

PdP course staff



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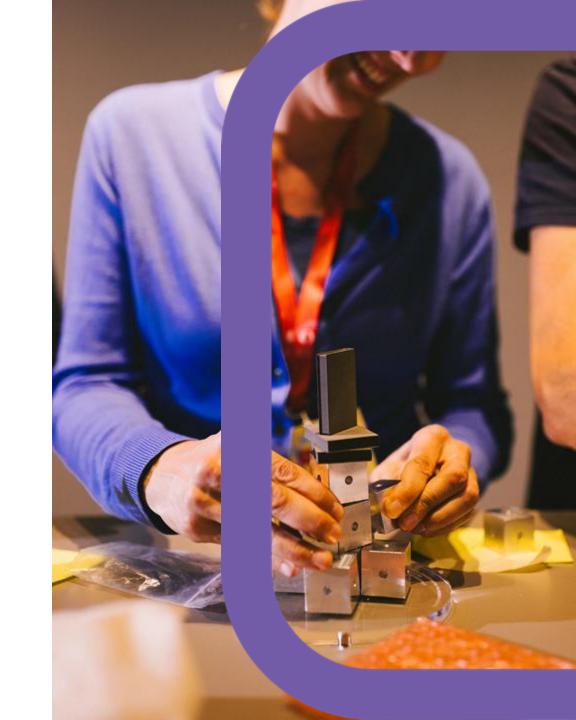






PD6

- Product Development simulation in 6 hours
- Intensive day throw yourself into it
- Thinking by doing, hands-on, testing
- Find your focus
- Use your radical creativity







Schedule

Introduction

10:00 Kick-start & plan

Headquarters

-masterplan

-roles

F

Checkpoint 2: (1 person comes to us)

13:30

CP2: PDP Head quartes

(2nd floor)



Checkpoint 1:

(we come to your place)

11:00 at your place

15:30 Final presentations

Feedback

Closing

Cleaning









Long history - research findings

Problems in industry

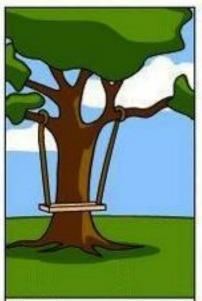
- Poor idea generation process
- Taking ideas further

