



BUILDING THE CORE DESIGN



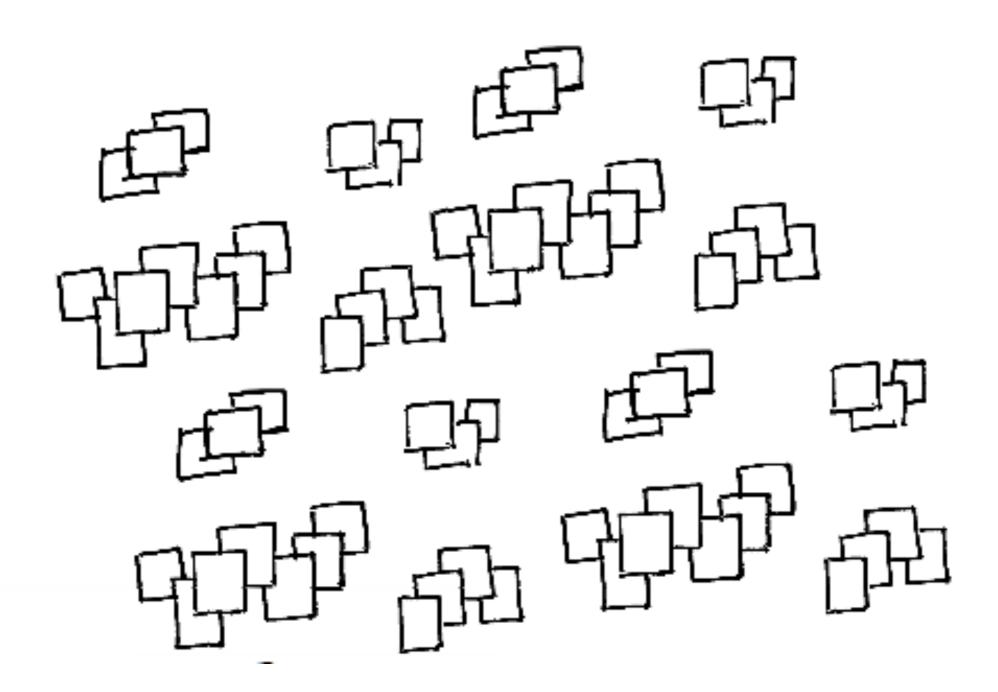


TODAY...

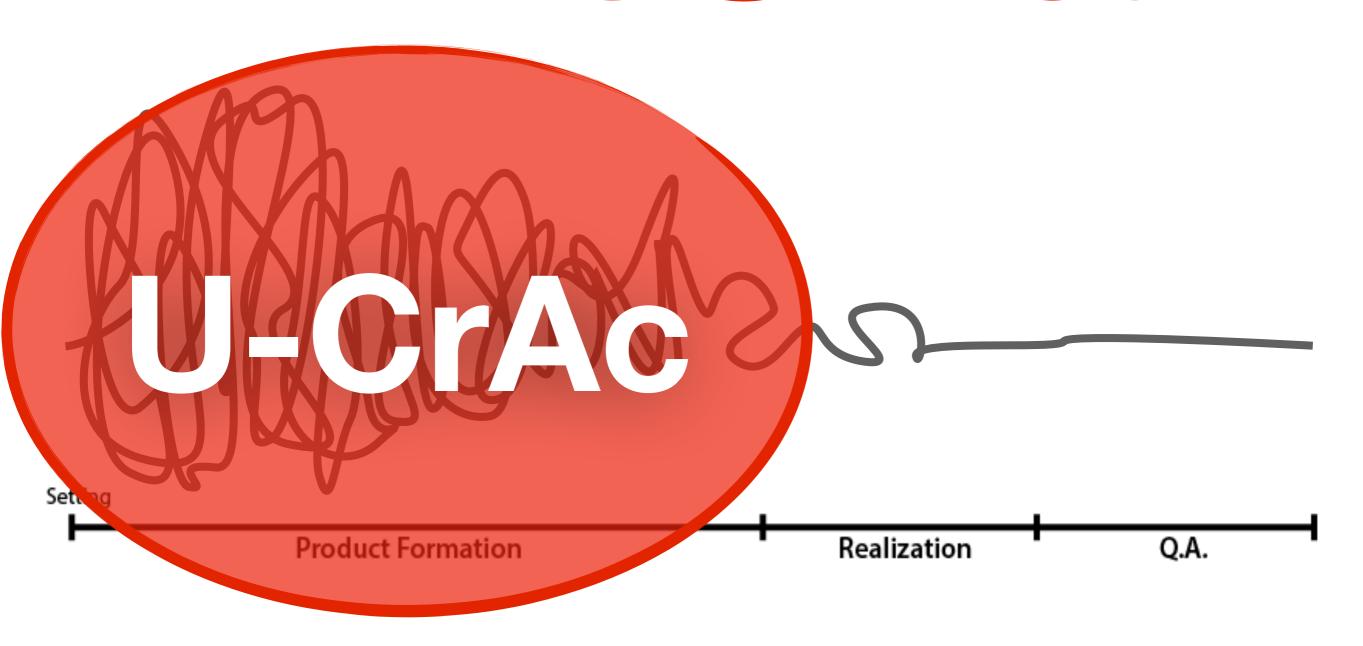
9:15 - 11:00'ish: Core Design lecture

11:15'ish - Monday: Defining innovation tracks

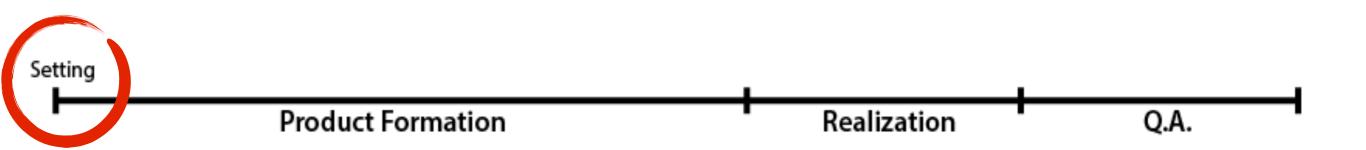
STATUS...



Design Cycle Fuzzy!

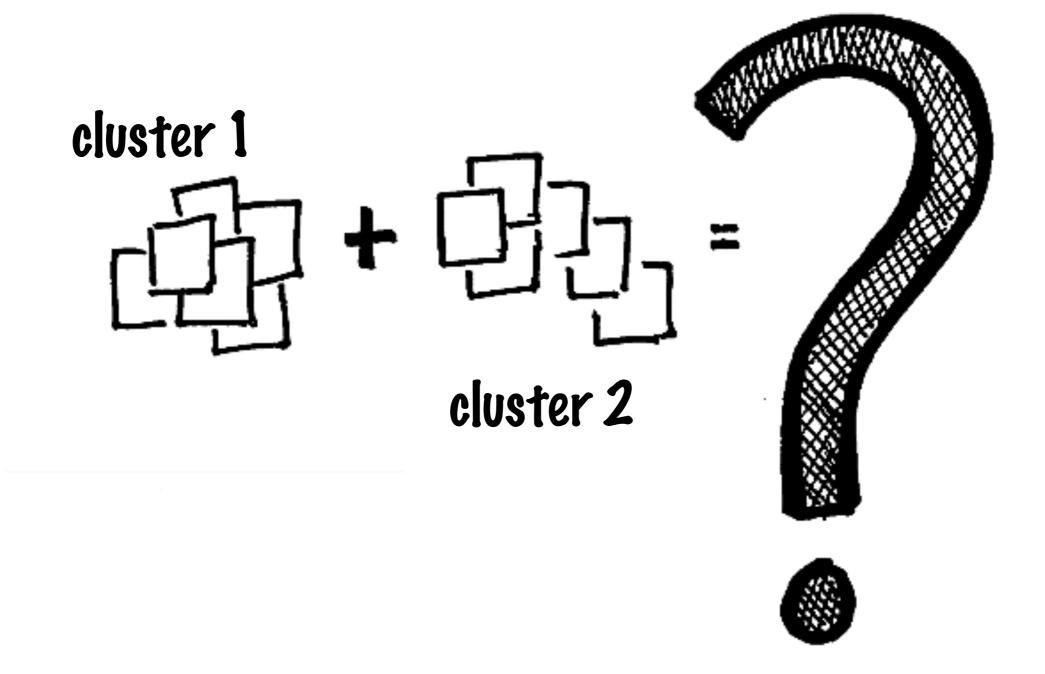


Design Cycle: setting



The Design Cycle is **a major iterative movement** from the product **formation**, towards production **realization**, ending in **quality assurance**

NEXTWEEK...

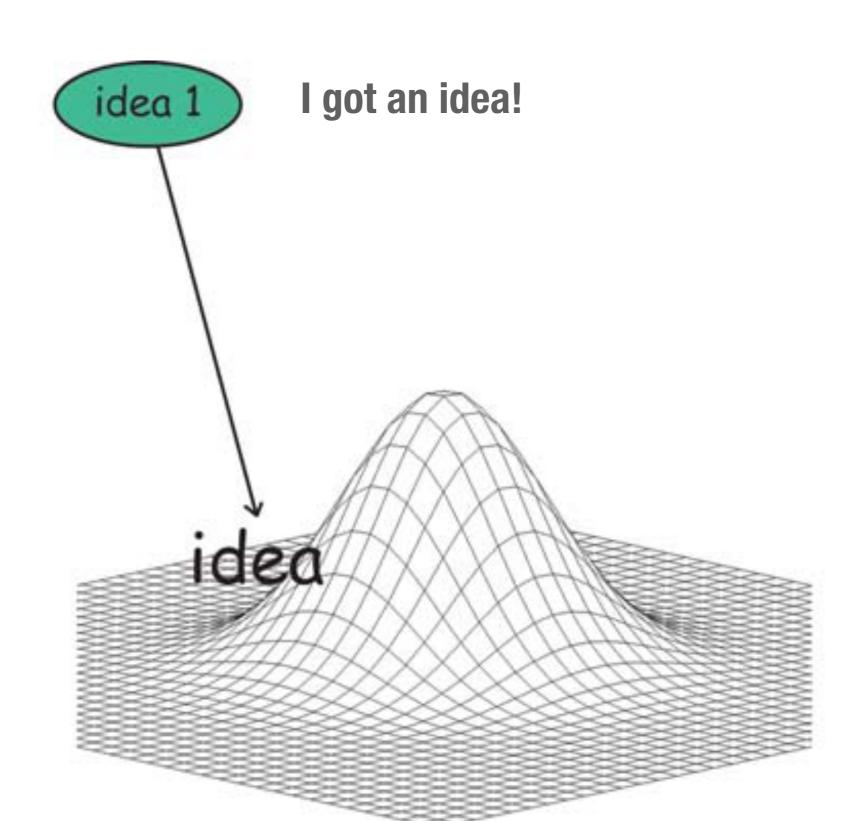


I got it! I know how to solve the problem, and my idea is basically the best idea since both pickled eggs and the i Phone!



