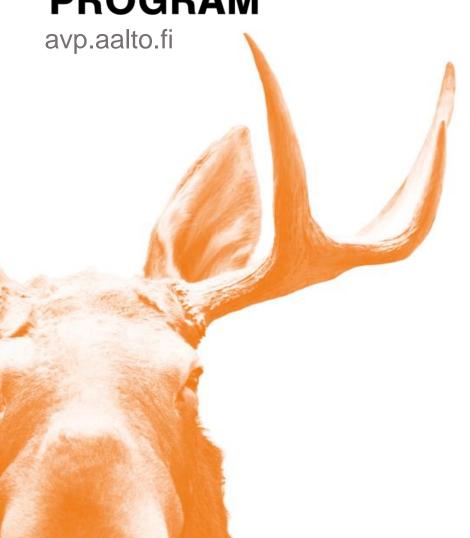
#### AALTO VENTURES PROGRAM



#### Intelligence in buildings

User centered design Introduction to

Håkan Mitts

**Aalto Ventures Program** 

avp.aalto.fi

Facebook.com/aaltoventuresprogram





# Which one would you buy? Why?

Add your comments in the Jamboard

https://jamboard.google.com/d/1cNQwKtB4BmCtJMo5r8MiDFO-4opx0GGurSbGegTZYH8/viewer?f=0

#### 2 paradigms

- Technology/research driven
  - Innovate and implement technology
  - Try to commercialize the end result
- User driven
  - Understand user/customer/stakeholder needs
  - Build product/service and business around the user need

Goal of the day

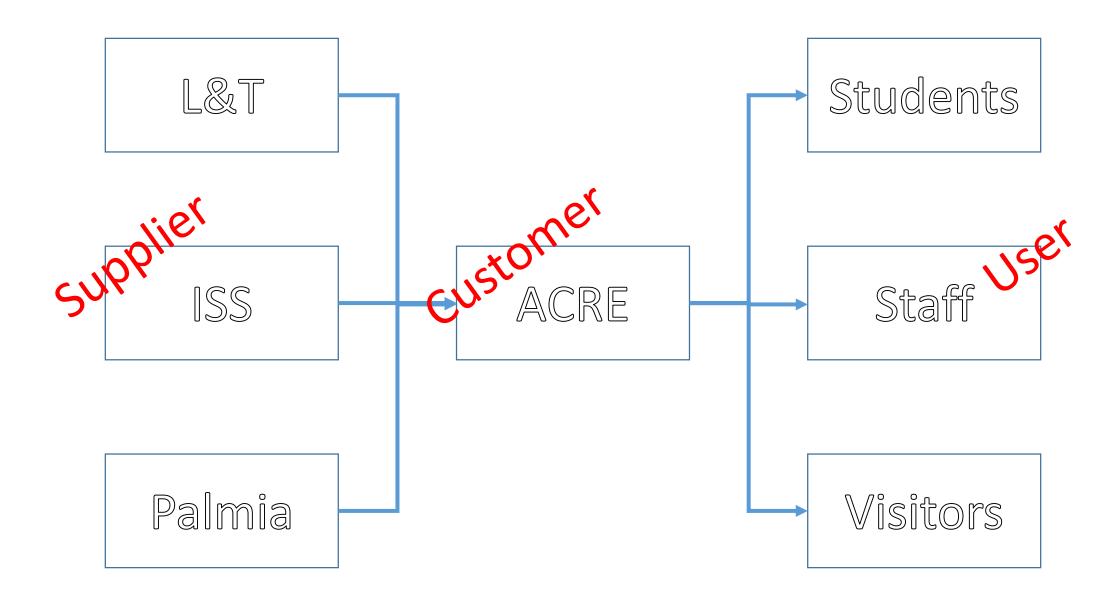
# Introduction to user centric development of new business

## Systematic discovery and validation of customer needs and fulfilling those needs as a sustainable business.

## Systematic discovery and validation of customer needs and fulfilling those needs as a sustainable business.

Case

#### Improving maintenance services



#### Summary of companies

Company	Activity	Other observations
L&T	Indoor technical maintenance, outdoor areas maintenance	Dominant incumbent
ISS	Indoor technical maintenance, outdoor areas maintenance	Just 2 building on campus, expansion strategy?
Palmia	Cleaning	

