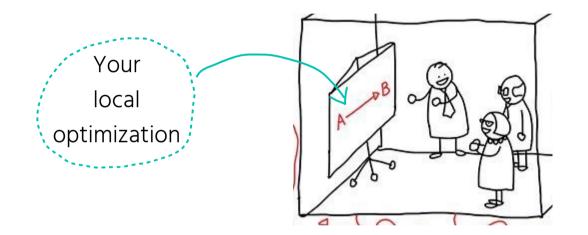


# Architecture for Flow w/ Wardley Mapping, DDD, Team Topologies

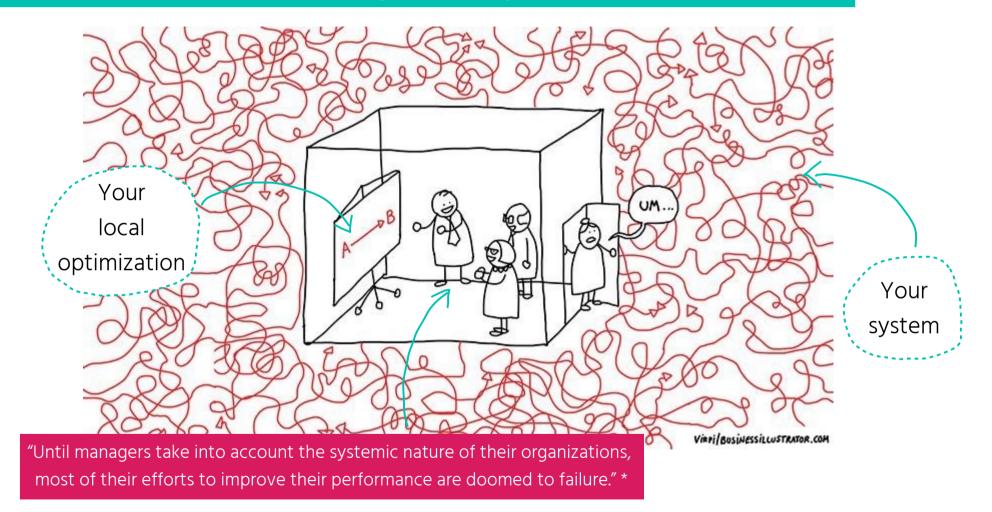
Susanne Kaiser Independent Tech Consultant

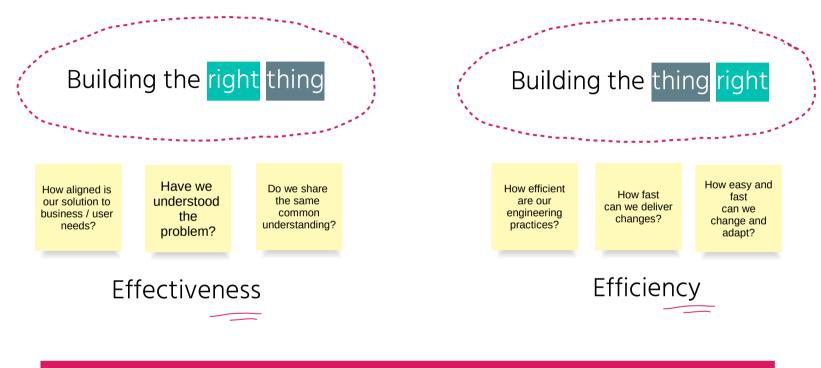
@suksr

# Problem with Local Optimization



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





"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



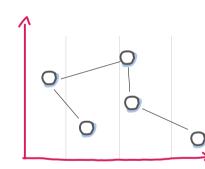
Business-Strategy



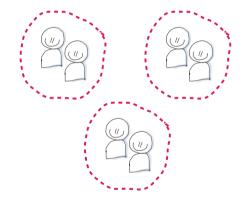
Software-Design/ -Architecture



Team-Organization







w/ Wardley Mapping

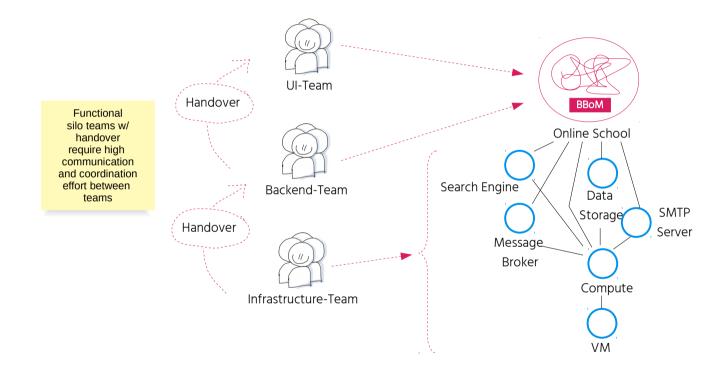
w/ Domain-Driven Design

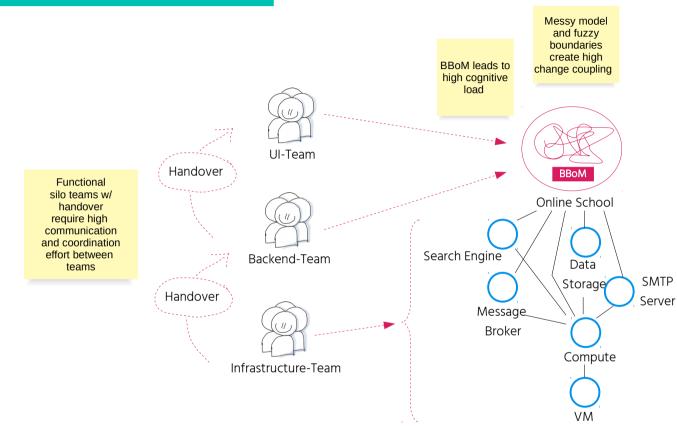
w/Team Topologies

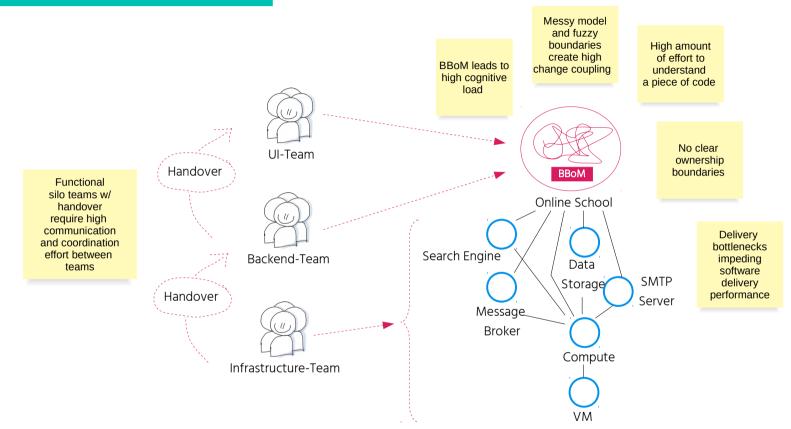


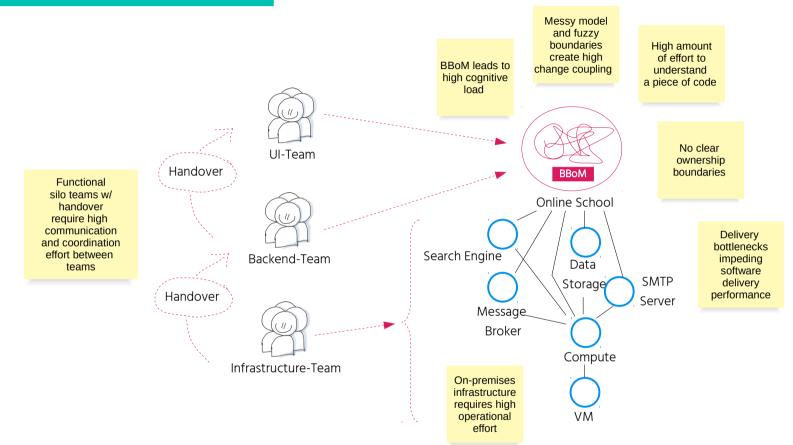


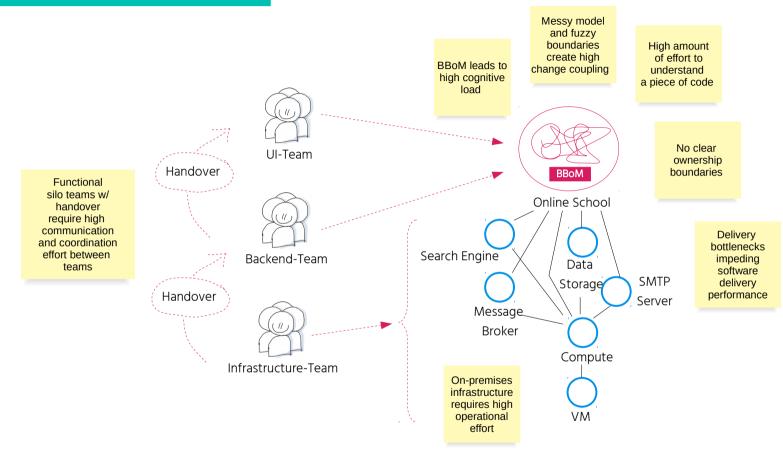
Source: https://www.food-management.com







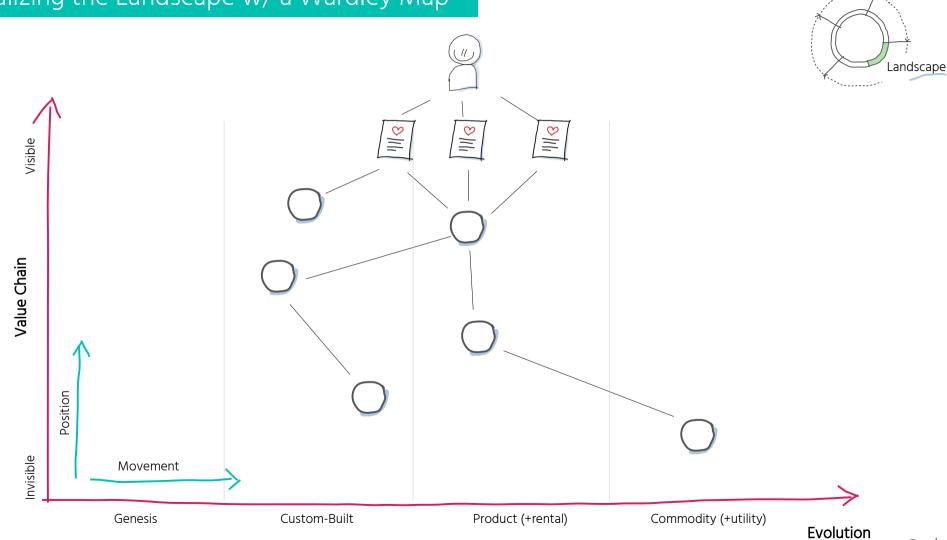


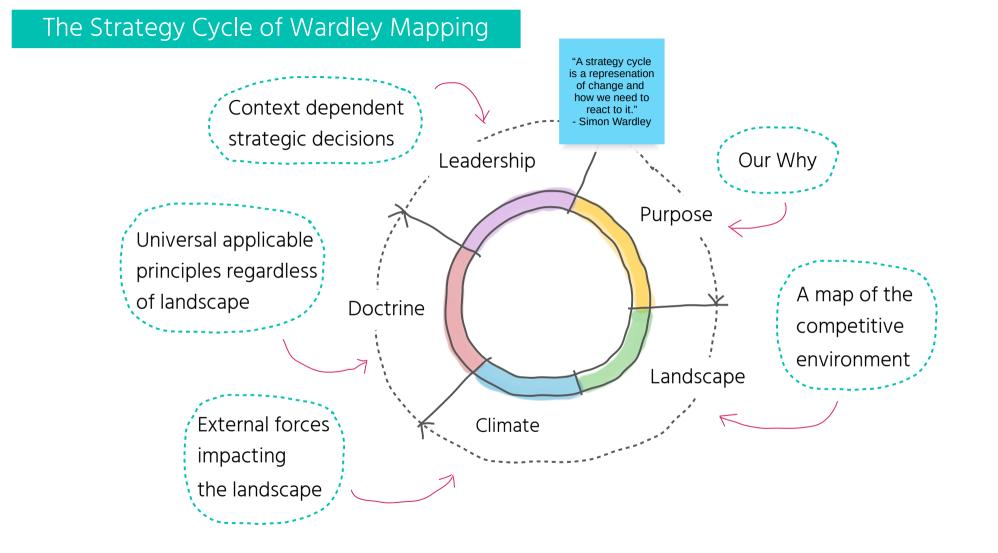


"Local optimization does not improve the performance of the whole."

