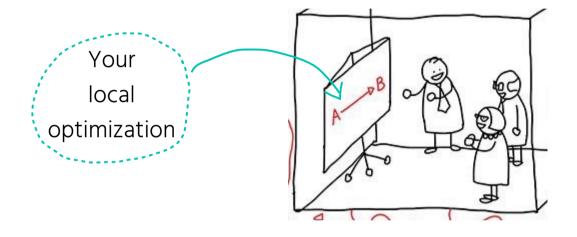


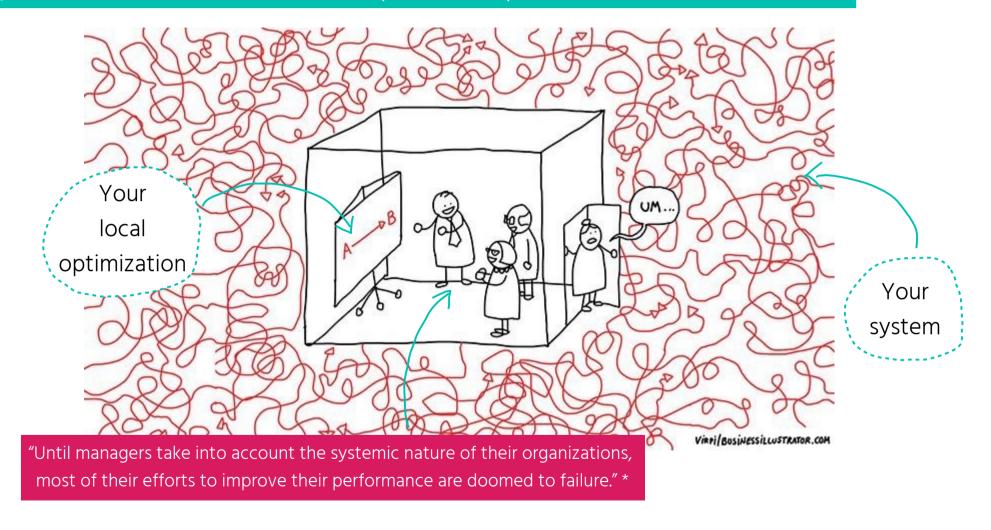
Architecture for Flow w/ Wardley Mapping, DDD, Team Topologies

Susanne Kaiser Independent Tech Consultant @suksr

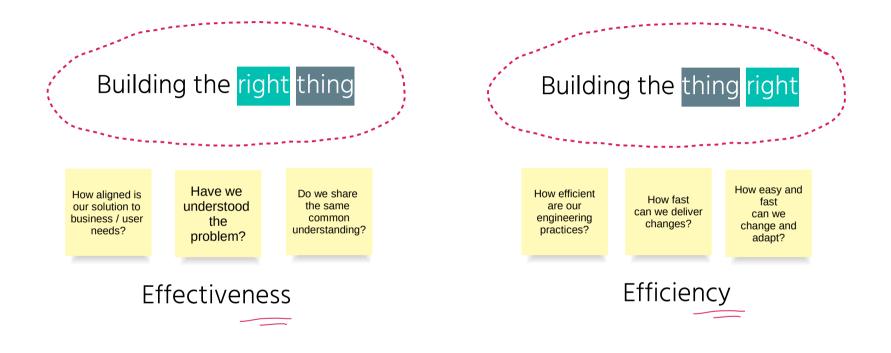
Problem with Local Optimization



"A system is more than the sum of its parts, it's a product of their interactions." *



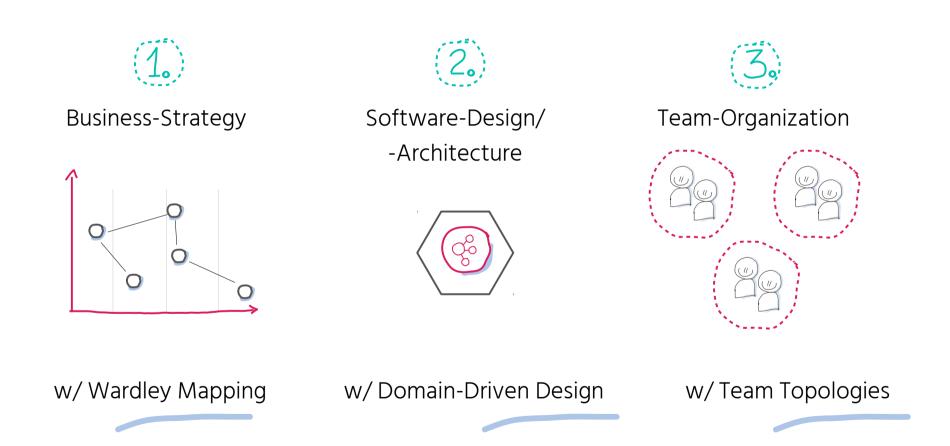
Challenges of Building Systems



"Doing the wrong thing right is not nearly as good as doing the right thing wrong"

Dr. Russell Ackoff

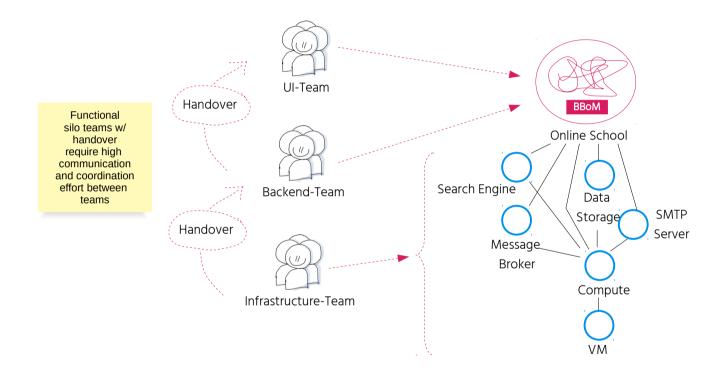
Three Perspectives to Build Adaptive Systems