#### Who is **your** customer?

#### **Improvements**

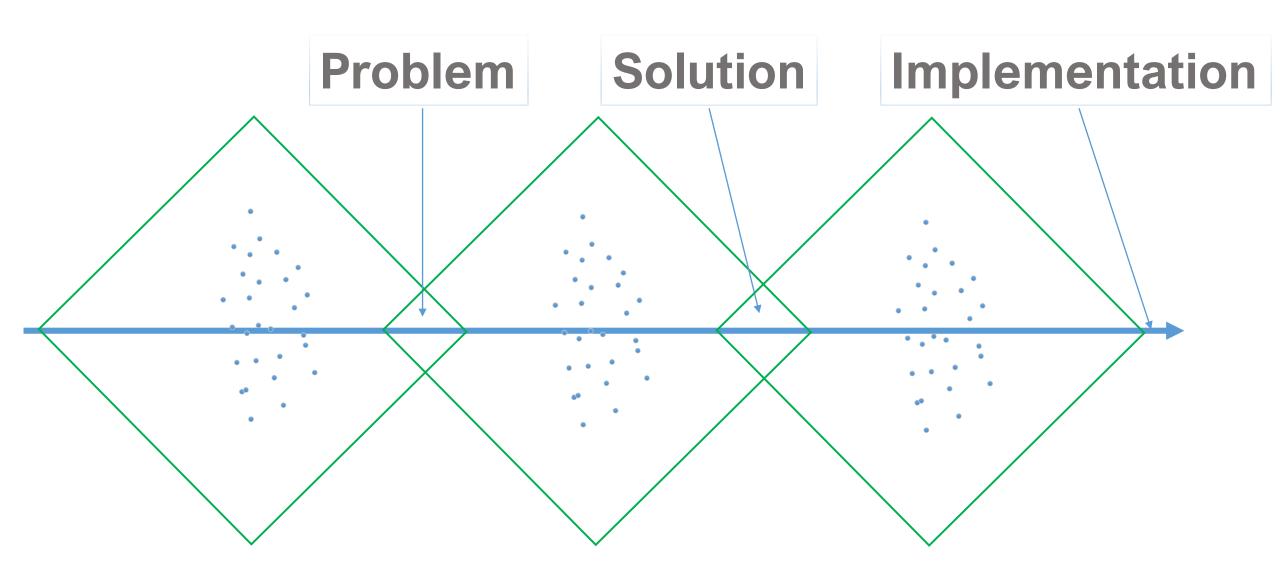
- ACRE solution that ACRE could put in place
- Suppliers solution that suppliers could take into use

#### Totally new solutions

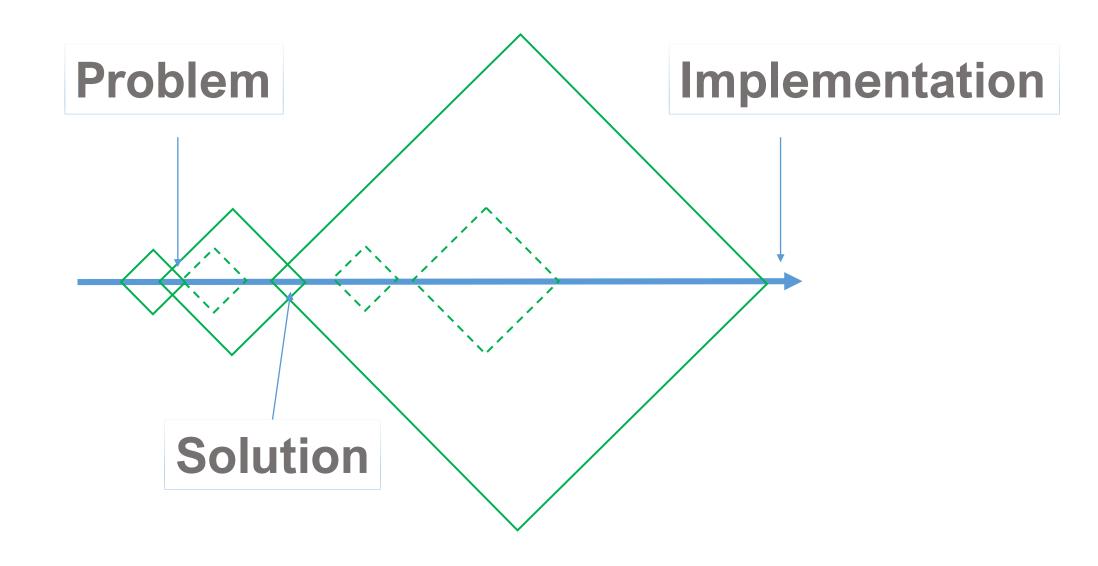
• Startup – new, unmet business opportunities

