

Adaptive Socio-Technical Systems w/ Architecture for Flow

Susanne Kaiser Independent Tech Consultant @suksr



Warning: May cause information overload

This presentation contains a substantial amount of content. Please be advised that the sheer volume of information may be overwhelming.

At the end of the presentation, a downloadable link to the complete slide deck will be provided for your reference. Additionally, for those interested in an in-depth exploration of the topics covered, I am in the process of writing a book that delves deeper into the subject matter.

Adaptive Systems with Domain-Driven Design, Wardley Mapping, and Team Topologies Architecture for Flow

SUSANNE KAISER

What do these companies have in common?



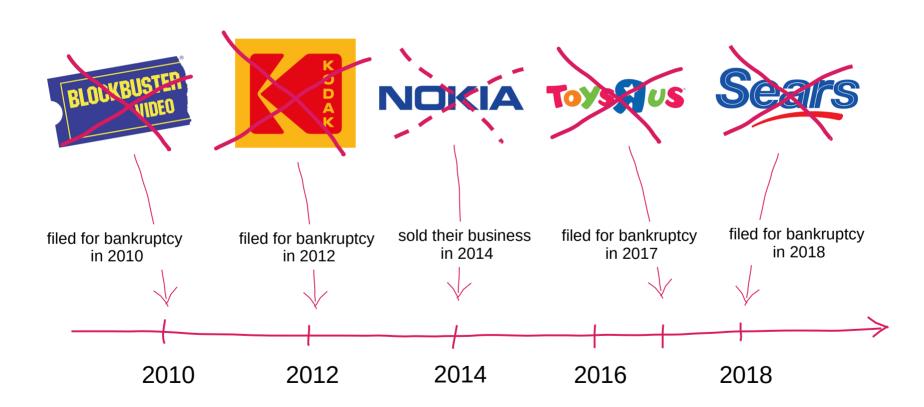


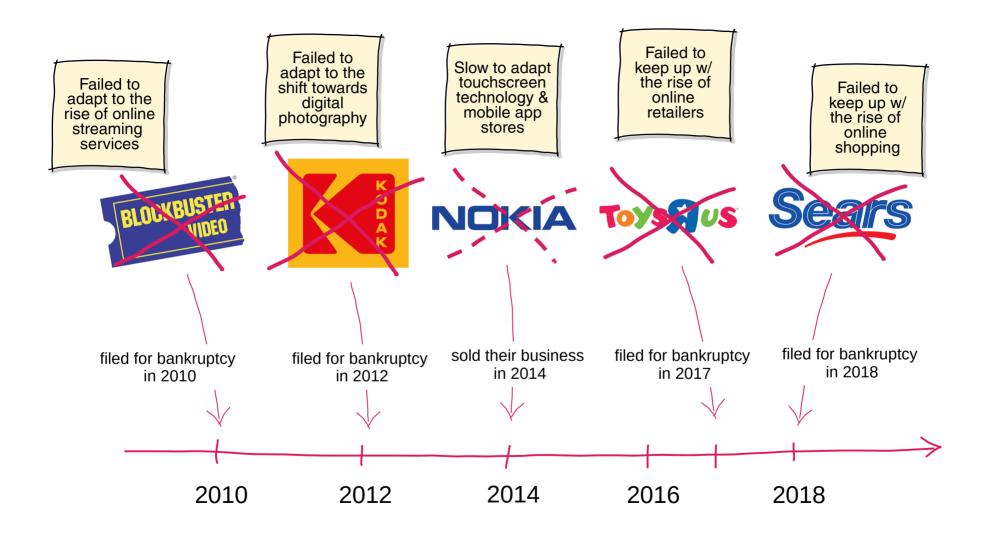


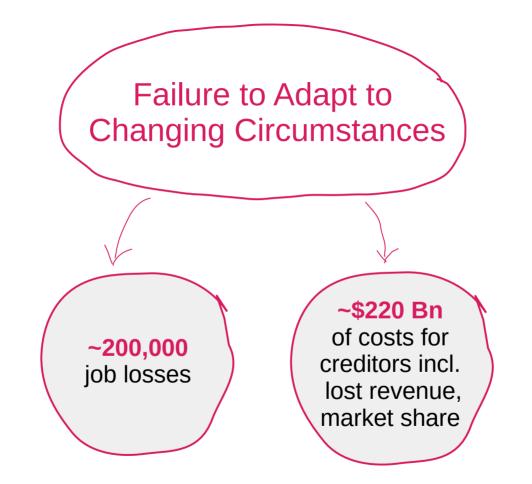












How to design systems that can evolve and thrive in the face of constant change?