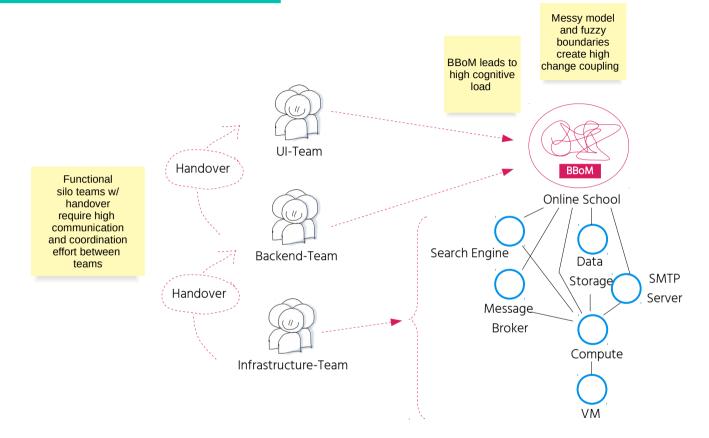


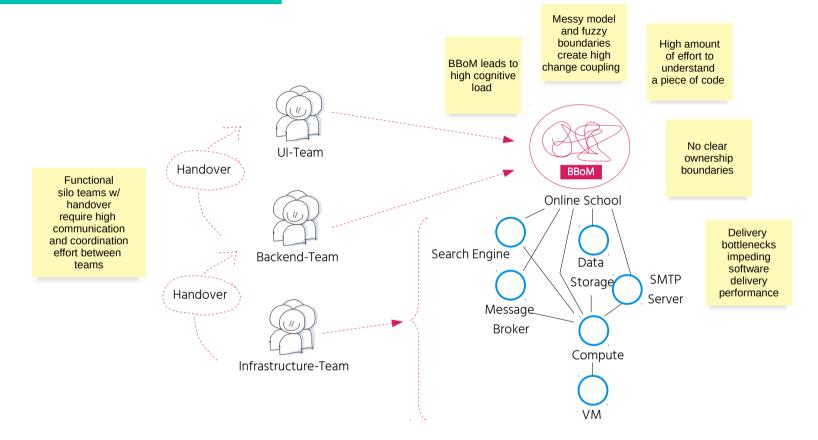
Evolving a Legacy System

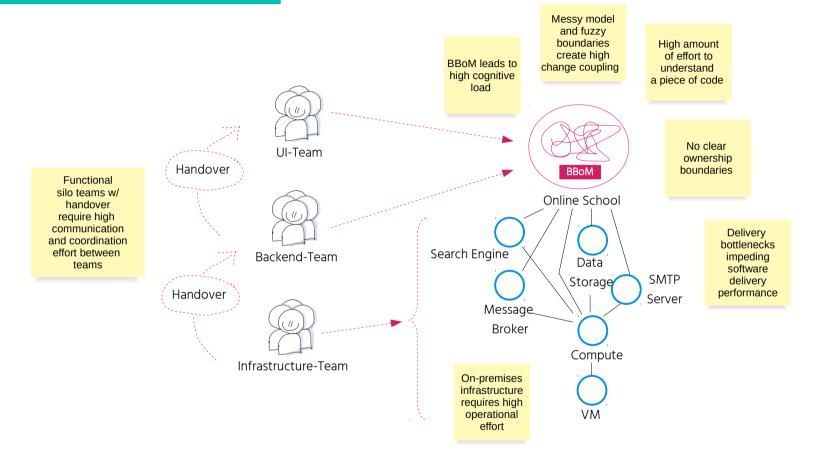


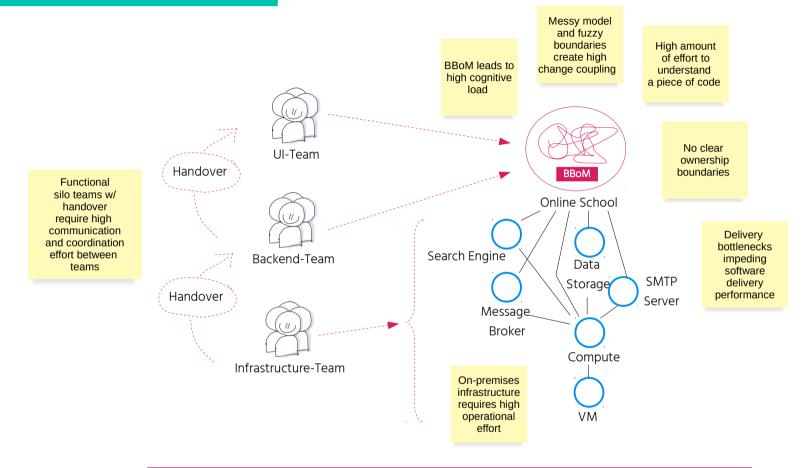
Source: https://www.food-management.com



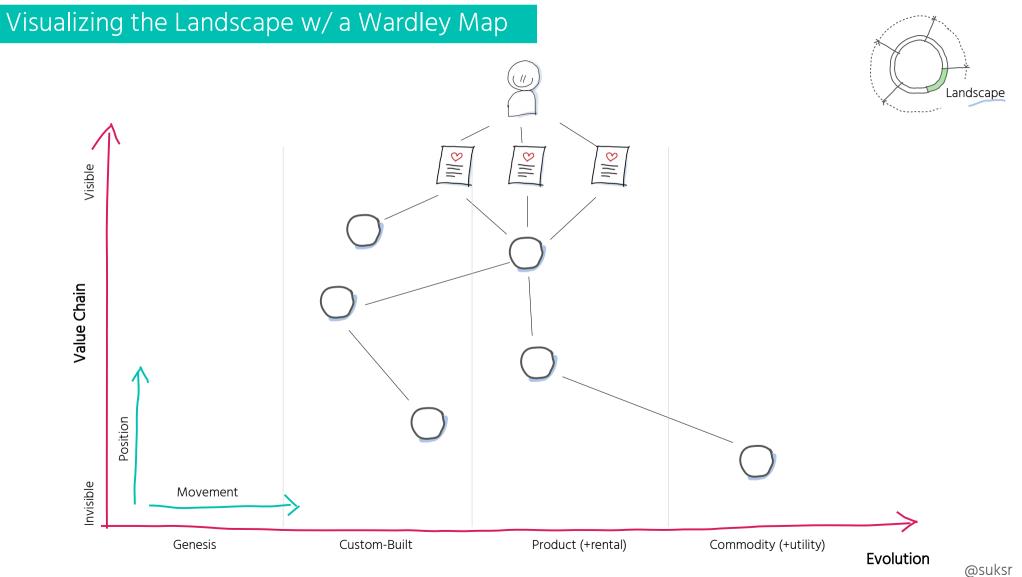




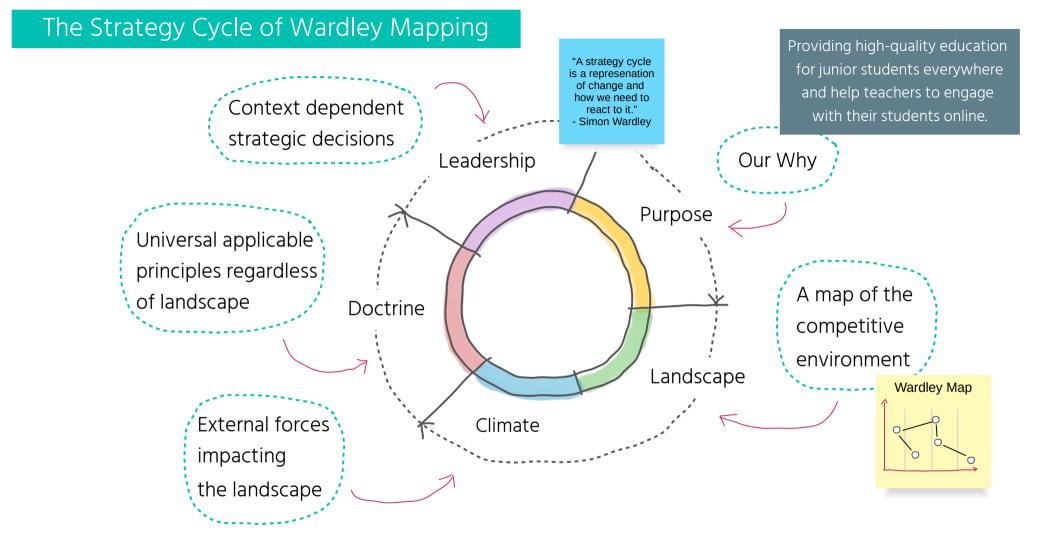




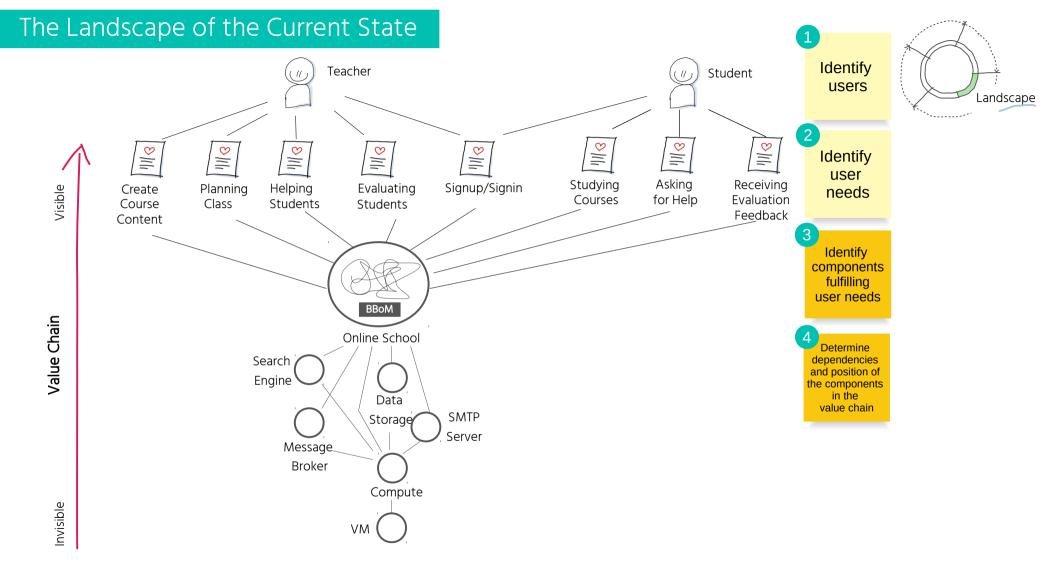
"Local optimization does not improve the performance of the whole."

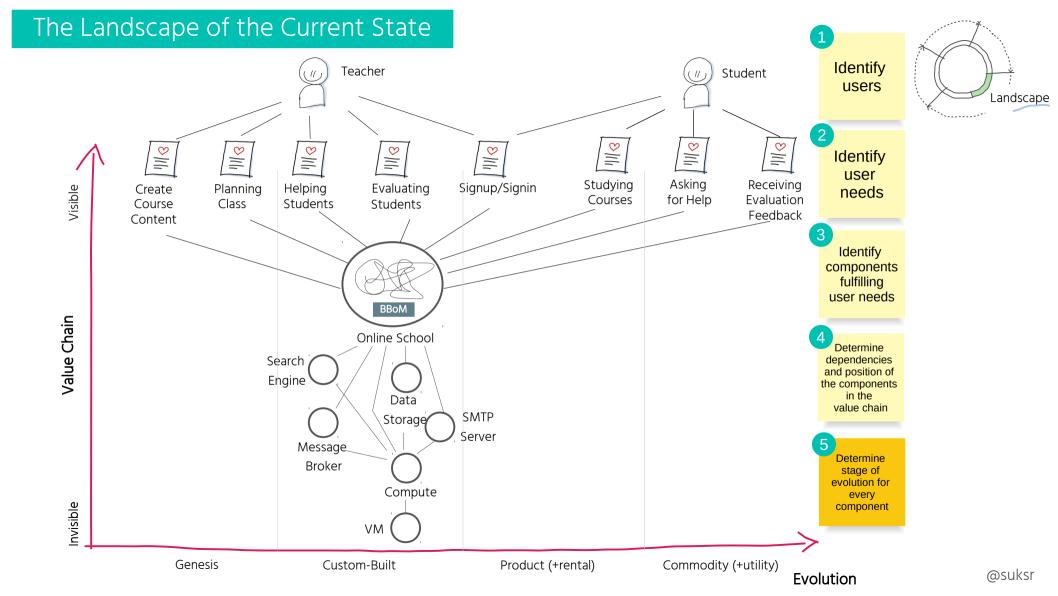


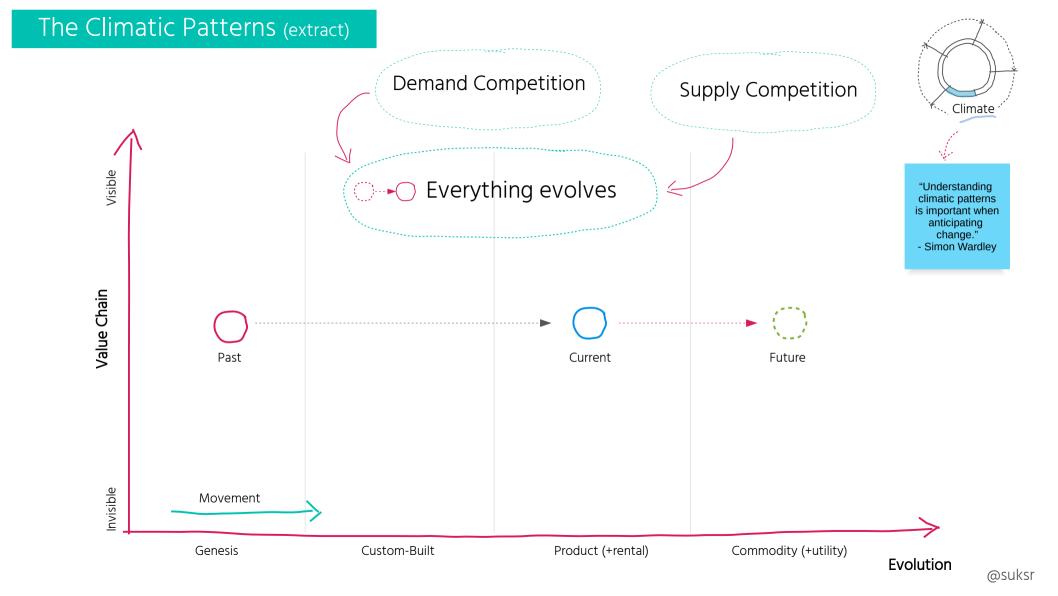
The Strategy Cycle of Wardley Mapping "A strategy cycle is a represenation of change and how we need to Context dependent react to it." - Simon Wardley strategic decisions Our Why Leadership Purpose Universal applicable principles regardless A map of the of landscape Doctrine competitive environment Landscape External forces Climate impacting the landscape



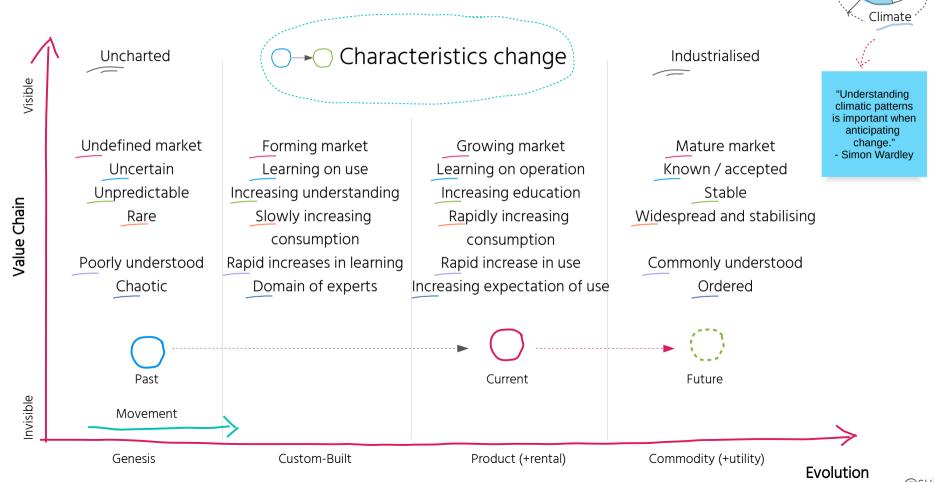
The Landscape of the Current State Identify Teacher Student users Landscape 8||| 8 8 8 8 <u>⊗</u> 8 8 Identify user Studying Asking Receiving Visible Evaluating Signup/Signin Planning Helping Create needs Evaluation Courses for Help Students Course Class Students Feedback Content Value Chain Invisible

