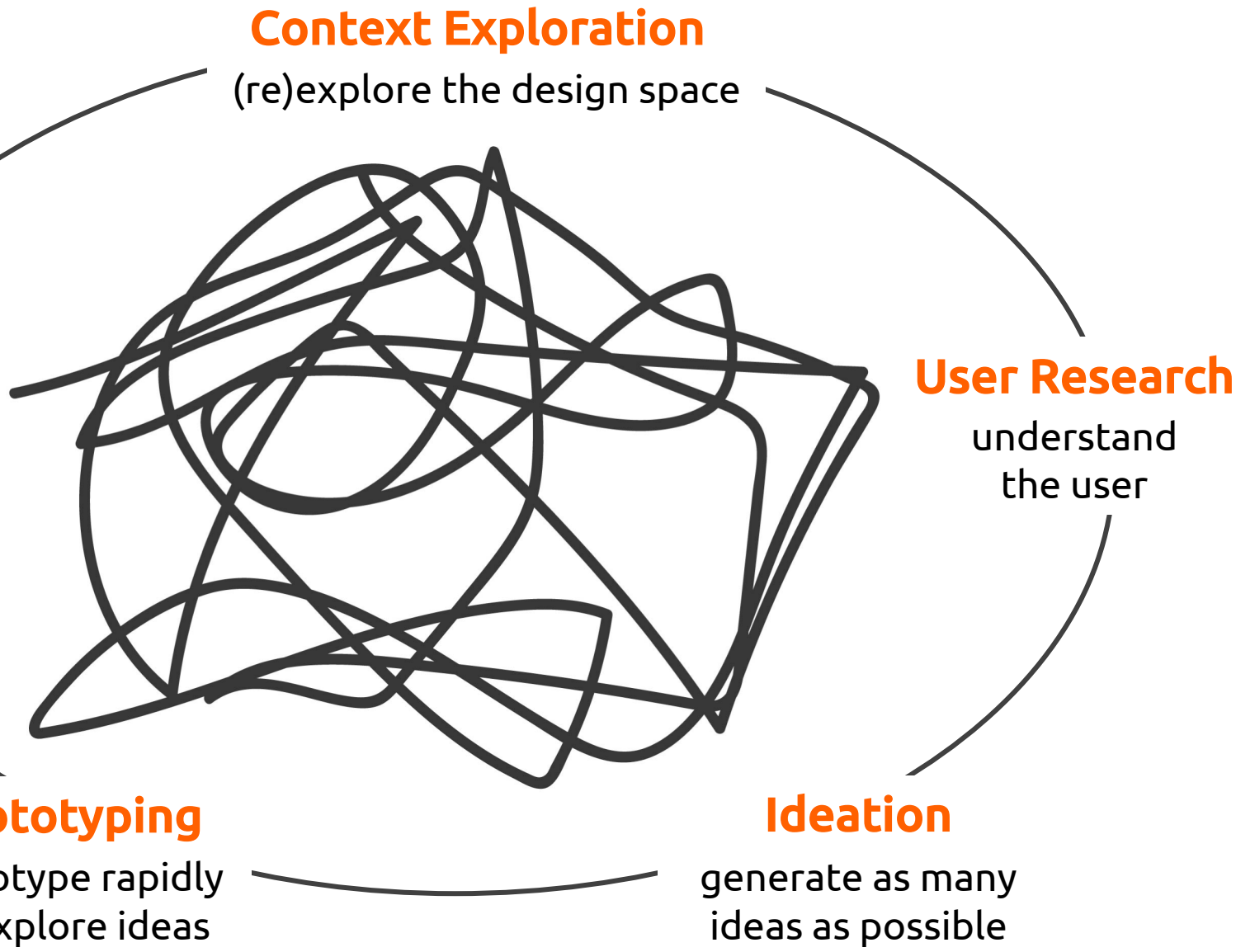
inno.space

DESIGN FACTORY MANNHEIM

ME310/DTP

The process

Our teaching and project facilitation is based on the **following stages** (further methods are applied depending on the program specifics):



Our partner network

SUGAR

We collaborate with a wide range of **universities around the globe** (within the SUGAR network) **and industry partners both locally and internationally** to **foster human-centered innovation and create real impact.**

Aalto University

Stanford University

d.school paris at école des ponts

LINKÖPING UNIVERSITY

DESIGN FACTORY MELBOURNE

POLITECNICO MILANO 1863

P.PORTO

SAP

Valeo

Roche

MAERSK DRILLING

digital hub kurpfalz@bw

The Program

ME310/DTP

- **International teams** with 6-8 elements;
- Close collaboration with the corporate partner and **high practical relevance of the challenges.**
- Tangible **proof-of-concept prototype.**
- Development of different **design concepts and prototypes**

- Open for **master students** of the Mannheim University of Applied Sciences
- Duration: From the end of September to the beginning of June
- ECTS: 20 ECTS (the recognition of credits is handled by the respective faculty). The workload is approx. 2 days a week.

Overview & benefits

- **International teams** with 6-8 masters students
- **Duration**: October – June (9 months)
- **Time commitment** for students: approx. 2 days a week

Innovative human-centric development of products & services

Multiple iterations resulting in various concepts and prototypes of the product/service

Functional prototype tested for feasibility, user satisfaction and economic viability

Process, method and mindset insights

Past Projects

STARS

2015/16

How might we improve collaboration and concentration in open work spaces?