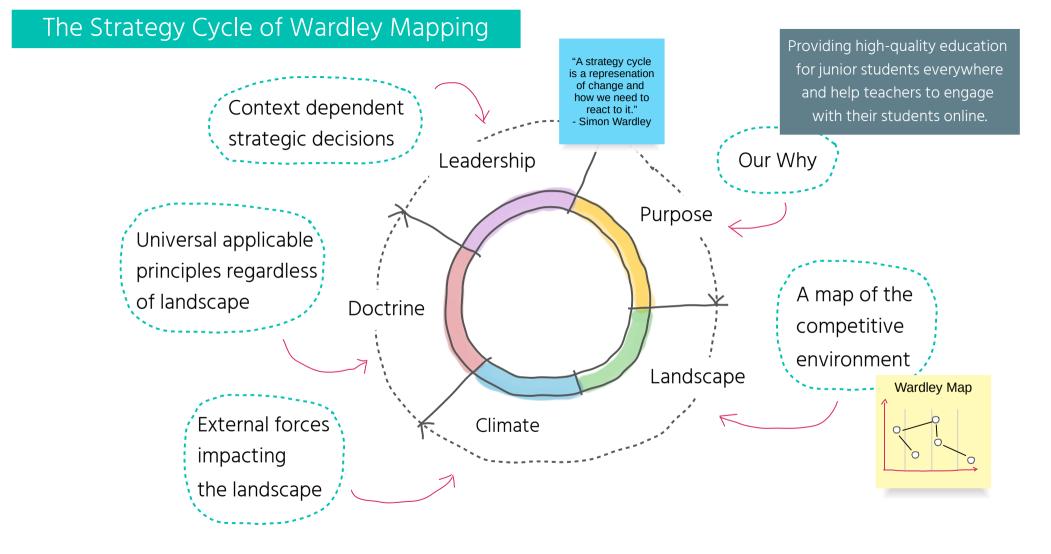
Dr. Russell Ackoff

# Visualizing the Landscape w/a Wardley Map

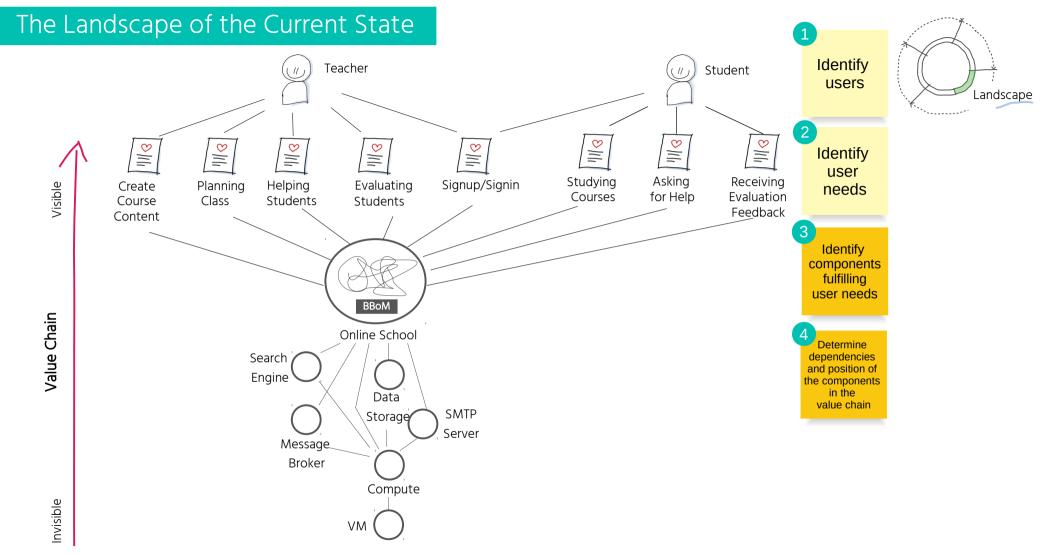




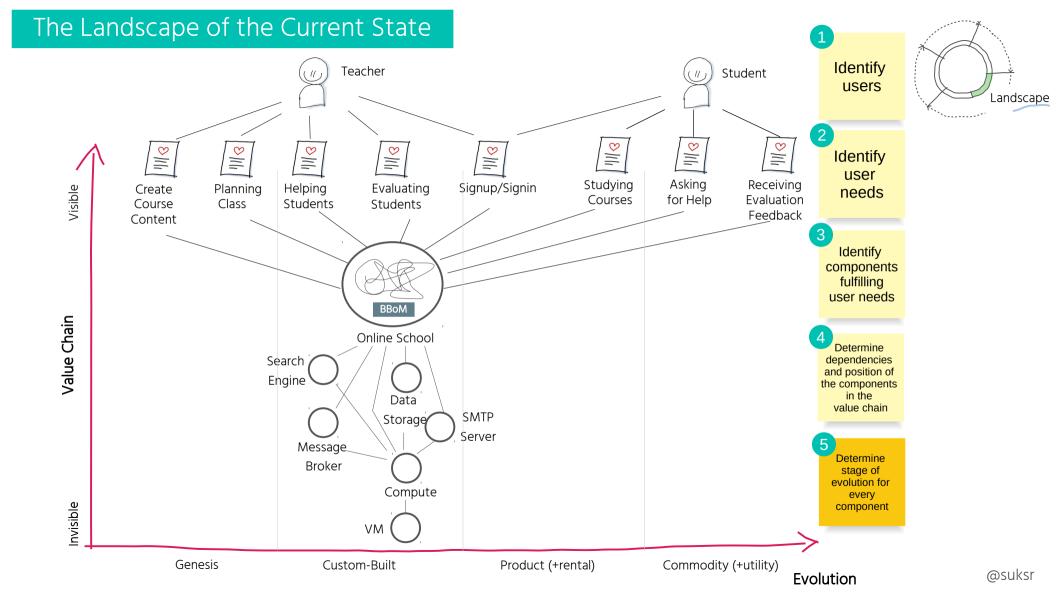
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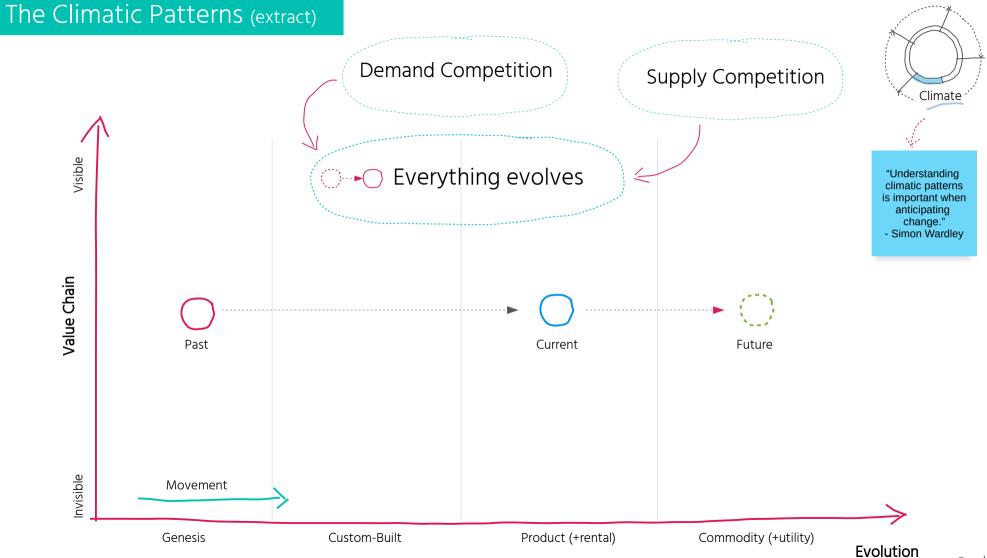


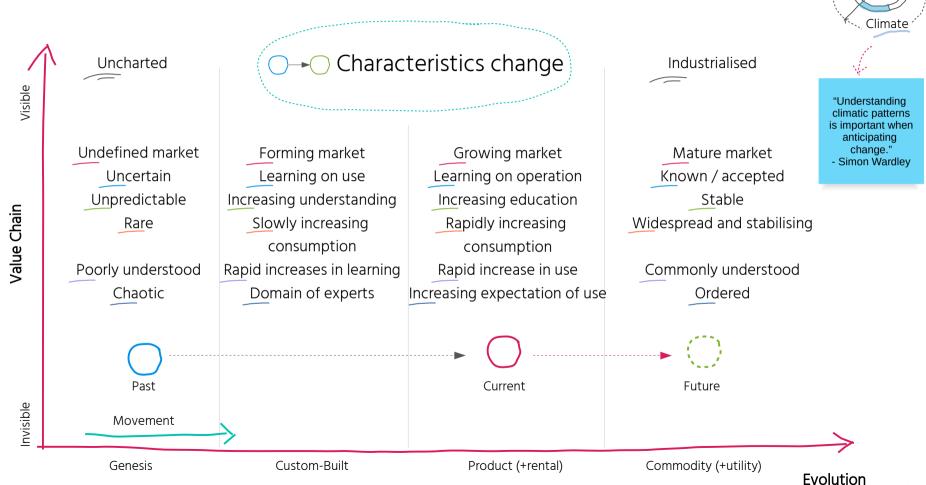
#### The Landscape of the Current State Identify Teacher Student (11)11 users Landscape <mark>⊗</mark>||| 8 8 8 8 8 8 8 Identify user Studying Asking Receiving Visible Evaluating Signup/Signin Planning Helping Create needs Evaluation Courses for Help Students Course Class Students Feedback Content Value Chain Invisible

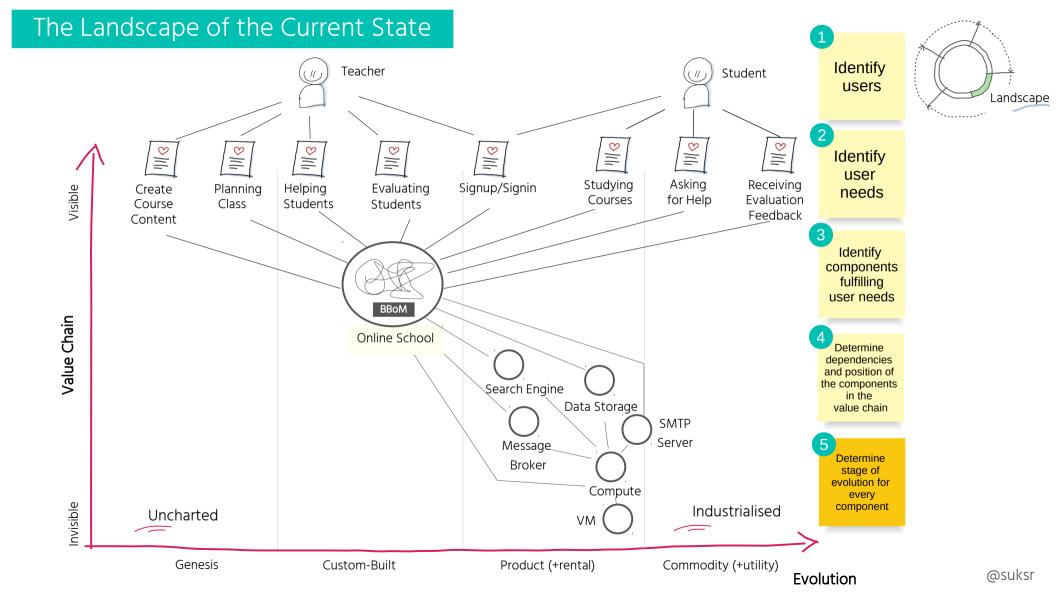


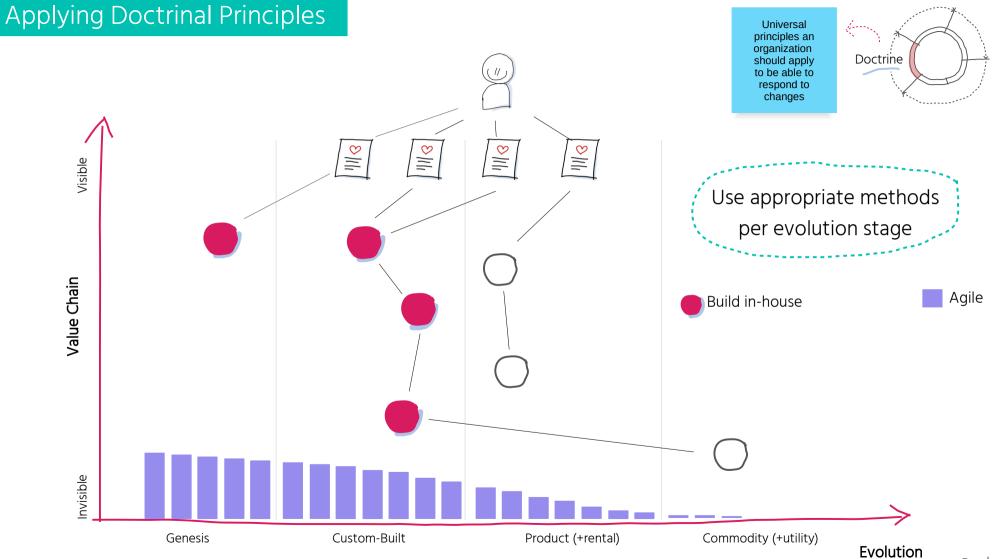
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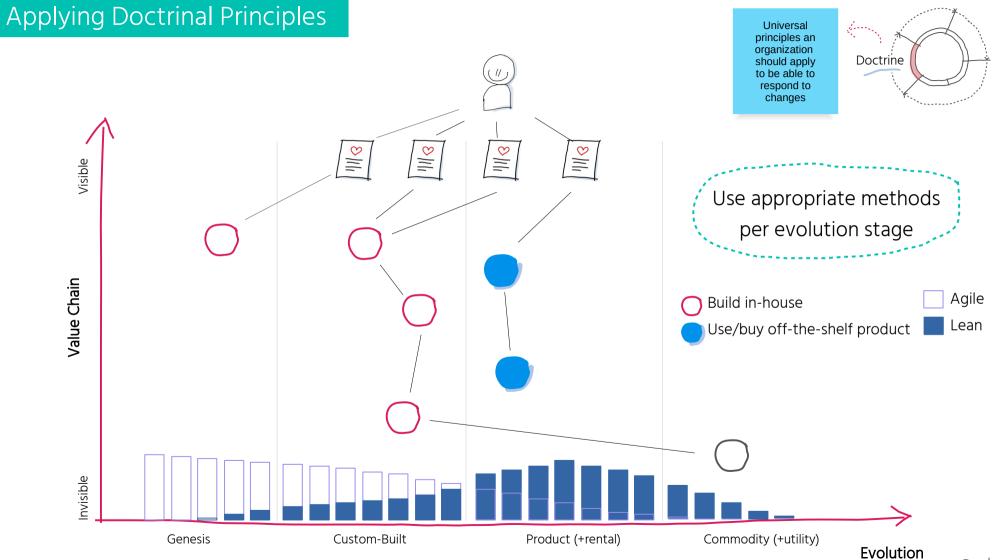