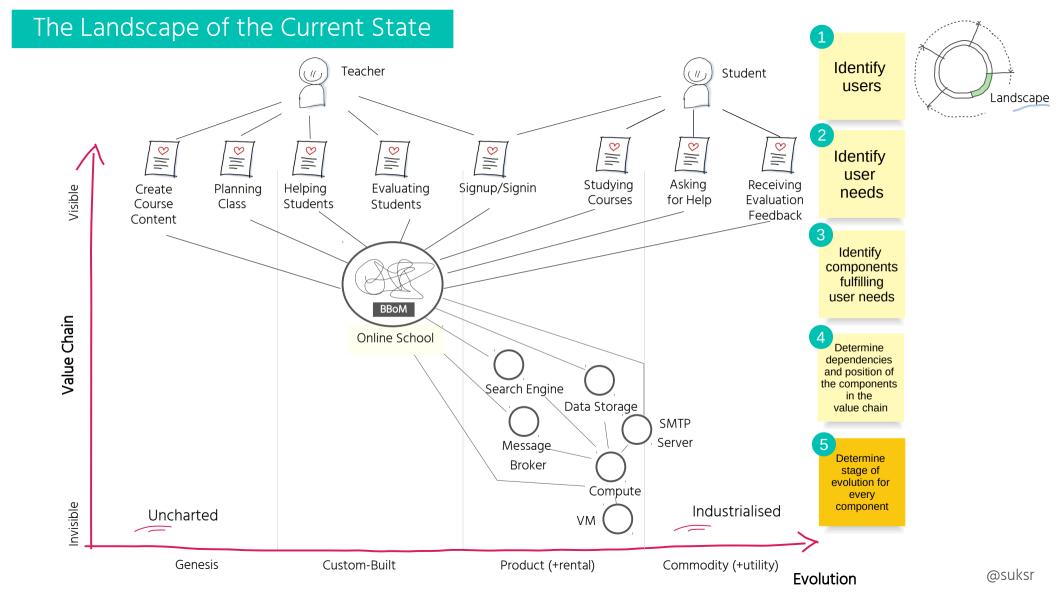


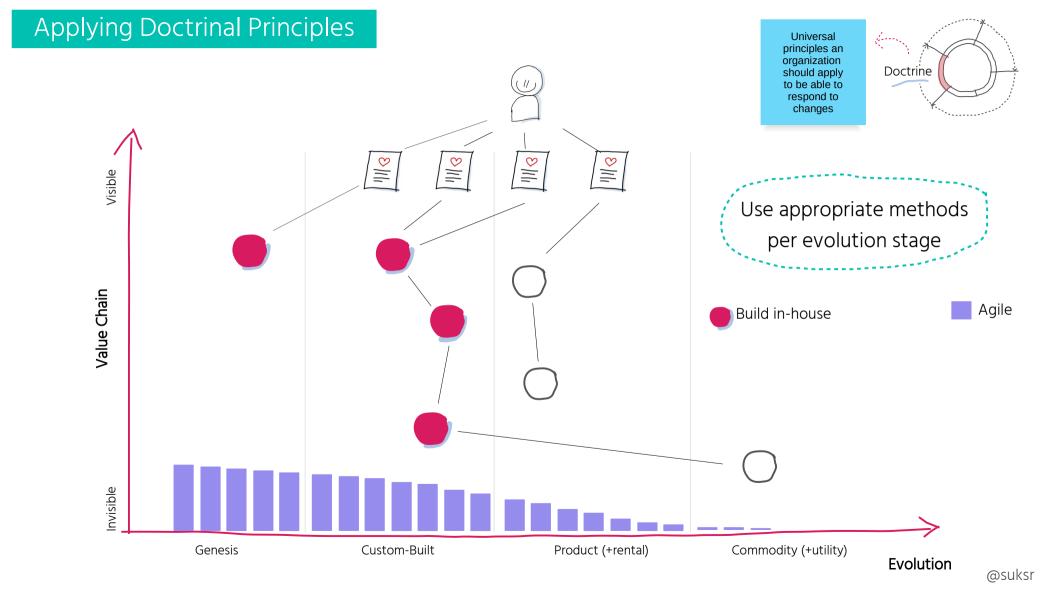


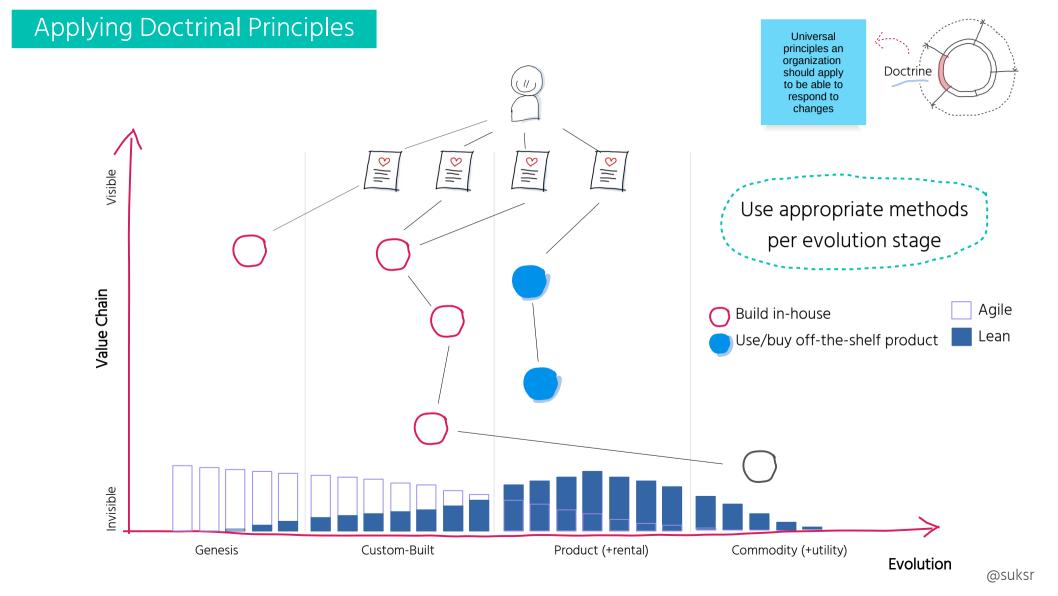


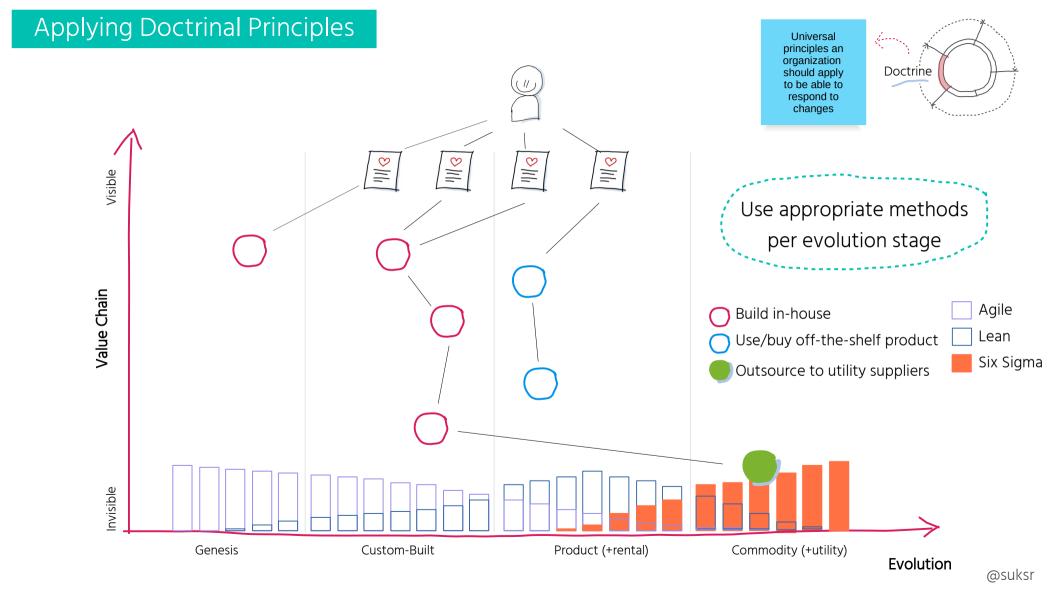
The Climatic Patterns (extract)



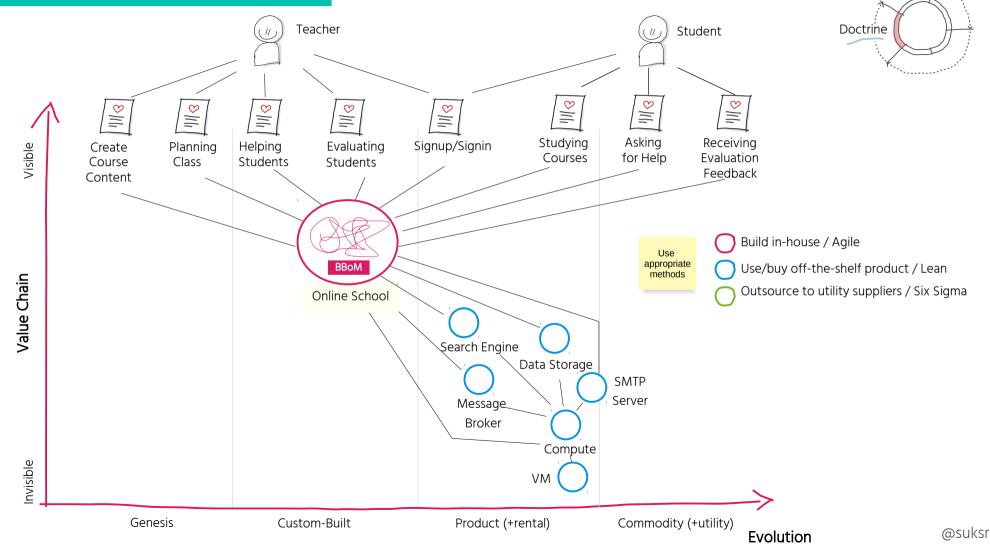








Applying Doctrinal Principles



To optimize for flow of change from a team perspective requires ...