Problems in student projects

- Getting started in teams
- Clarification of the task
- Communication



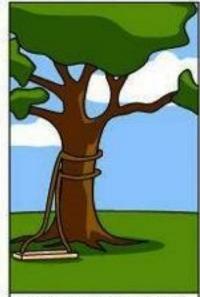
How the customer explained it



How the Project Leader understood it



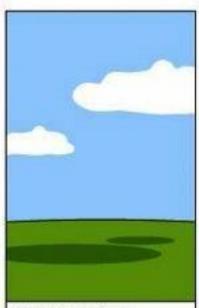
How the Analyst designed it



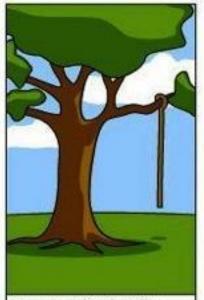
How the Programmer wrote it



How the Business Consultant described it



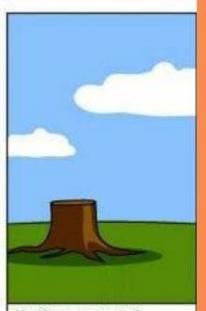
How the project was documented



What operations installed



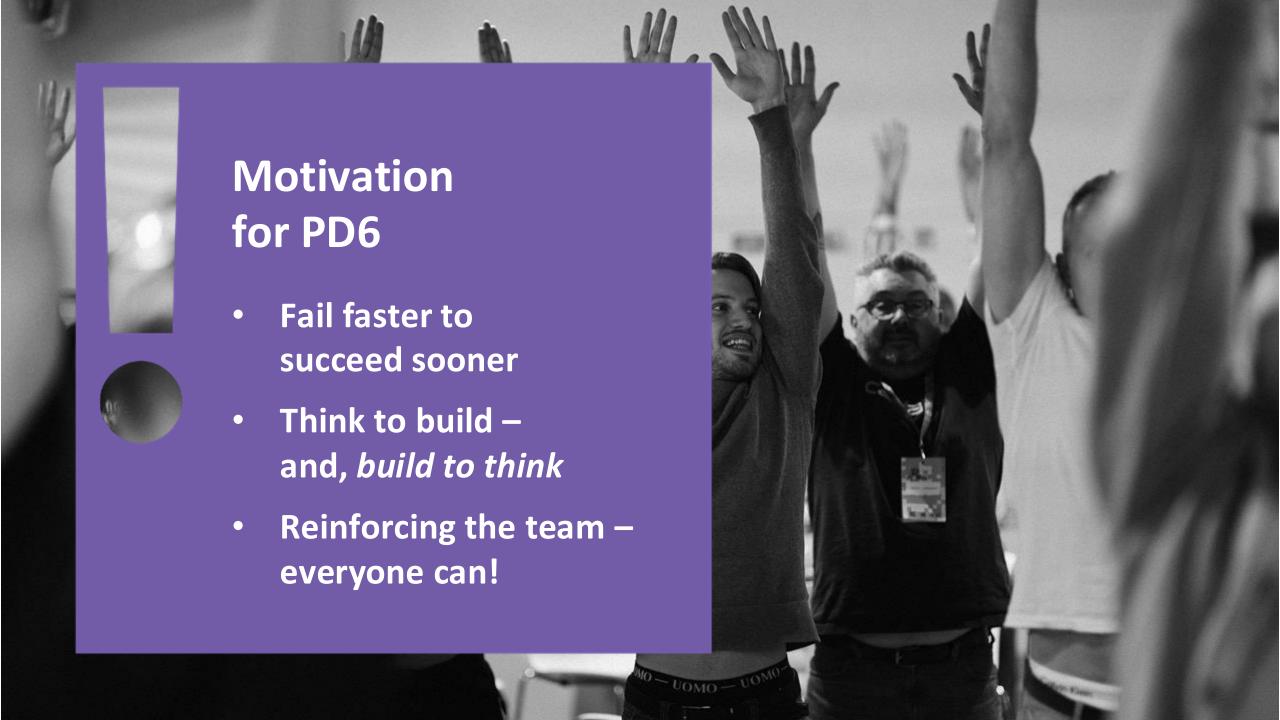
How the customer was billed



How it was supported



What the customer really needed





A linear process



Planning



Concept Development



System-Level Design



Detail Design



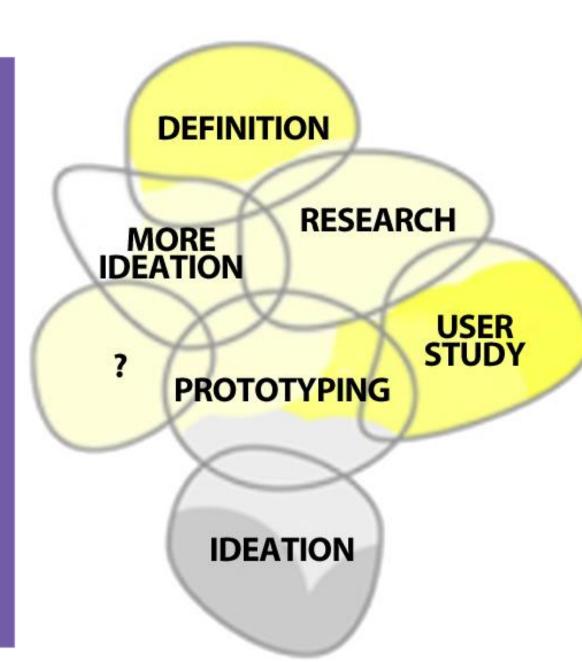
Testing and Refinement



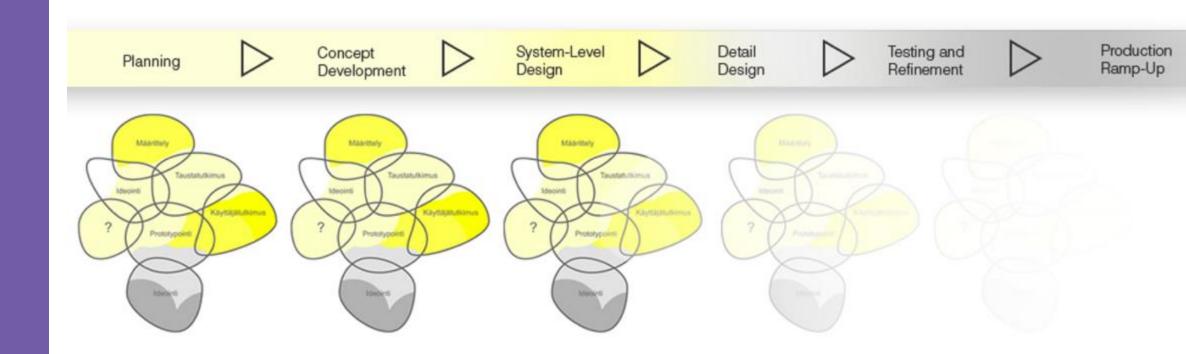
Production Ramp-Up

Product design is non-linear!