- 2 paradigms what is success?
- Technology/research driven
  - Success criteria: it works (as planned)
- User driven
  - Success criteria: customer buys and likes the product/service

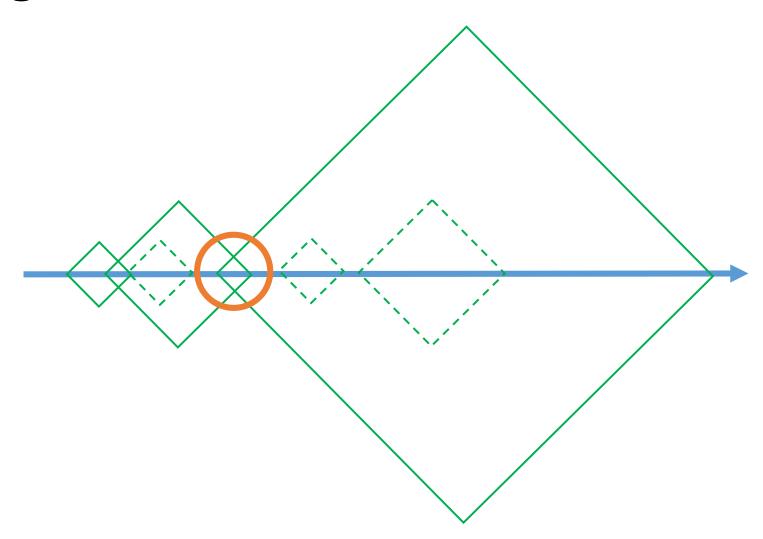
#### The triple diamond

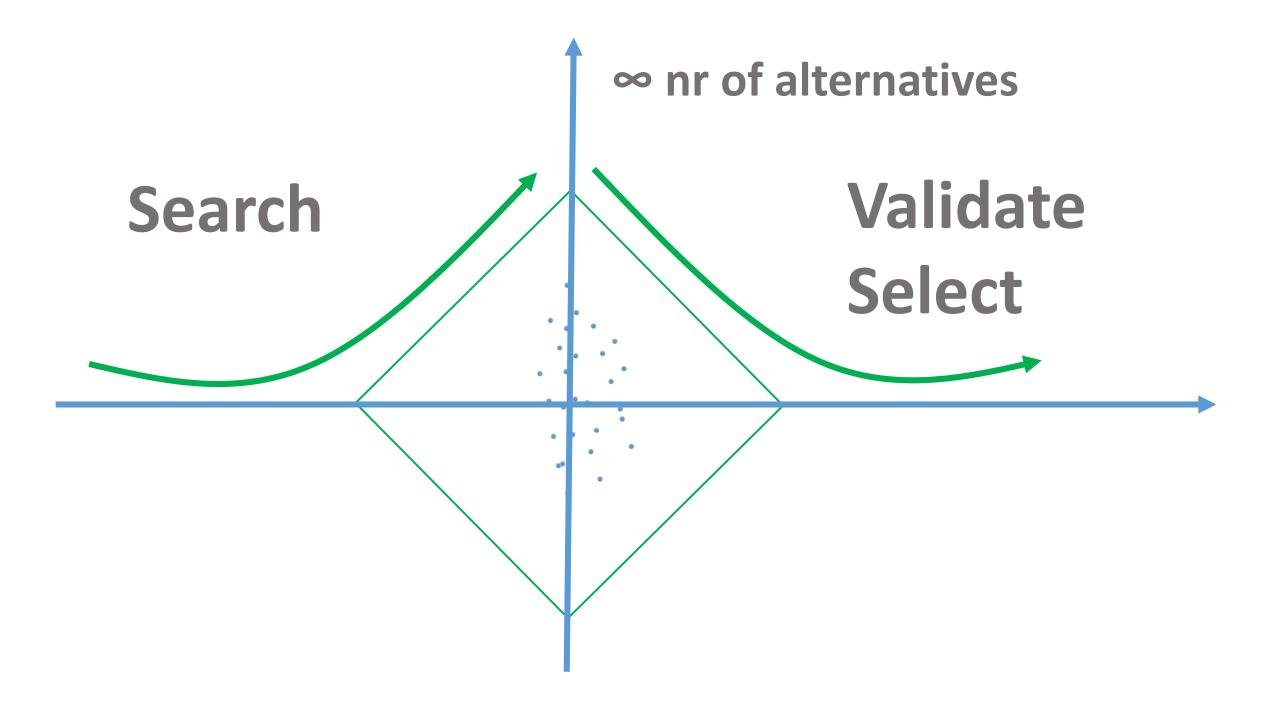


#### Resource use

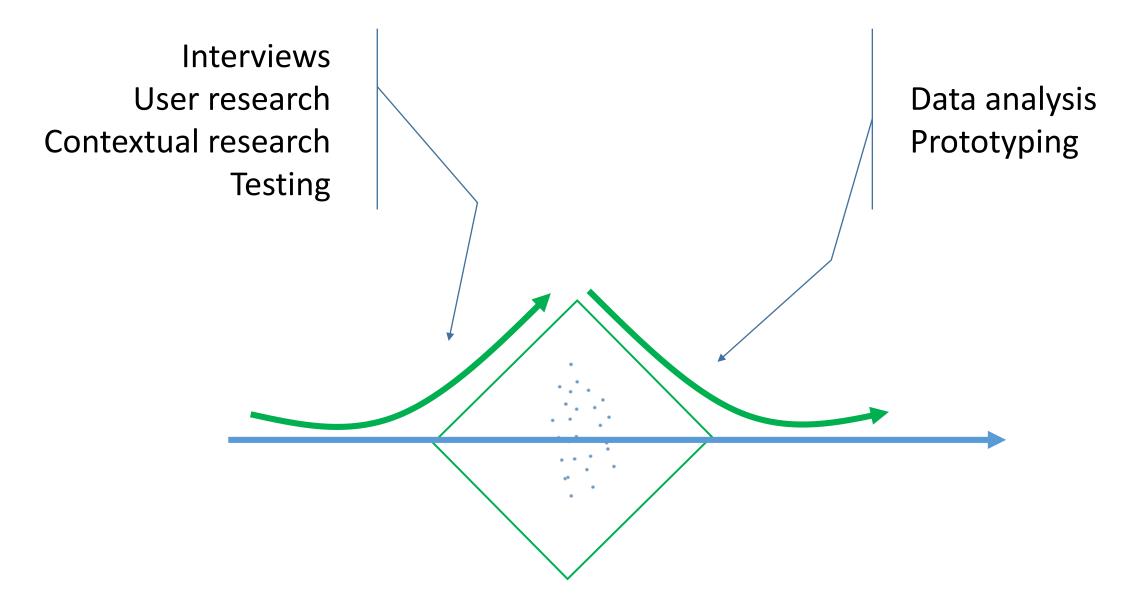