cross-functional, autonomous teams

no handover between teams

restricting high, on-going communication bandwidth between teams



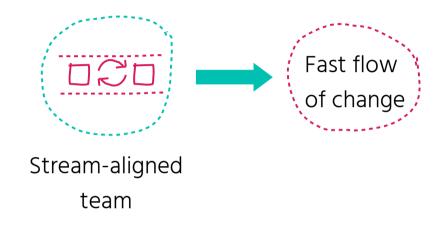


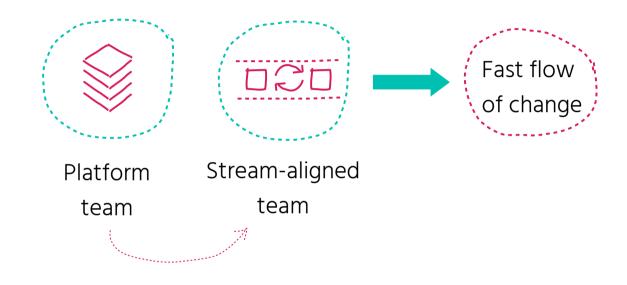


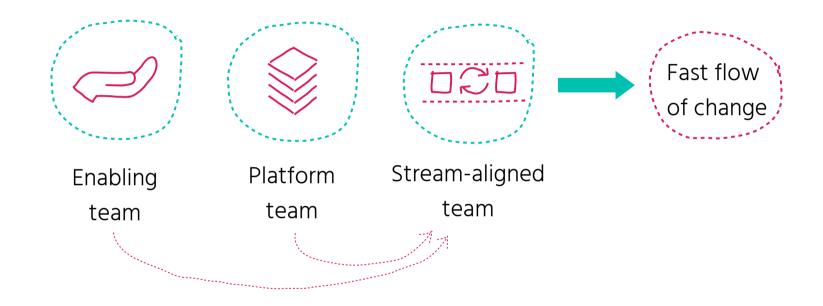
small, long-lived teams

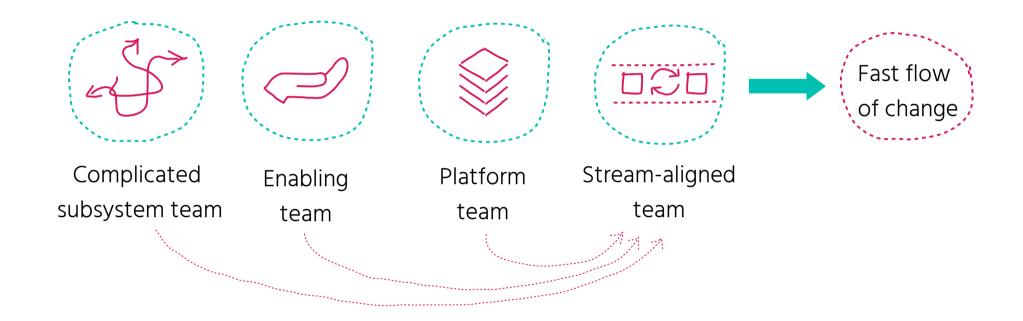
minimizing cognitive load

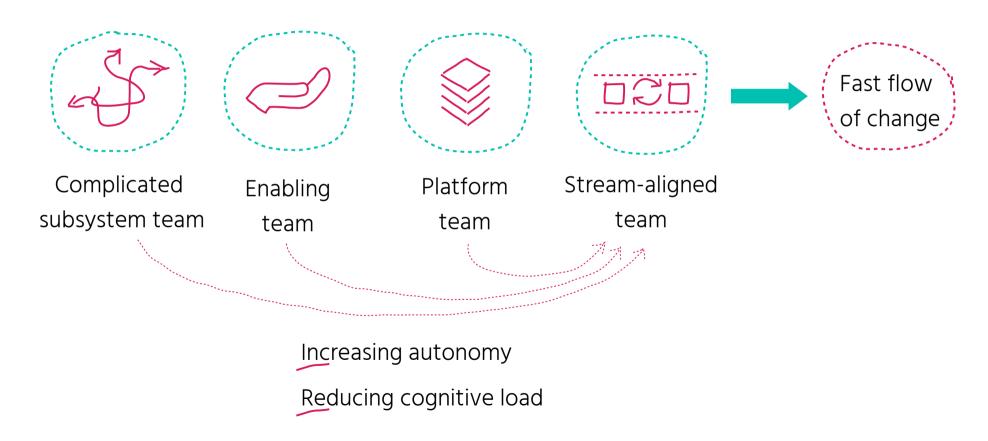
team ownership



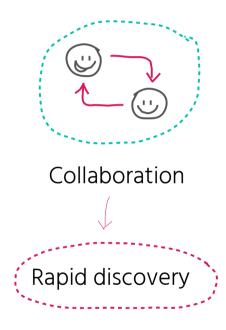




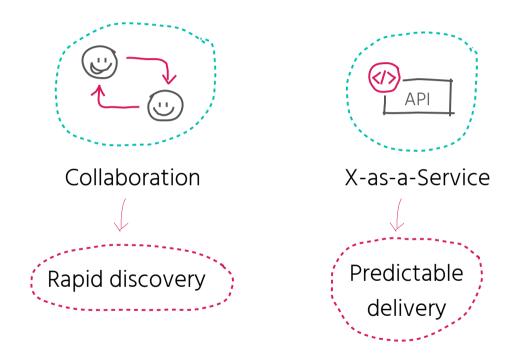




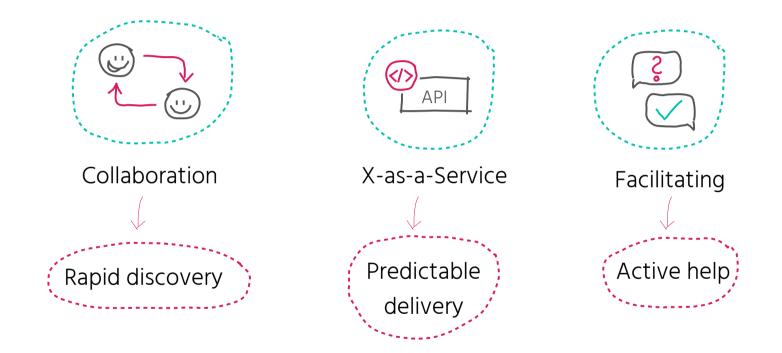
Three Interaction Modes



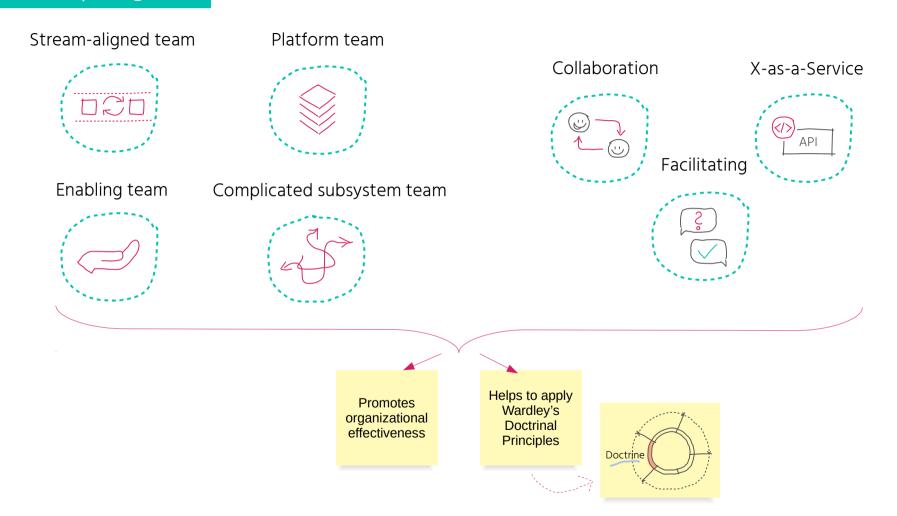
Three Interaction Modes



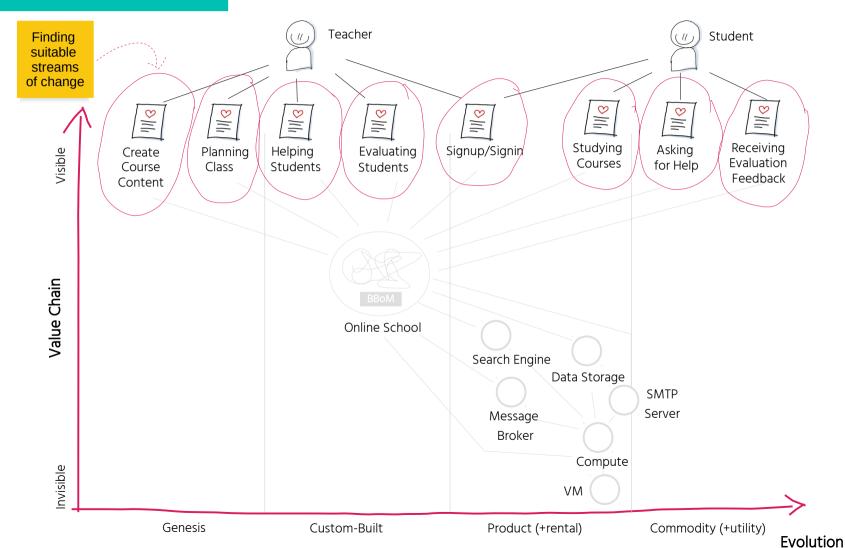
Three Interaction Modes



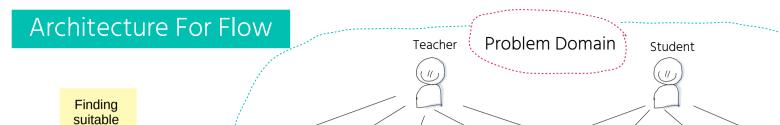
Team Topologies



Architecture For Flow



@suksr



<u>⊗</u>

Helping

Students Students

<u>⊗</u>

Planning

Class

<u></u>

Create

Course

Content

|||

Evaluating Signup/Signin

<u>⊗</u>

Studying

Courses

8

8

Asking

for Help

<u>⊗</u>

Receiving

Evaluation

Feedback

Understanding the problem domain and partitioning it into subdomains

Visible

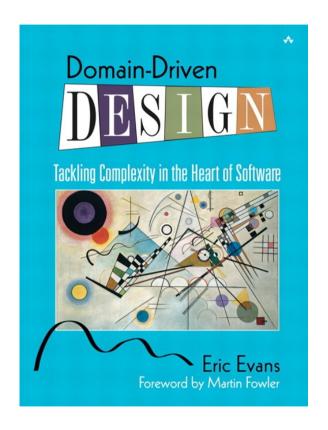
streams

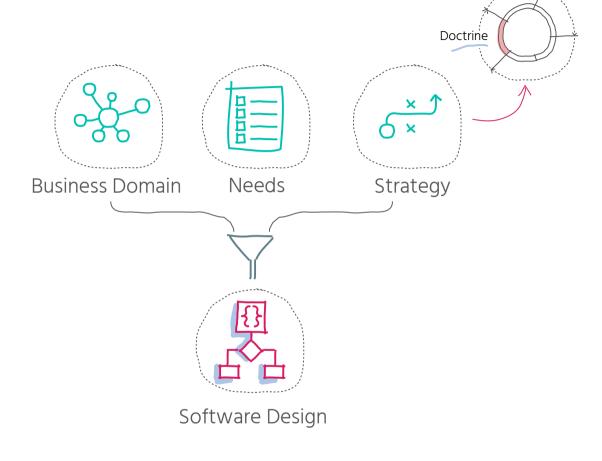
of change

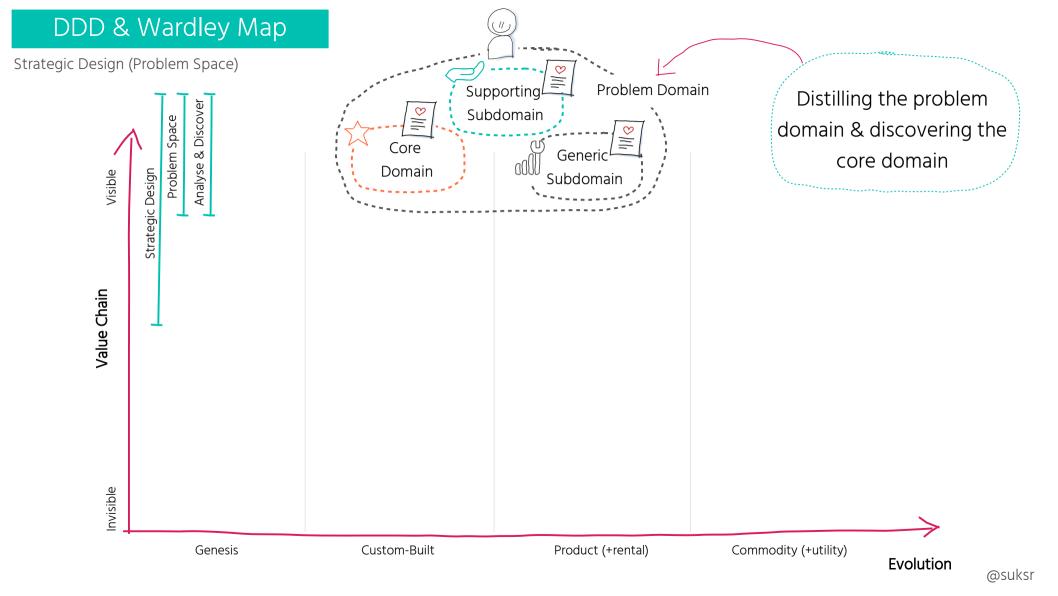
Value Chain

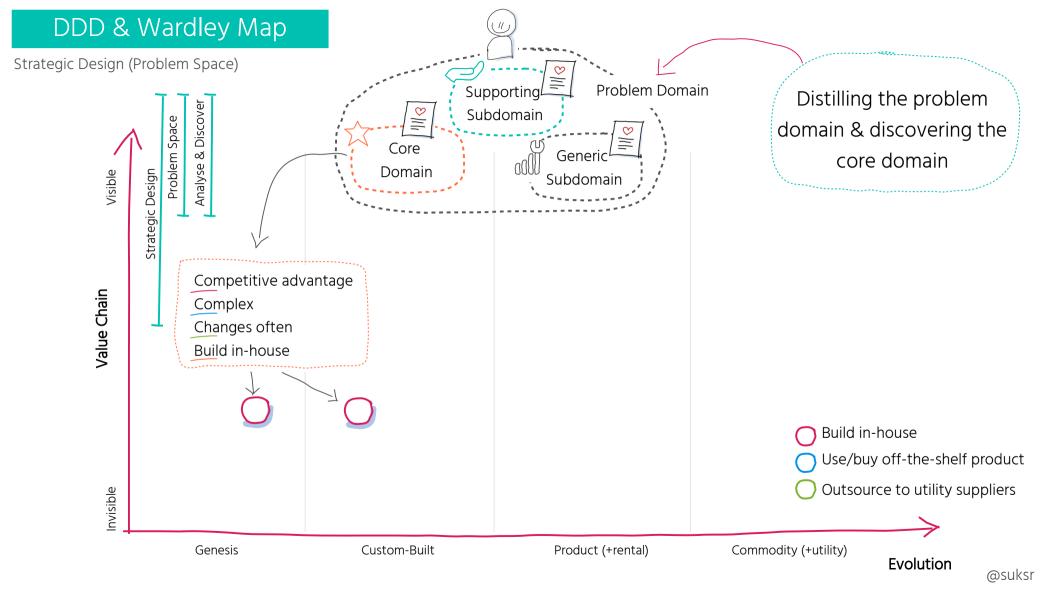
Invisible

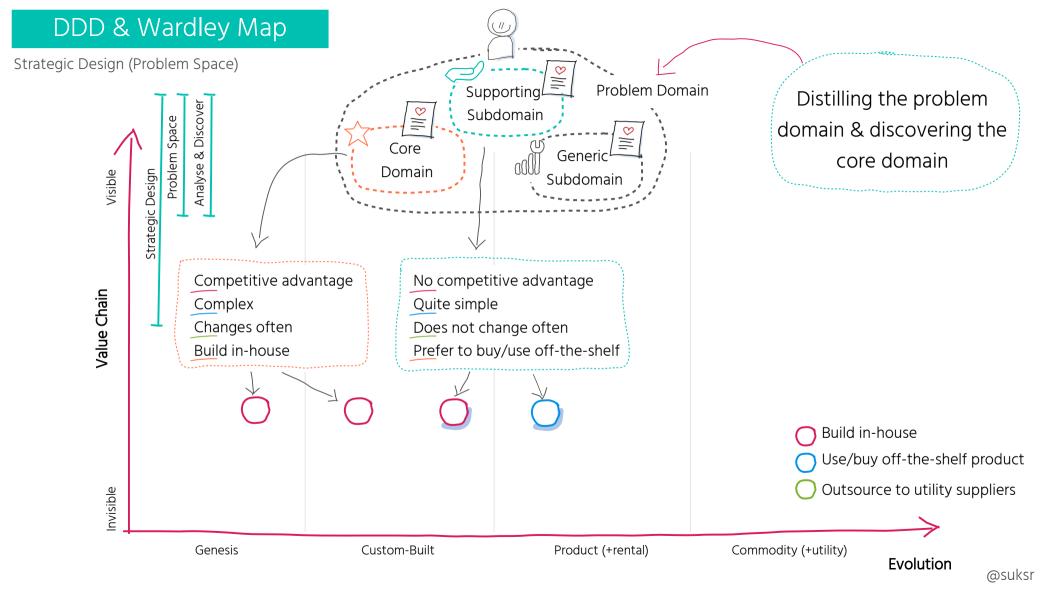
Domain-Driven Design (DDD)

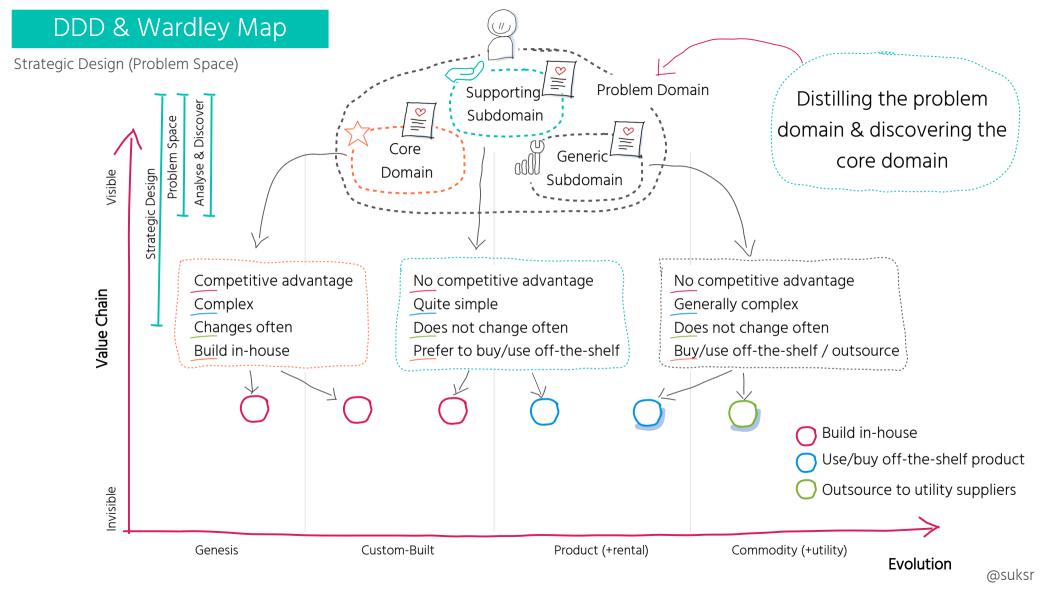


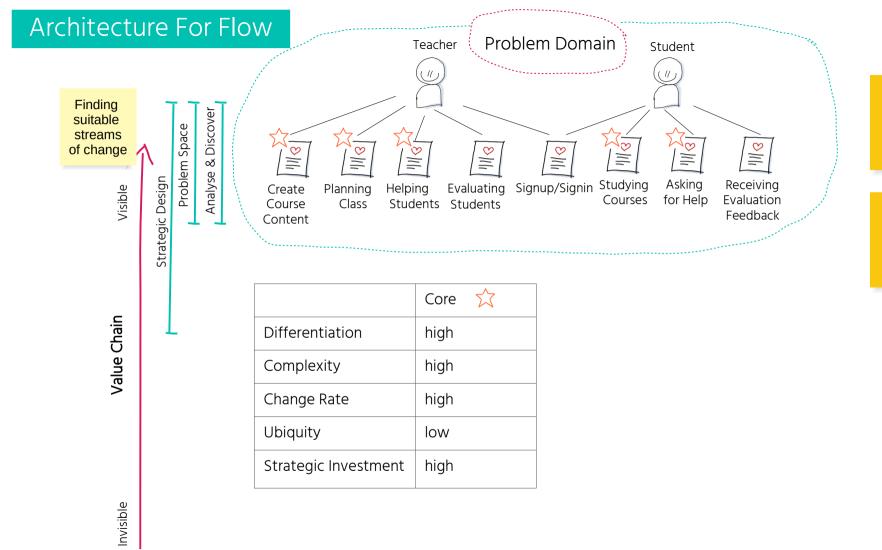






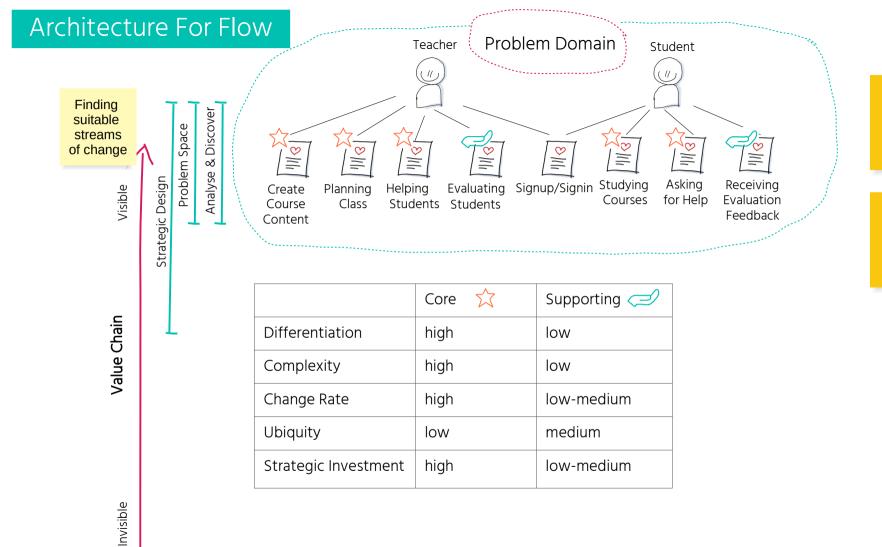






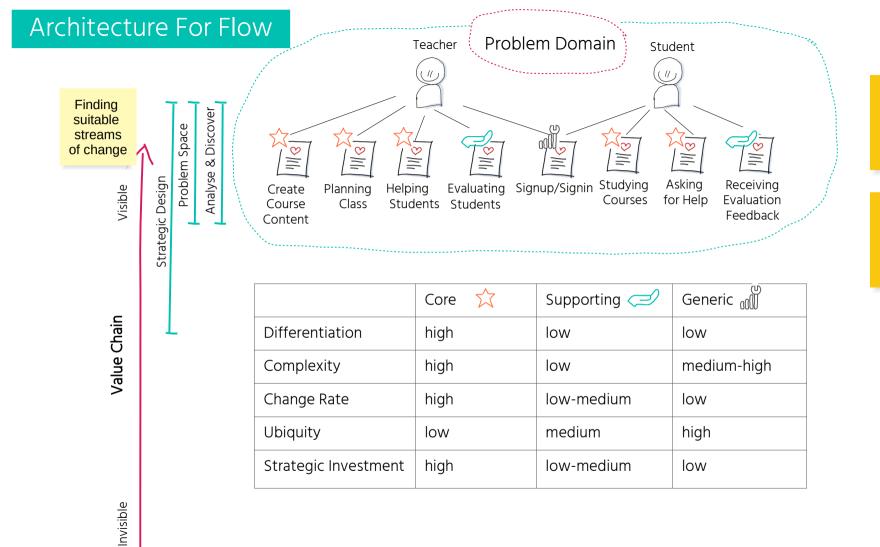
Partitioning the Problem Domain into Subdomains