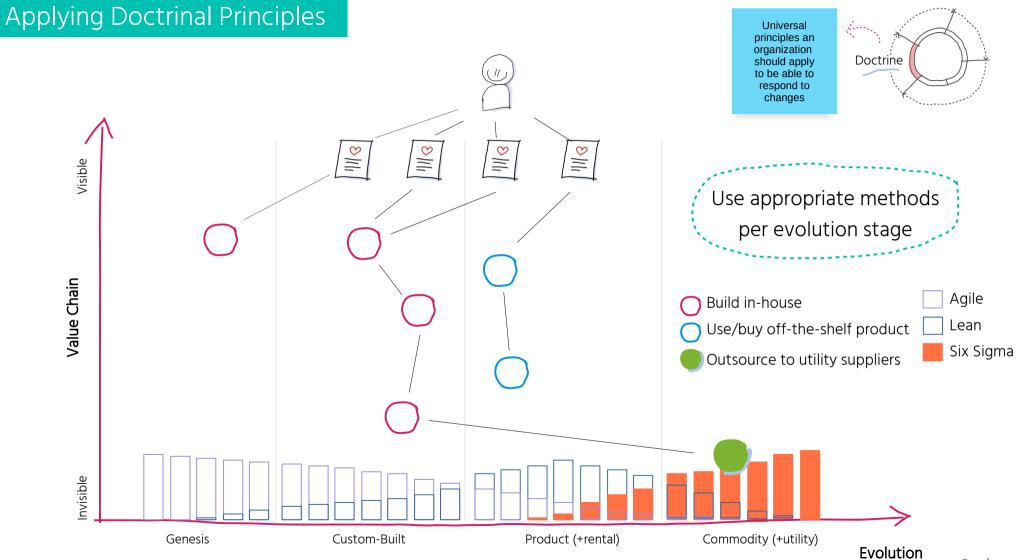




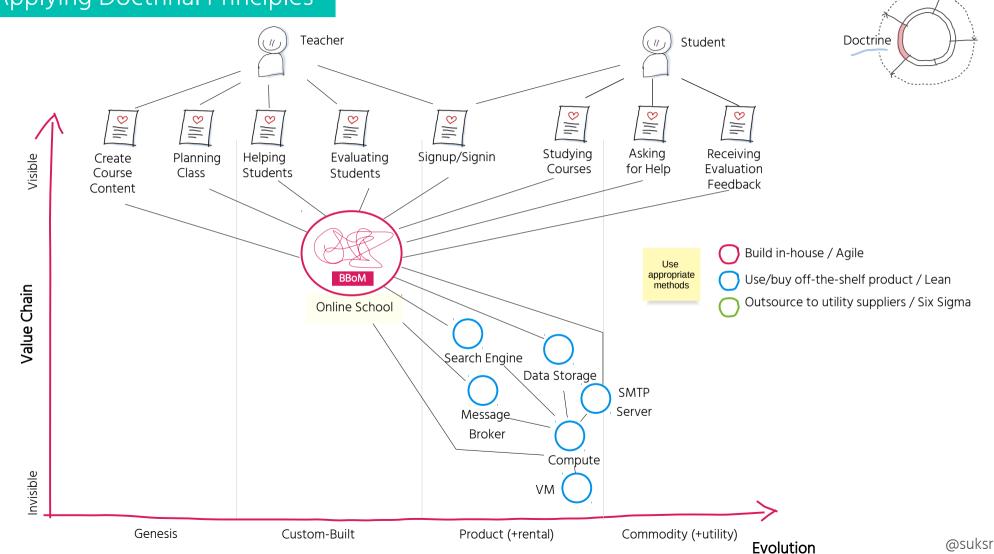




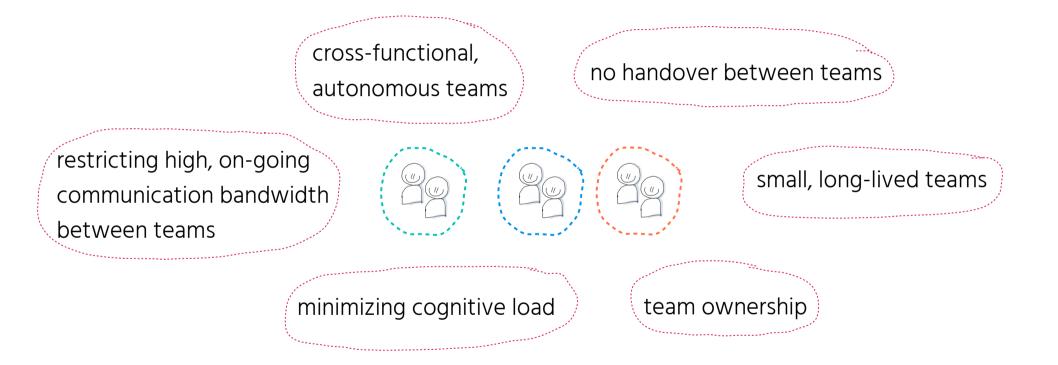


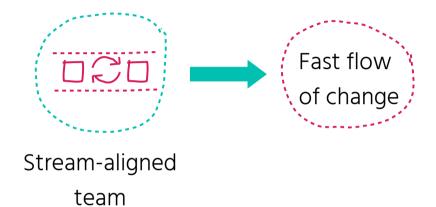


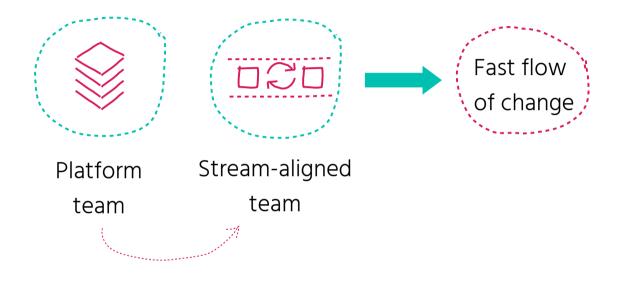
# Applying Doctrinal Principles

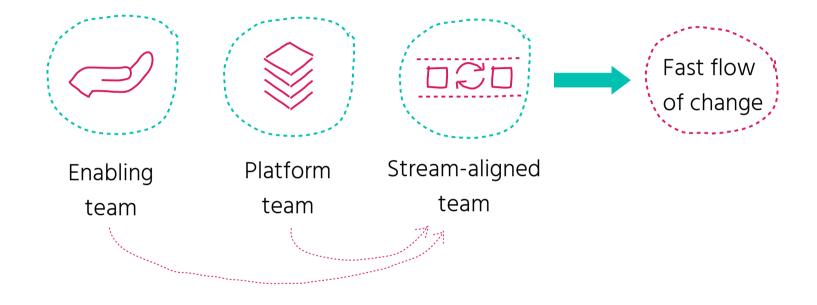


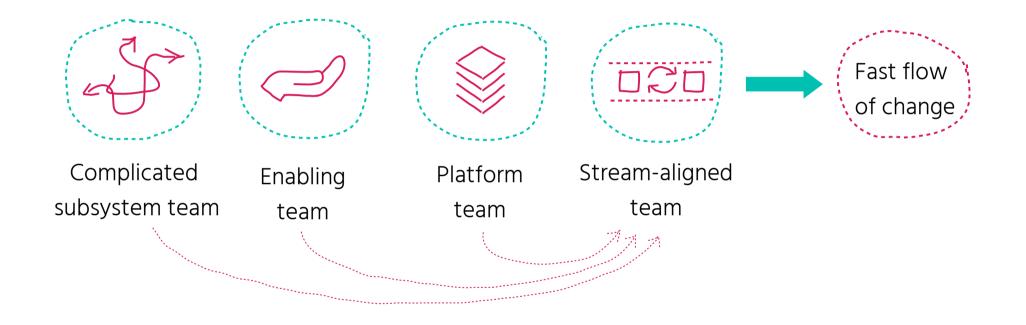
## To optimize for flow of change from a team perspective requires ...

