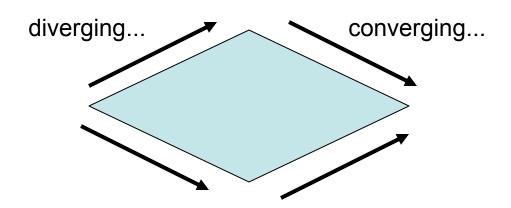
21 marzo - 4 aprile

From
Benchmarking
to
Functional and
Experience
Prototyping

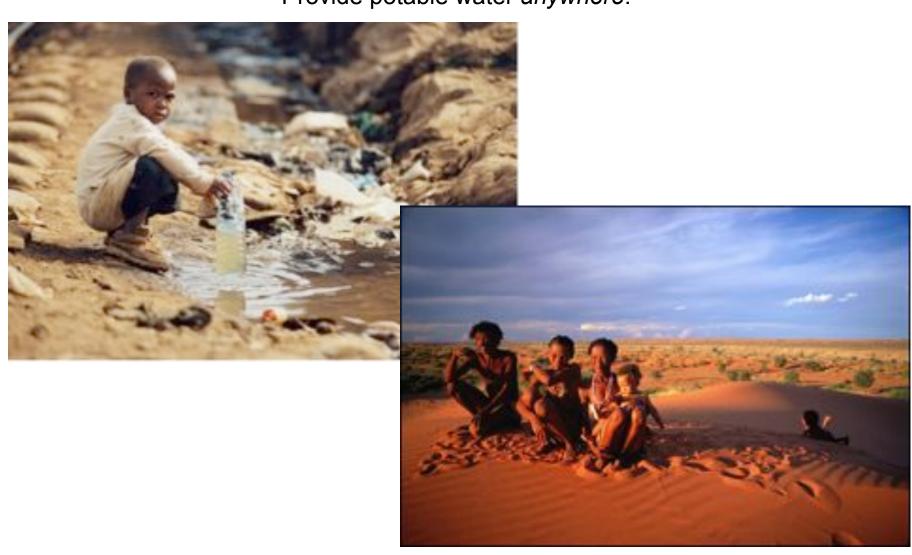


Meanwhile...
continue meetings
with teams

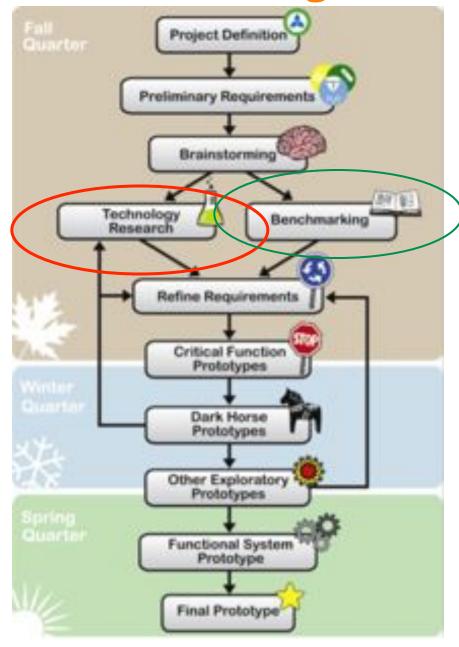


Technology Benchmark Example: ME310 Immerse Global (2008)

Provide potable water anywhere.