Discovering the Core



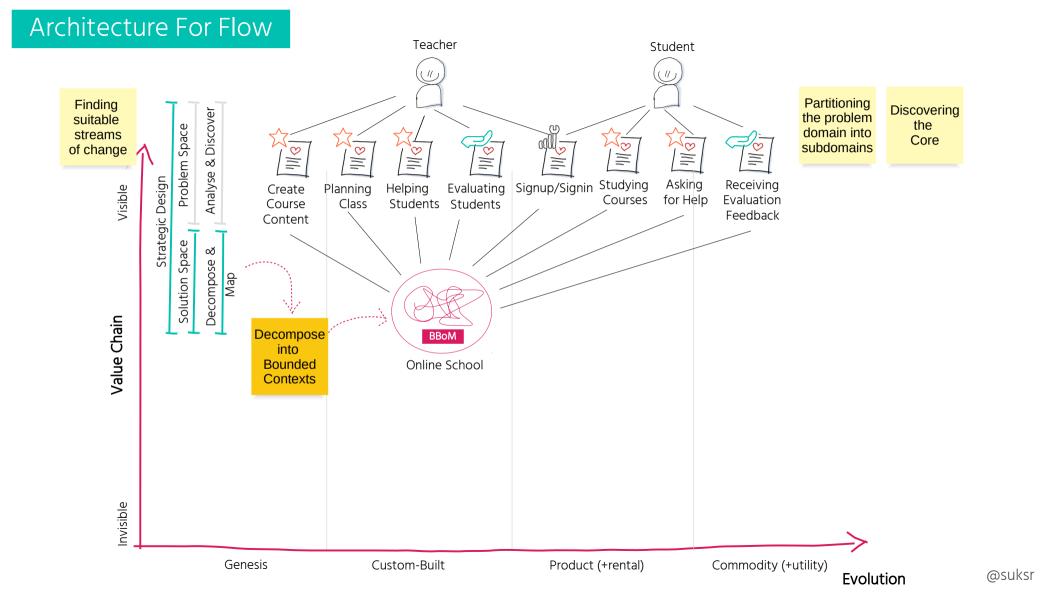
Partitioning the Problem Domain into Subdomains

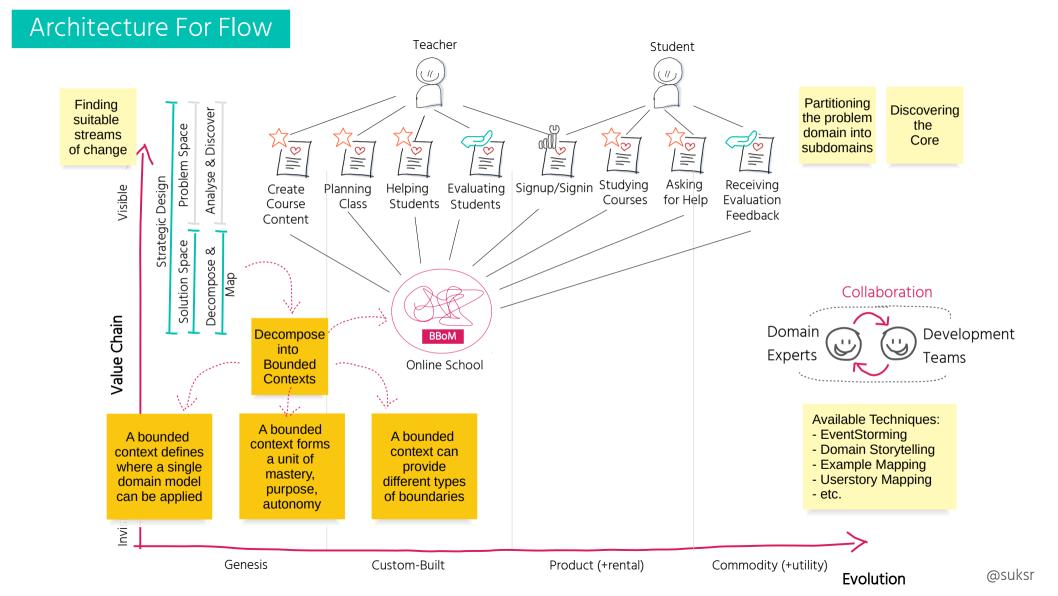
Discovering the Core

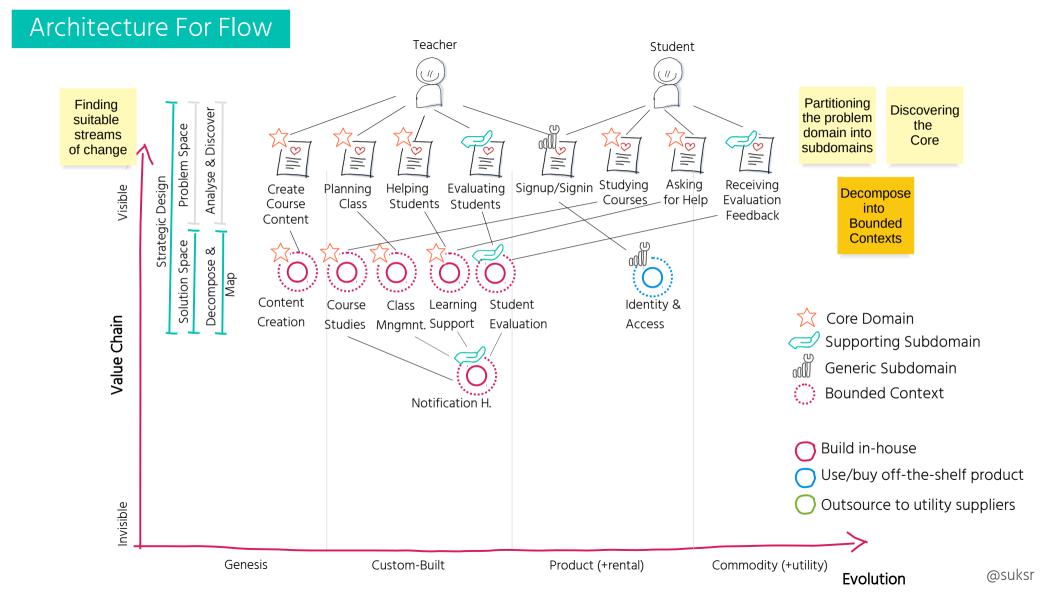


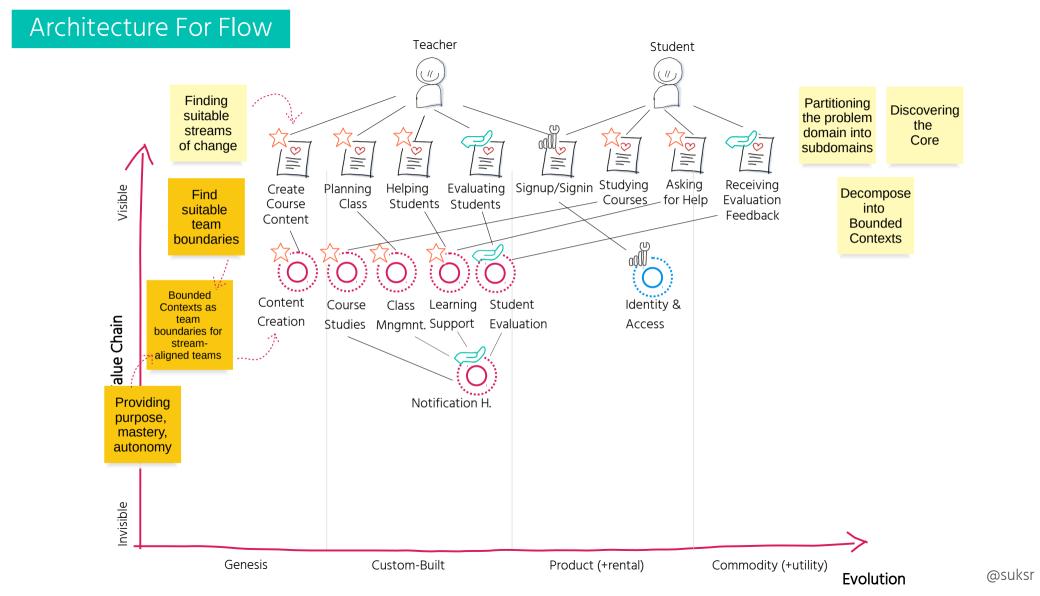
Partitioning the Problem Domain into Subdomains