The current state of workspaces entails large, open areas, modular furniture, and innovative devices to promote collaboration. However, the effects of such spaces are not purely positive. Having more colleagues around also creates more potential distraction, which disturbs co-workers, prevents them from being productive and costs the company a lot of money.

Outcome

STARS (Sound Tracking And Response System) is a persuasive IoT ambient light system intended to support self-guided changes towards less distracting worker behavior, thereby increasing productivity and employee satisfaction. With variations of brightness, color, and pulsation, the ceiling unobtrusively responds to the sound level in the office.

REVO

2017/2018

How might we improve efficiency in warehouses using new technologies?

The process of returning items purchased online wastes $84 billion worldwide every year and it is predicted that it will continue to rise. Returned items are becoming an increasingly significant problem in warehouses as 30% of products ordered online are returned and 40% of those are being destroyed. The return process also contributes 146,000 tons of CO2 emissions annually. While most processes in warehouses have been improved, there is still no solution for the return process.

Outcome

The Revo process is changing the way companies tackle current issues in the returns system.

Revo is a service that reduces the return workload in warehouses. The service is built on the idea of sending returned items directly from customer to customer supported by a reusable box for sustainability.

SAFE SPACE

2018/19

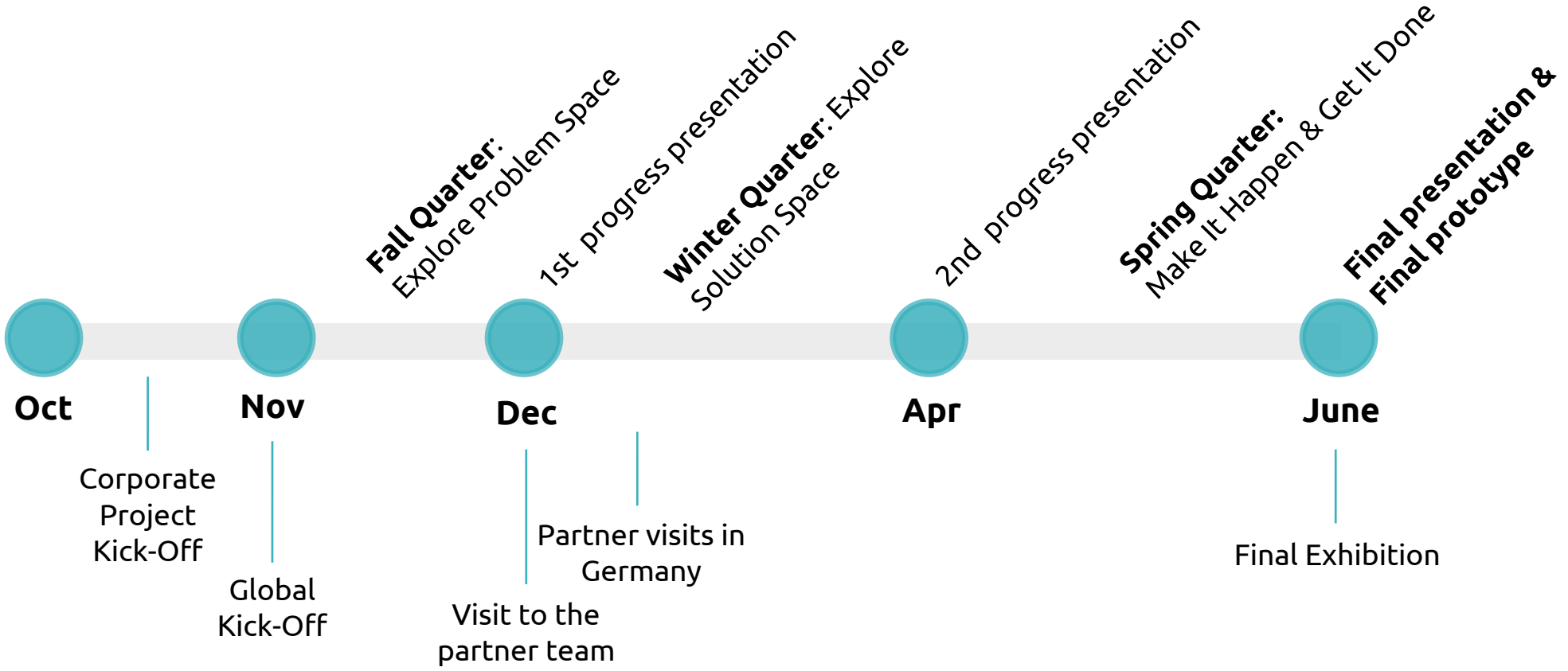
How might we enhance the mobility experience of drivers in smart cities?

The increasing amount of traffic in cities and the growing variety of mobility types, forces drivers to be more attentive than they previously were. As a result, lack of communication and misunderstandings are causing a lot of trouble on the roads.

Outcome

Safe Space is a virtual zone surrounding every traffic participant, granting them the physical space on the street they need to feel and be safe. Safe Space is a system in which both vulnerable users (such as bikes and e-scooters) and heavy traffic participants (such as buses) can equip themselves with a device out of the Safe Space product family.

Preliminary Program Timeline



The student teams…

- Establish direct connection with the industry partner
- Manage all their internal communications
- Are responsible for their deliverables and assignments

Contact us

Send us an email to inno.space@hs-mannheim.de

Find us online