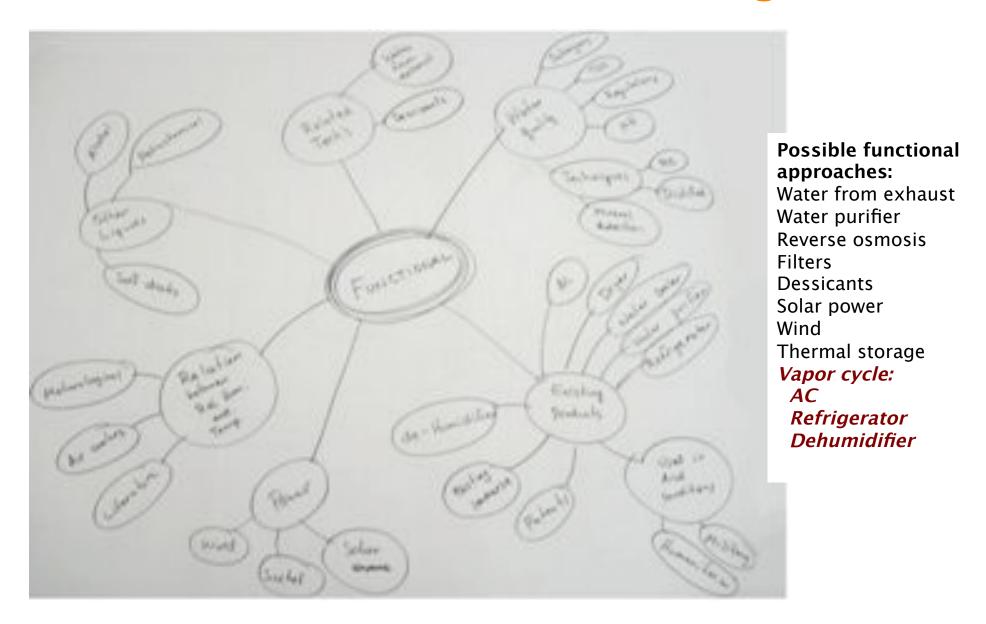
Immerse Global Design Process



Functional, physical

User, experiential

Immerse Global (brainstorming)



Immerse Global: technology benchmarking





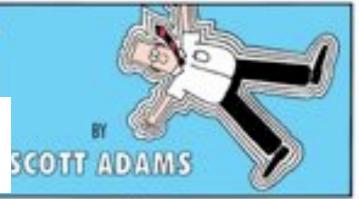




Figure 19: Disassembled refrigerator



requirements definition: (who is at fault here?)

















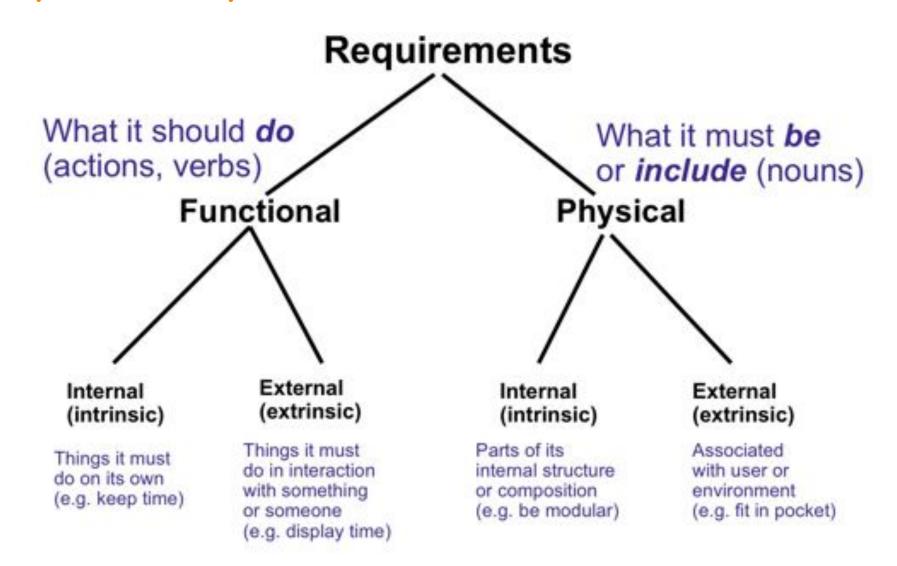


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the point is...

When defining a novel product you need to figure out your own requirements.

Types of requirements: Sometimes a Functional/ Physical decomposition is useful:



Critical Function Prototype Critical Experience Prototype

- Due: 11 aprile
- Starts the synthesis phase of a project
 - Build something
 - Do something
 - Learn something
- What it's not: Not a mockup. Not a paper study.
 Not a survey...
 - **x** dimostrare
 - ✓ informarsi