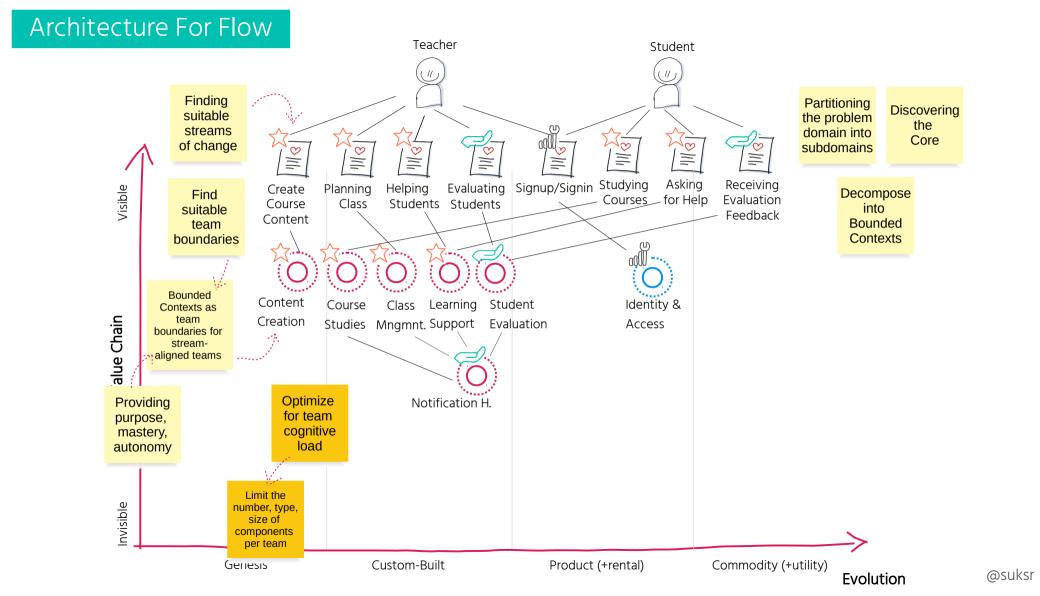
Discovering the Core



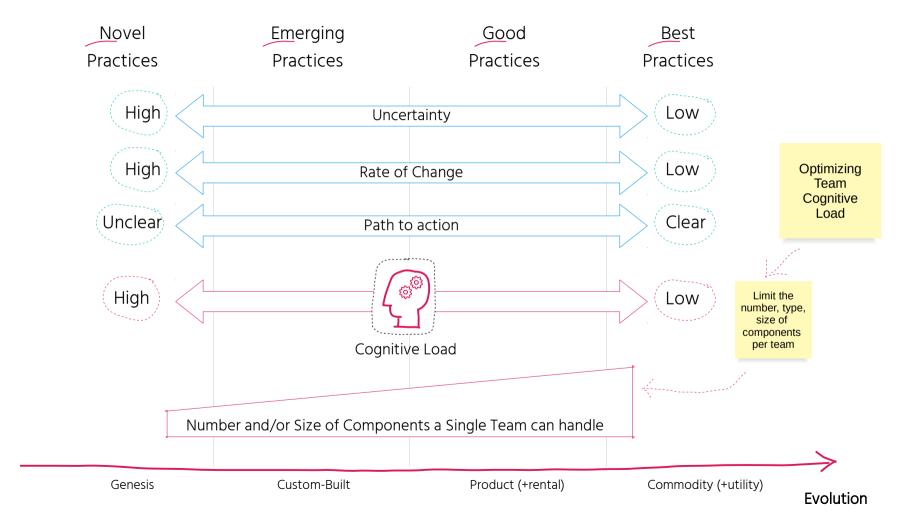


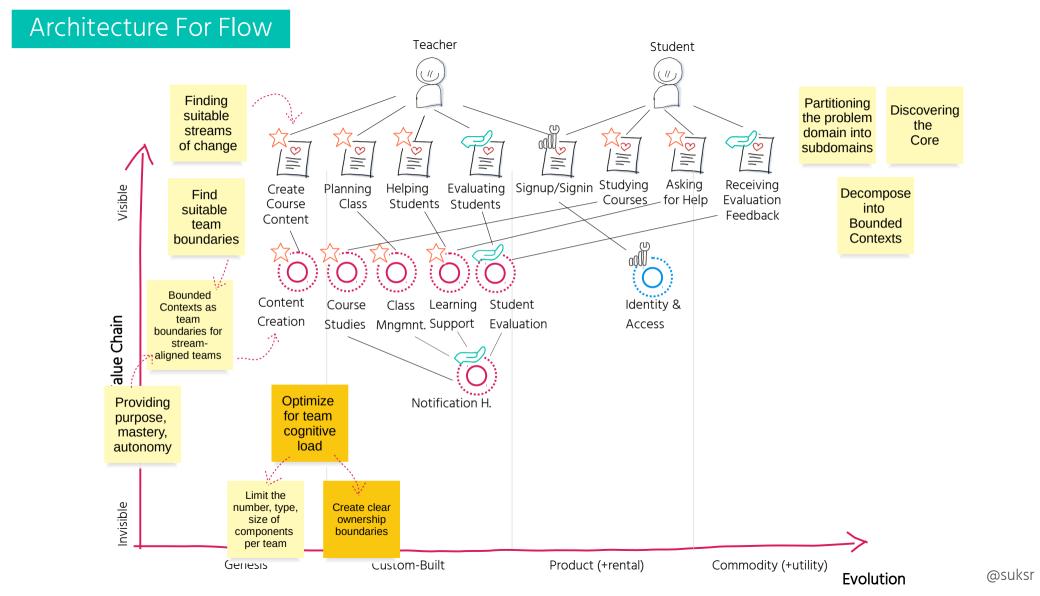


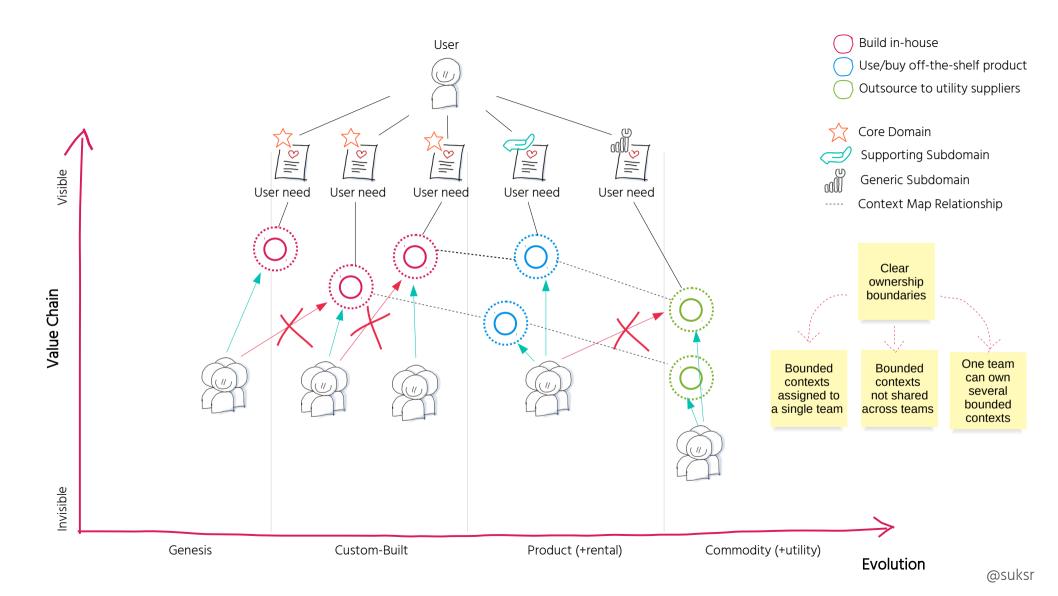


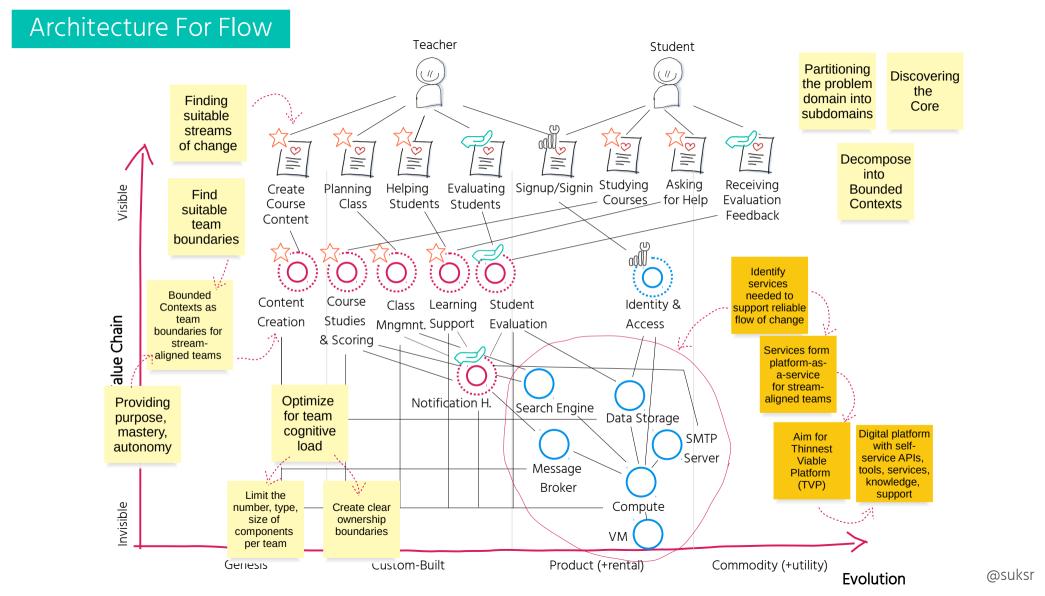


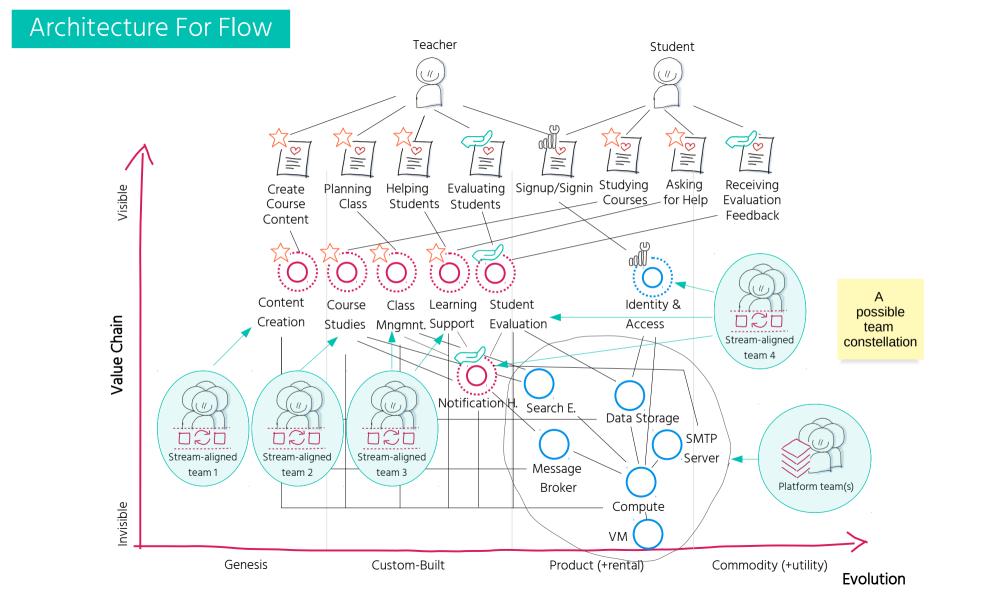
Architecture For Flow

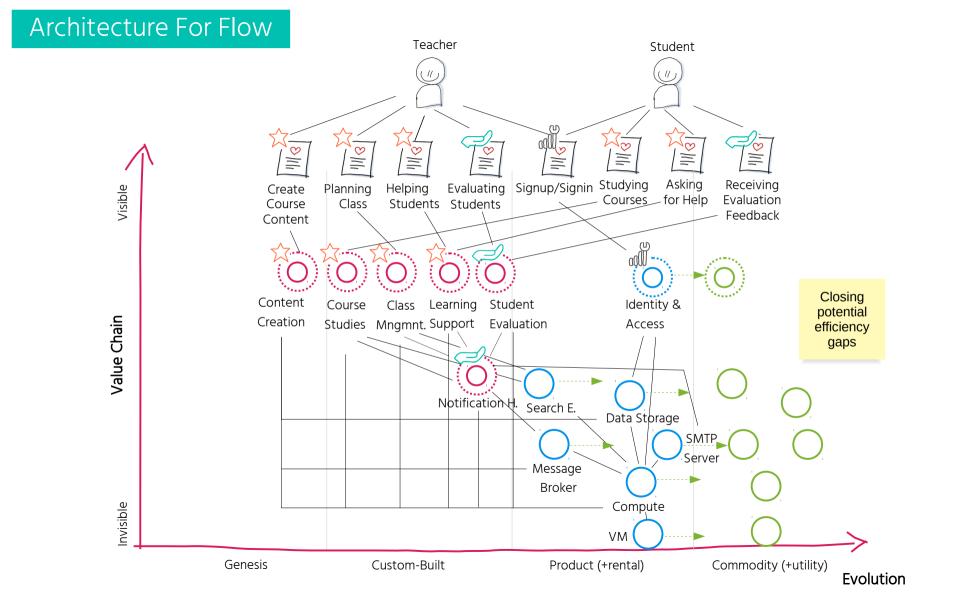




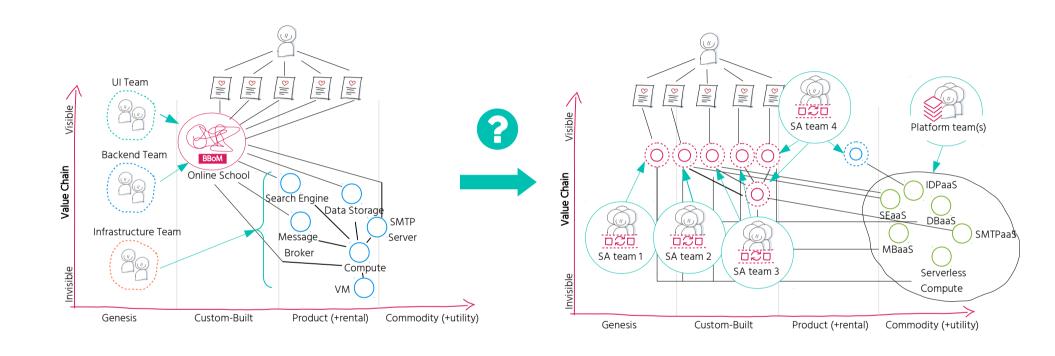


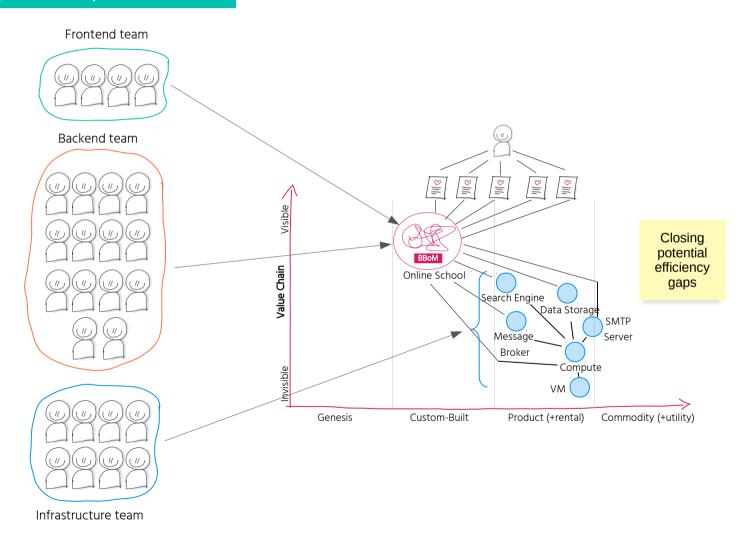


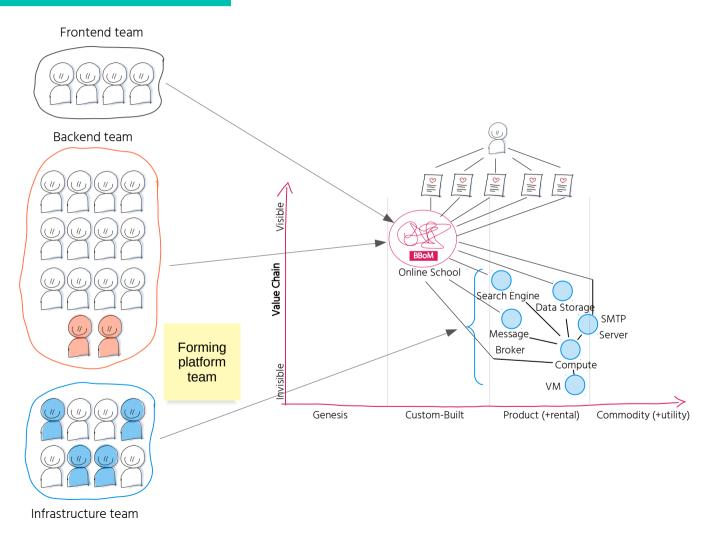


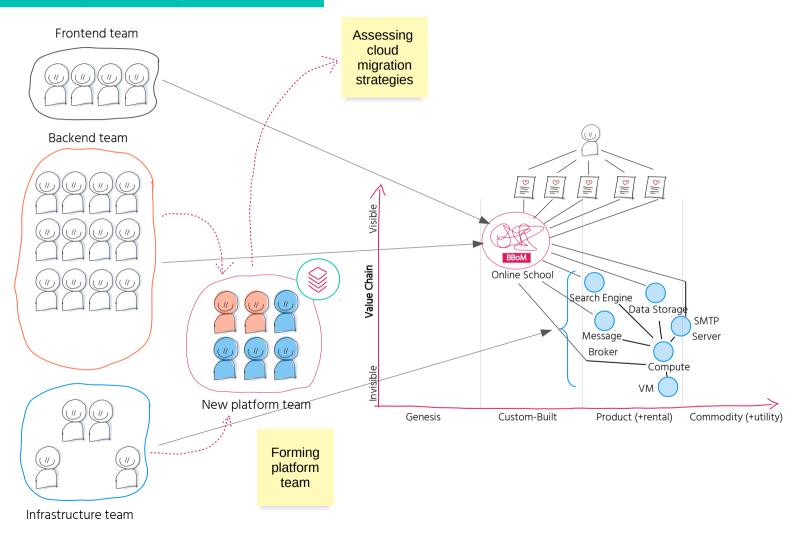


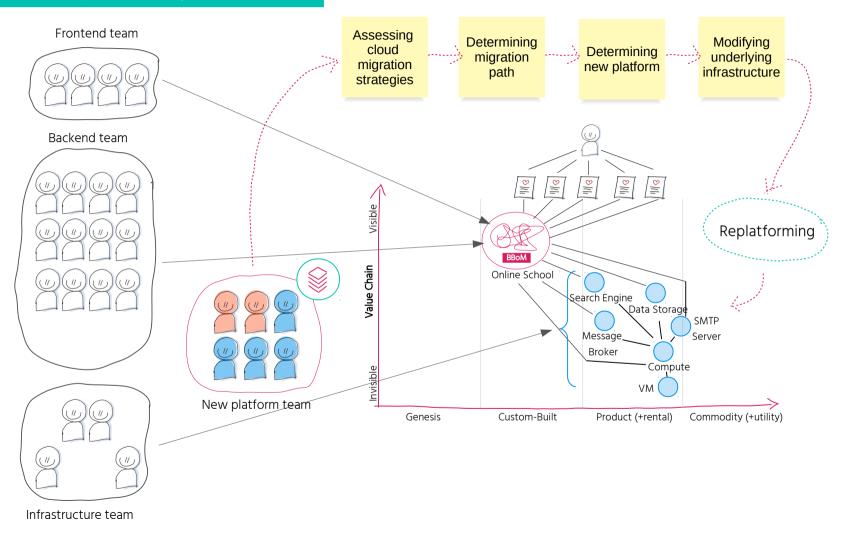
How to transition?

