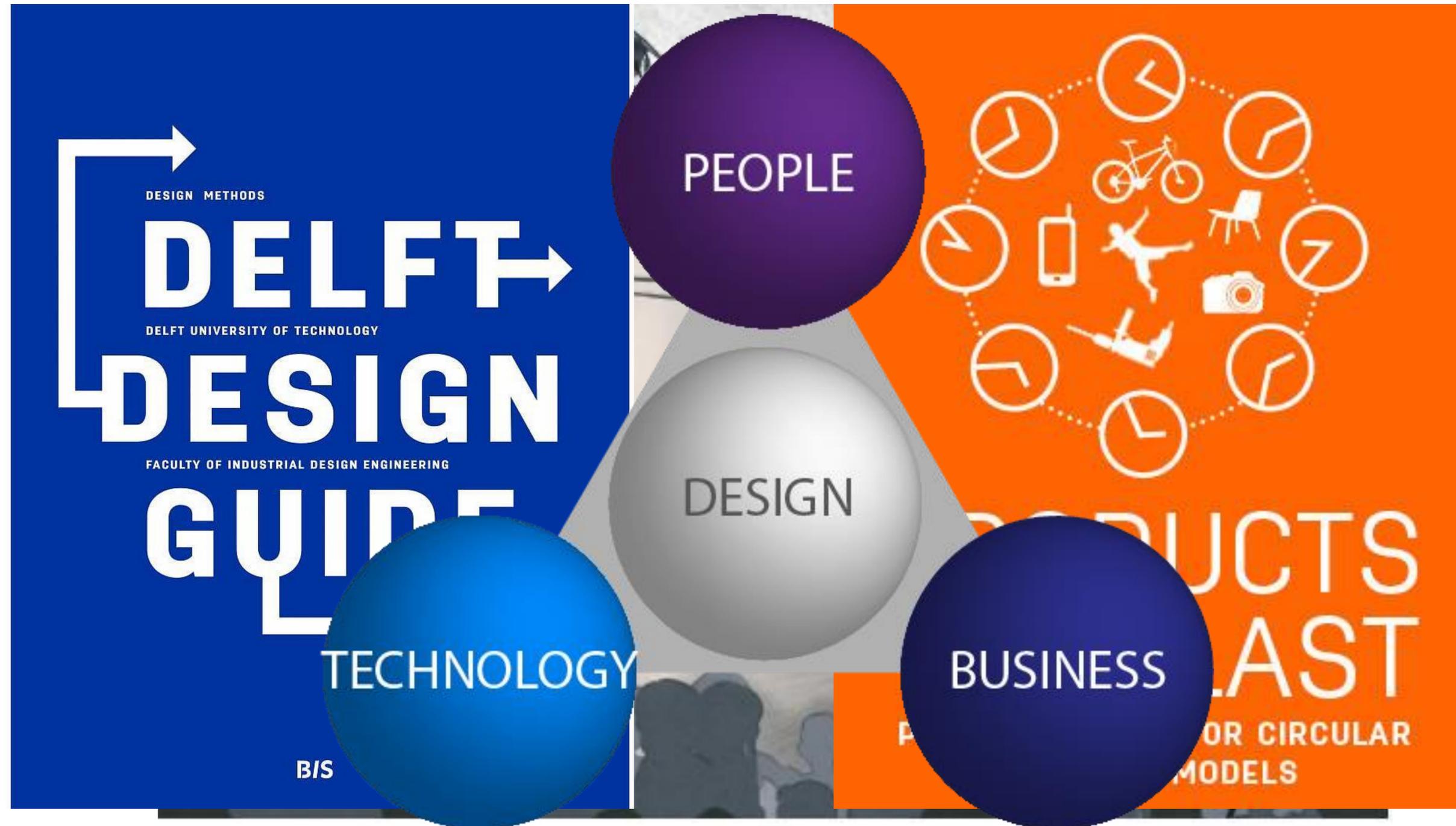


Vivian
Tunn

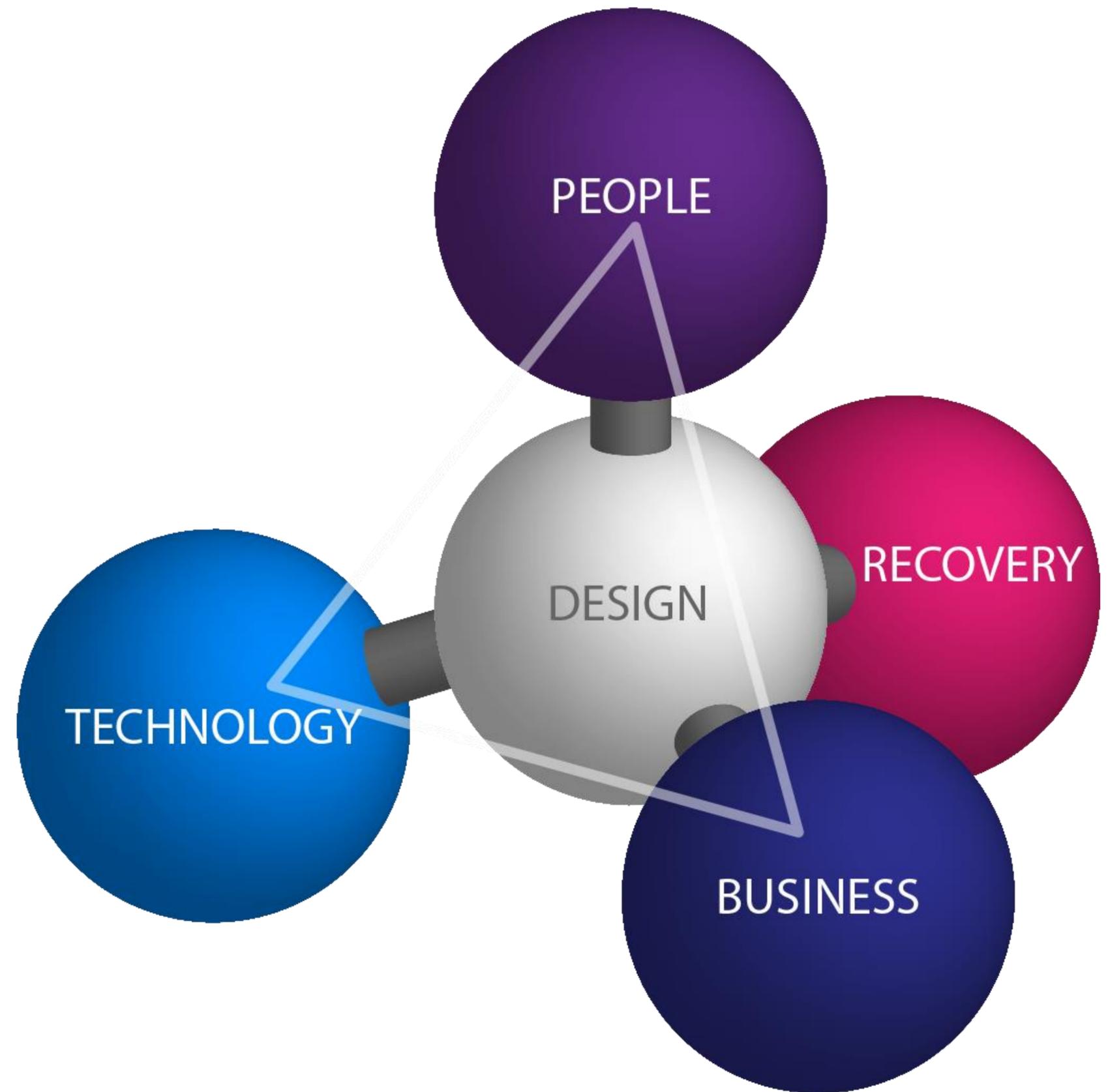


Mandy