Organizations have to continously adapt and evolve to remain competitive

How to design systems that can evolve and thrive in the face of constant change?

Understanding the business landscape and external forces acting on it Knowing the business domain & closely align system to business & user needs

Aligning teams and evolving their interactions to the system & strategy How to design systems that can evolve and thrive in the face of constant change?

Understanding the business landscape and external forces acting on it

Wardley Mapping

Knowing
the business
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needs

Domain-Driven Design

Aligning teams and evolving their interactions to the system & strategy

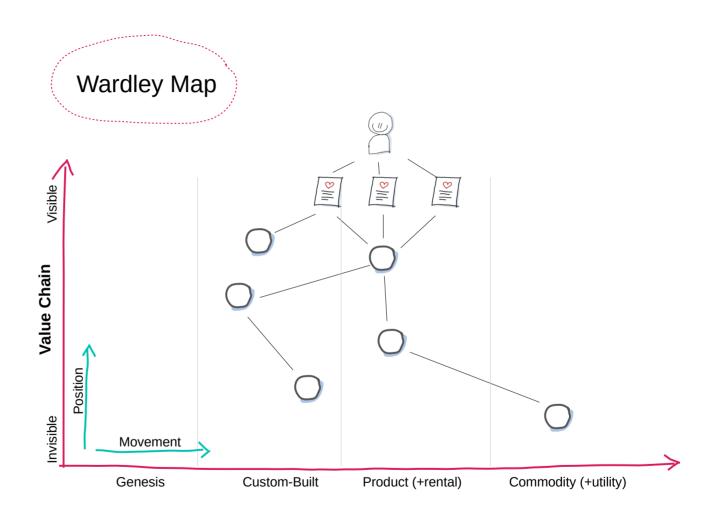
Team Topologies

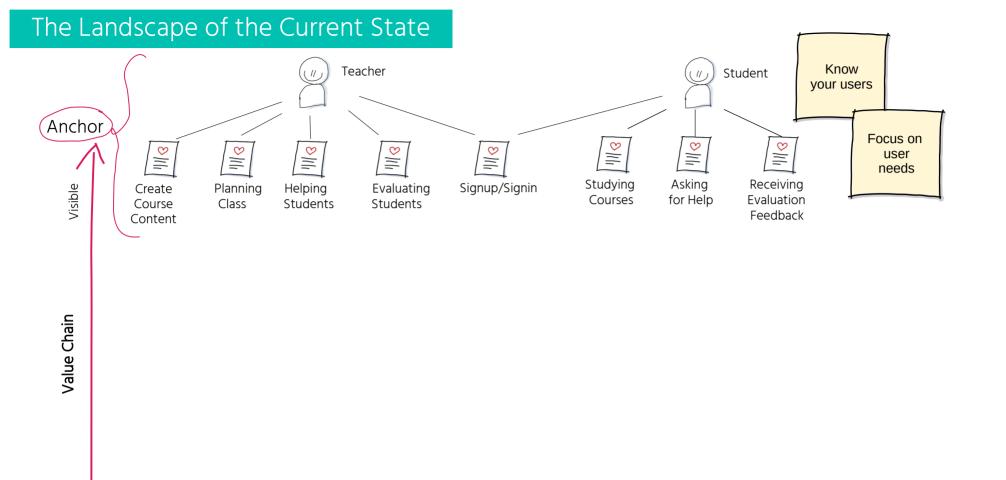
Evolving a Legacy System



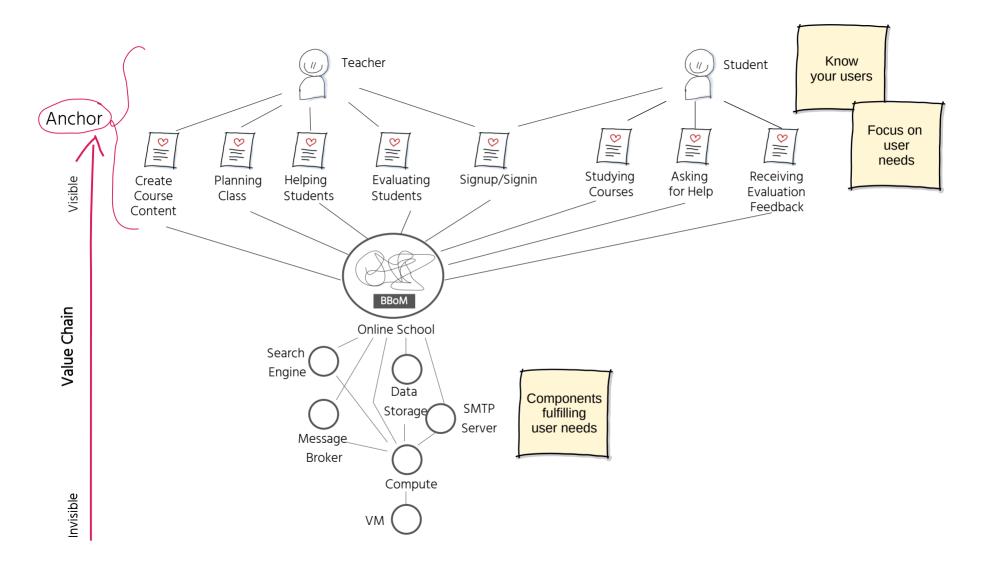
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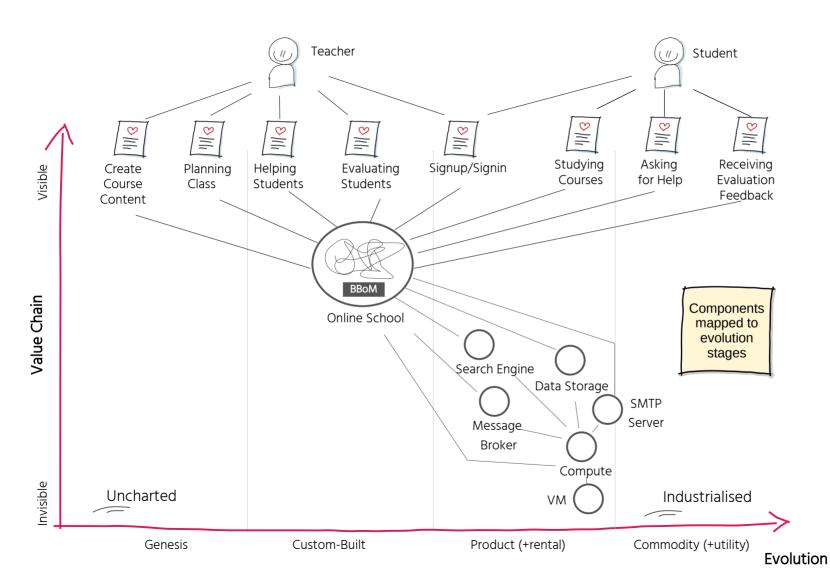
Understanding the business landscape