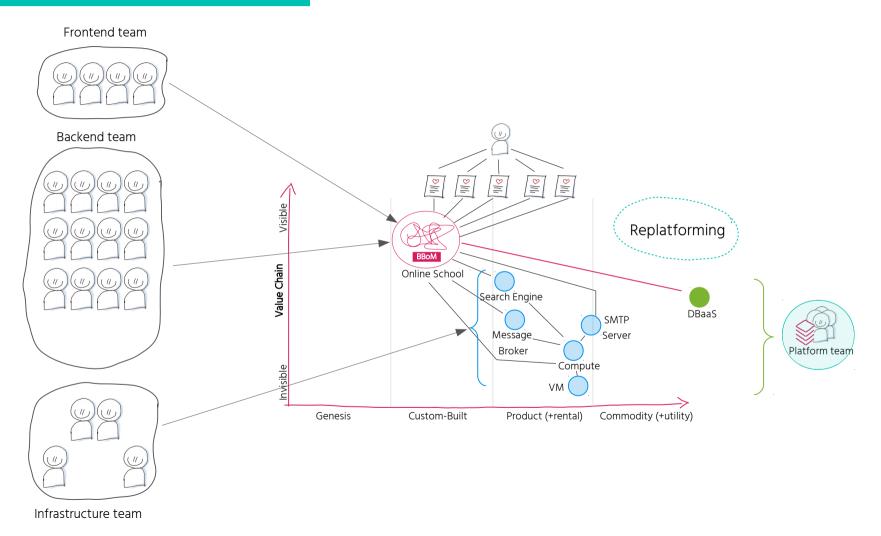


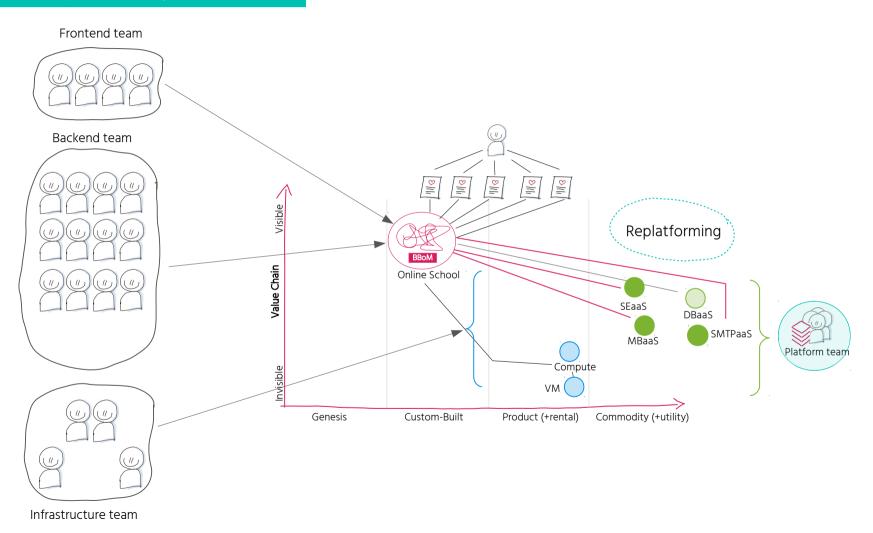


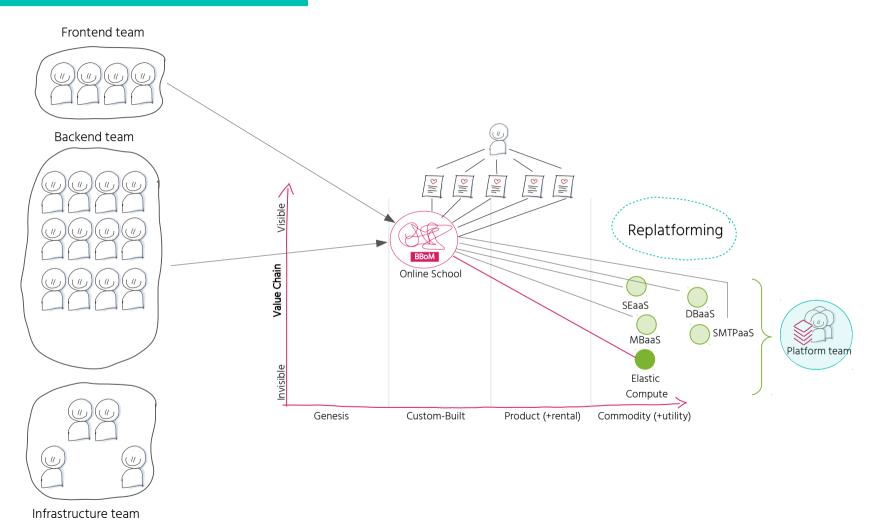


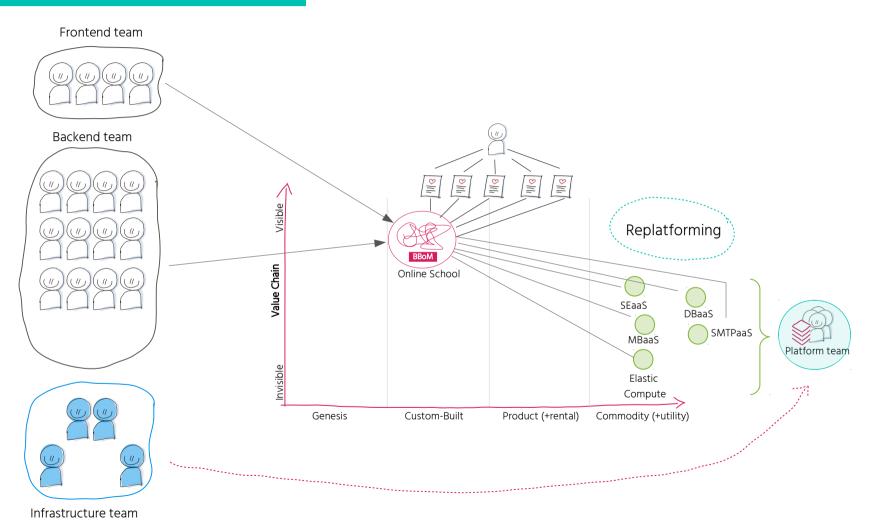


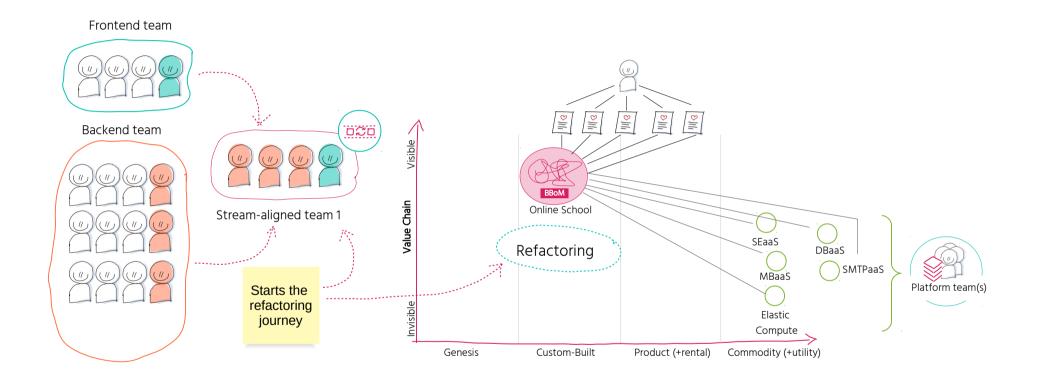


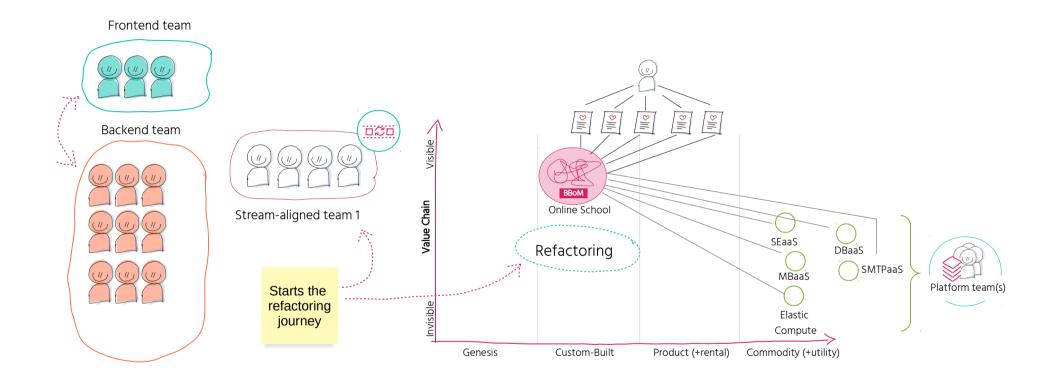


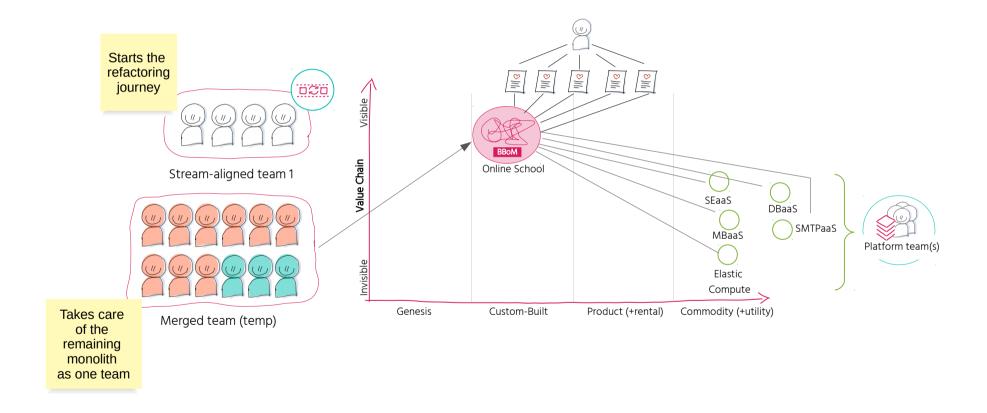


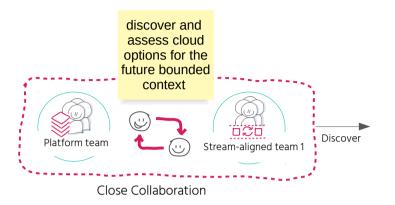


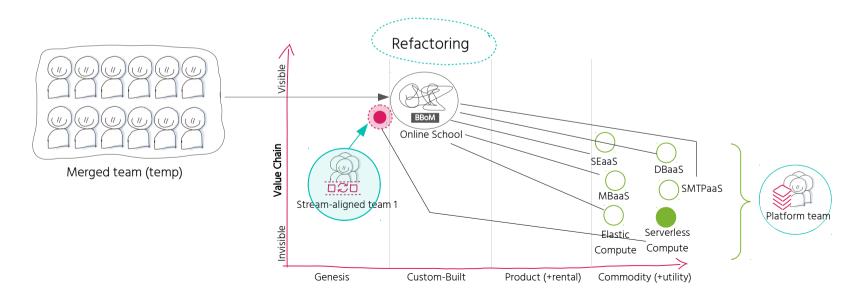


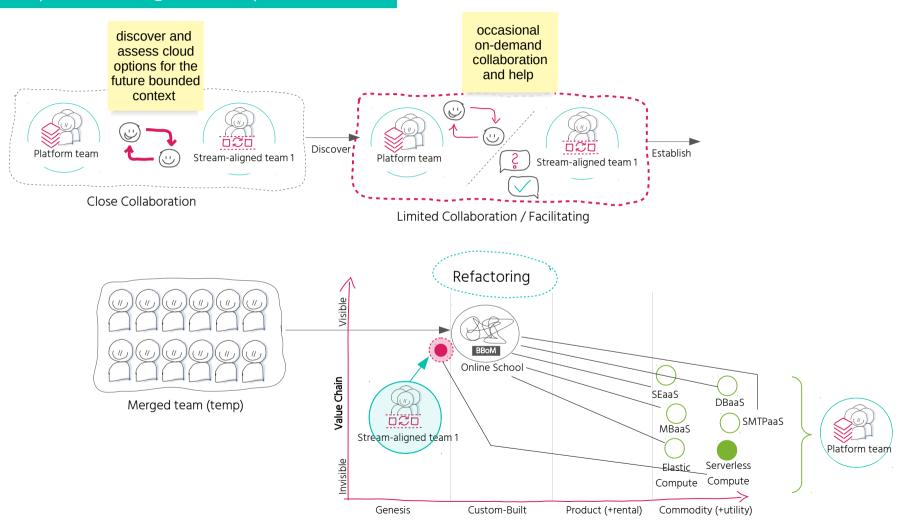


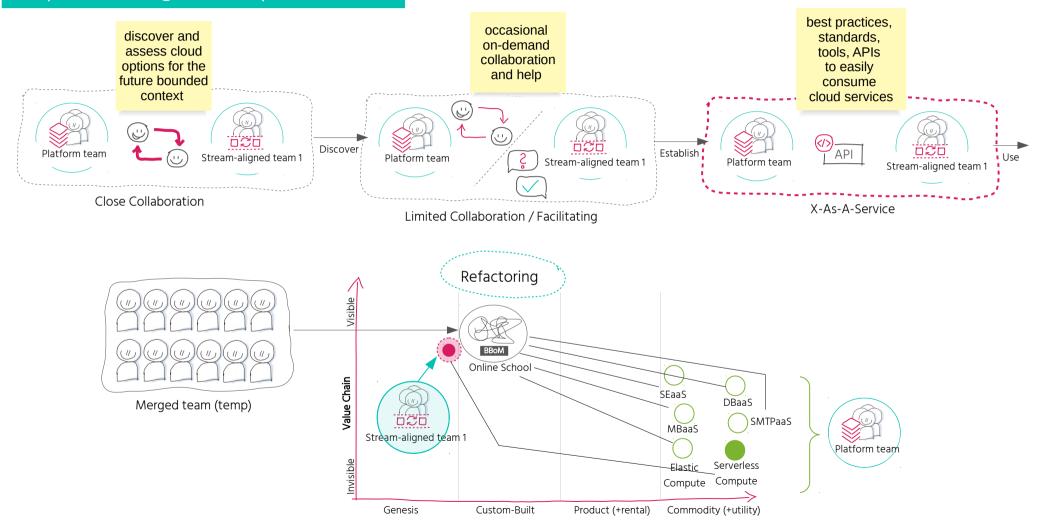


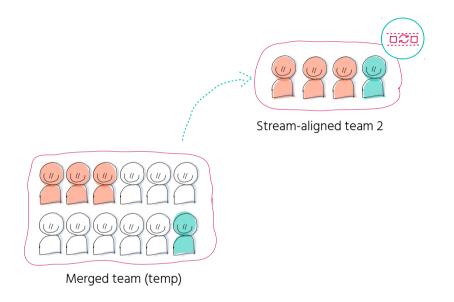


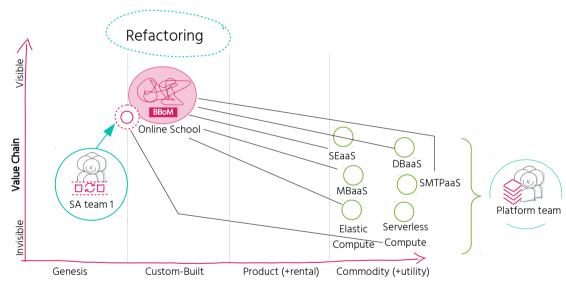


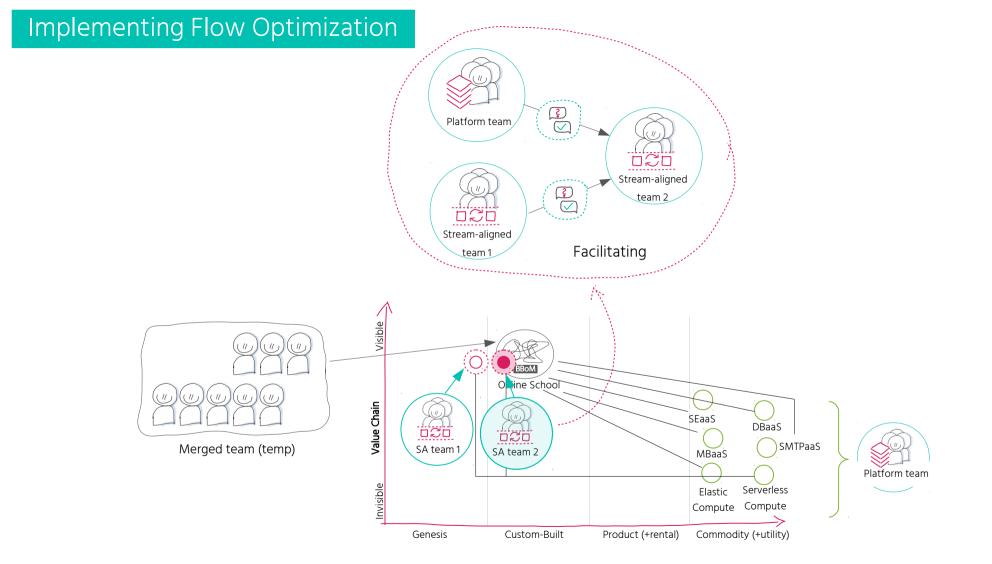


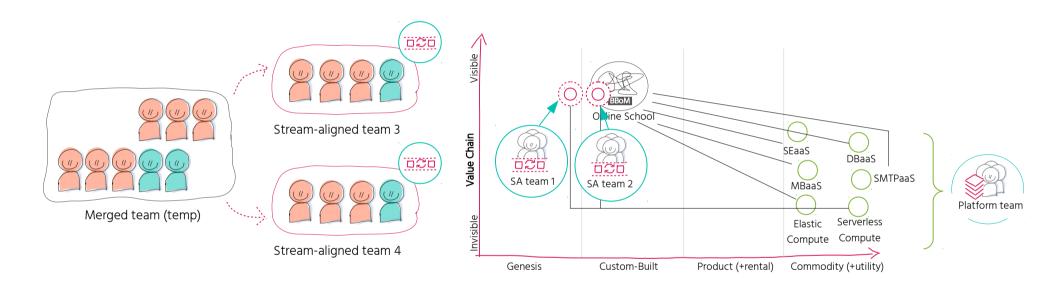


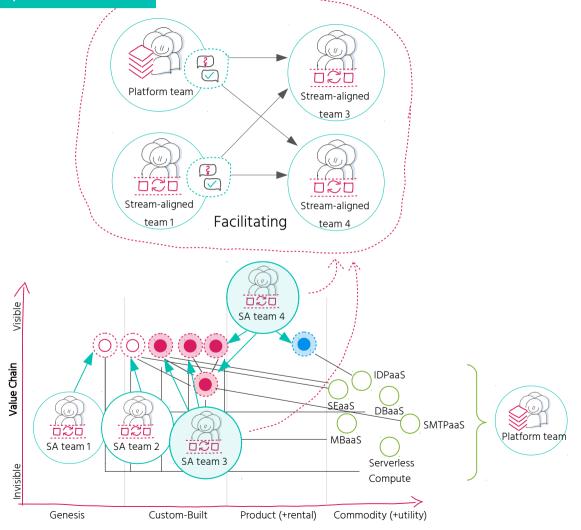


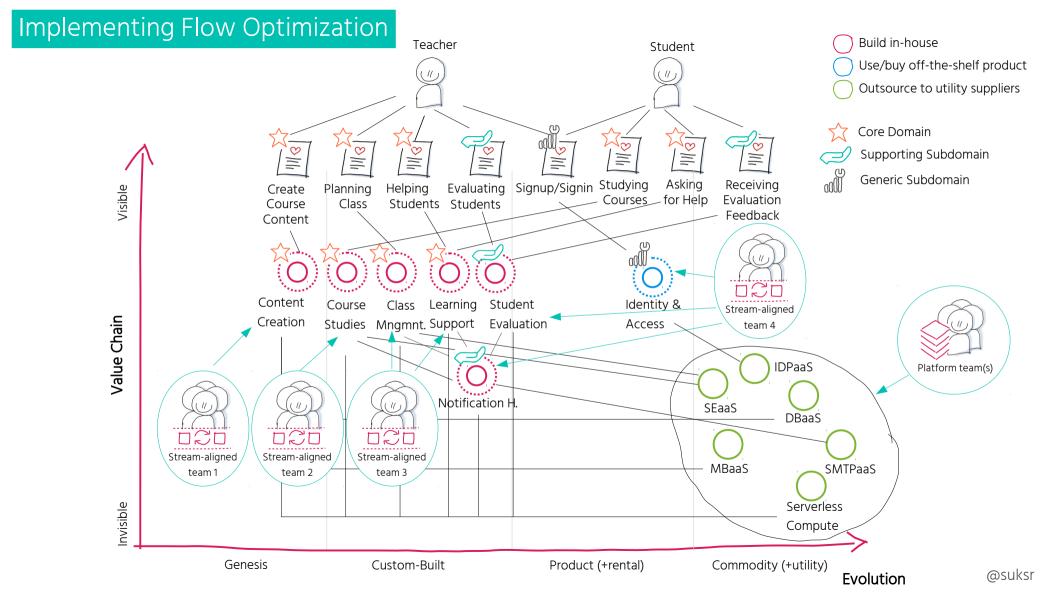












Key Takeaways



- Understanding the environment an organization is operating & competing in
- · Gaining domain knowledge & discovering the core
- Knowing what components to build, buy/use, or outsource
- Decomposing the problem domain into modular boundext contexts