## Technology driven development Starting with the "solution"

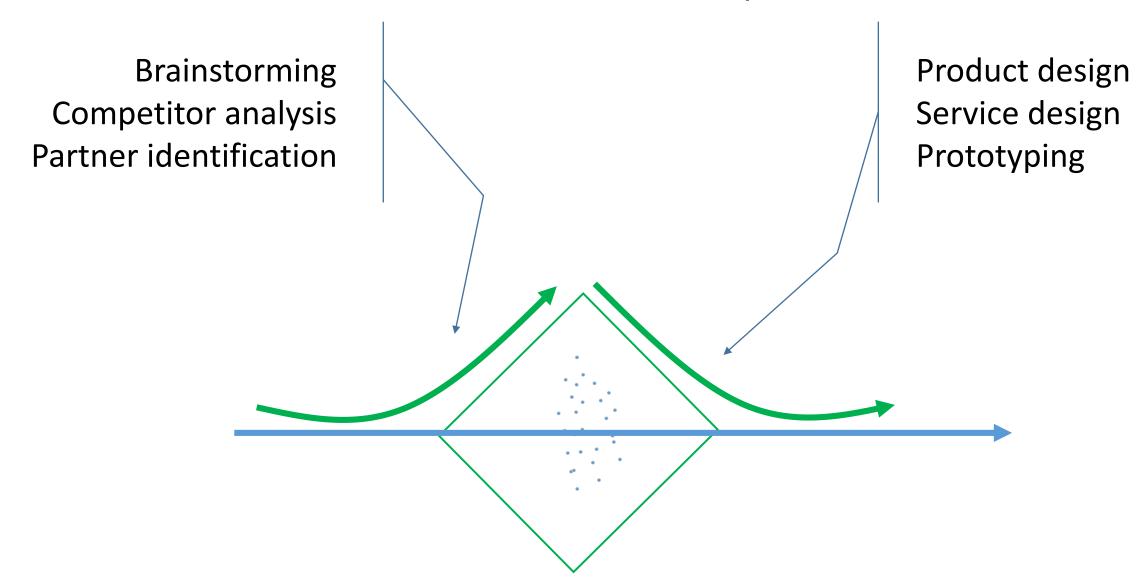




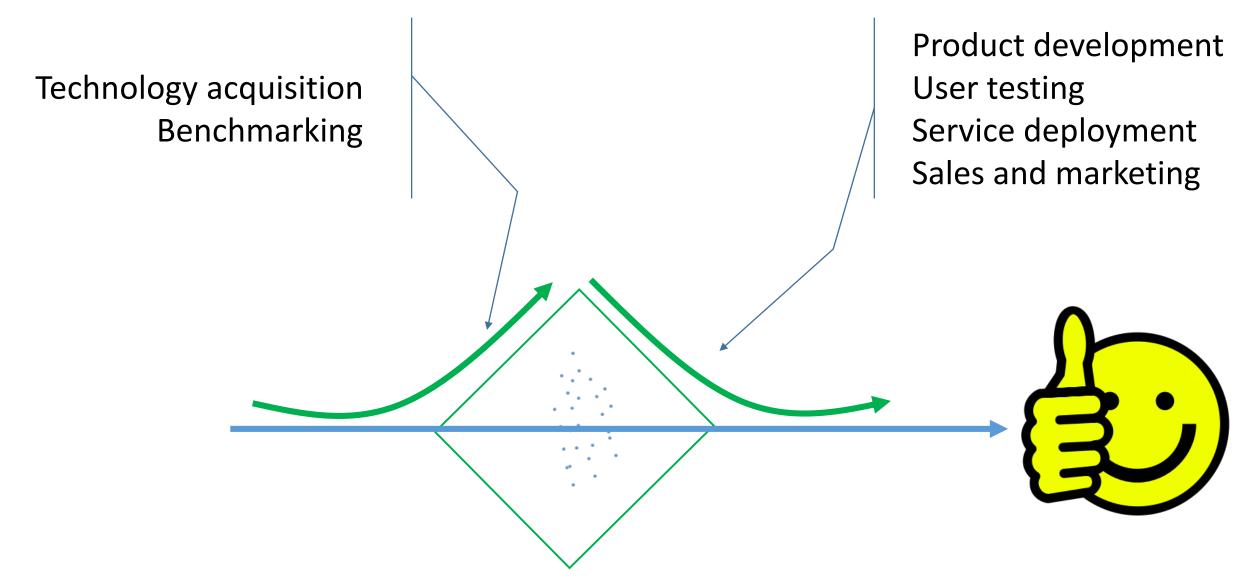
#### Problem = understand user