- Prototype for purpose!
- Focus more on the problem...than on the process
- Interaction (ask-watchlearn-try)



The PD6 process



The traditional (boring) roles

Project Manager management, team building

Industrial Designer usability, appearance, form

Mechanical Engineer specs, CAD, manufacture, details

Marketing & Business sales arguments, distribution

Life Cycle Expert maintenance, life-cycle control

Electrical Engineer functions, sensors, microprocessors

"If you have a hammer in hand, just nails are catching your eye"

Role ideas

Time Manager efficient and precise usage of time

Story Designer make it big

Data Mining Engineer obvious and unexpected sources

Business Shark how do we make money

User/Client Expert who are they and what motivates them

Devils Advocate what if

"If you have a hammer in hand, just nails are catching your eye"

Idea Generation

Brain storm rules

The **FLOW**

Variety of actions

Visualise & materialise ideas

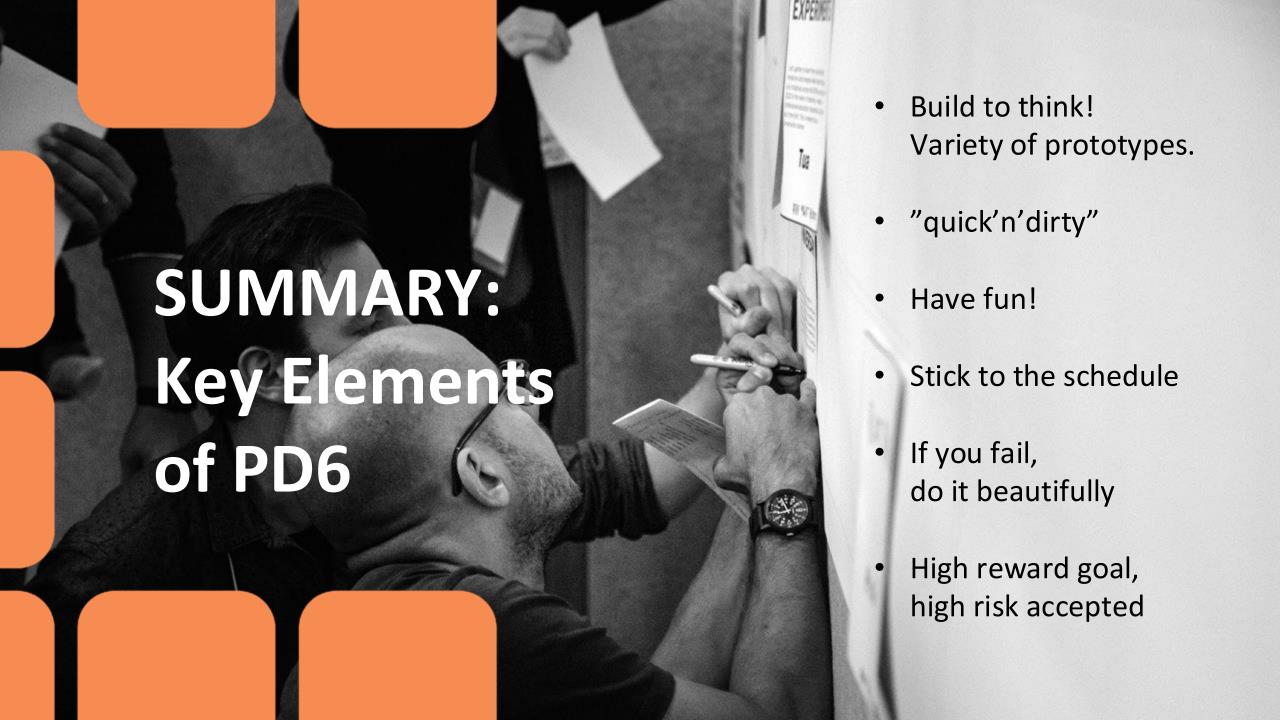


Demo or Die

- Radical viewpoints
- Choose your media
- Present <u>also</u> facts







Creativity in PD6

Perspectives to the problem?

How to harvest information?

How to experiment, prototype or test [virtually]?

Presentation or demo
– what makes "it"?