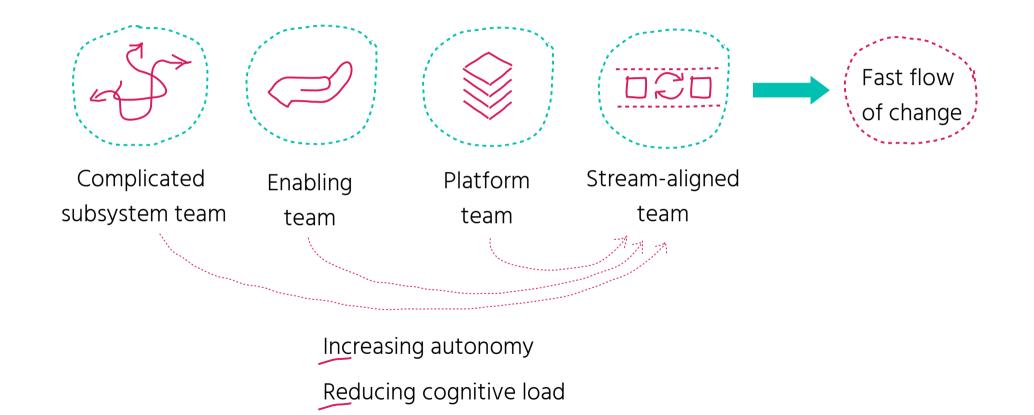


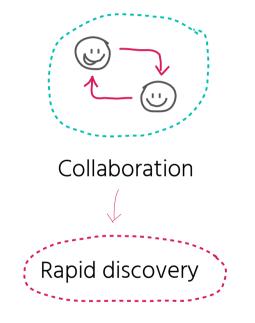


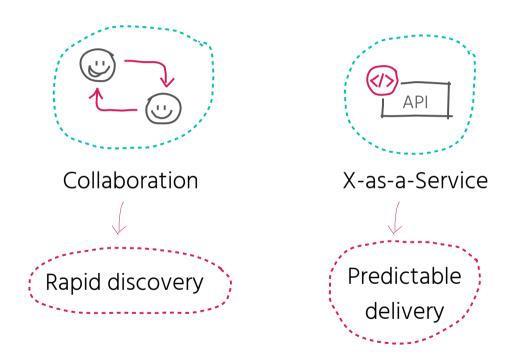


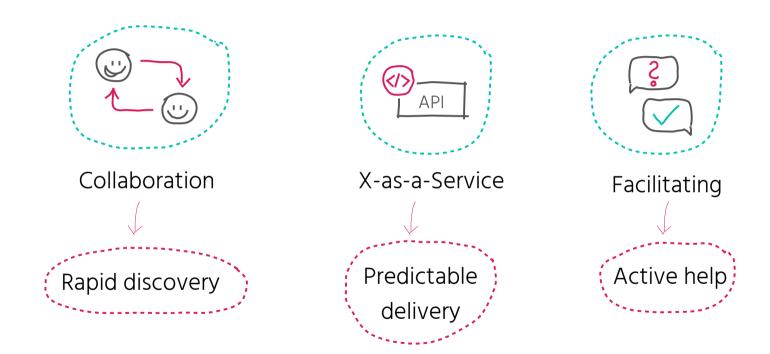




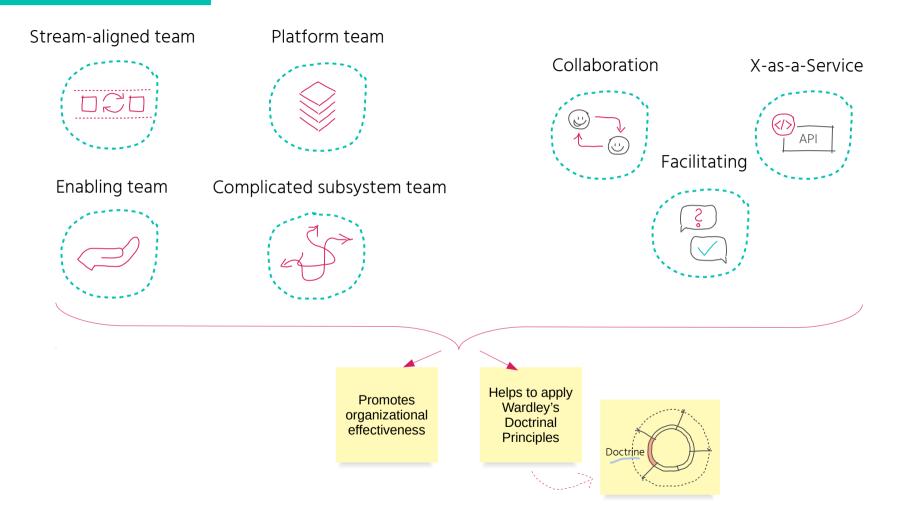




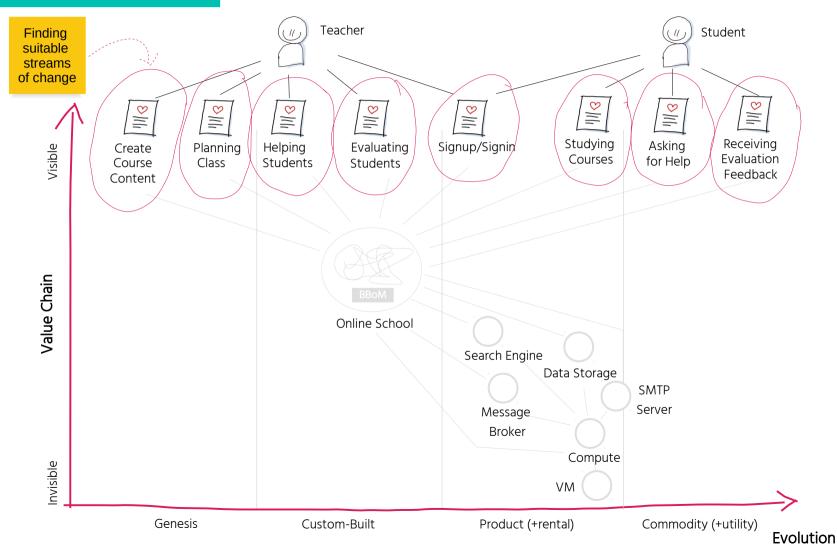




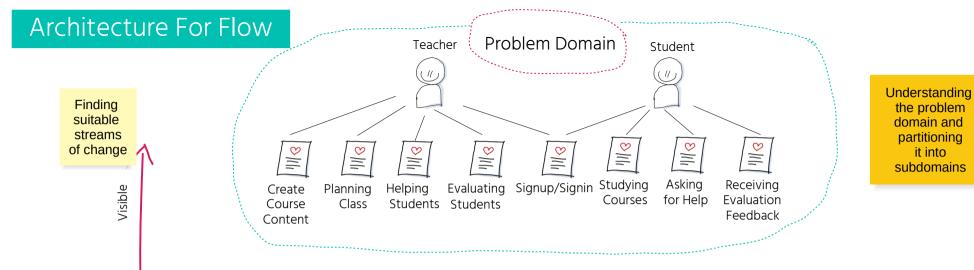
# Team Topologies



## Architecture For Flow



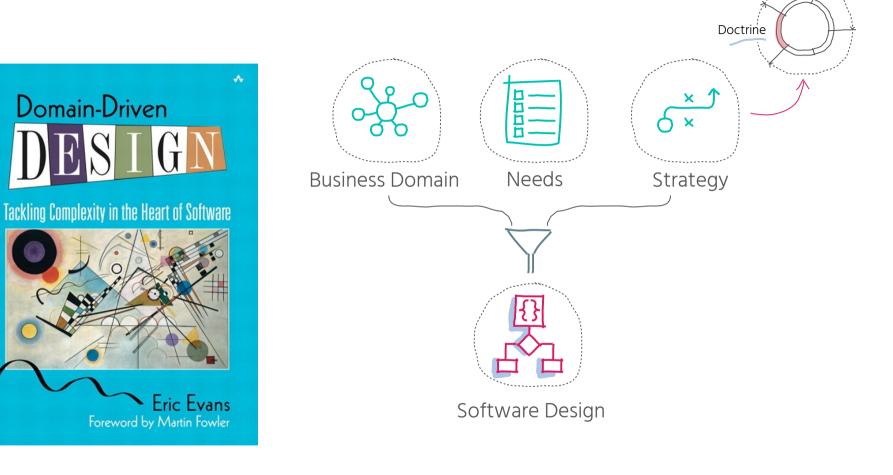
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Value Chain

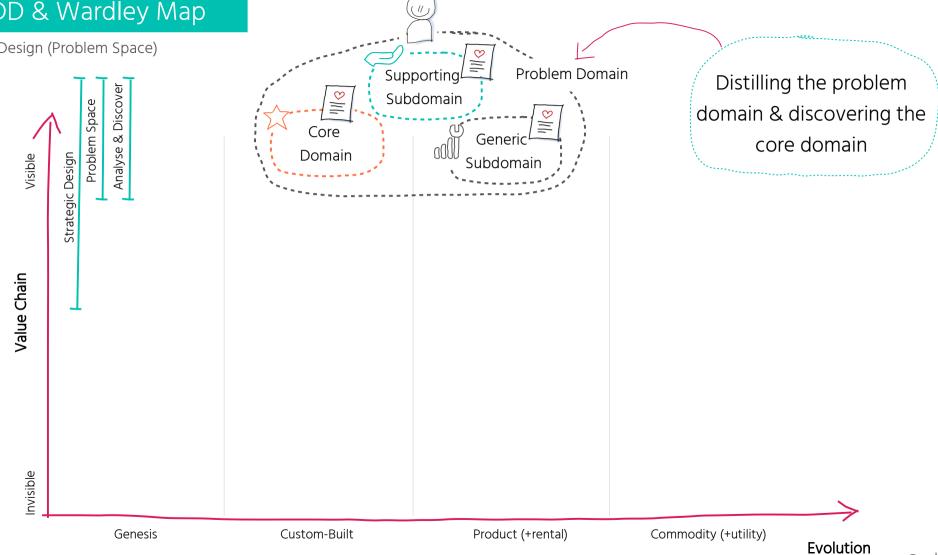
Invisible

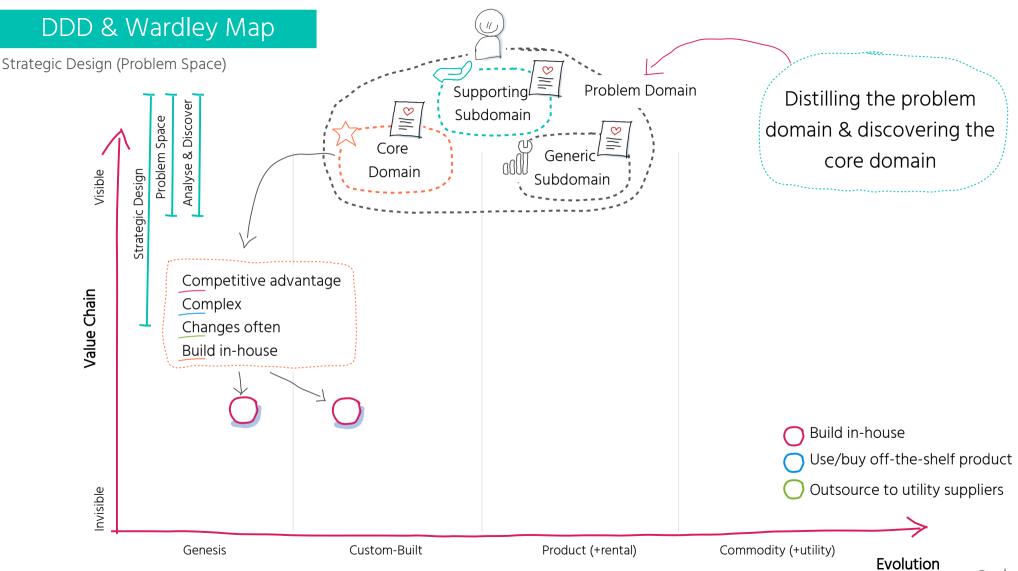
## Domain-Driven Design (DDD)

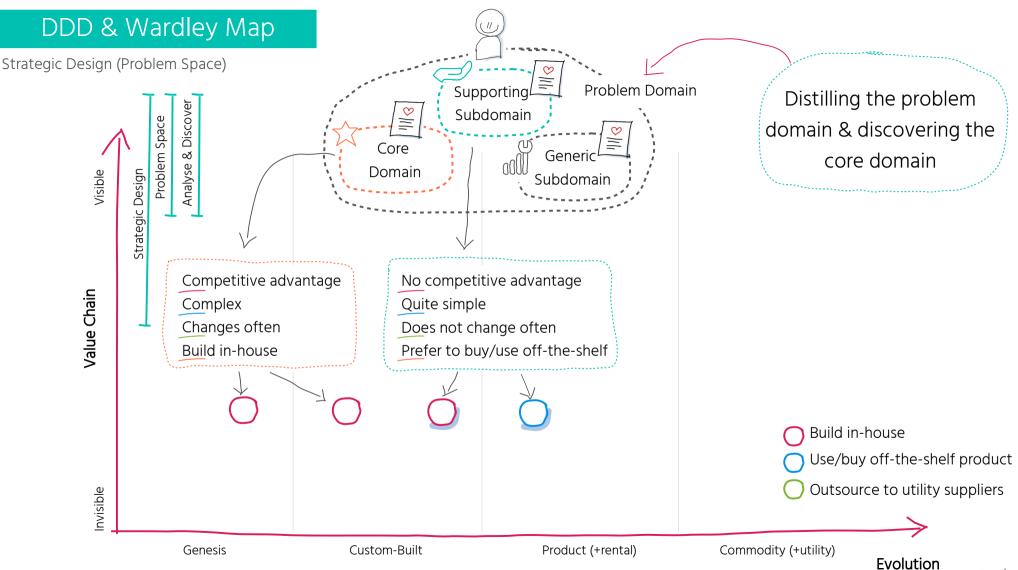


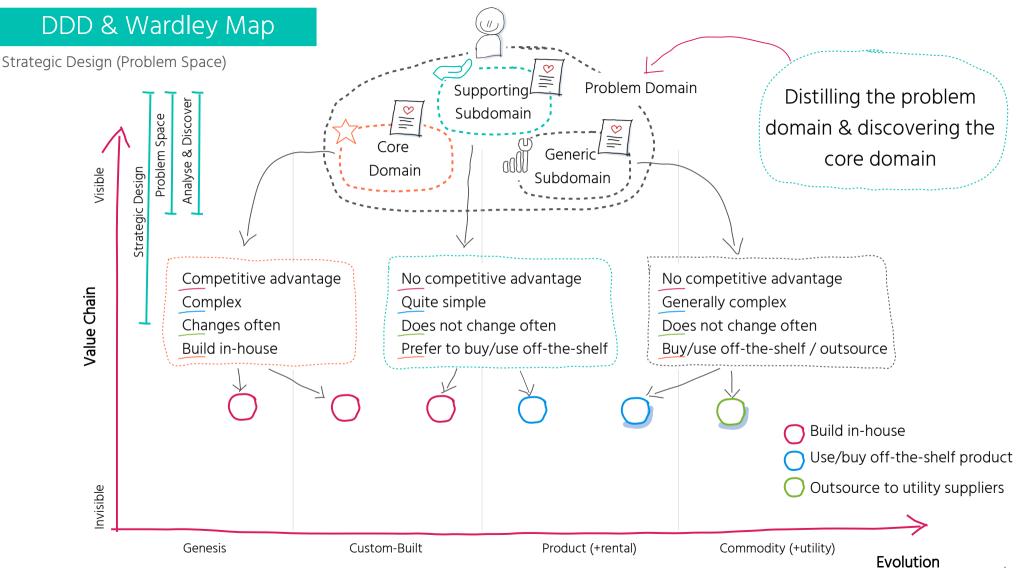
#### DDD & Wardley Map

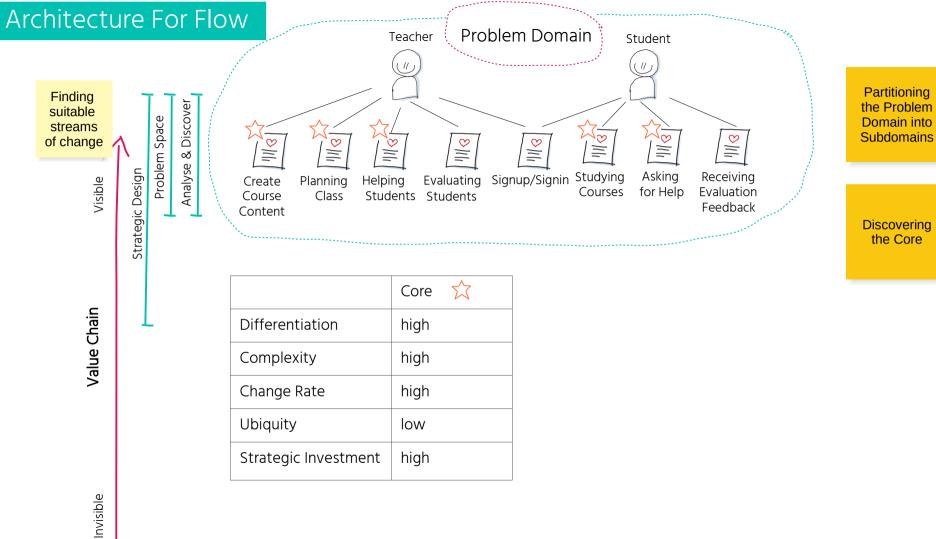
Strategic Design (Problem Space)