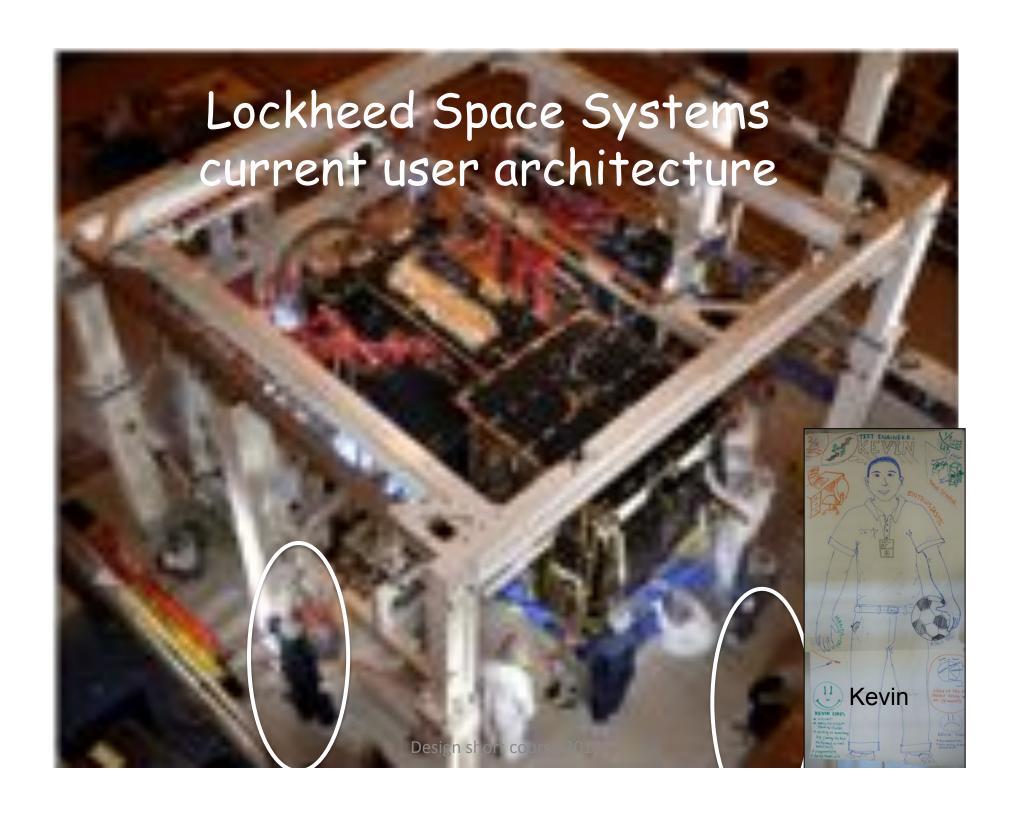
CFP (critical function prototype) CEP (critical experience prototype)



 a prototype designed to explore one important functionality or requirement

What is a Critical Function Prototype?

- Create a physical thing or system that lets you explore some interesting part of the design space.
 - Is not a total solution. Focus on one specific component or function.
 - Really prototype. (Buying several things at Carrefour or UniEuro and throwing them together will not suffice...)
 - It can be very rough! (cartone, elastici, nastro americano...)
- Talk about what you chose
- talk about design insights you gained

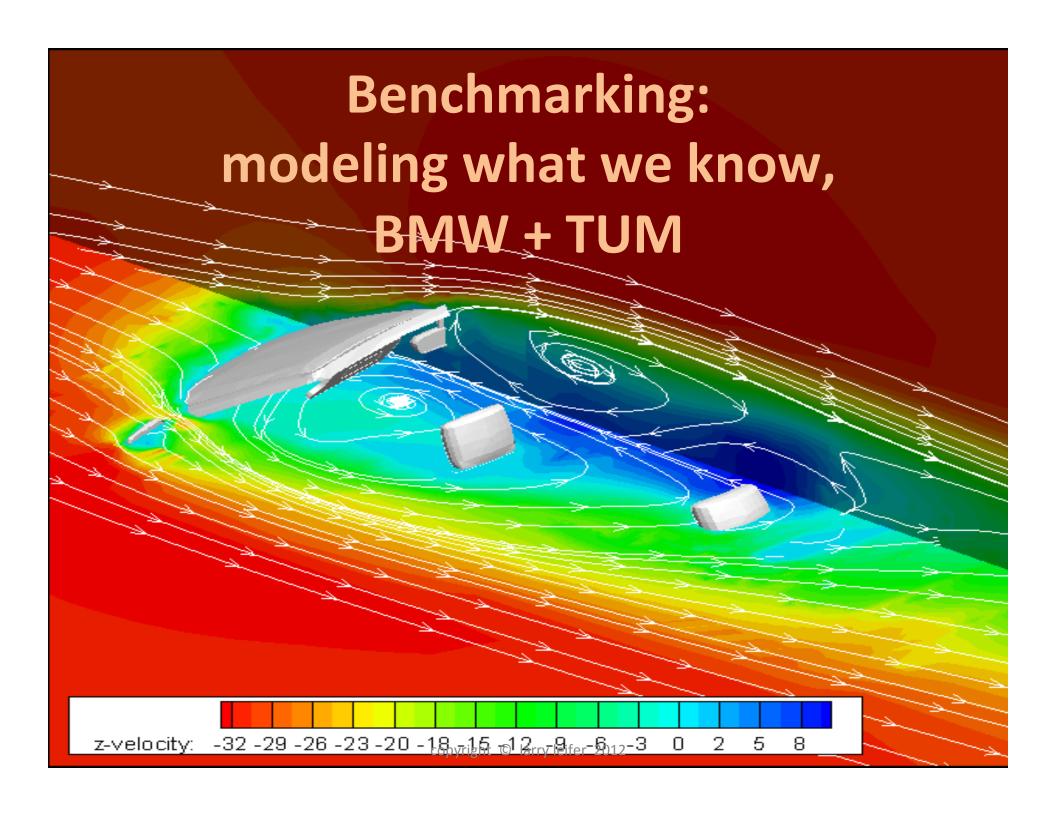




What is a Critical Experience Prototype?