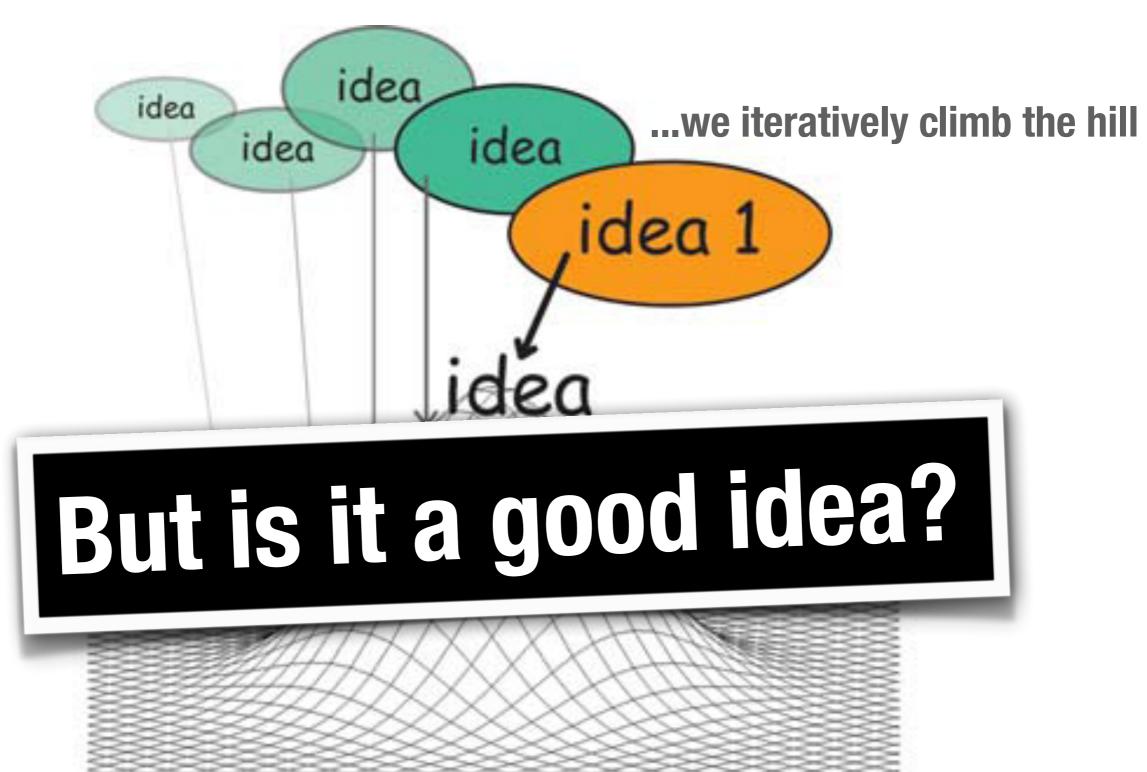
Local hill climping

The first idea gives us a space to explore...



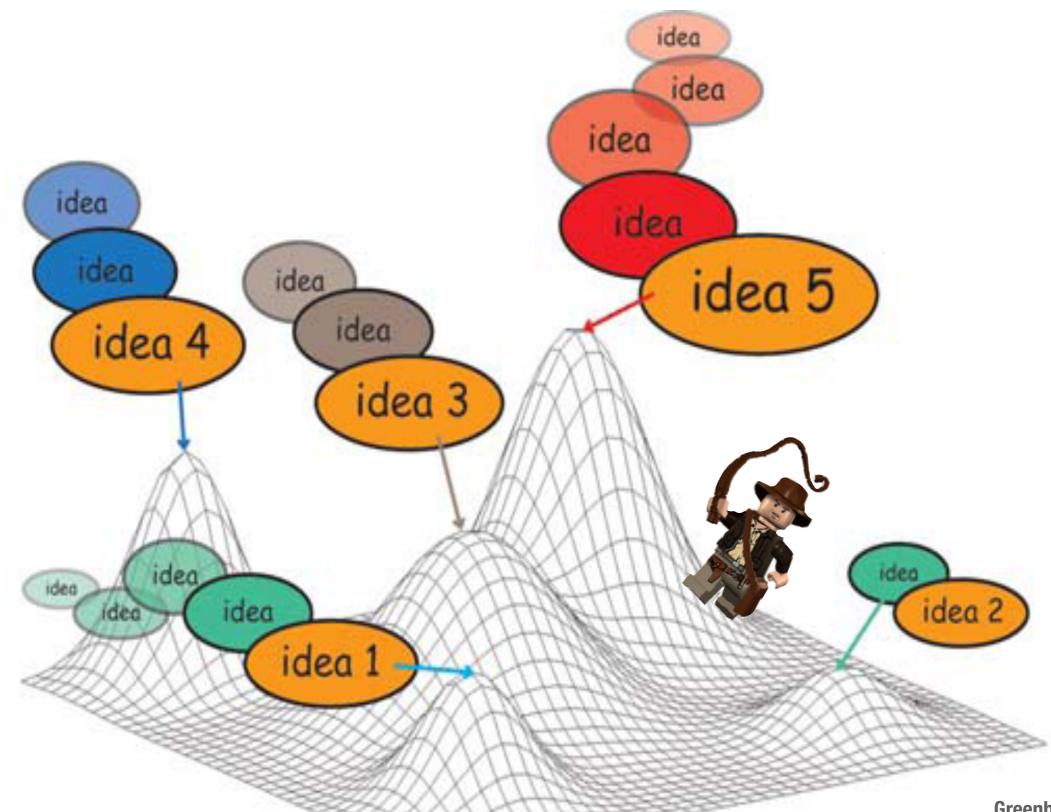
Local hill climping

After some time and work we reach 'the local maxima'



The problem is quite clear

The local maxima is not always equal to the global (optimal) maxima



...history has a lot of examples

So get 'the right design' before working to get 'the design right'



The inertia of innovation

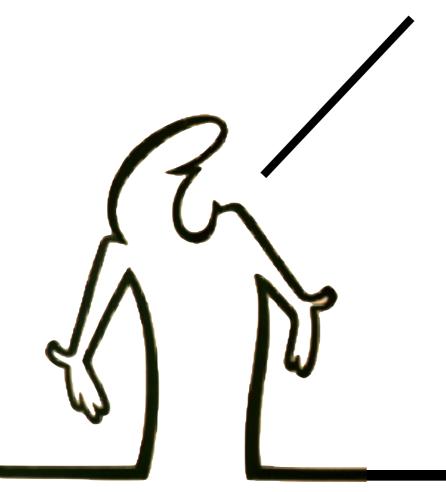
We need tools that allow us to avoid the pit fall of local hills

"In terms of stifling innovation, **good ideas are more dangerous than bad ones.** They take hold, assume momentum, and therefore result in **intertia**"

Buxton 2007

...intertia must be avoided

But how do we identify what the global maxima is?

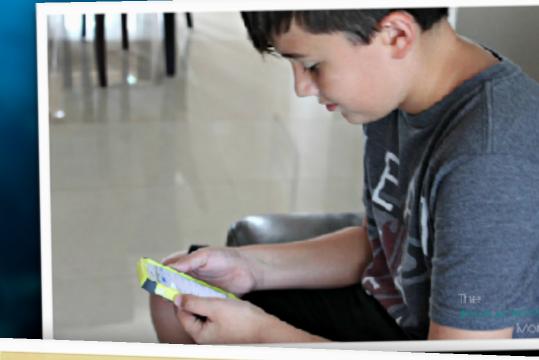


Case example

THE NORTH SEA WANTED AN ENGAGING DIGITAL EXPERIENCE

The visitor group of tweens (10-12 years) mostly saw a visit with their family to the Oceanarium as more of duty, rather than a <u>fun experience...</u>

...instead they sat with their phones





THE MOVIE Maker

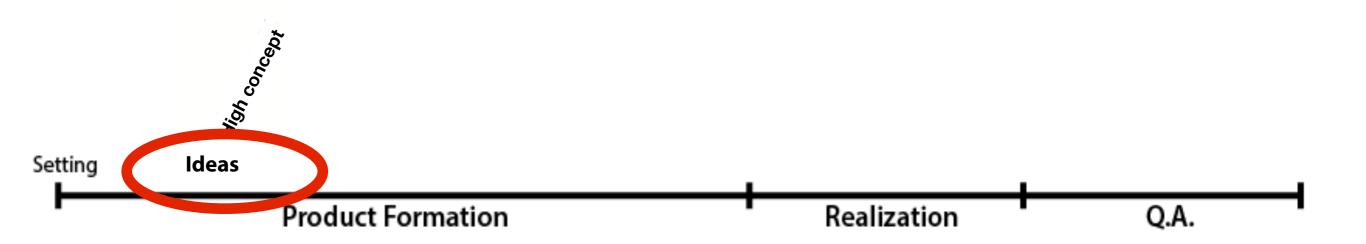
DIRECT a SLap STICK MOVIE OF YOUR FAMILY'S VISIT

NORDSDEN MOVIE MAKER

Optag sjove film med vores gratis iPhone app!