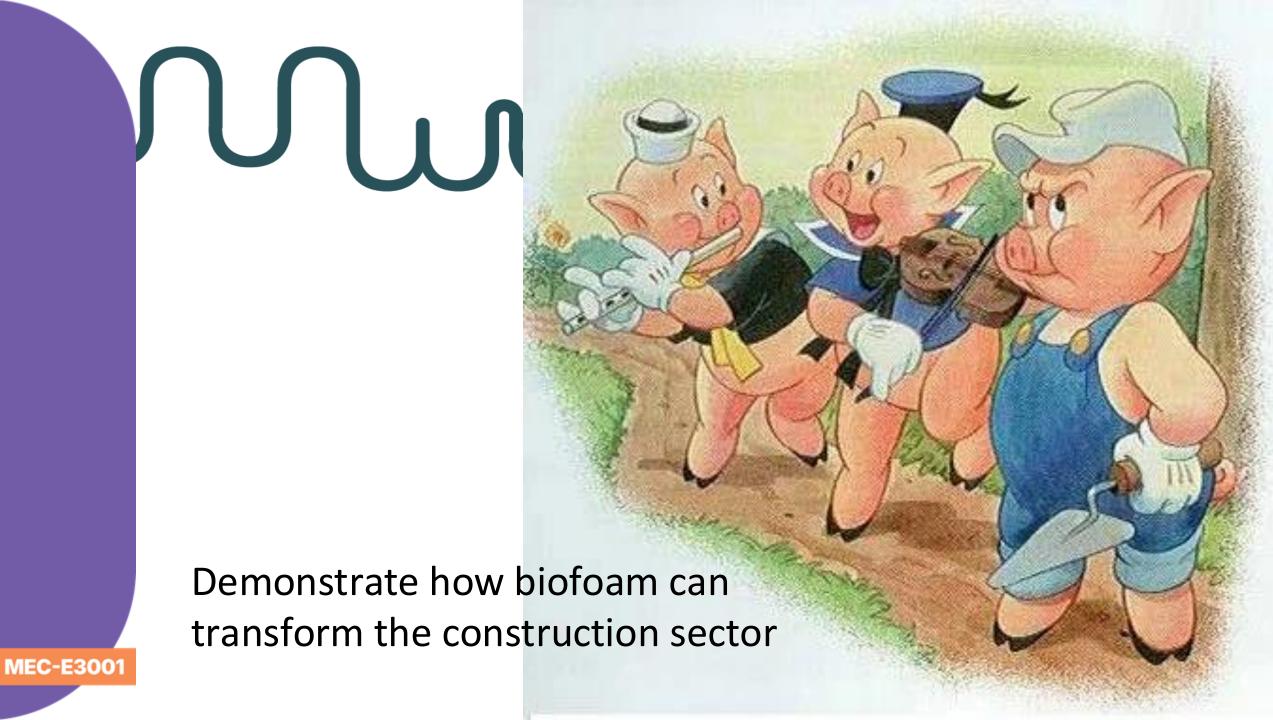




Redesign the packaging and application process of silicon products

Torggler





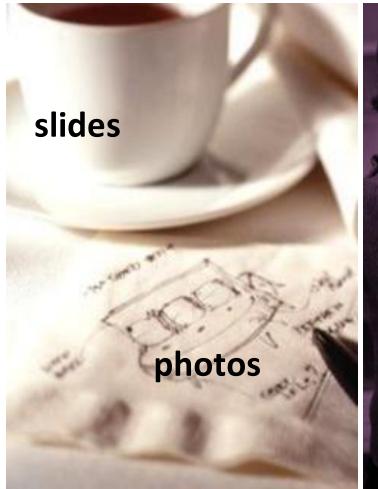


Develop a workwear that is more than a garment





Communicate your results in the most touching way







Practical Requirements

- a schedule for the day and roles defined (CP1)
- Minimum 3 phone calls made
- At least one meeting with an external party
- testing done (document & show!)

And all of those in a way that makes sense!

Demonstration

"Demo" e.g. 3D model, tangible or visual concept; a "prototype", mock-up, scale model or any demonstration that helps the audience to understand the value of your idea. Convince us!

And related story telling / presentation (altogether 5 min = 300 sec)

Practical advice:

- reserve little (enough) time for planning, designing & practicing
- no more than 3 powerpoints (if any)

However, you shouldn't forget

- ease of use, user experience
- (manufacturing) cost issues
- modularity
- safety
- variety of users (age, sex, size, profession, ...)
- statements against existing solutions
- what makes quality
- retrofit
- sustainability