- Create an experience that is "real enough" to gather some insights (intuitzione).
 - Many implementation details can be "smoke and mirrors" or "Wizard of Oz" (effetti teatrali).
 - Focus on the effect and what you can learn from watching people experience it.
- For fall report: Document it via Storyboard,
 Video, Process Flow Diagram, etc.
- Also document findings (need not have all results by CEP/CFP review day).





critical experience prototype

testing what we don't know



airflow revisited









Design Development

Background

Project Vision

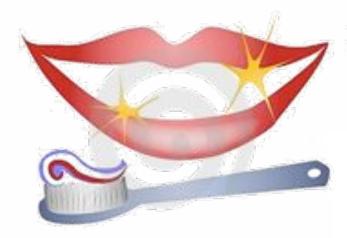
Design Requirements

Design Development

> Future Work

Understanding Oral Hygiene Benchmarking Current Tech Mapping the Needs





Background

Project Vision

Design Requirements

Design Development

> Future Work

CEP - Motivational

Calendar + Game



Background **Project** Vision Design Requirements Design Development Future Work

CFP - Feedback



WiiBrush

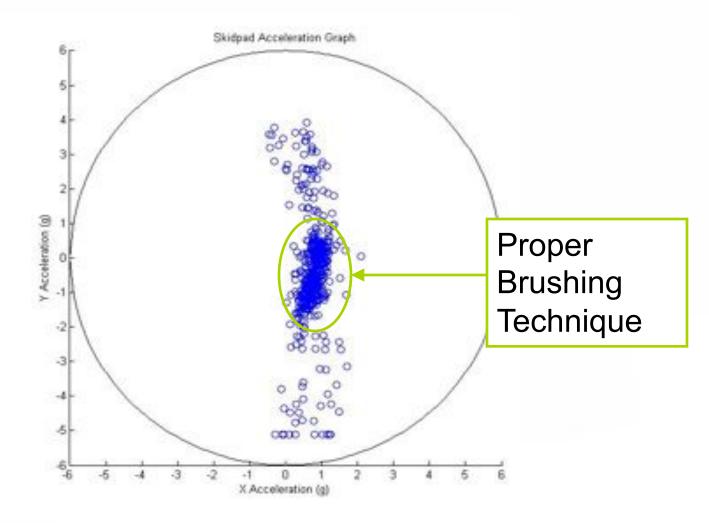


Accelerometer Brush



Background Project Vision Design Requirements Design Development **Future** Work

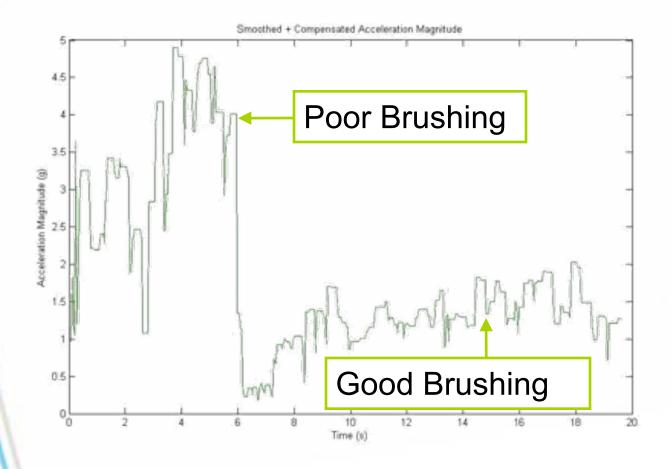
Accelerometer Brush





Background **Project** Vision Design Requirements Design Development Future Work

Accelerometer Brush



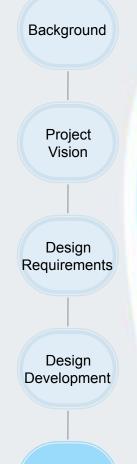


Future Work

Refine target user identity

Discover optimal engagement level

for target group



Future Work





everything is worth (Greg Kress) trying.