Design Cycle: IDeas

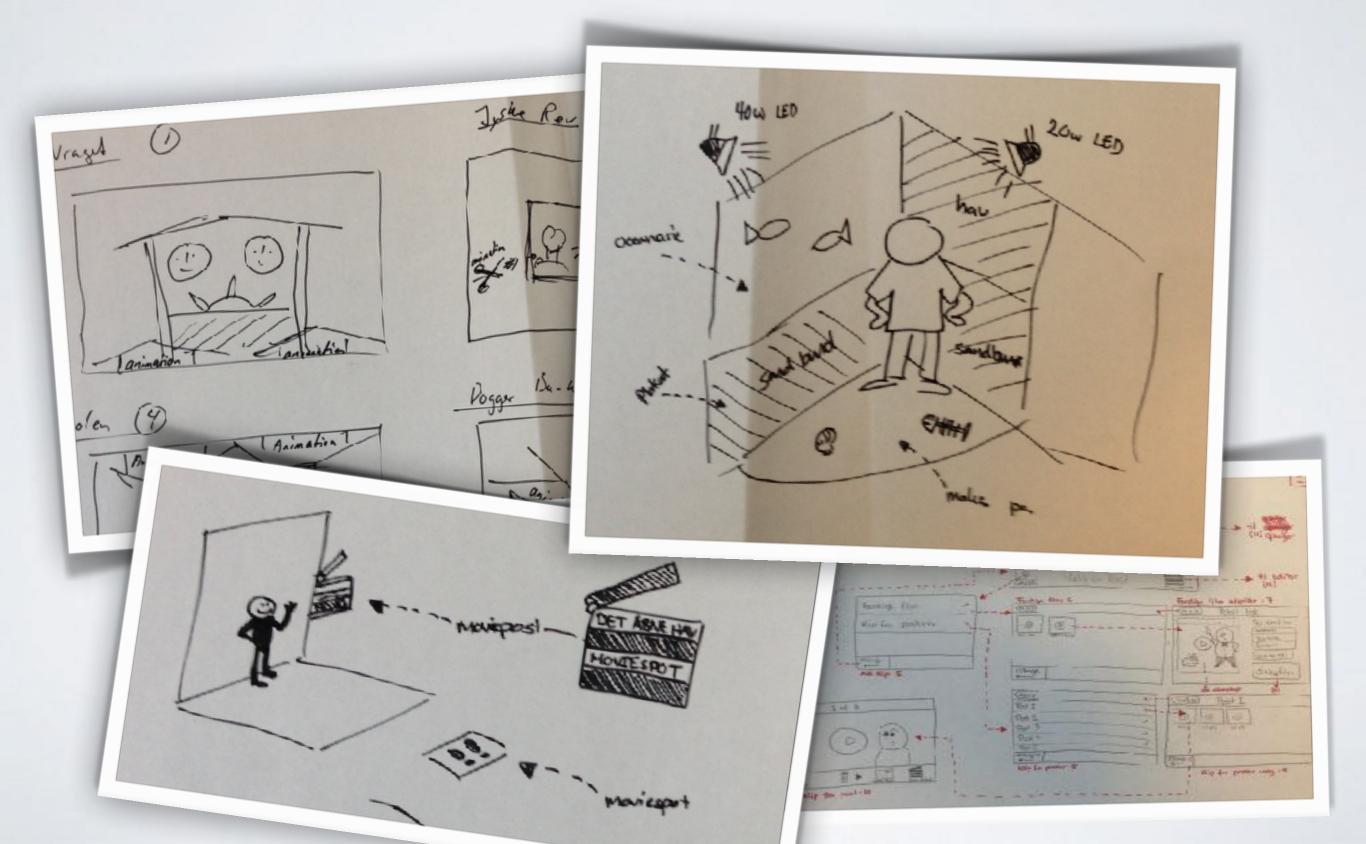


The idea is generated as **the basis for a project vision**, which might be formulated and illustrated in different ways.

mapping insights



sketching ideas



HIGH CONCEPTS Reading of Time State | State of the State



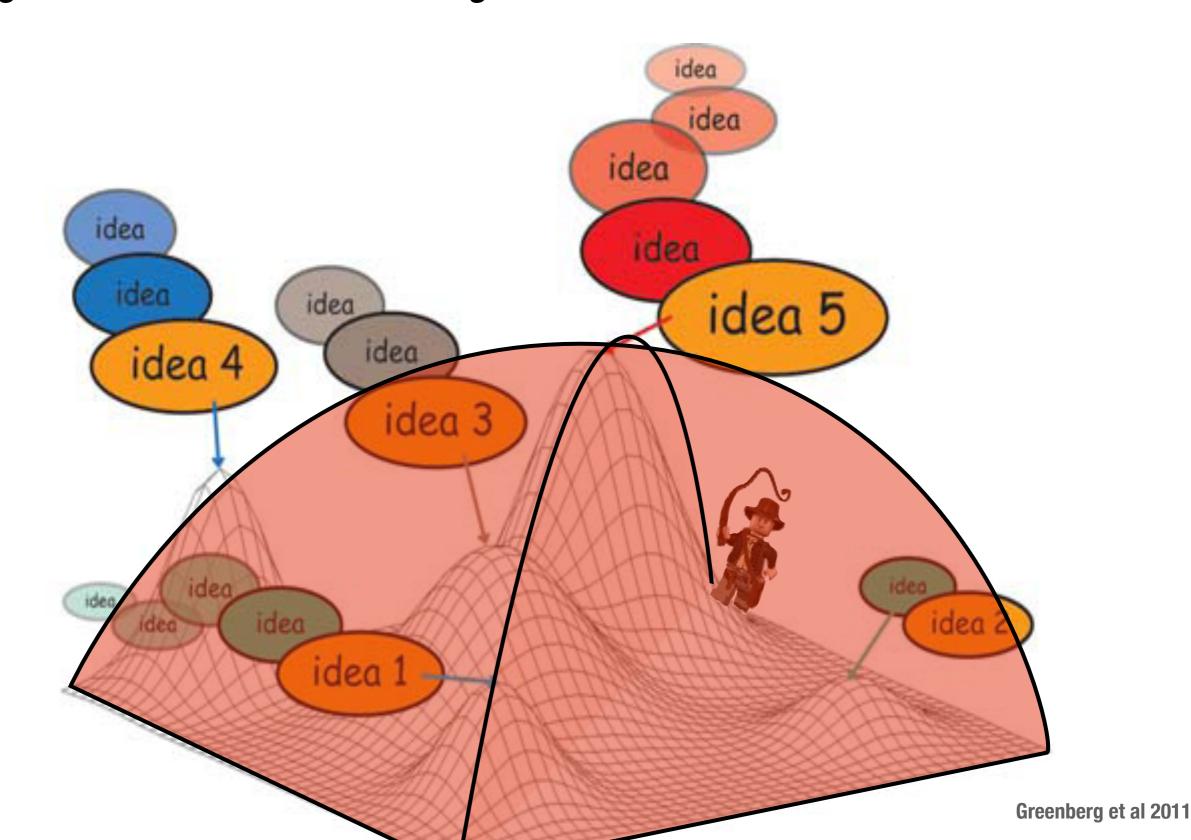
DELIG

+ GALLERI

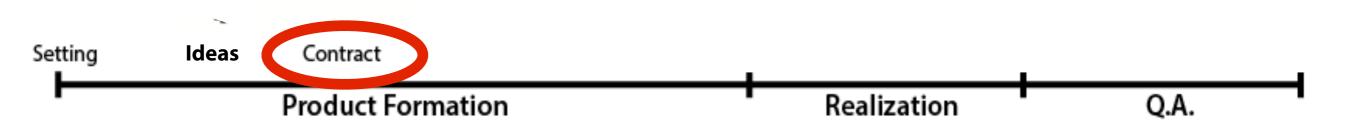
Post 3

Post 4

exploring the spectrum is crucial!



Design Cycle: contract



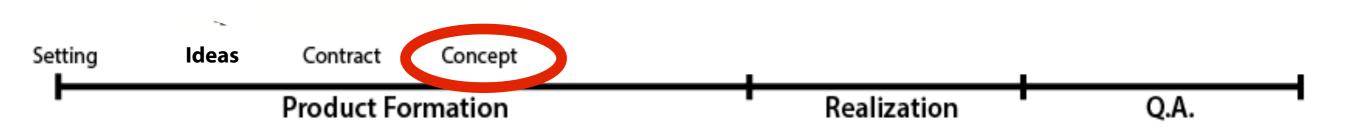
Rosenstand & Kyed 2013 + Vistisen & Rosenstand 2016

Time (e.g. launch in week 42)

COSt (e.g. 250.000,-)

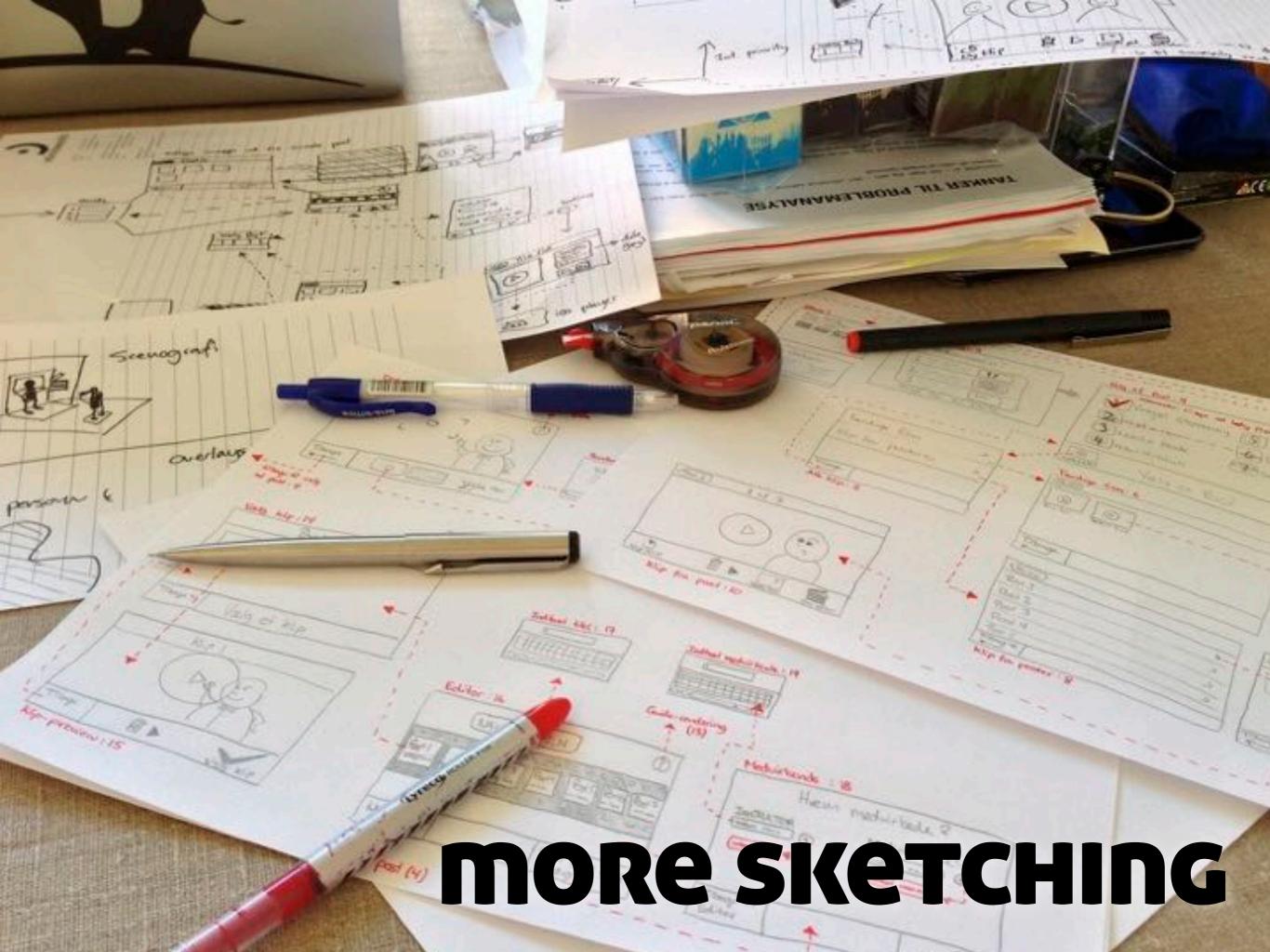
Quality criterias (e.g. smartphone platforms, user experience goals)