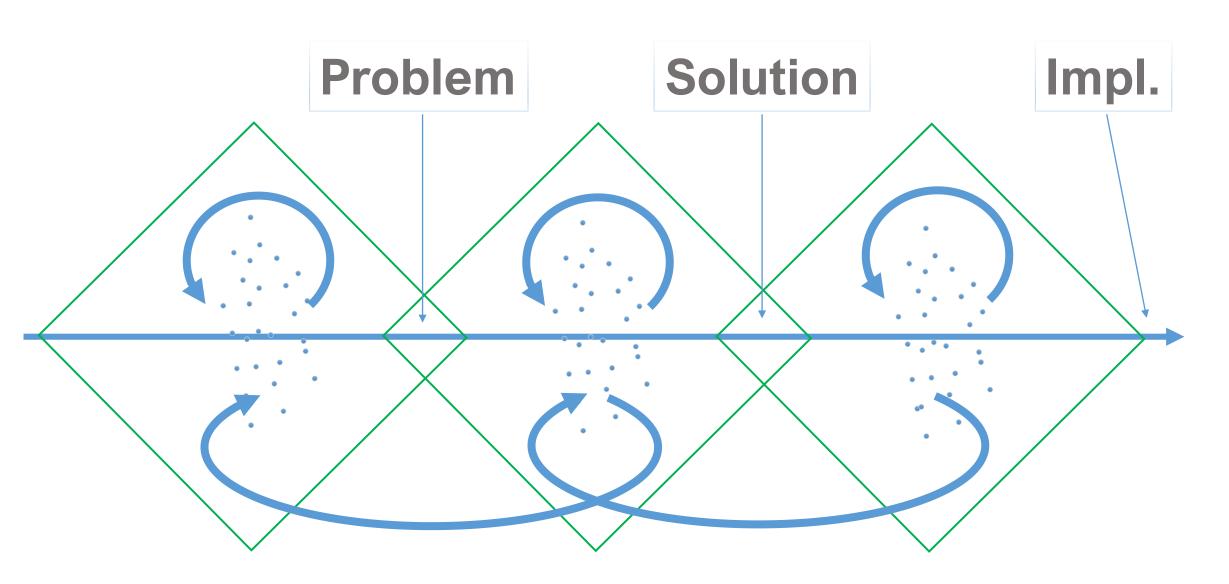
#### Solution = how to solve the problem



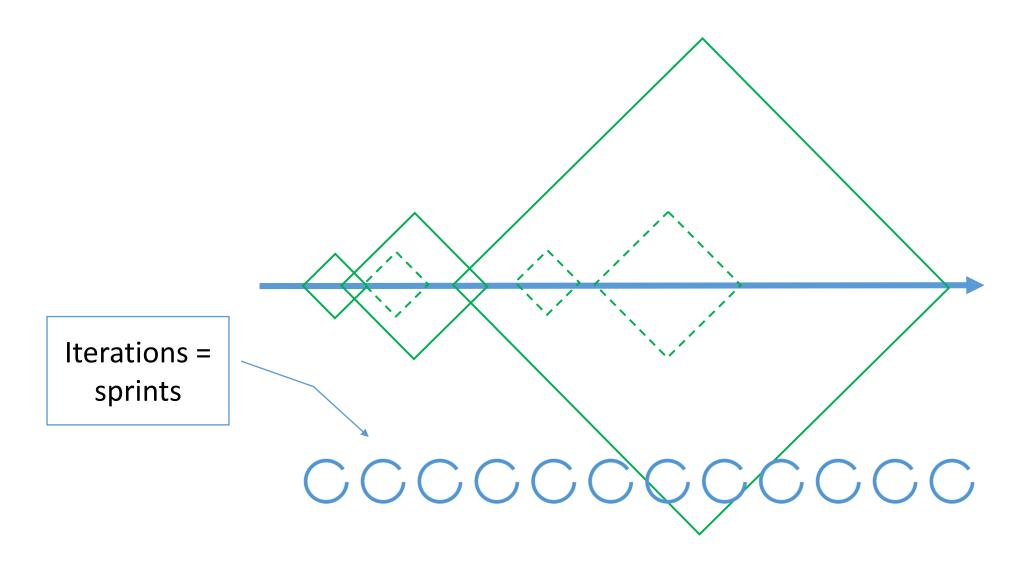
#### Implementation = delivering to customers



