

#### Sessions

Wednesday 23.10. 15-17
Introduction to product development processes and course practicalities

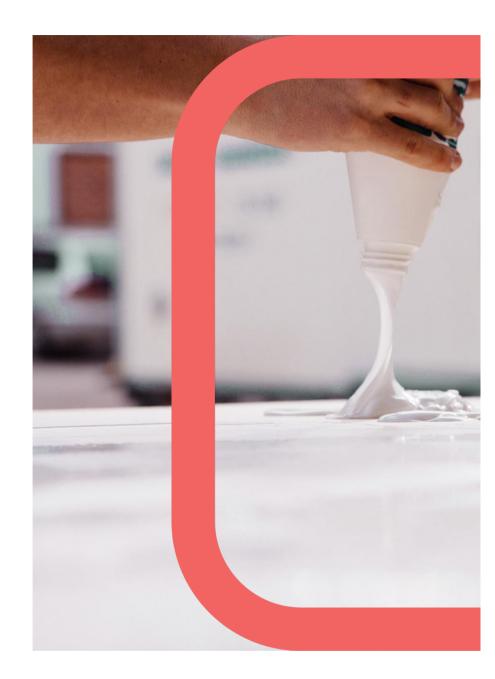
Wednesday 30.10. 15-17 \*shared session with PDP Needfinding

Wednesday 6.11. 15-17 \*shared session with PDP Value mapping, Visiting lecture from Ville Eloranta

Wednesday 13.11. 15-17
Problem framing

Wednesday 20.11. 15-17 \*shared session with PDP Ideation

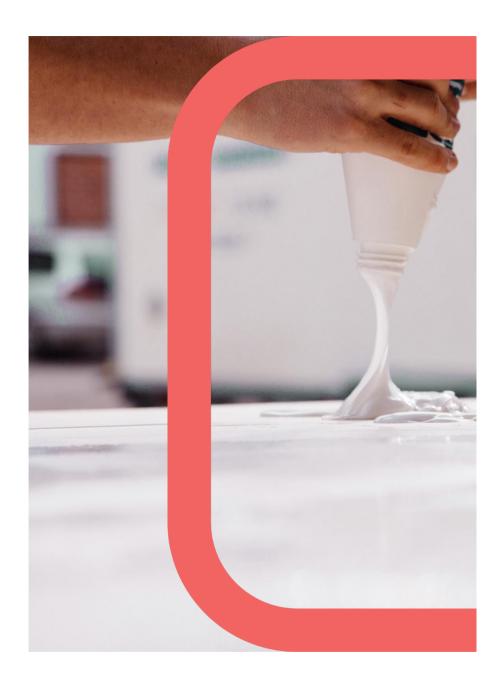
Wednesday 27.11. 15-17 \*shared session with PDP Concepts and Patents, Visiting lecture on patents from the Finnish Patent and Registration Office (PRH)



# Today's session

Developing ideas into concepts

Patents visiting lecture from the Finnish Patent and Registration Office (PRH)

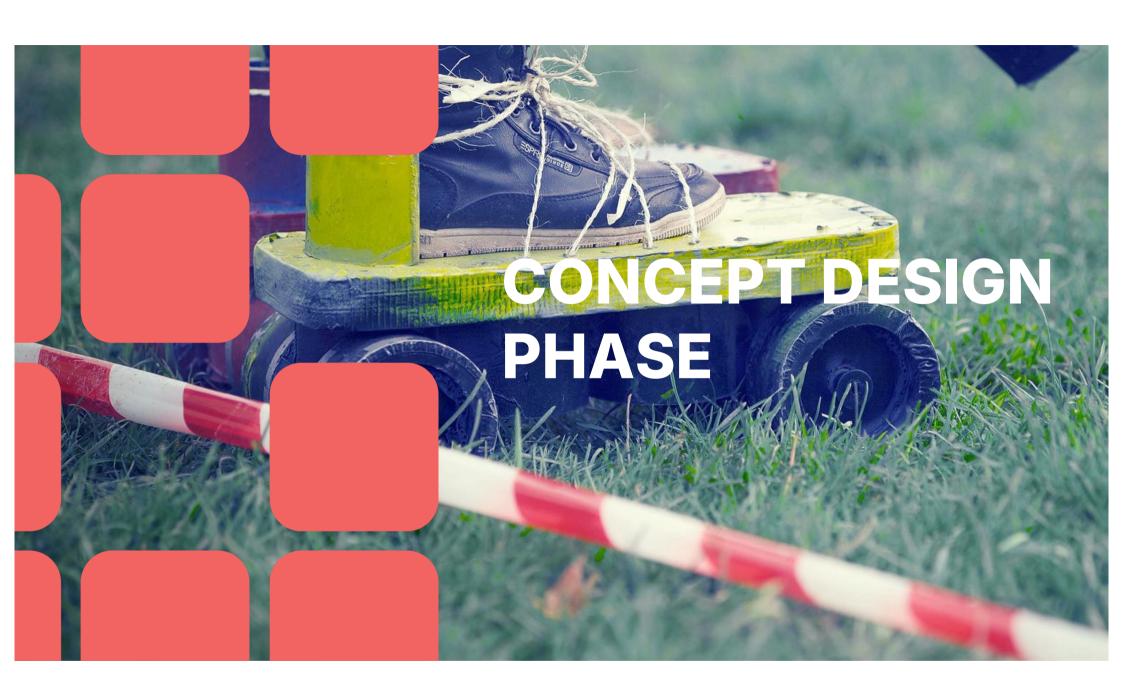


## Last time...

Ideation

Ideation assignment – selecting 5 ideas.