Design Cycle: concept

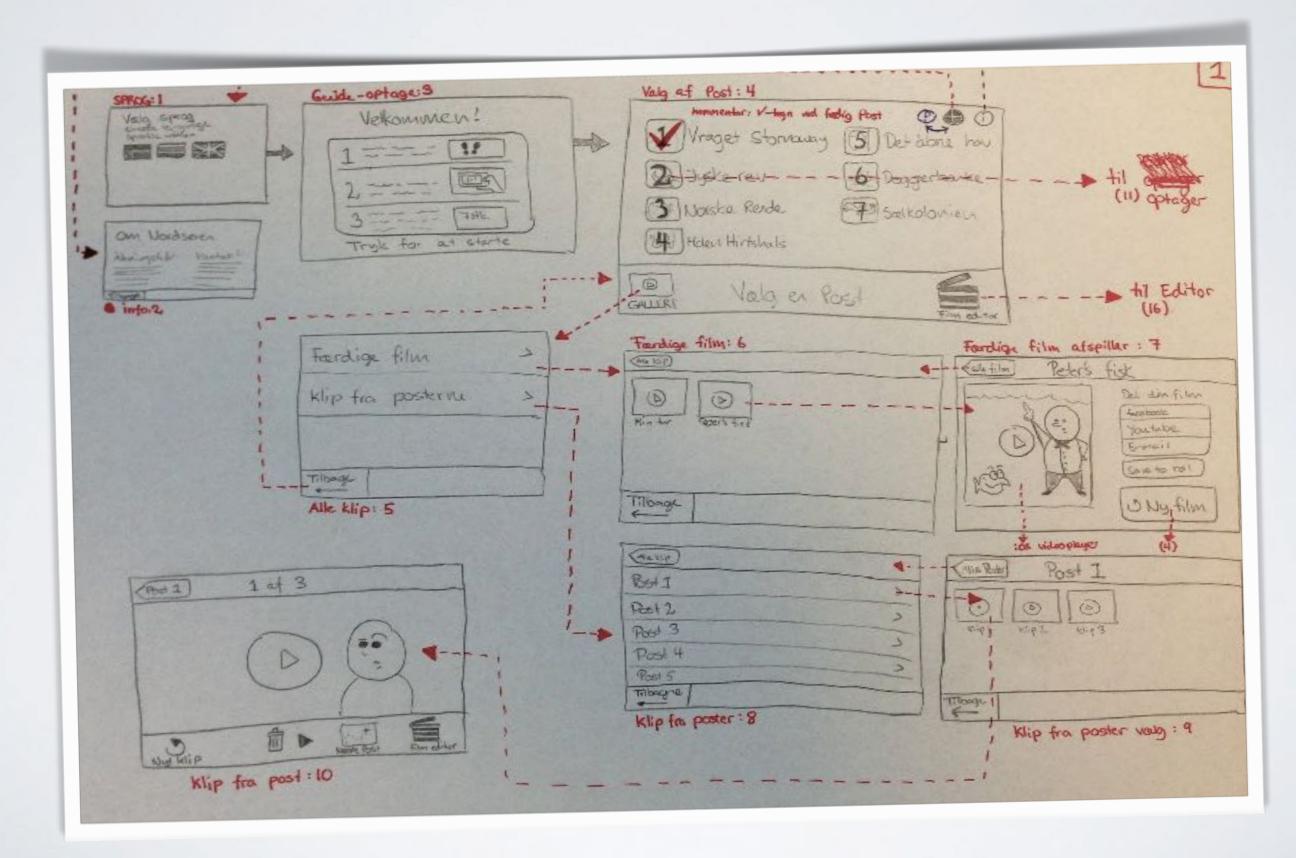


Rosenstand & Kyed 2013 + Vistisen & Rosenstand 2016

Concepts converge towards mixing features and content



IT Became Rather complex



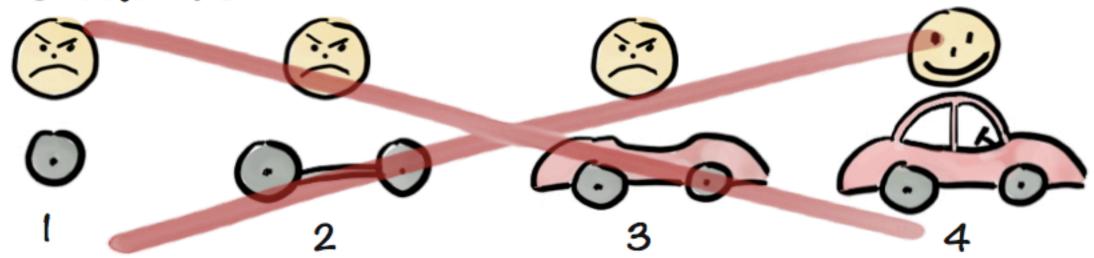
and then we can do this and this



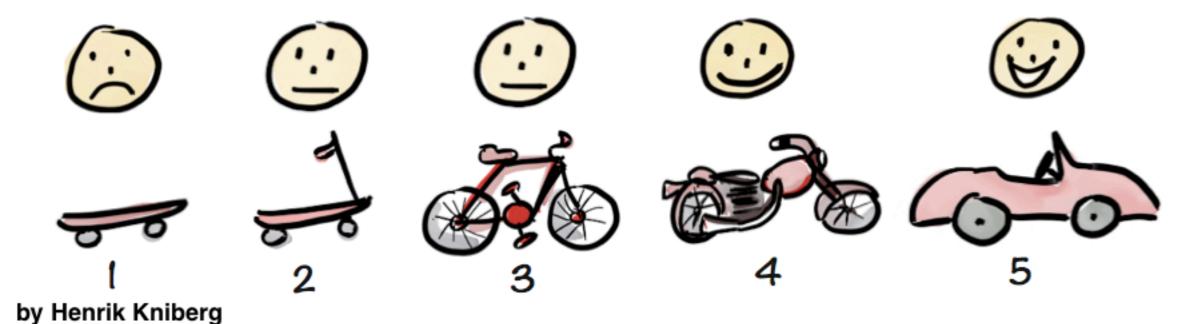
THE PROBLEM WITH MVP'S

minimum viable products are ofte to feature-focused





Like this!



THE MINIMUM VIABLE PRODUCT

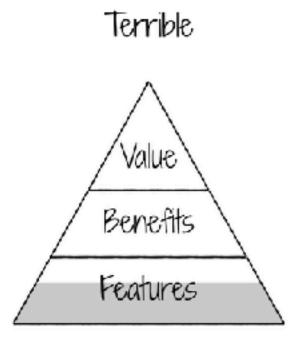
HOW DO WE START SMALL IN ORDER TO SCALE BIG?

"The minimum viable product is that **version of a new product** which allows a team to collect the
maximum amount of **validated learning about customers** with the least effort."

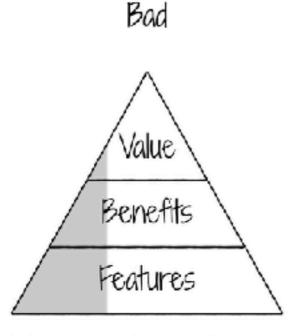
Eric Ries (2009)

THE PROBLEM WITH MVP'S

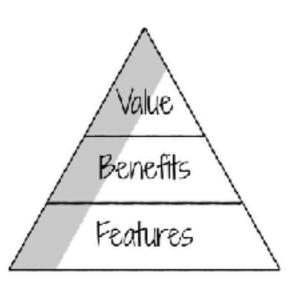
minimum viable products are ofte to feature-focused



When you ask yourself "which features can I build"

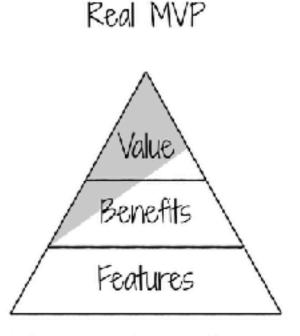


When you ask yourself "What are the minimum features to provide at least some value"



0k

When you ask yourself "what version of my product can I build, that captures most of the value?"

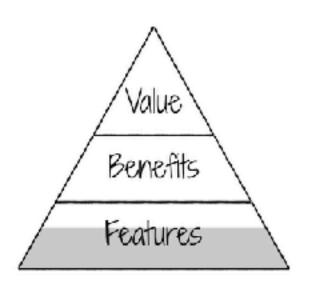


When you ask yourself "how can I validate my value proposition"

THE PROBLEM WITH MVP'S

minimum viable products are ofte to feature-focused

Terrible



When you ask yourself "Which features can I build"

Design Cycle: core design

Talk about desired core qualities before finalized complex ideas

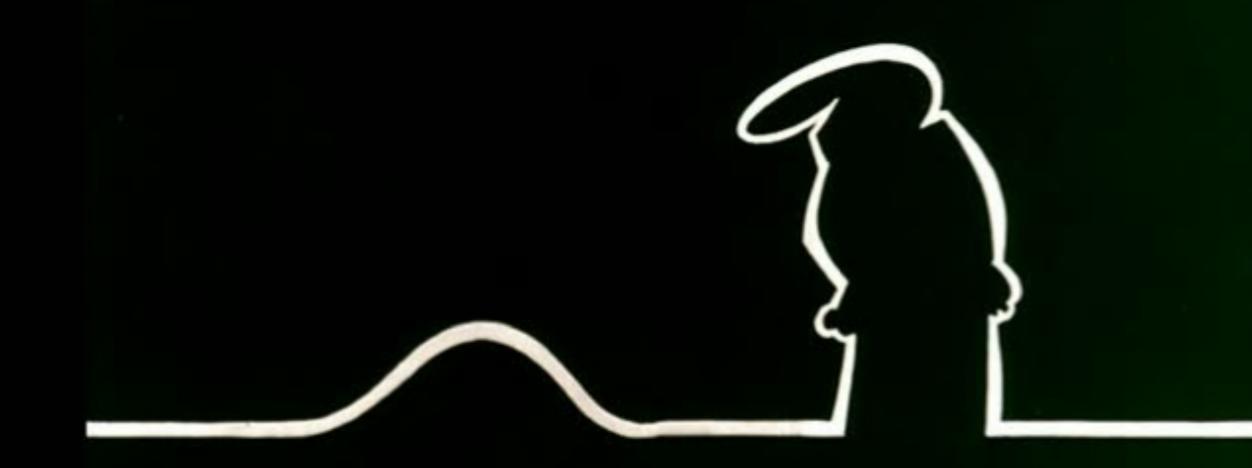
Design Cycle: core design

The basic idea of Core Design is to **focus on the core of the future system**, make that work with as few features and assets as possible, check it again, and be sure it actually works; and then **create the full system around the core**.