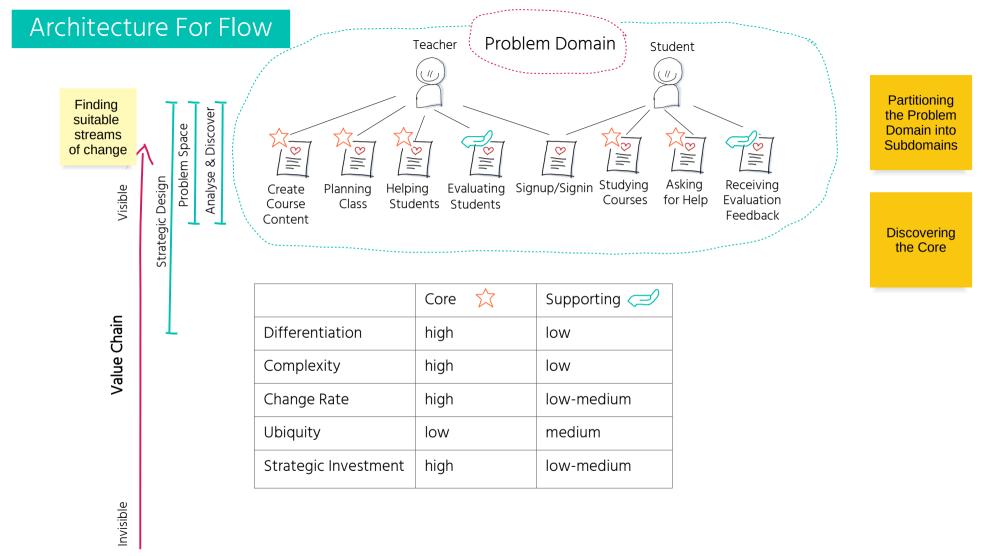




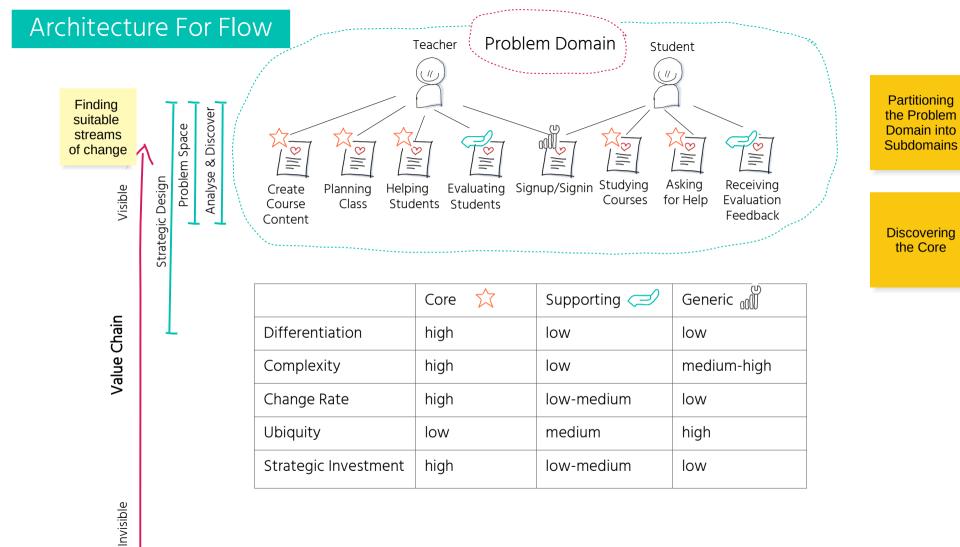




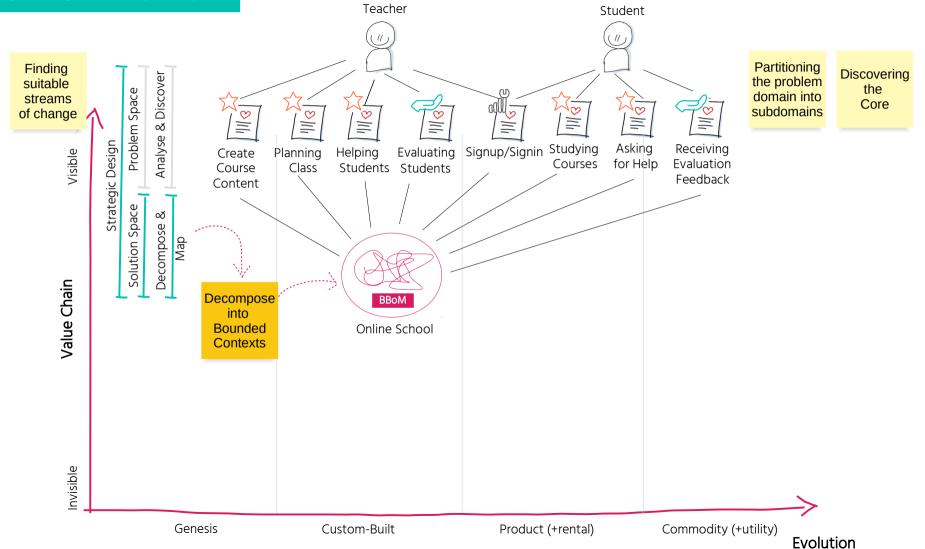
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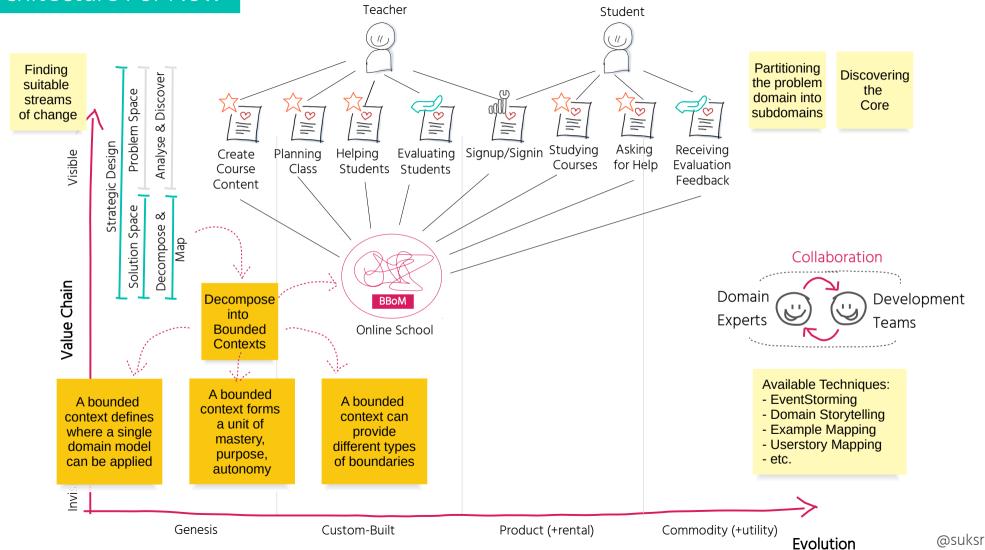


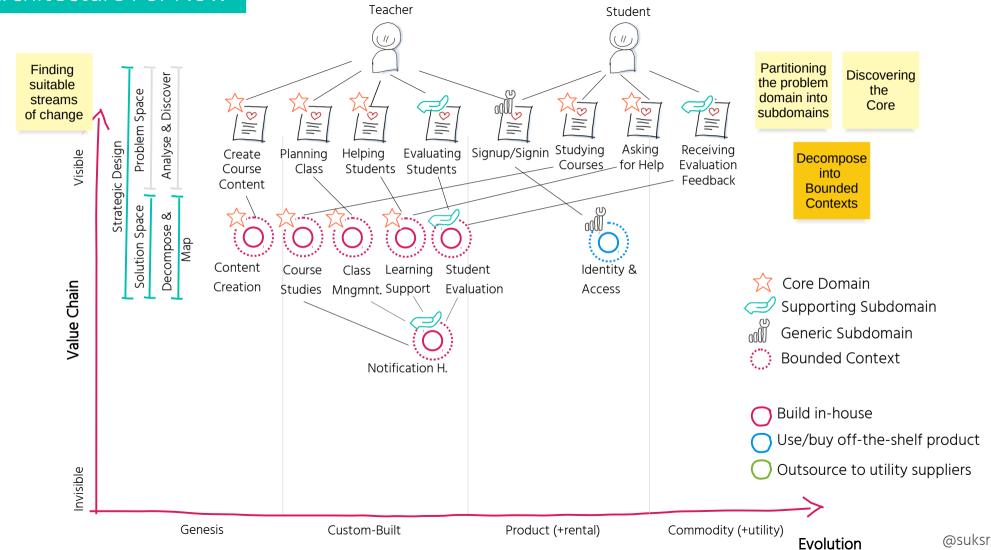
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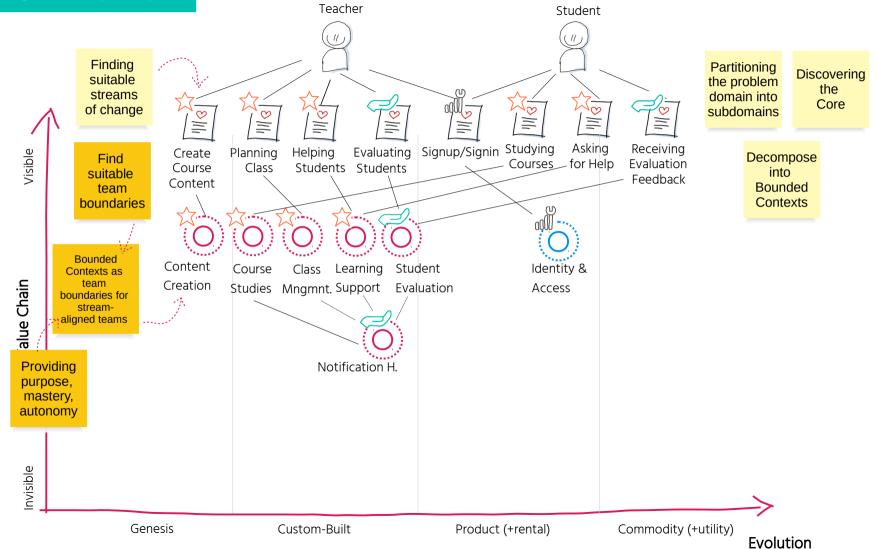


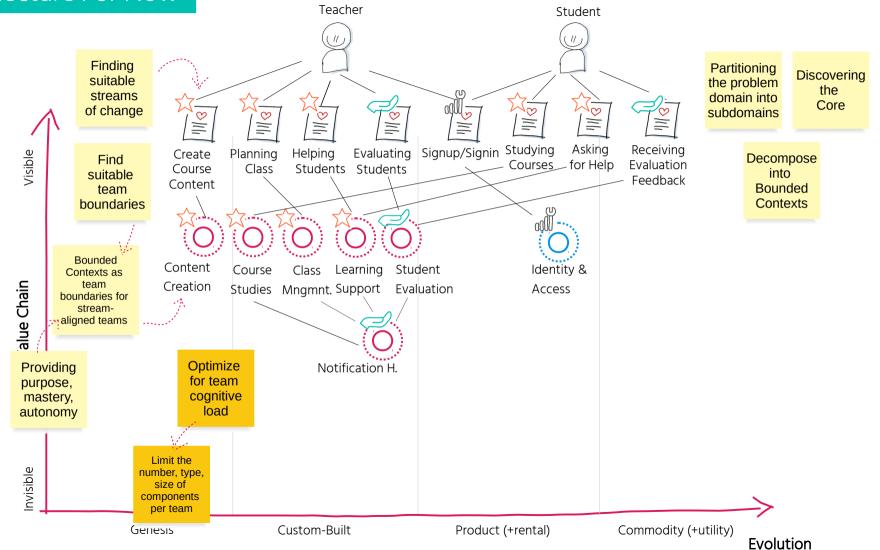
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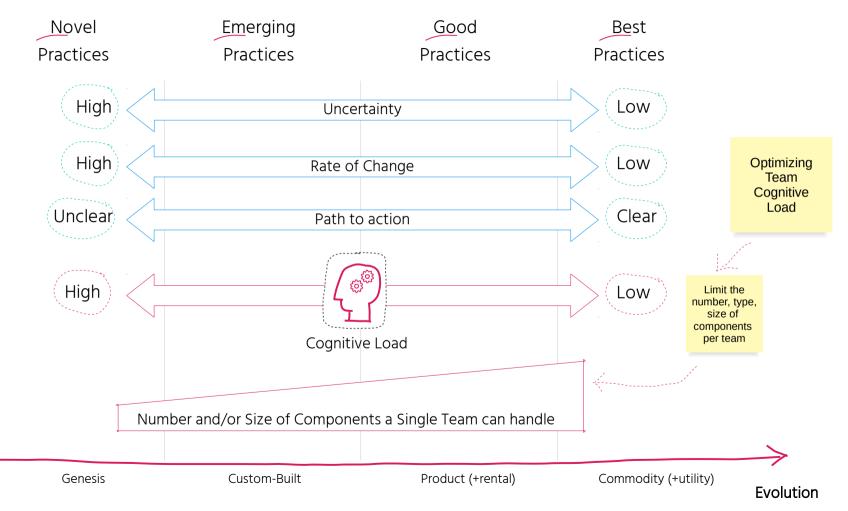