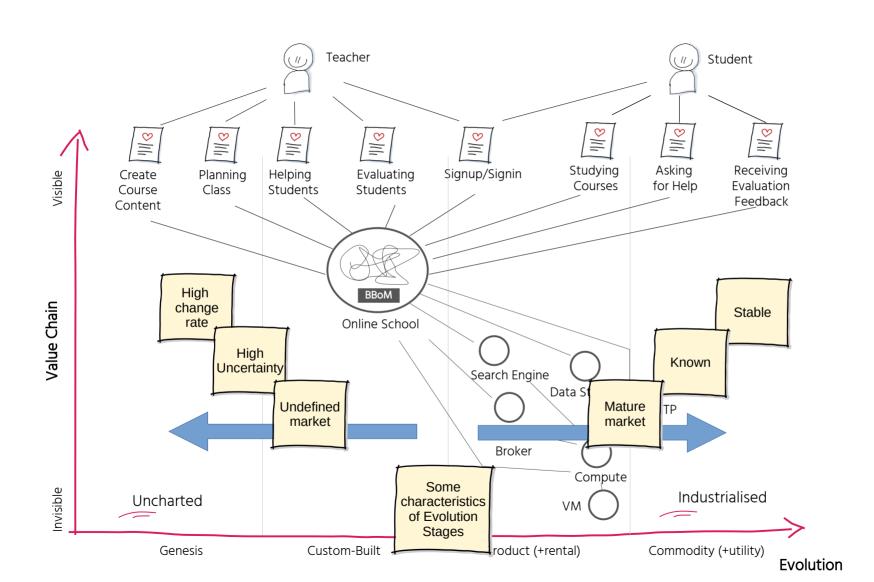




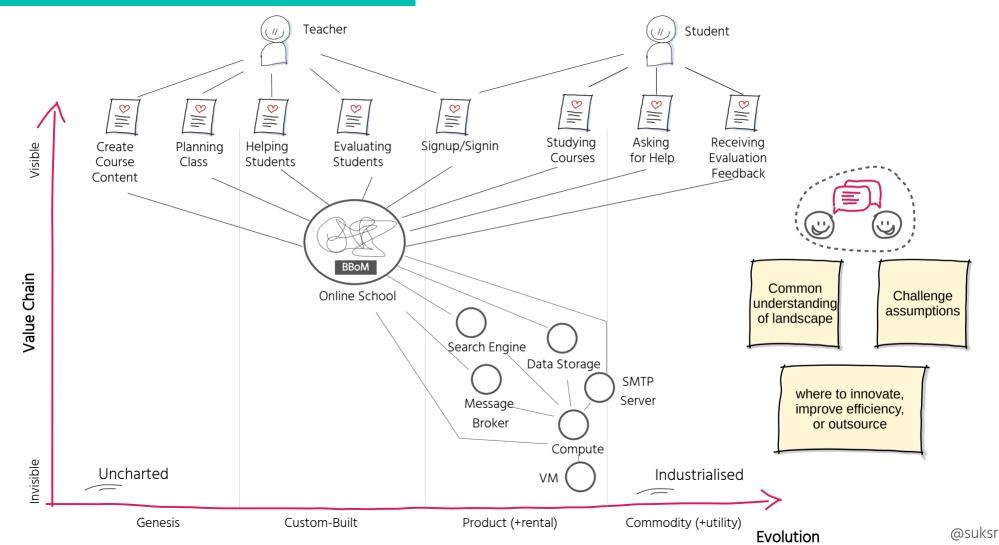
Invisible

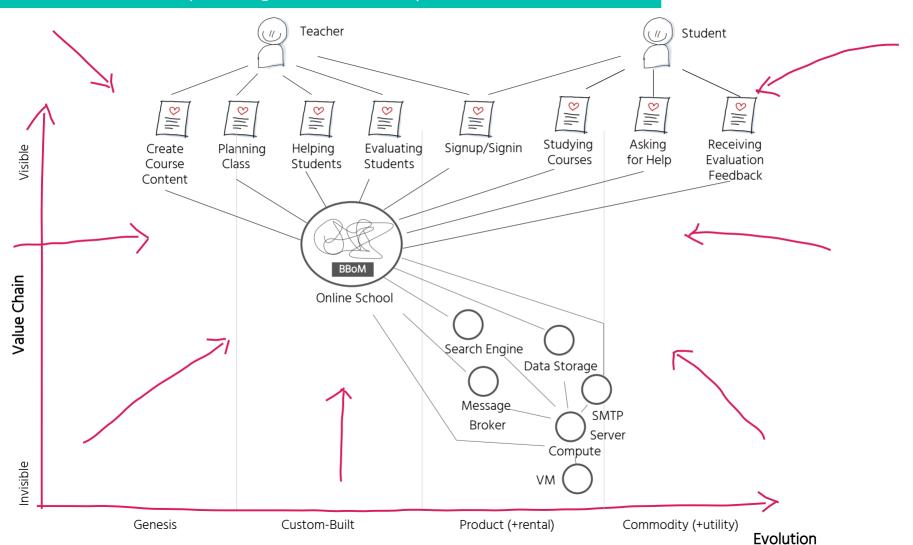