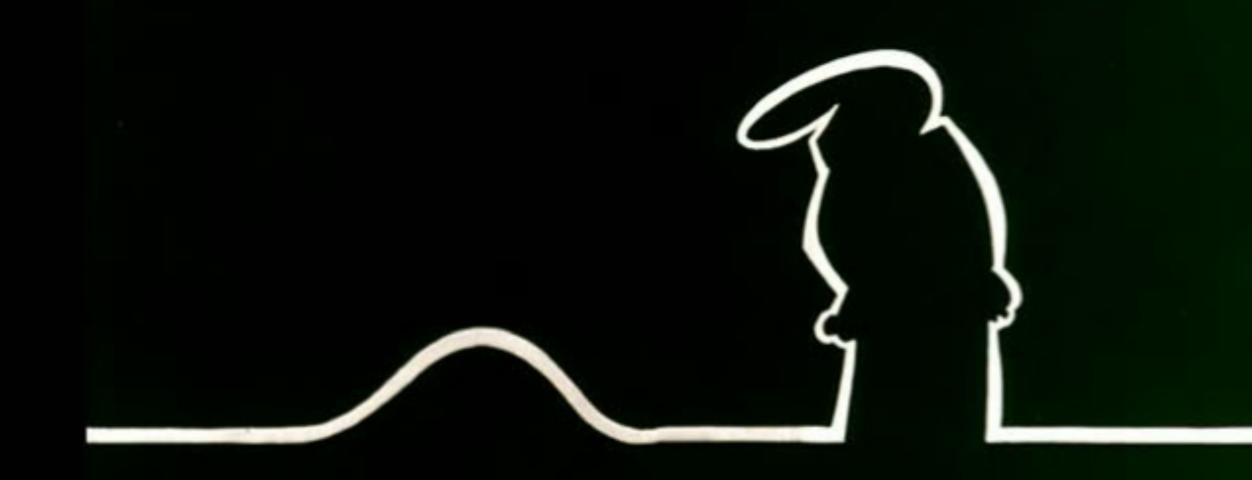
Behind any complex system, there is a simple core system.



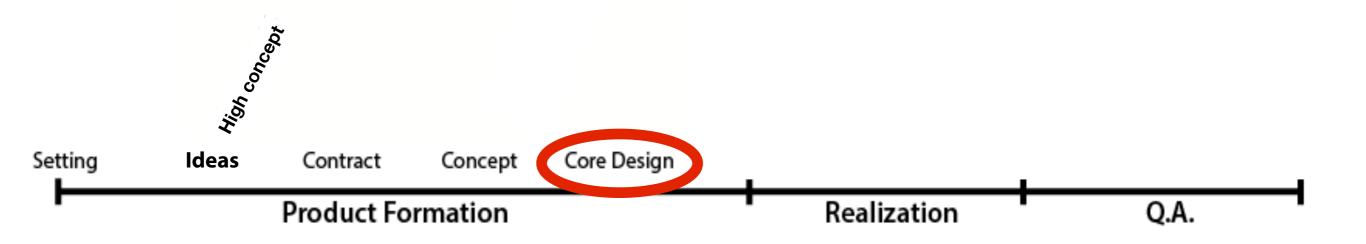
IT IS A BIT ABSTRACT WITH ALL THE CORES AND BIG SHITS AND ALL...



Behind any complex system, there is a <u>simple core system</u>.