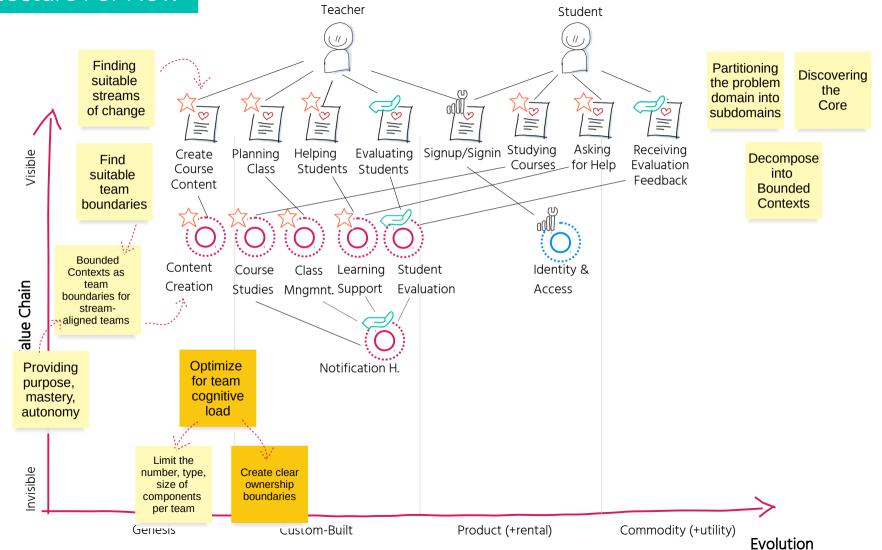


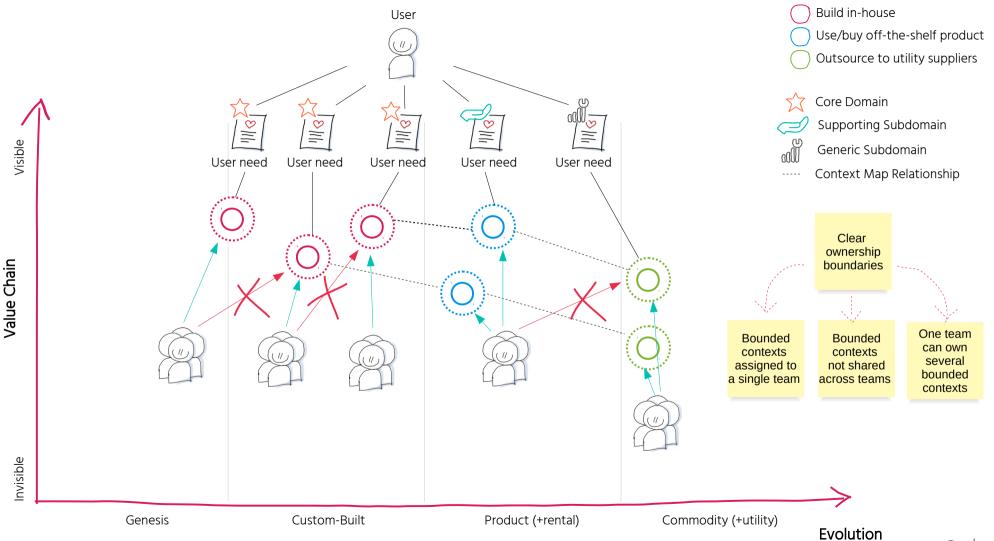


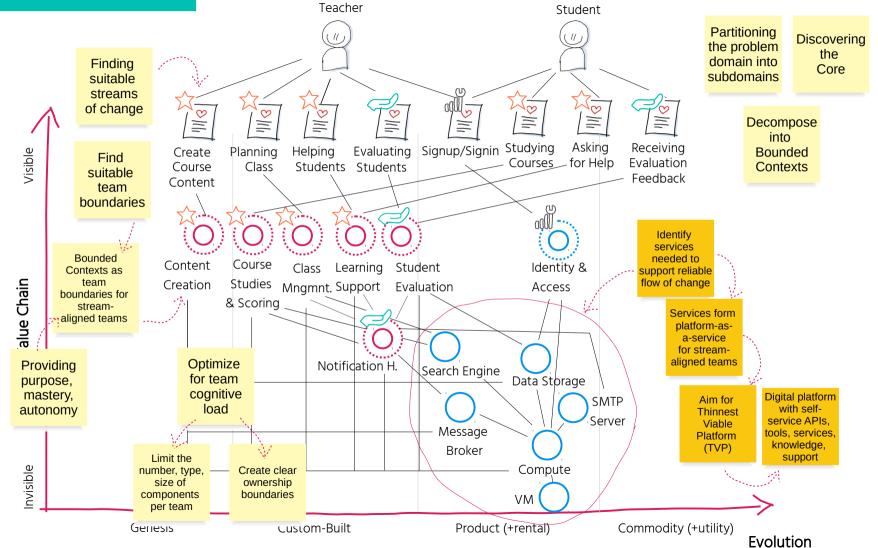




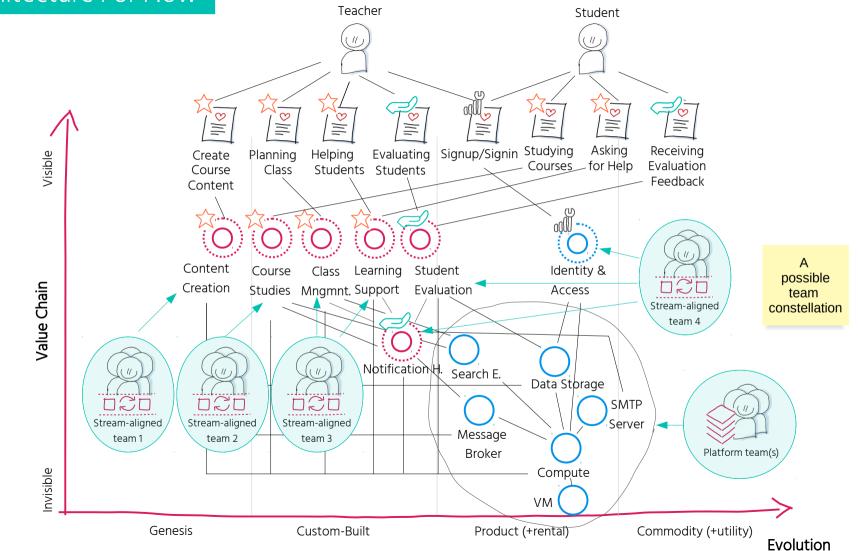


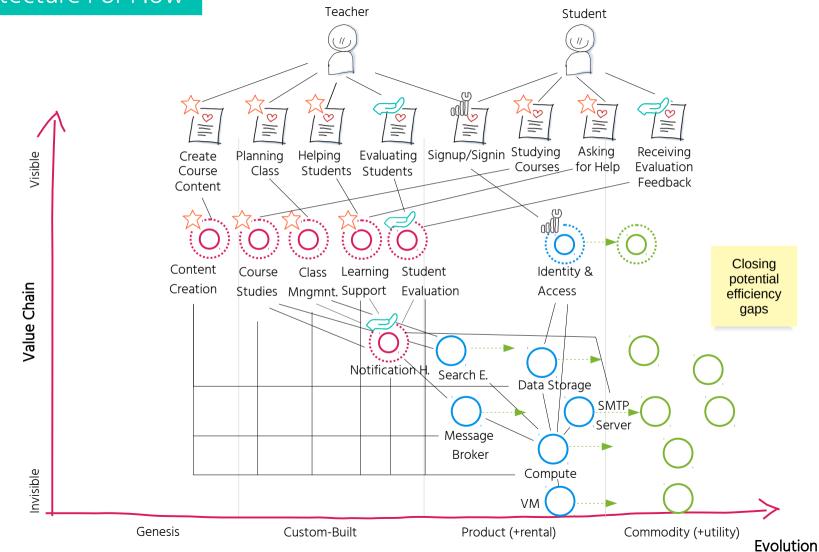


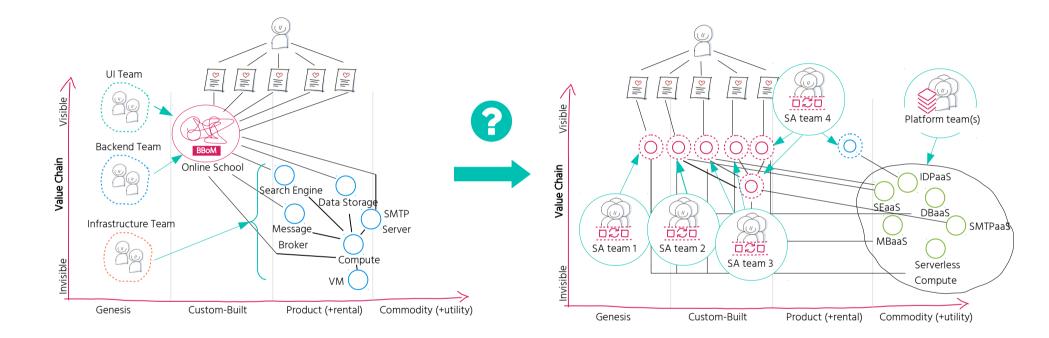




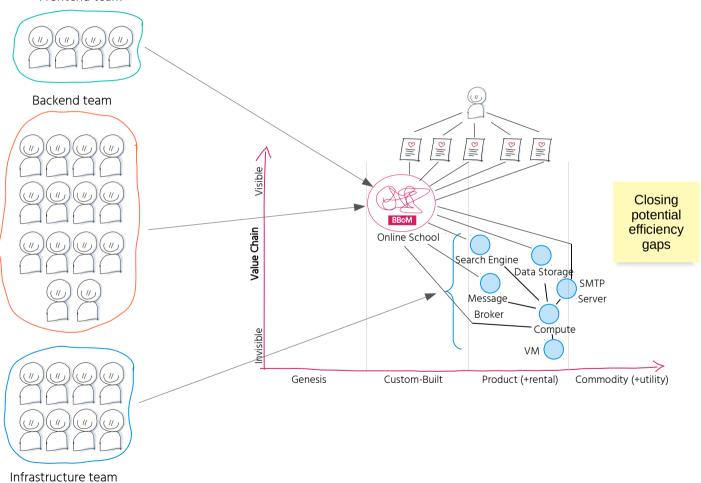
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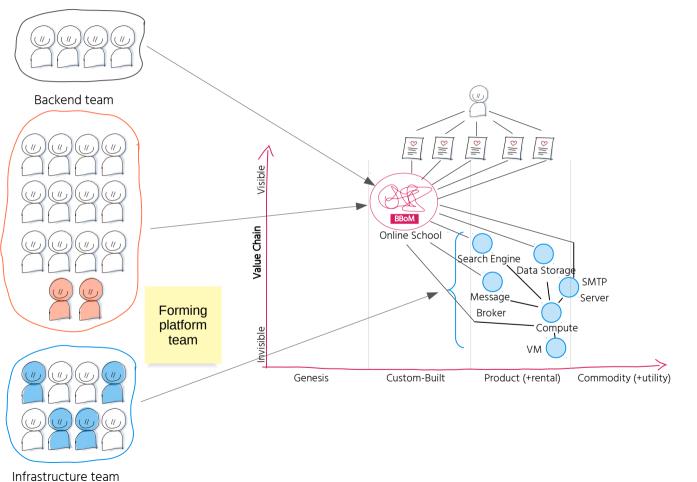