# Adding detail

## From one-liners to one-pagers

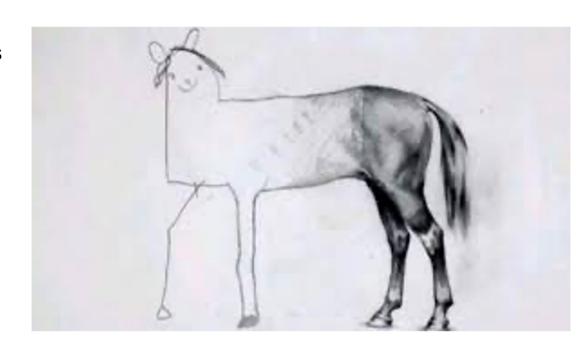
Ideation sessions produce raw ideas – more work is needed to flesh out ideas.

Concept development can also be done:

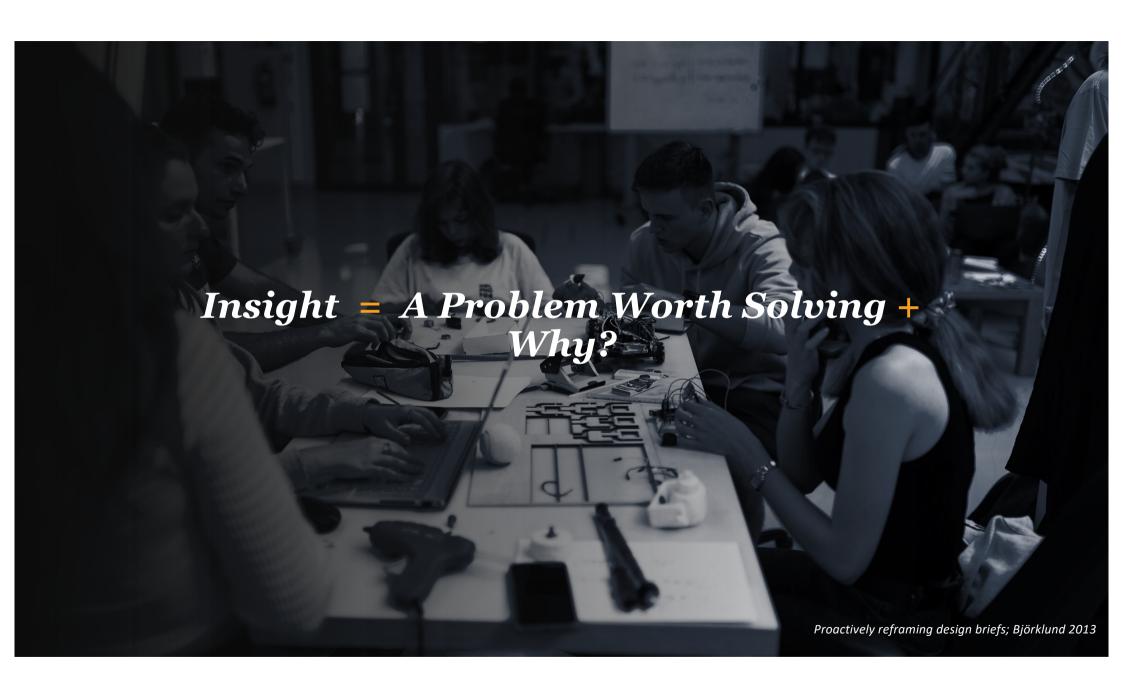
in collaboration with customers

in a form of more detailed ideation

through prototyping different potential versions



Concept description	Team name:
Concept name:	
What is the value to the customer? – also, who is the customer?	How is it different from other solutions?
How does it work? - Describe in practice?	What is the business value? – How do you make money?



# Why concept design?

A shared **vision** of an overall **direction**.

Dictates what will actually be designed next.

Which and what types of problems to solve on a detailed level.

At this point there are often still more questions than answers.