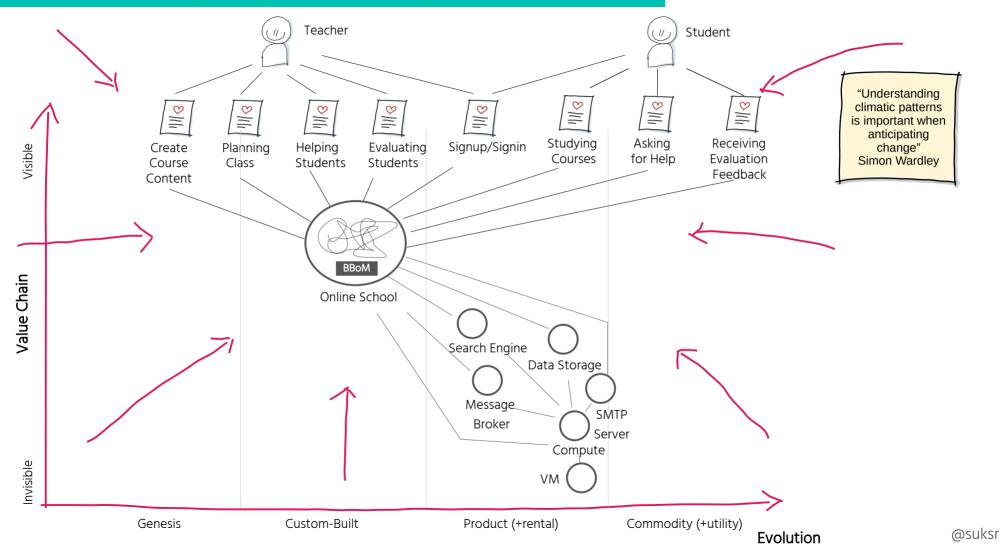


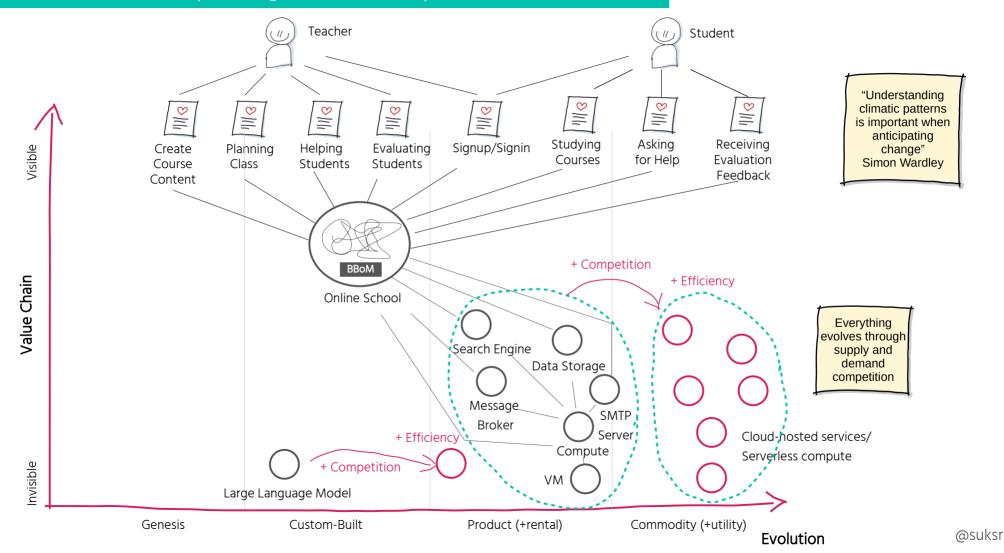


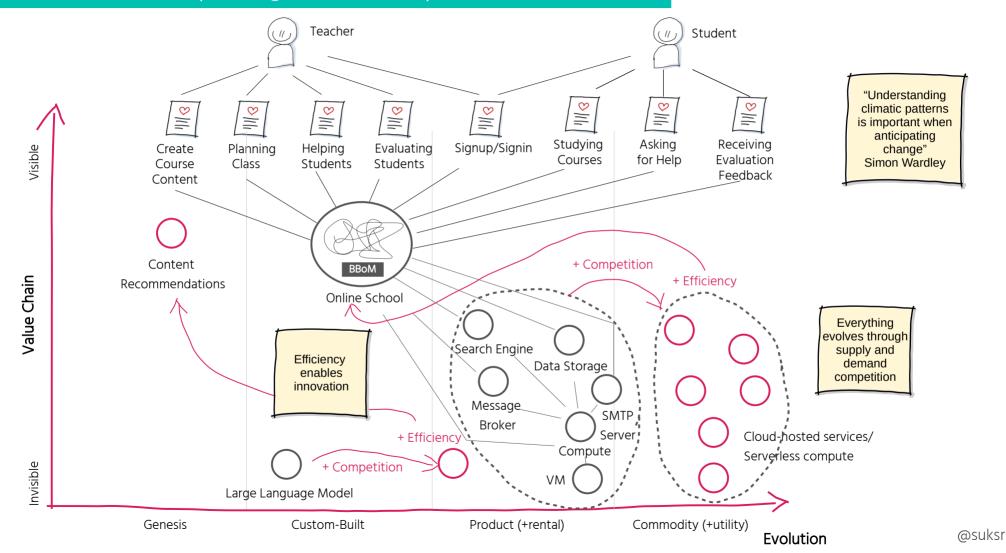