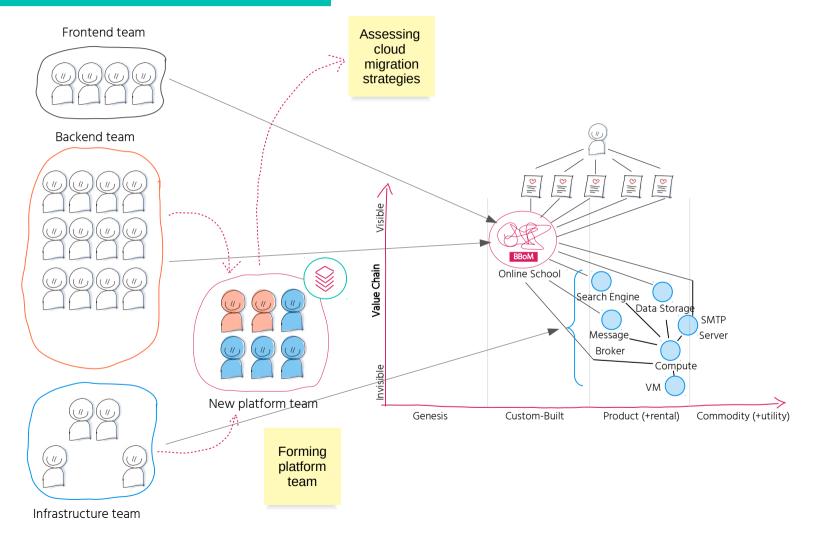


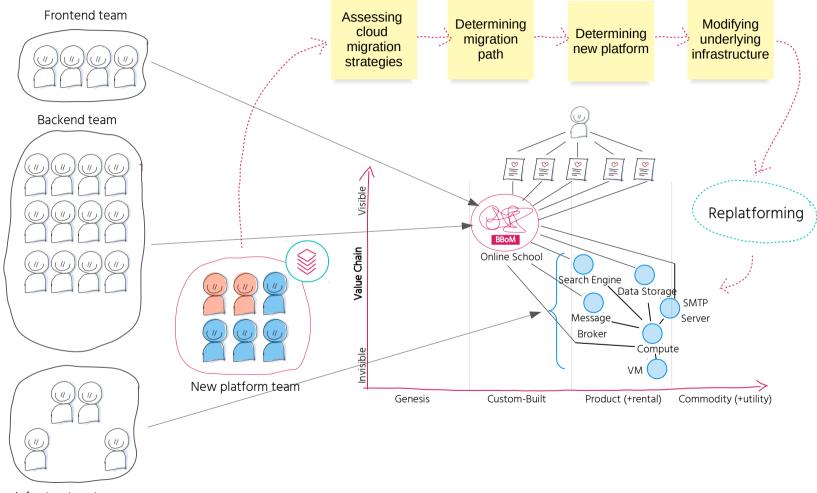
Frontend team



Frontend team

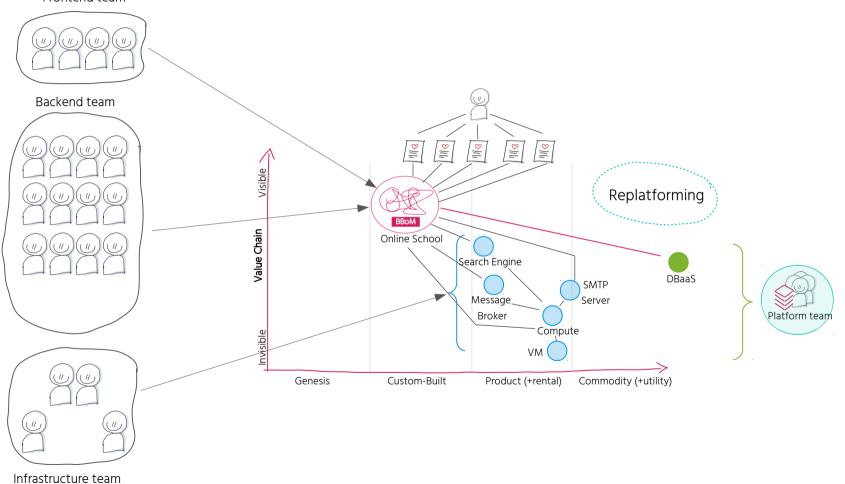




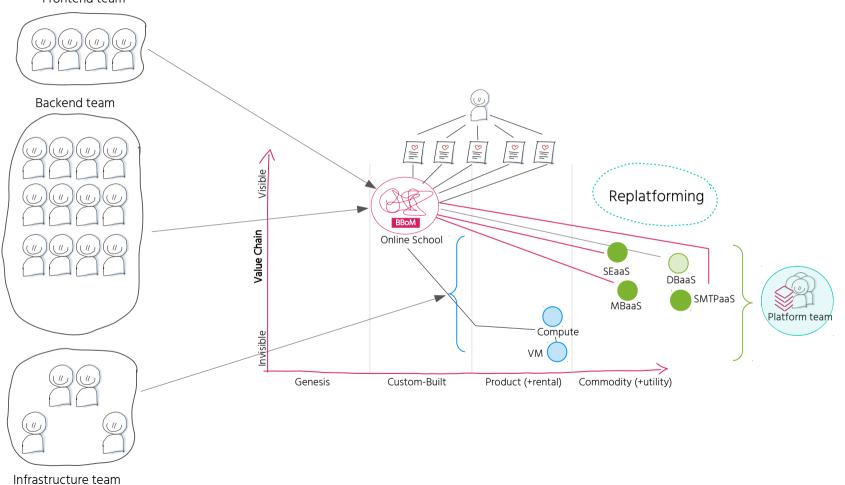


Infrastructure team

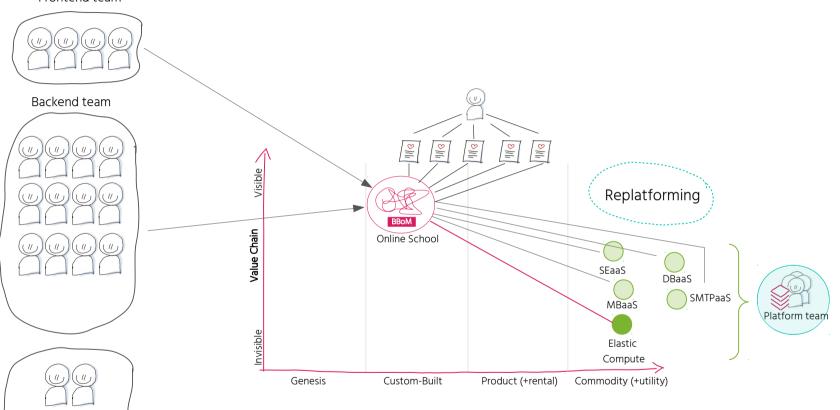
Frontend team



Frontend team



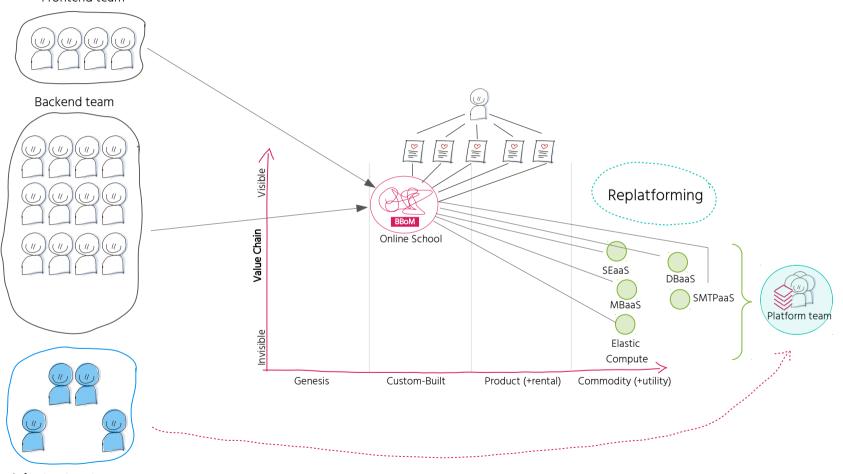
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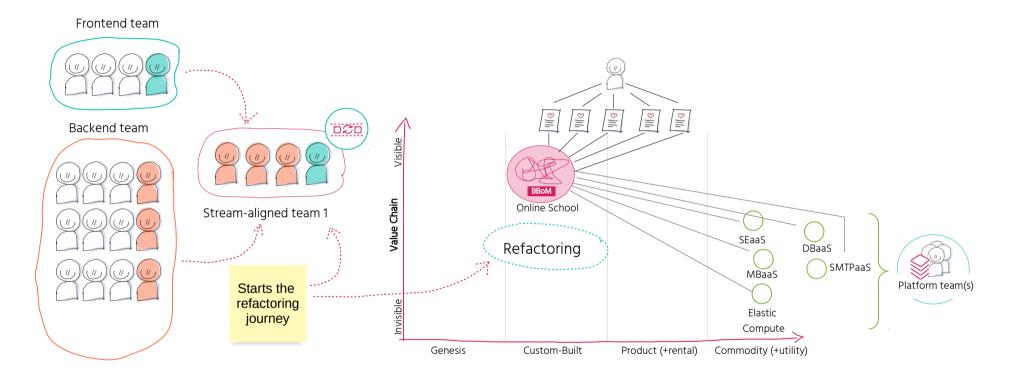
Infrastructure team

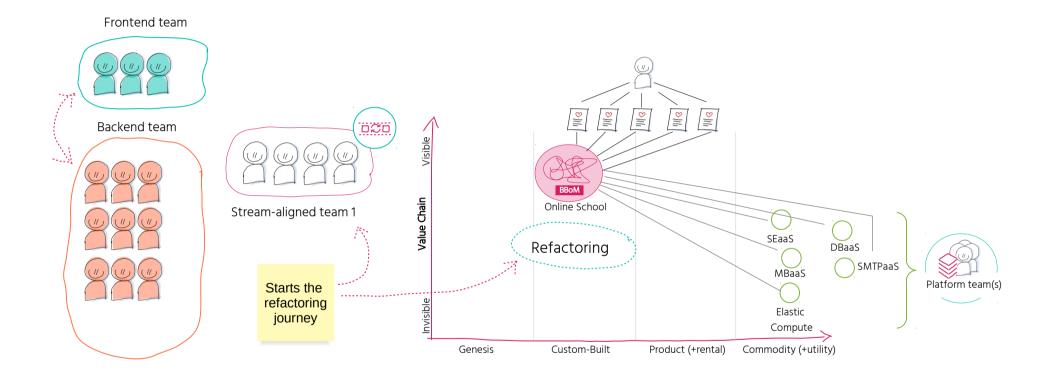
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Frontend team

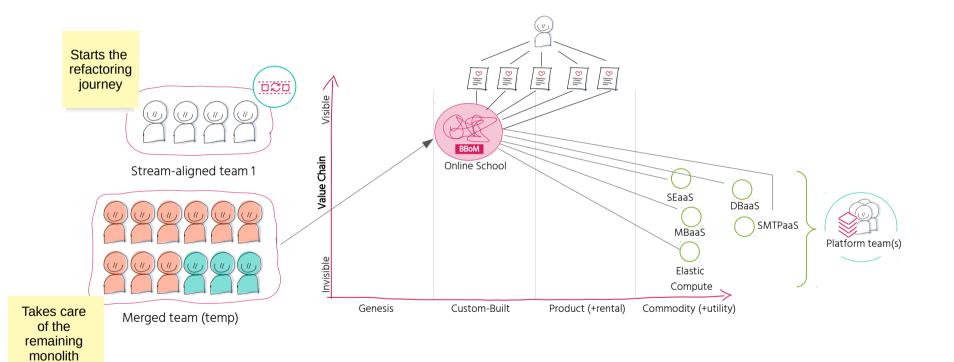


Infrastructure team

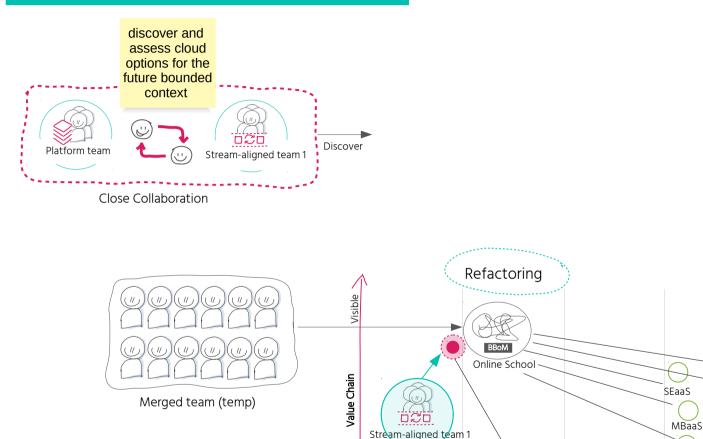




as one team



@suksr

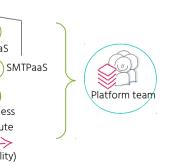


Invisible

Genesis

Custom-Built

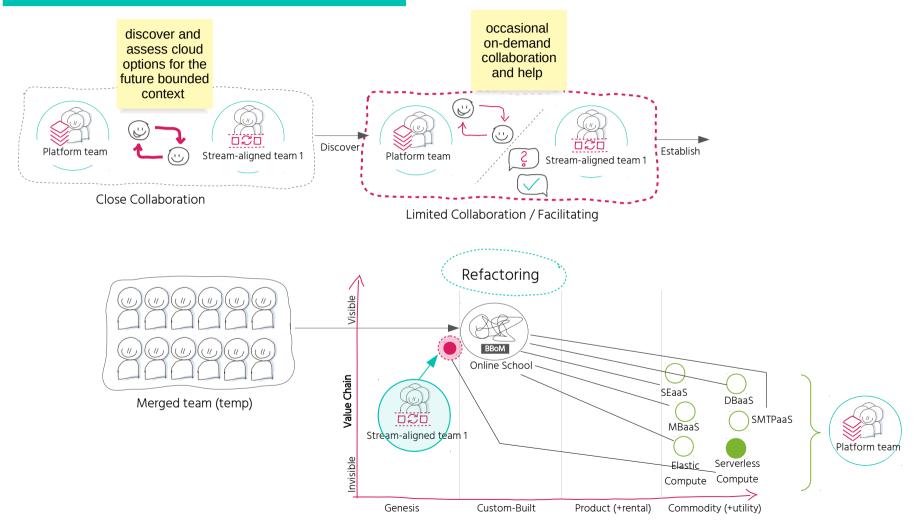
Product (+rental)