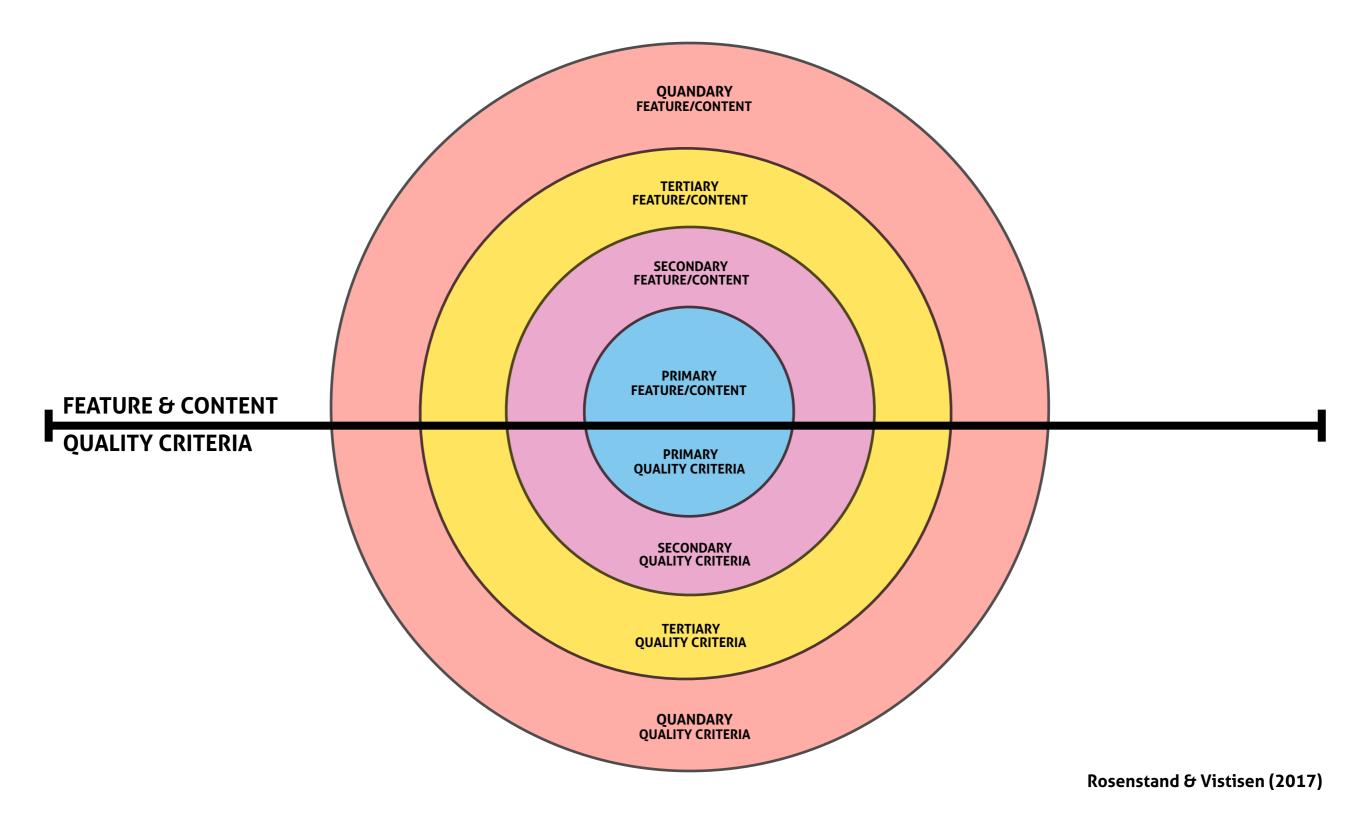


Design Cycle: core design

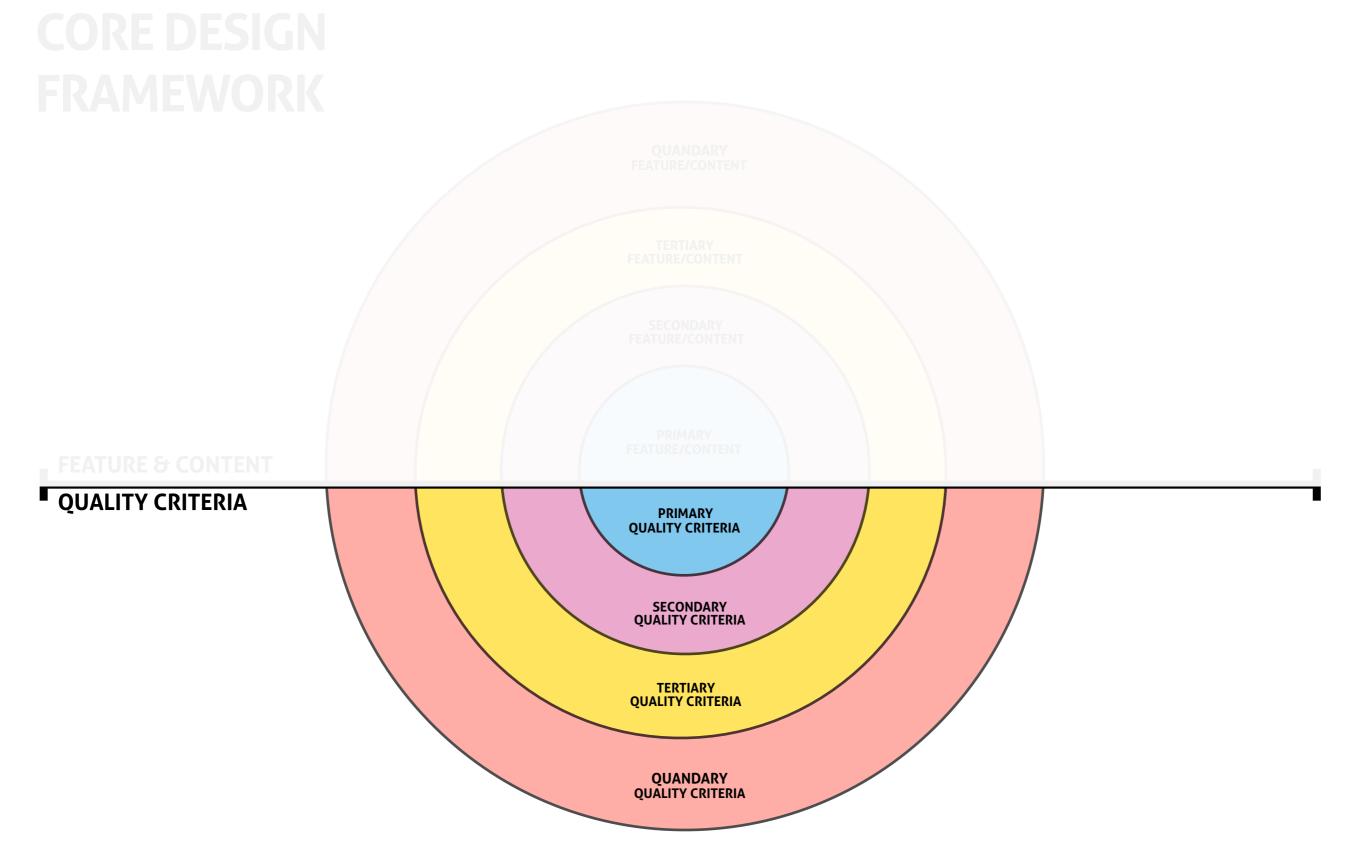


Rosenstand & Kyed 2013 + Vistisen & Rosenstand 2016

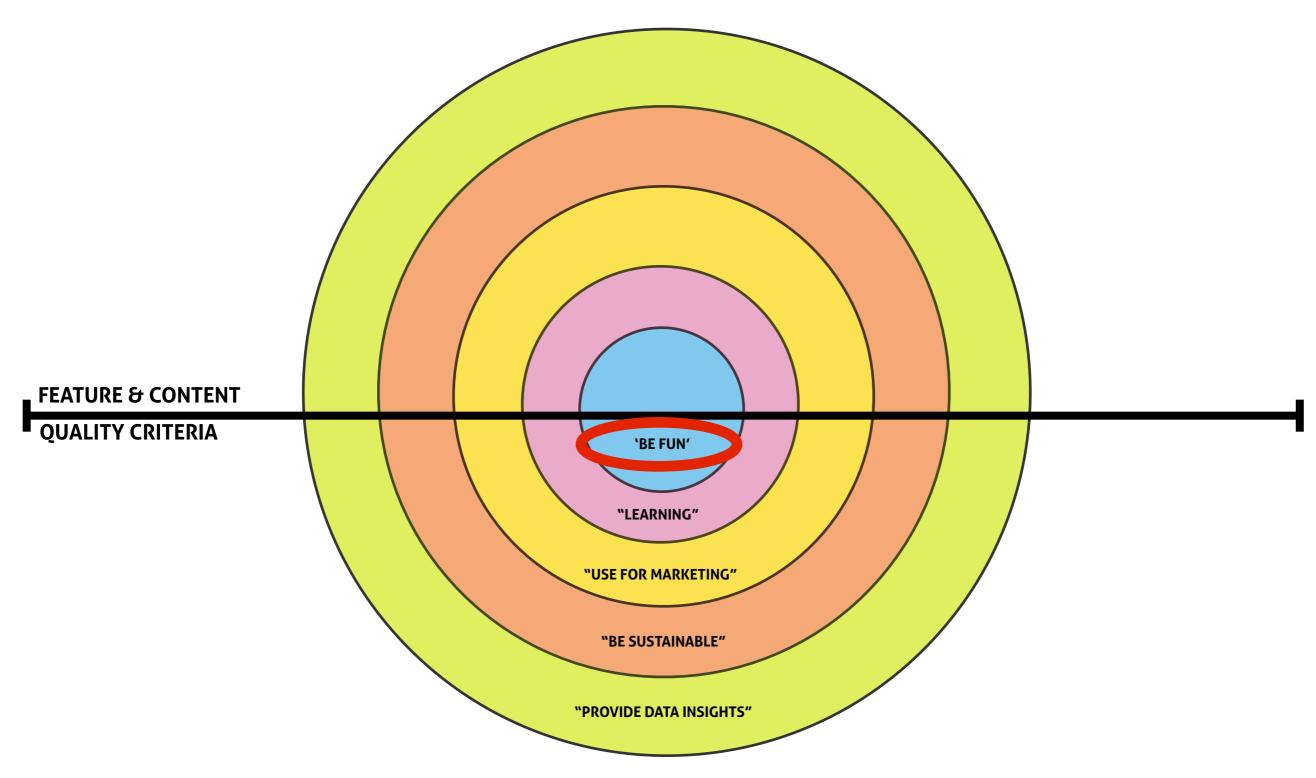
The core design manifests the quality criterias as the minimum viable feature and content...













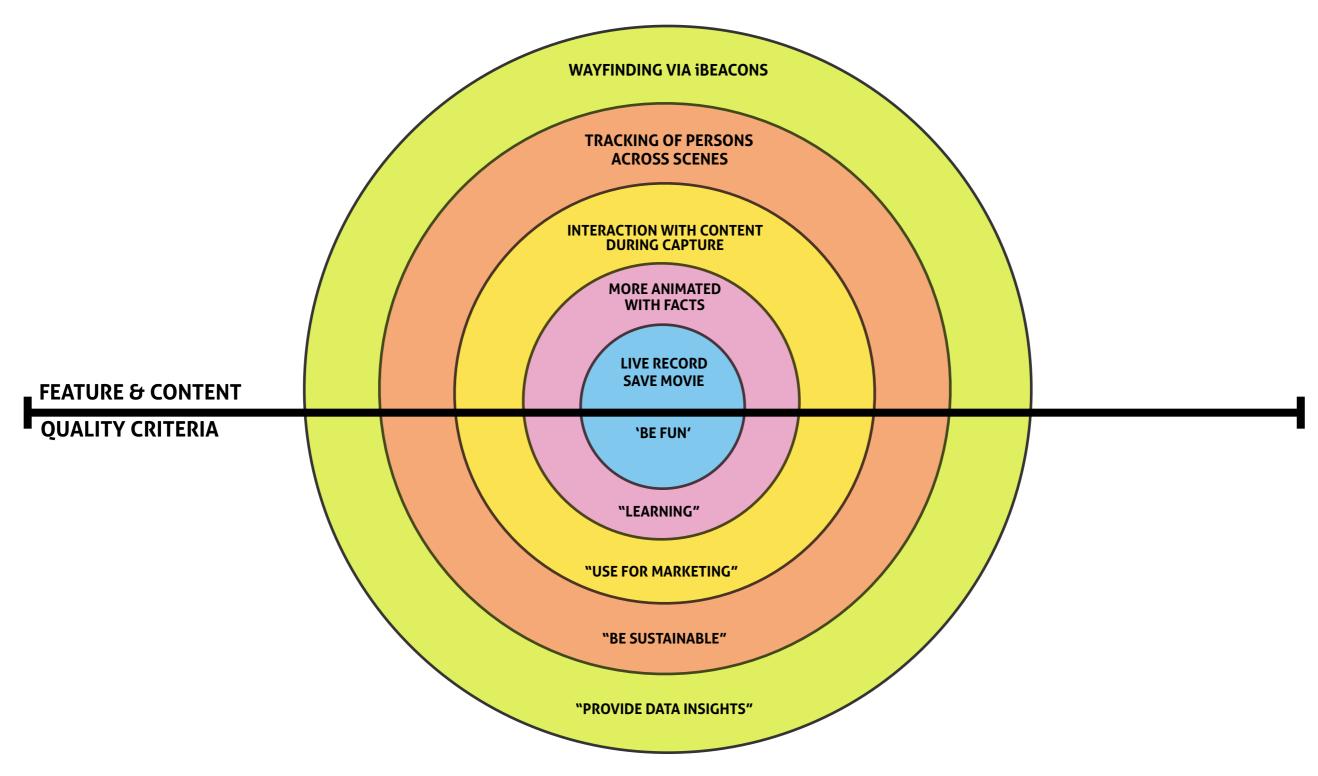
core designing the app

SKETCHING FROM STATIC TO ANIMATION-BASED



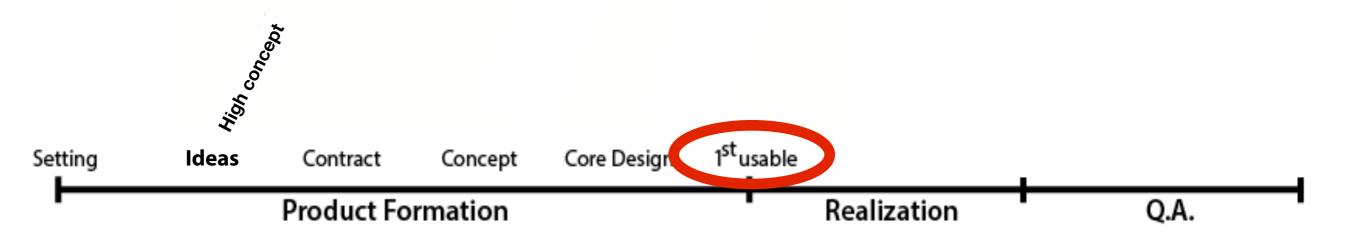








Design Cycle: 1st usable



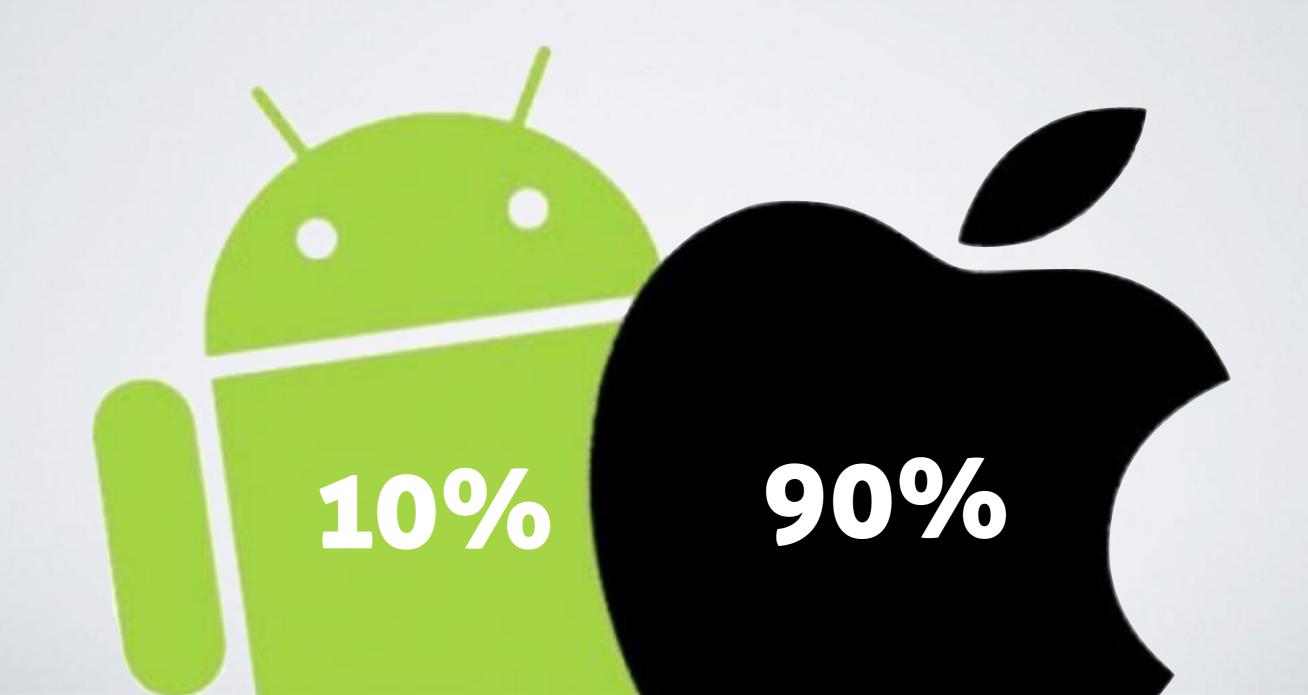
Rosenstand & Kyed 2013 + Vistisen & Rosenstand 2016