Willems

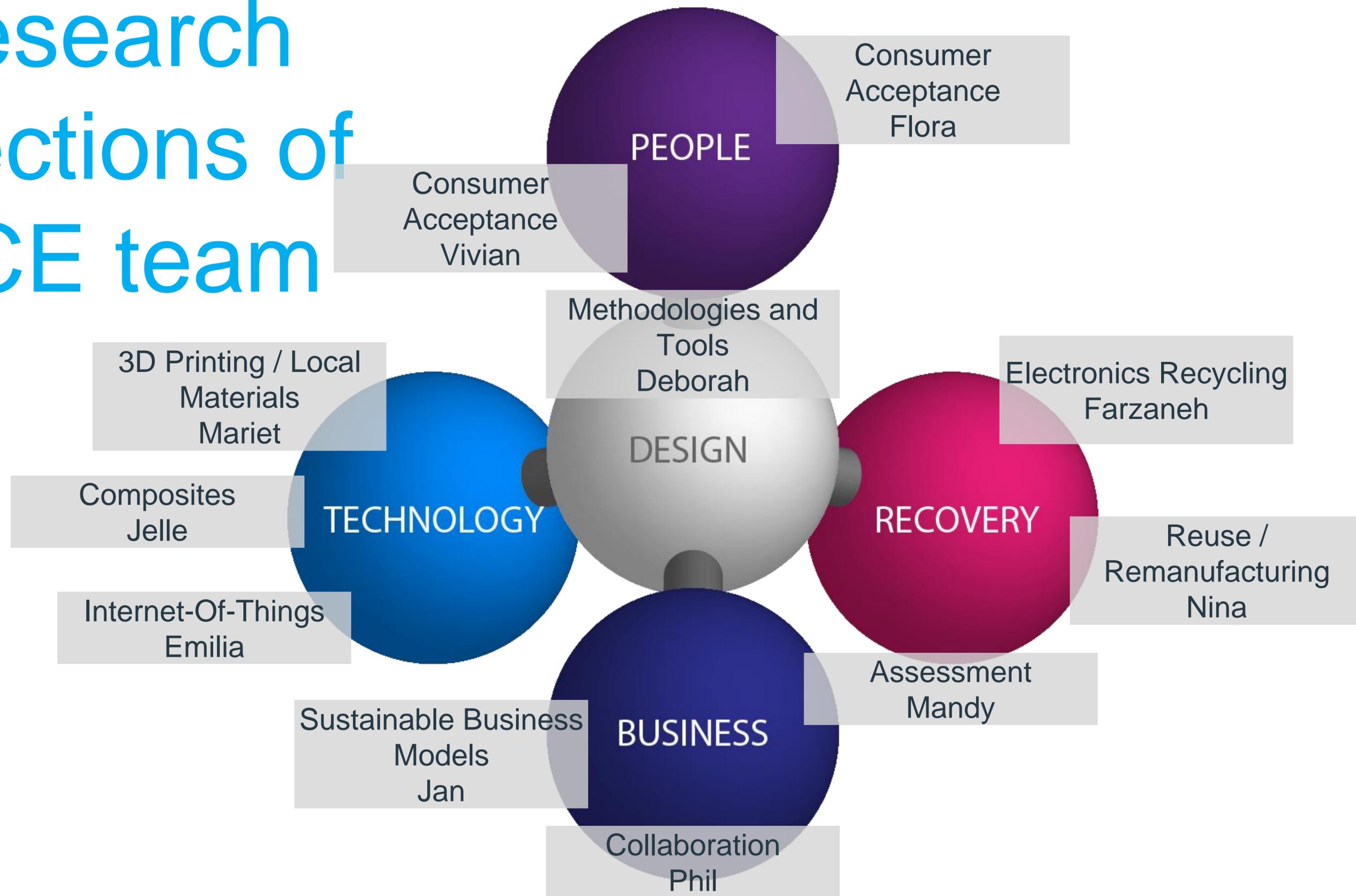
TU Delft- Industrial Design Approach

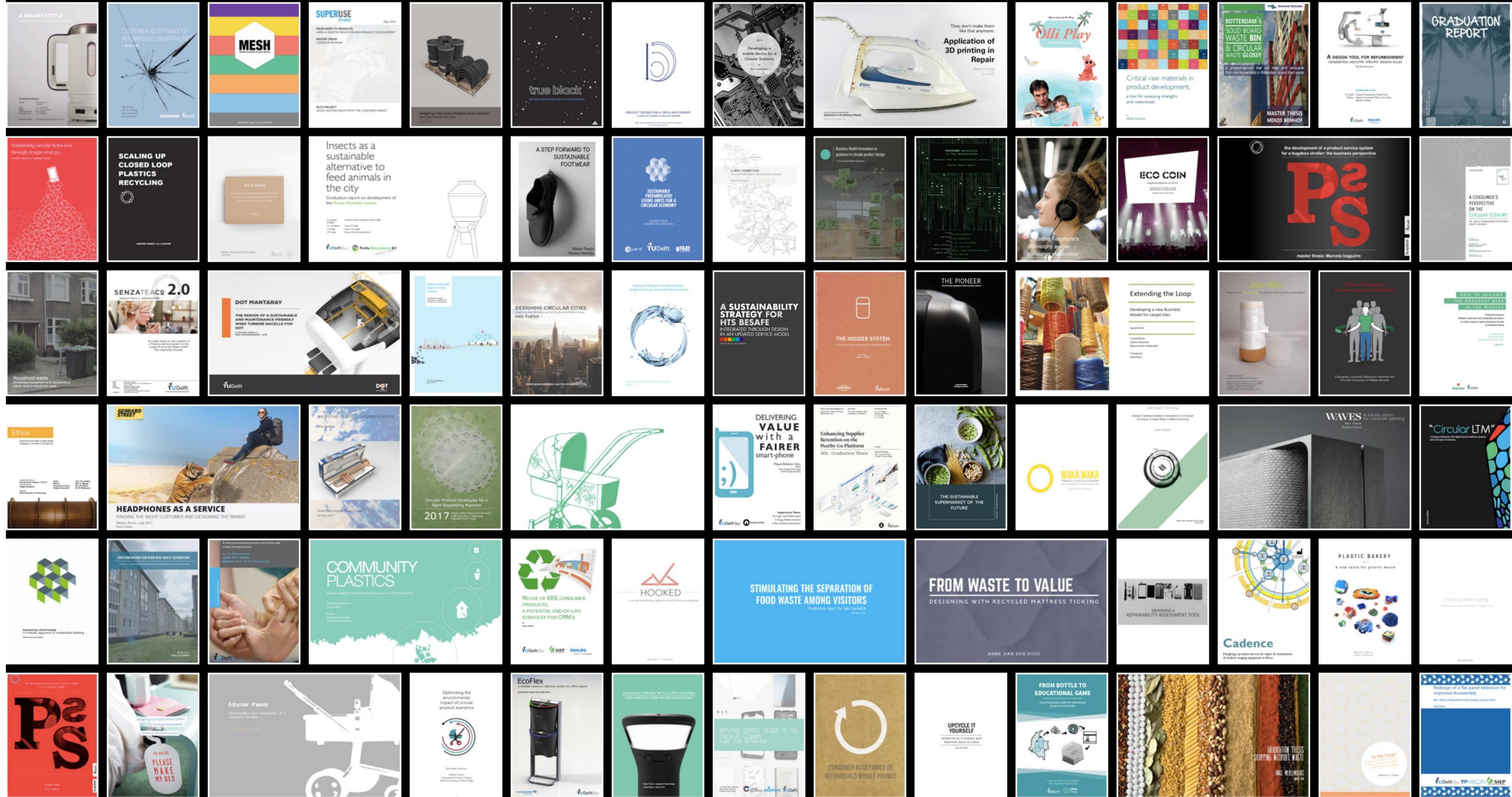