- Aligning teams and evolving their interactions to the system we build & the strategy we plan

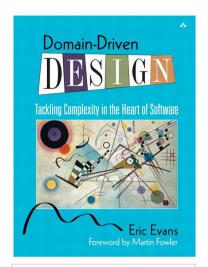
Key Takeaways

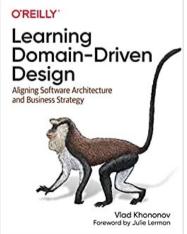


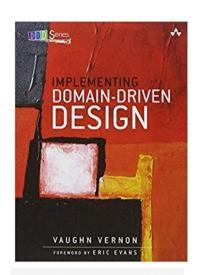
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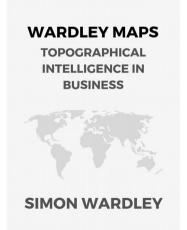
- · Identifying potential efficiency gaps
- Eliminating bottlenecks & increasing software delivery performance
- Being able to respond to changes quickly
- Optimizing for a a fast flow of change with the focus on improving the performance of a system as a whole

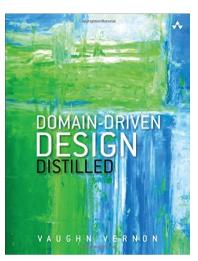
Some References

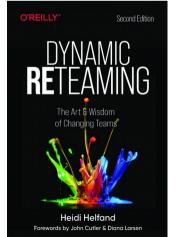


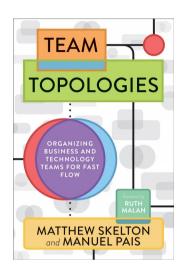






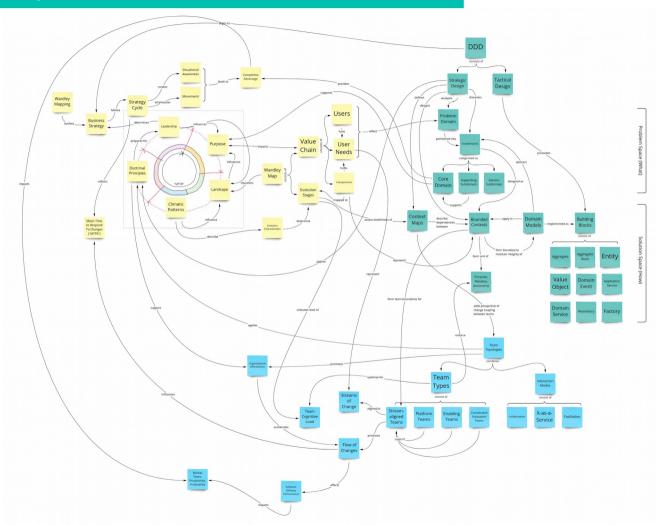


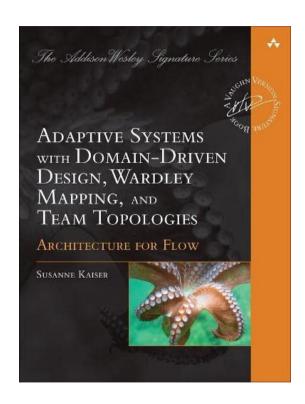




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If you are interested in more details ...





THANK YOU

Susanne Kaiser Independent Tech Consultant @suksr