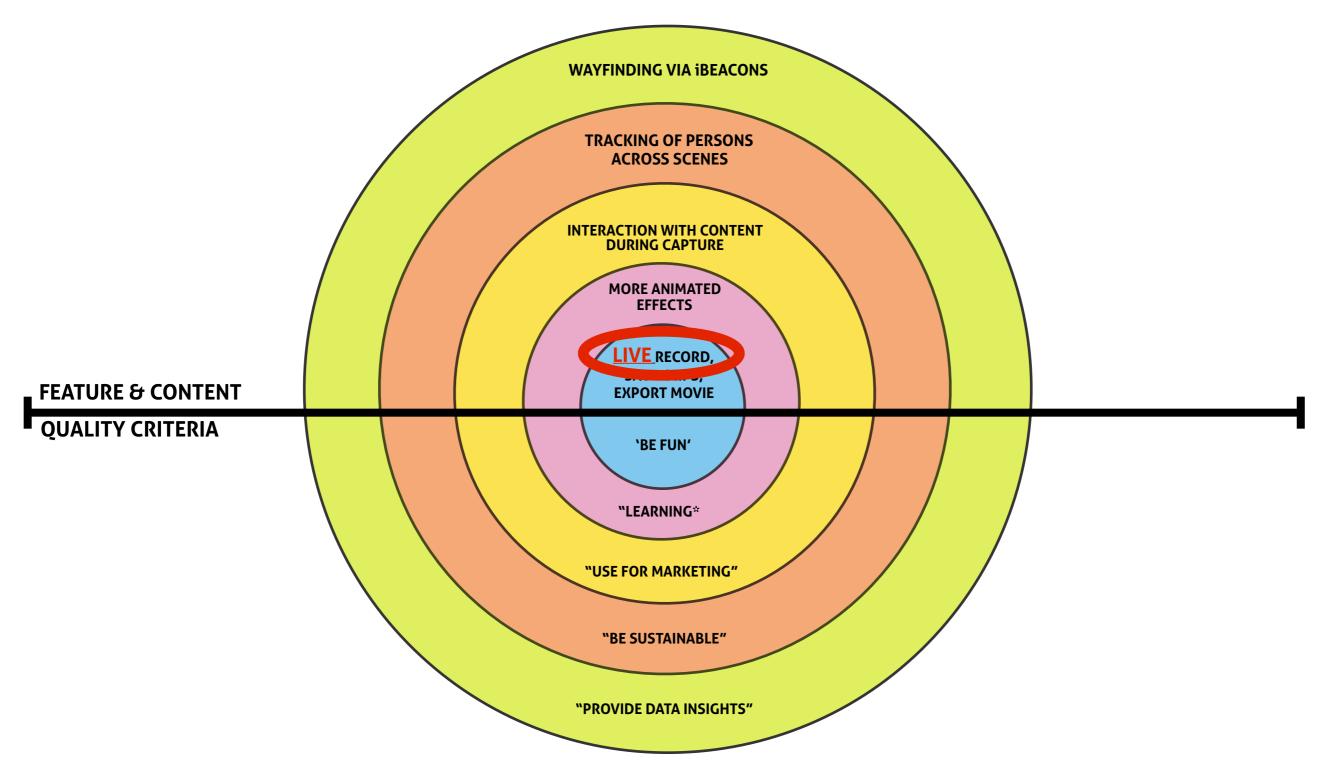
This is where U-CrAc has stopped - your core design should be able to specify what to build in the 1st usable (the MVP)

1st USABLE IN ACTION



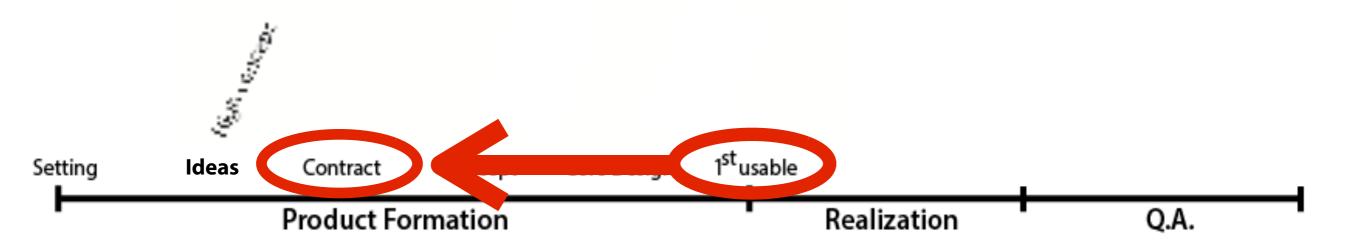
new insights!







Design Cycle: Backwards?



Rosenstand & Kyed 2013 + Vistisen & Rosenstand 2016

The contract is decided, and should be realized through the 1st usable - how do we respond to new insights?