Designing for
Circular
Economy
=
Design for
Recovery



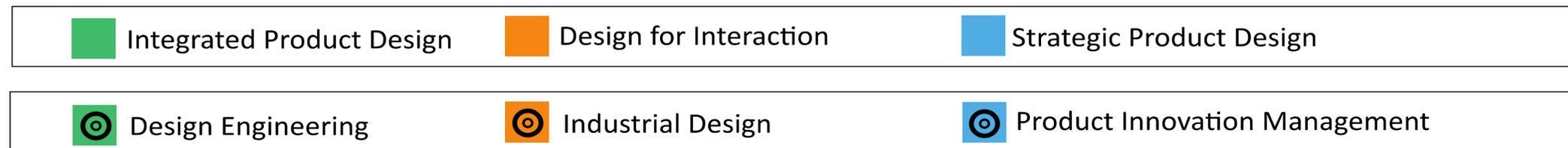
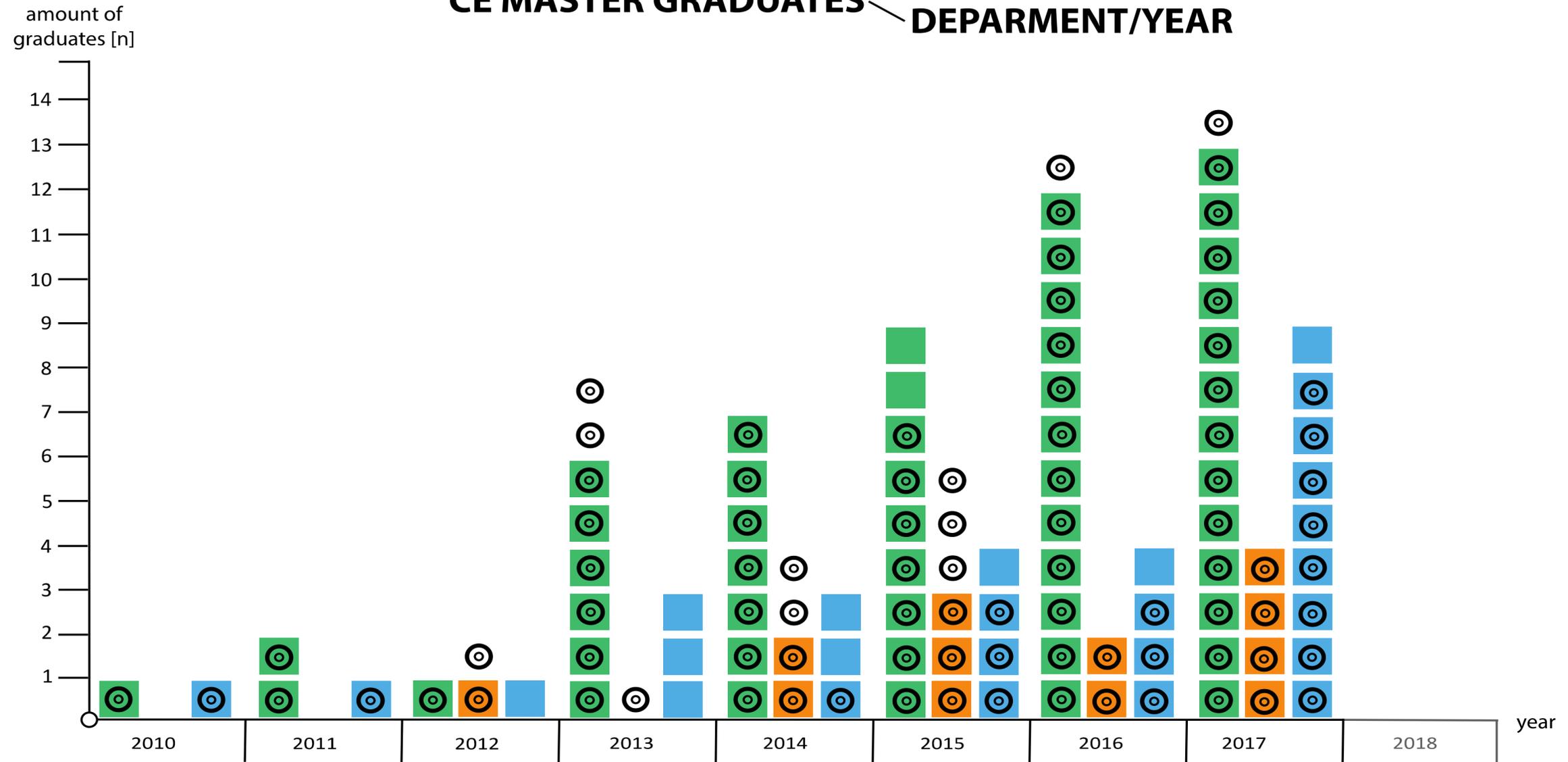
Research Directions of DfCE team





CE MASTER GRADUATES

MASTER/YEAR
DEPARTMENT/YEAR



My Research Focus





Earlier Insights – Barrier to Collaboration



Next steps!