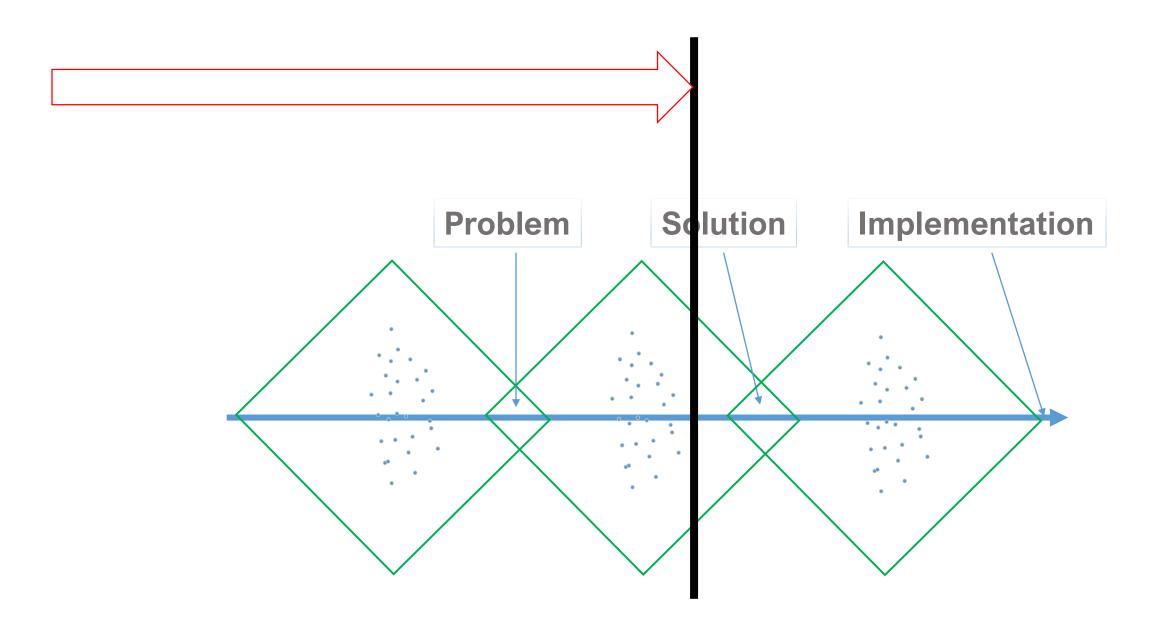
#### Iterative work with deep feedback



#### Combined iterative process



#### The scope



#### Course assignment details

# Innovate a smart campus maintenance product or service

## Focus on use of data/digital aspects

#### Using user centered methods

#### In practice

- Today: Kick-off
- Rest of this week
  - Do background research on the company that you have chosen
  - (Visit the campus to investigate maintenance from a user perspective)
  - Team should prepare questions for the presented
- 2.11: Learning about your customer User research
  - Lecture/workshop
- 4.11: Prepare interview questions for the company
  - Choose an initial "angle" to your solution
  - Send initial questions to your company
- 9-12.11 Interviews
  - Interview with representatives from your target company
- 13.11 Clinic
  - Workshop working on the interview results

#### In practice

- 16-22.11: Meetings with ACRE
  - Half interview, half solution validation
- 16-27.11: Working on your solution concept
- Friday 27.11 13:00 -> Clinic/workshop
  - Presenting your ideas
- Voluntary dress rehearsal of your pitches
  - Thursday (3.12) 10:00 12:00, details will follow
- Monday 7.12, final presentation of your concepts

#### Miro whiteboard

- We will use Miro whiteboards during the workshops
- If you have never used Miro before, take a few minutes of practive with this board: <a href="https://miro.com/app/board/o9JkhF6eR8=/">https://miro.com/app/board/o9JkhF6eR8=/</a>
- Ensure that you know how to:
  - Add PostIt's (called sticky notes)
  - Edit text on PostIt's
  - Connect and move around
  - Add a Miro template (...)
- Note:
  - Do not add any personal info to the boards (of yourself or anyone else)
  - OK to mention the companies involved