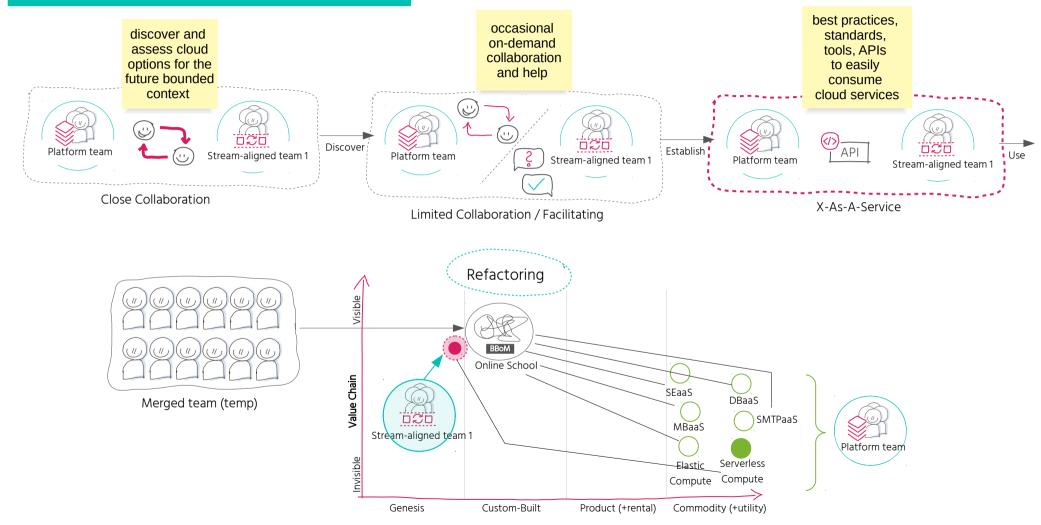


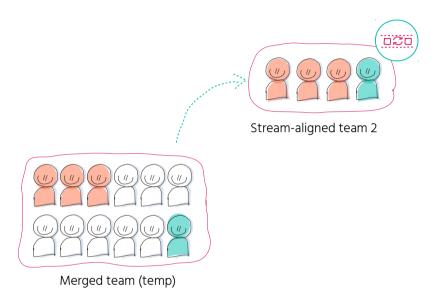
DBaaS

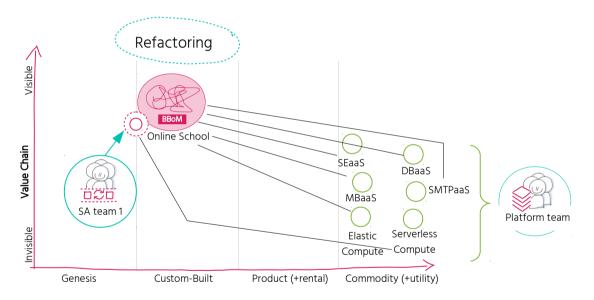
<u>Elastic</u> Serverless Compute Compute

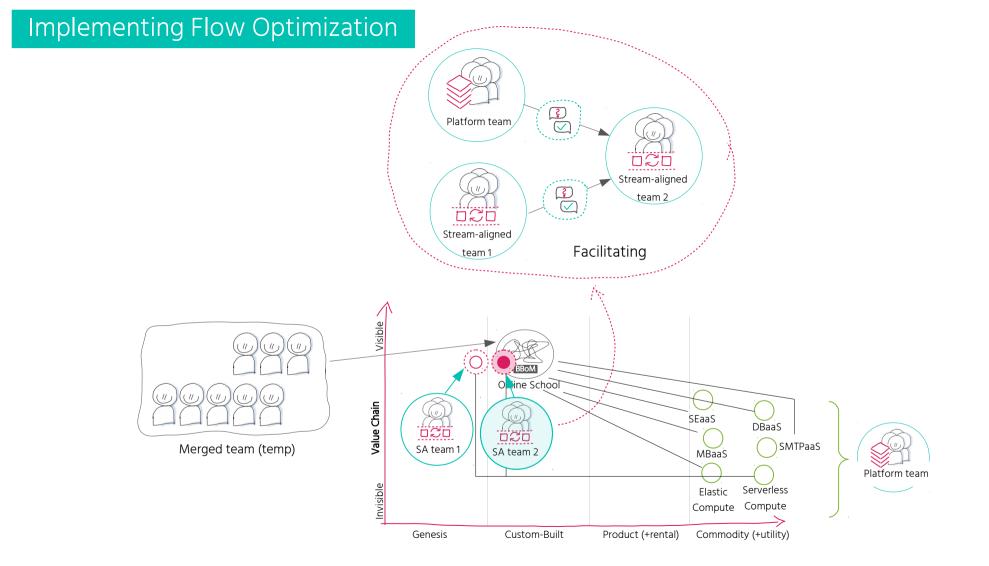
Commodity (+utility)

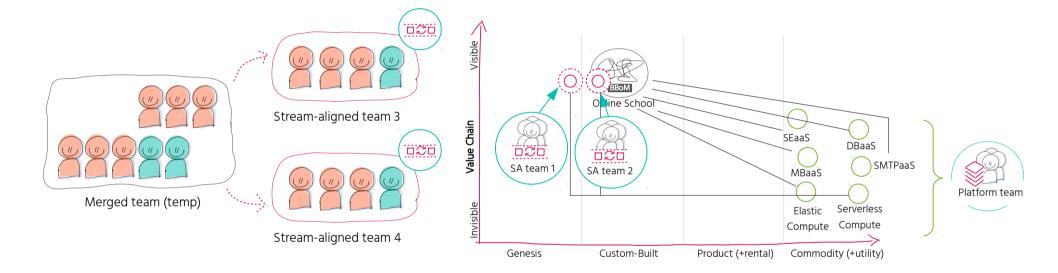


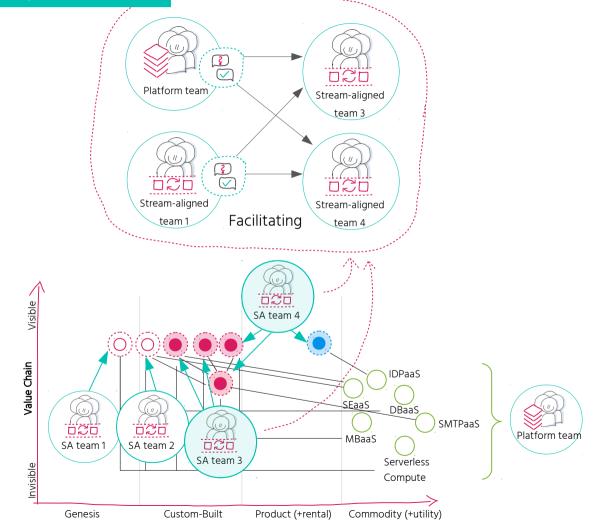


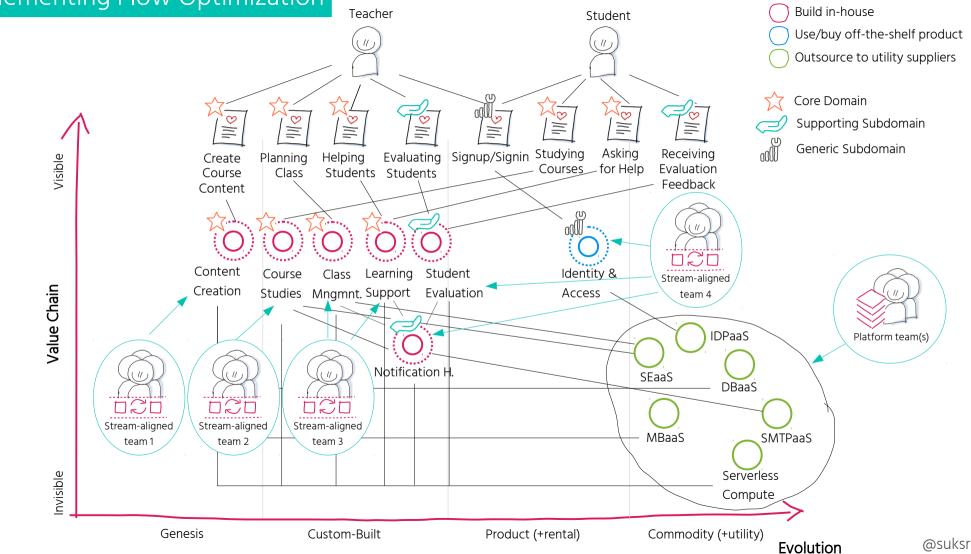






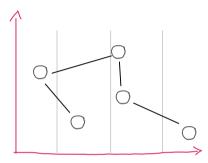




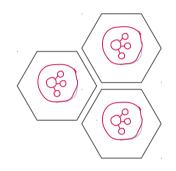




You could start with ...



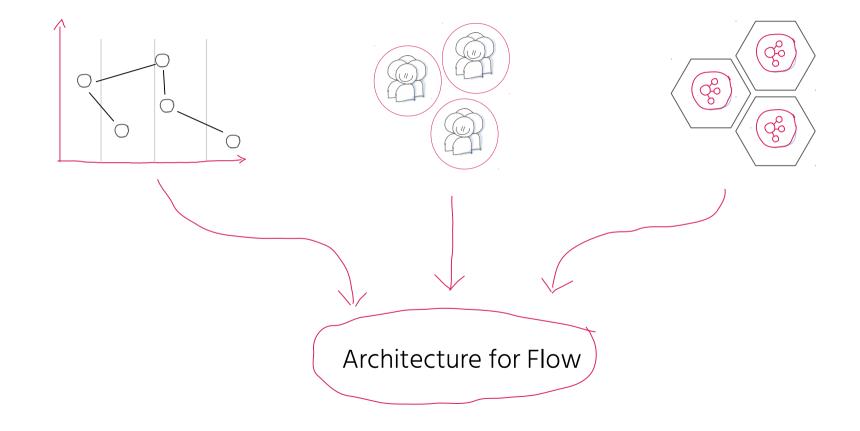




... a Wardley Map to understand your competitive landscape, and use the map as a foundation for future discussions ... or your current teams and analyse their current cognitive load and bottlenecks ... or identifying suitables seams for modularisation with subdomains & bounded contexts

## Start small

And their paths eventually cross ...



#### Key Takeaways



Wardley Mapping

Domain-Driven Design

Team Topologies

- 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



Wardley Mapping

Domain-Driven Design

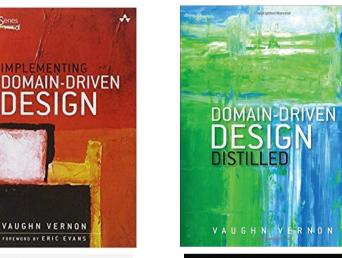
Team Topologies

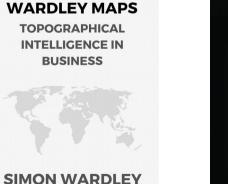
- Understanding the environment an organization is operating & competing in
- Gaining domain knowledge & discovering the core
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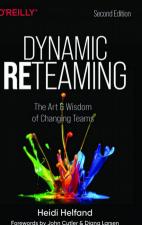
- · Identifying potential efficiency gaps
- Eliminating bottlenecks & increasing software delivery performance
- Being able to respond to changes quickly
- Optimizing for a a fast flow of change with the focus on improving the performance of a system as a whole

#### Some References







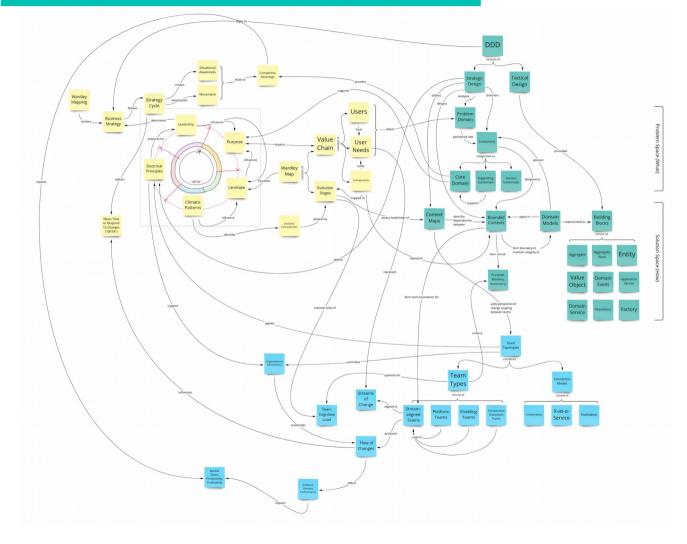


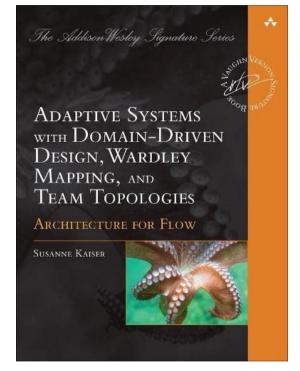
DISTILLE

## TEAM **TOPOLOGIES** ORGANIZING BUSINESS AND MATTHEW SKELTON and MANUEL PAIS

https://medium.com/wardleymaps https://learnwardleymapping.com/ https://github.com/wardley-mapscommunity/awesome-wardley-maps https://githup.com/ddd-crew https://www.dddheuristics.com

## If you are interested in more details ...





# THANK YOU

Susanne Kaiser Independent Tech Consultant @suksr