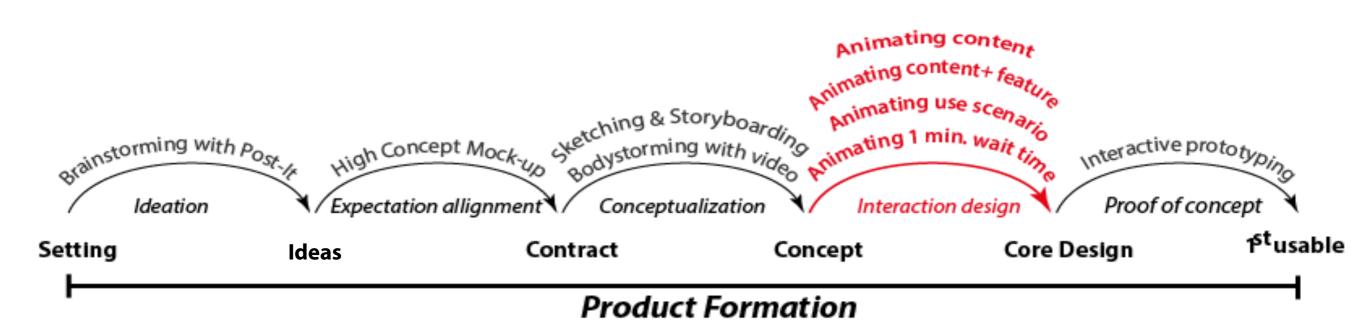
Technology constraints

WHAT IF CANNOT EXPLAIN TECHNICAL CONSTRAINTS WITH WORDS



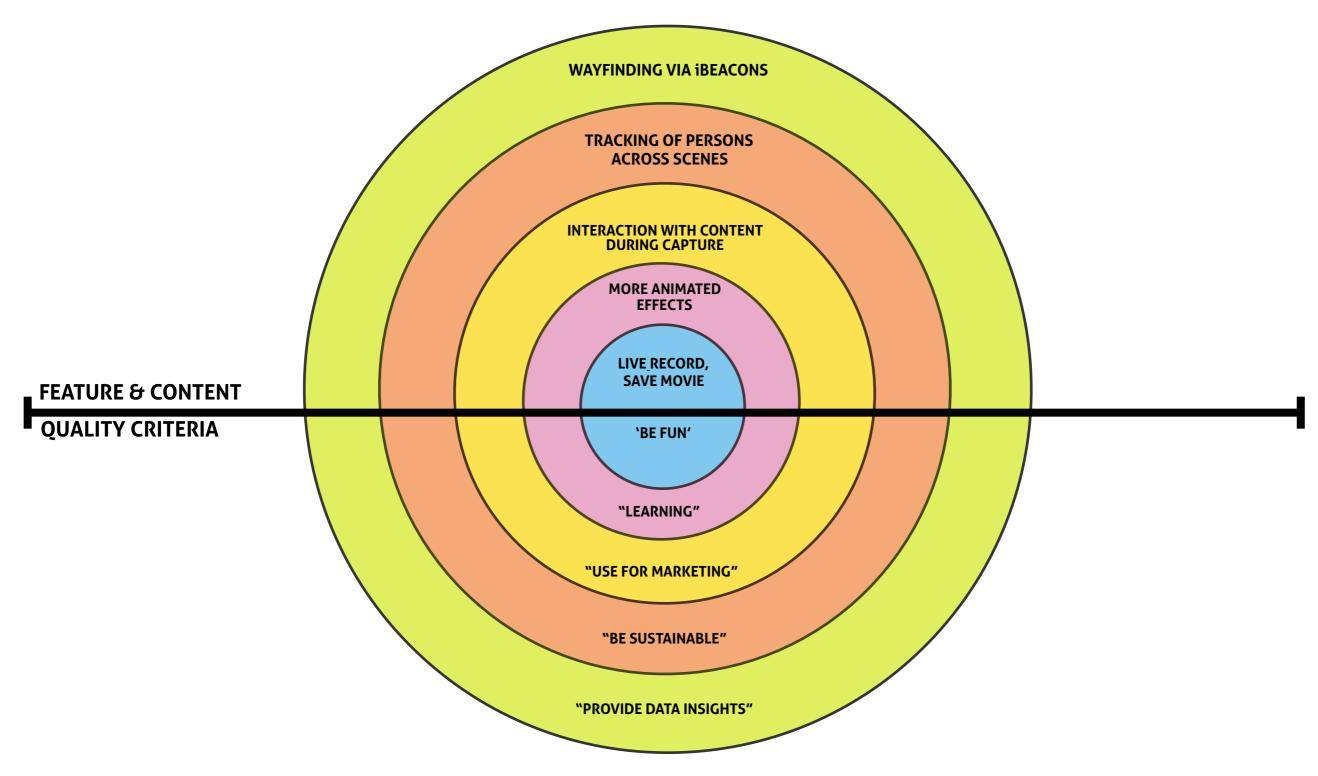
TRangressions

We use design tools to trangress the steps in the cycle

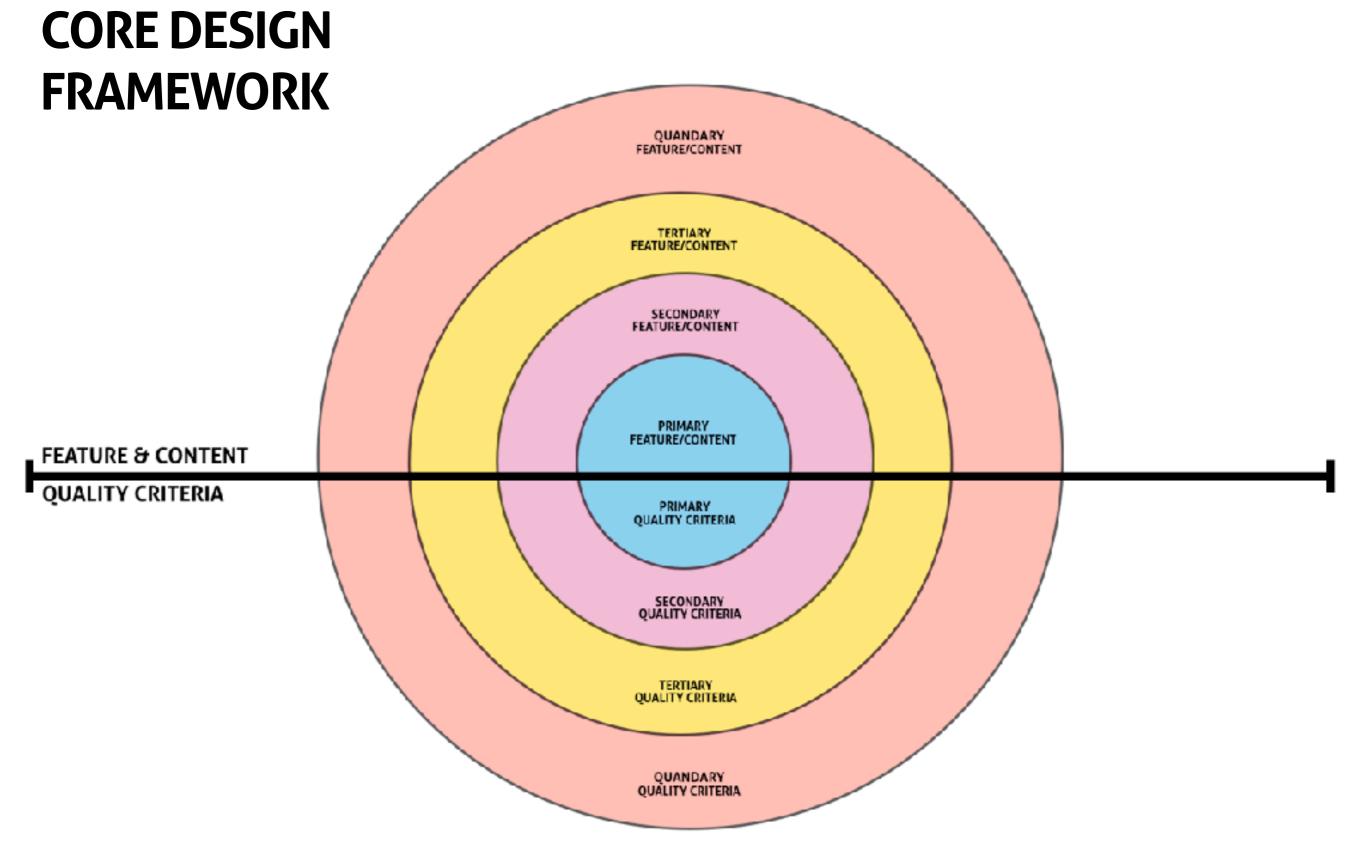


Vistisen & Rosenstand 2016

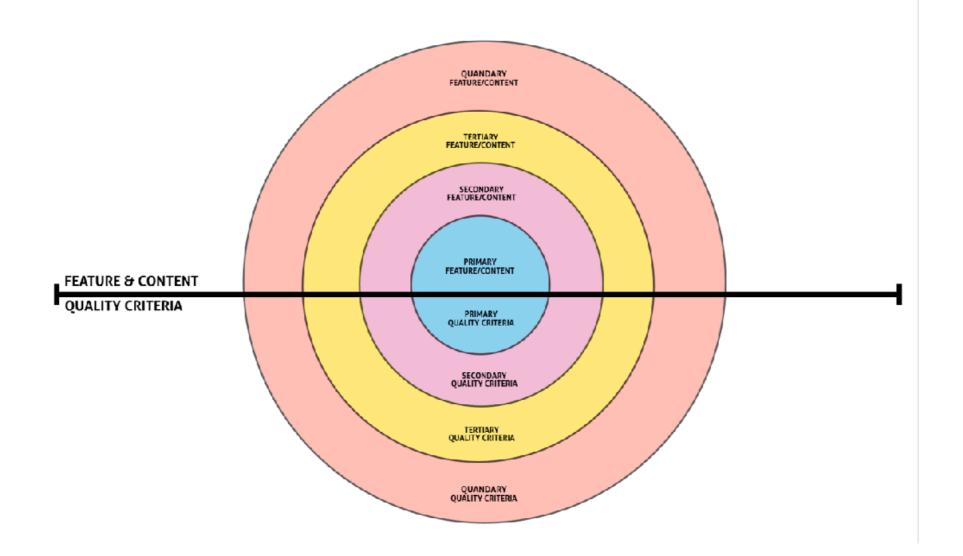
A transgression is forward moving, but should allow for backwards feedback loops if it affects prior decisions







WHAT ARE YOUR QUALITY CRITERIA?



- **1.** What are your key insights from your research?
- 2. Translate insights into quality criteria
- 3. Map the insights from the core criteria and out to the outer circles
- 4. Make different configurations and ideate feature/content based on quality criteria

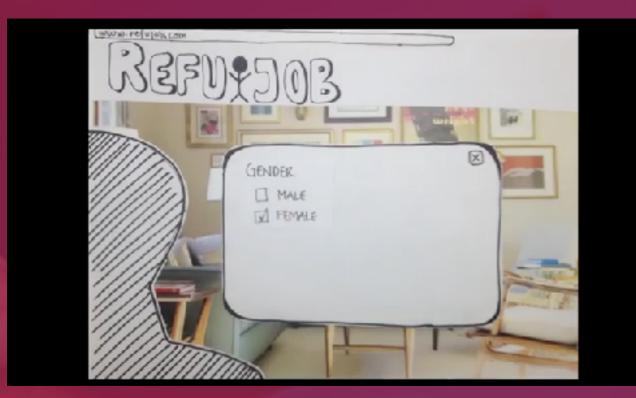
MONDAY... case Partner meeting no. 2

- 1. Each group presents their key findings for case partners individually
- 2. You should present 5 innovation tracks for your possible concepts
- **3.** Negotiate which (converged) direction to follow in the concept development
- 4. A successful meeting ends with a 'contract' on prioritized quality criteria(s)
- 5. Write a short summary on ucrac.dk which formulates the quality criteria(s) (send your case partner an e-mail with a link to the summary after the meeting monday afternoon)



QUESTIONS?

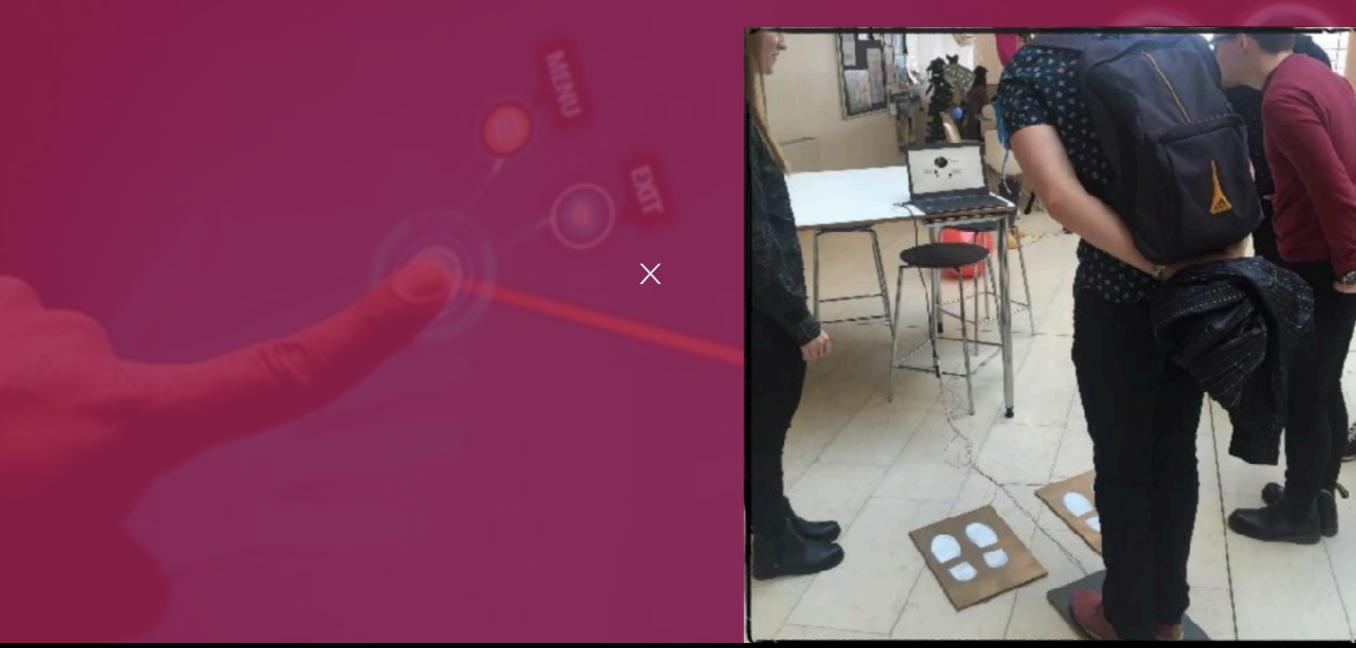
A group of design students were tasked to come up with concepts for how to better introduce immigrants and fugitives to the danish labour marked, and integrate them in the working culture of Denmark











Informed a design move towards creating the 1st usable interactive prototype of the product...

Thus, the information was **functional** in moving the design process forward.