- Testing the framework – via interviews/workshops with companies developing CE transitions
- Iterating framework to improve and apply to support
- Building workshops to develop tools to support collaborative design and experimentation of CE challenges

A selection of funded research projects

ResCoM

Resource Conservation Manufacturing (ResCoM) is a European Commission co-funded project running until November 2017. The aim is to support designers and manufacturers capturing value by closing the loop. Twelve organisations from research, industry and technology collaborate in this project. A wide range of knowledge partners and OEMs (Original Equipment Manufacturers) have set up pilots for each OEM in which the opportunities and challenges of introducing multiple life cycles are explored.

ERN

The first European remanufacturing Network (ERN) supports existing remanufacturers with improving their operations and drives new companies to take on the challenge. It also has the ambition to improve the competitiveness of manufacturers and raise awareness on remanufacturing. The consortium counts 8 partners from 6 EU member states. Two-year long project.

CIRCEUIT

“Circ€uit” – Circular European Economy Innovative Training Network” – is a Marie- Skłodowska-Curie Innovative Training Network within the Horizon 2020 Programme of the European Commission. In a consortium of seven universities and 15 PhD positions, research will look at the circular economy from different perspectives including business modelling, reverse logistics, consumer behaviour, sustainable design, the role of technology, and environmental and economic assessments via input-output analysis and LCA.

ECOBULK

Circular Process for Eco-Designed Bulky Products and Internal Car Parts (ECOBULK) aims at contributing to closing the loop of composite products in the automotive, furniture and building sectors by promoting greater re-use, upgrade, refurbishment and recycle of products, parts, and materials. It focuses on large scale demonstration activities in 7 countries and more than 15 demonstrators to address the key components of the circular economy solutions.



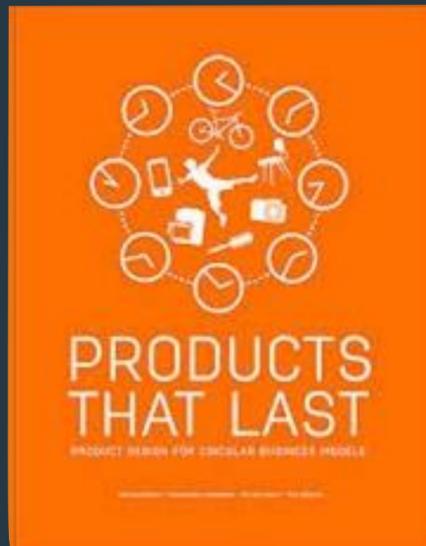
MOOC

CIRCO

**CIRCO
business
classes**

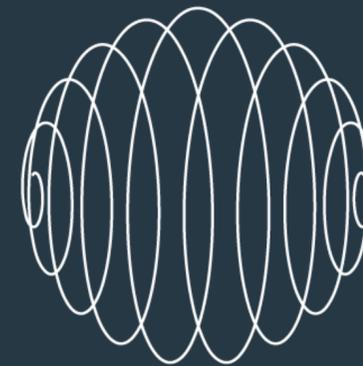


**Circular
Delft**

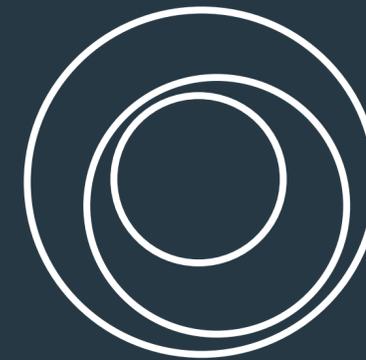


**Disruptive
Innovation
Festival**

dif



Circulate



**Schmidt-
MacArthur
Fellowship**

Thanks for listening
Questions?