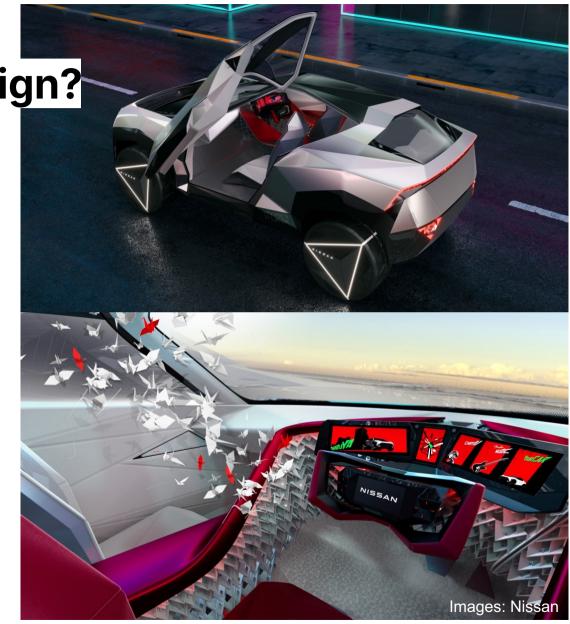
Why concept design?

Concept design can be used as a tool share visions even without an actual product development project at hand.

Envisioning futures, exploring what could be

Training the users, effecting public opinion

• • •

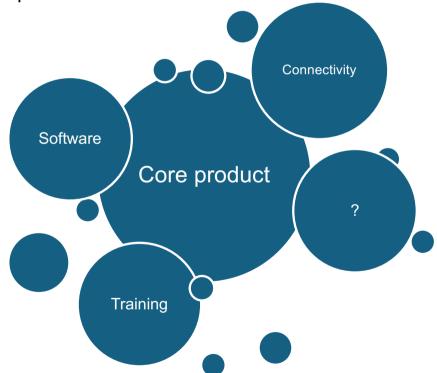


## Around a product concept

What else is there in addition to the core product? What else could there be?

What makes it stand out?

How is it linked to other systems?





Concept

## **Product**



## Concept development focuses on...

**Ergonomics** 

Material selection,

Sustainability

Visual appearance

Manufacturability

. .



#### Task:

- 1. In your group, have a look at the five ideas you selected as a part of the previous homework assignment.
- 2. Discuss and evaluate those ideas in means of which ones would be interesting to explore a bit further by fleshing them out into concepts. Why? What makes the ideas strong? What is missing?
- 3. Prepare to share your thoughts to the class.

## **Concept selection**

Evaluating against customer needs and other design criteria

Comparing the strengths and weaknesses of multiple concepts

Selecting one or more concepts for further investigation, testing, and development.

#### **Not forgetting:**

User feedback

Testing, reflecting, and learning

+ Use a method for selection (many methods are available, e.g. in Product design and development, Ulrich & Eppinger)

## **Concept selection**

Convergent phase (compare to ideation that is divergent.)

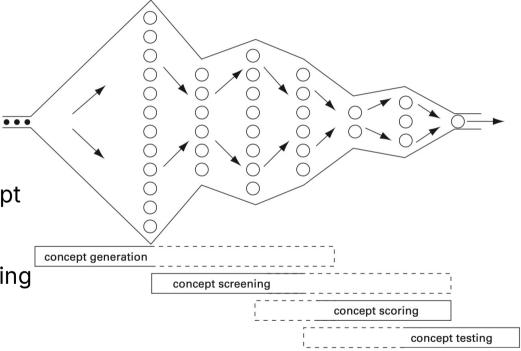
Space for analytical thinking.

#### Frequently iterative!

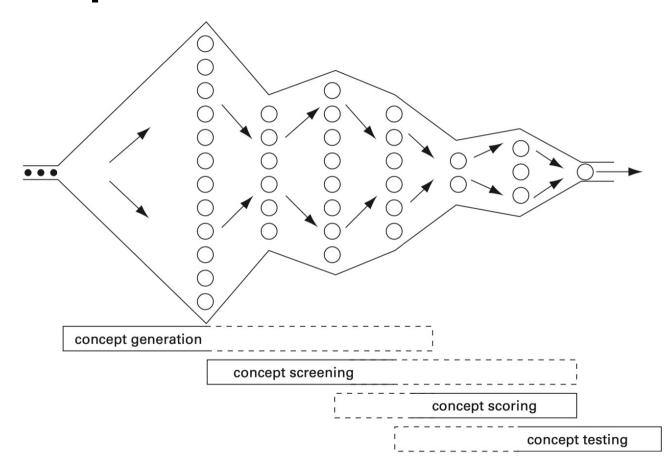
Not getting to one winning concept immediately.

Possibility to go back to the drawing board.

Combining, improving, ideating subsections



# **Concept selection**



#### This is brilliant!

When you think you might have invented something new...

IP - legally protectable ideas, concepts, names, designs, and processes associated with a new product.

There are multiple mechanisms and tools.

#### Make sure to do these:

#### Group assignment

Concepting assignment, DL 5.12.

Group submission through MyCo.

#### Individual assignment:

Quiz based on readings, DL 5.12.

Quiz based on course contents, DL 5.12.