A Wardley Map of the Current State

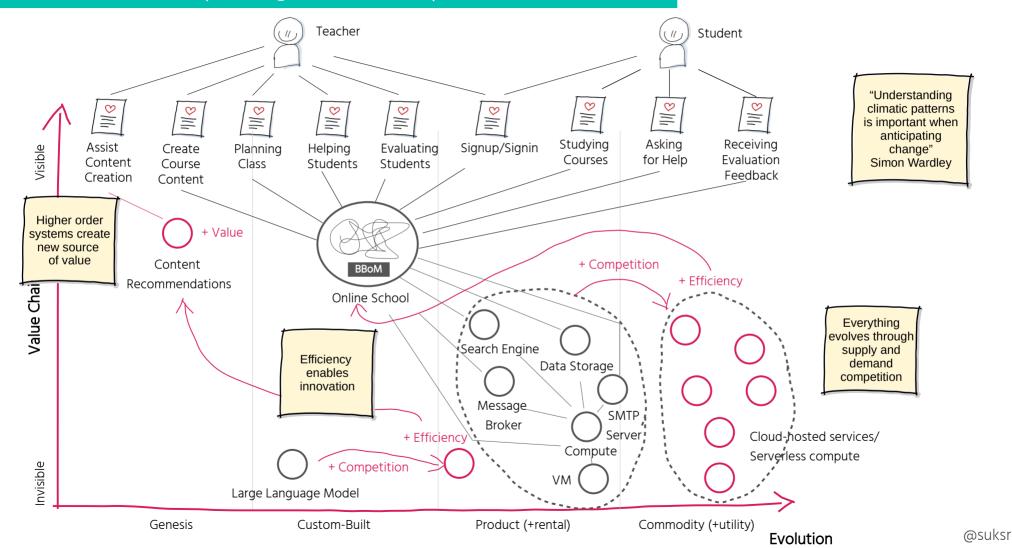




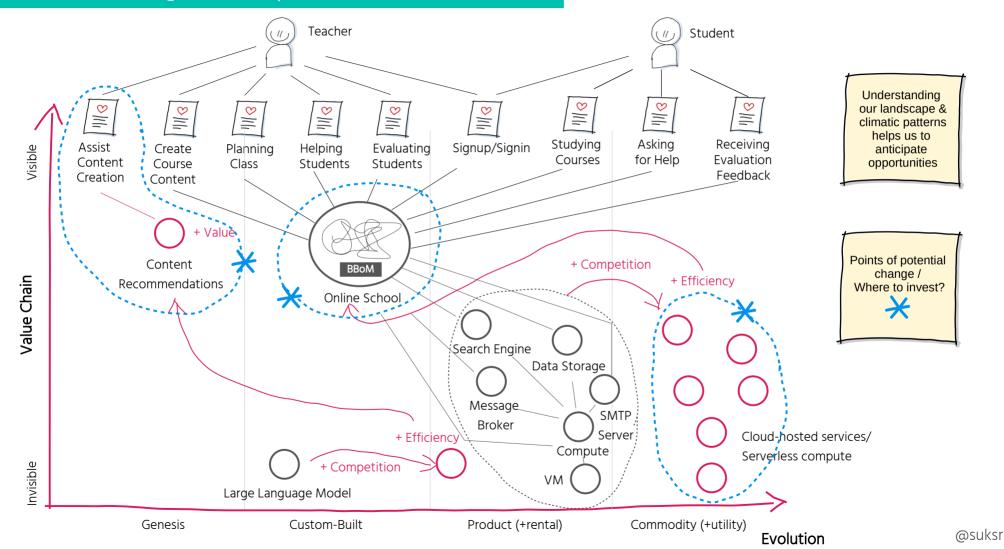


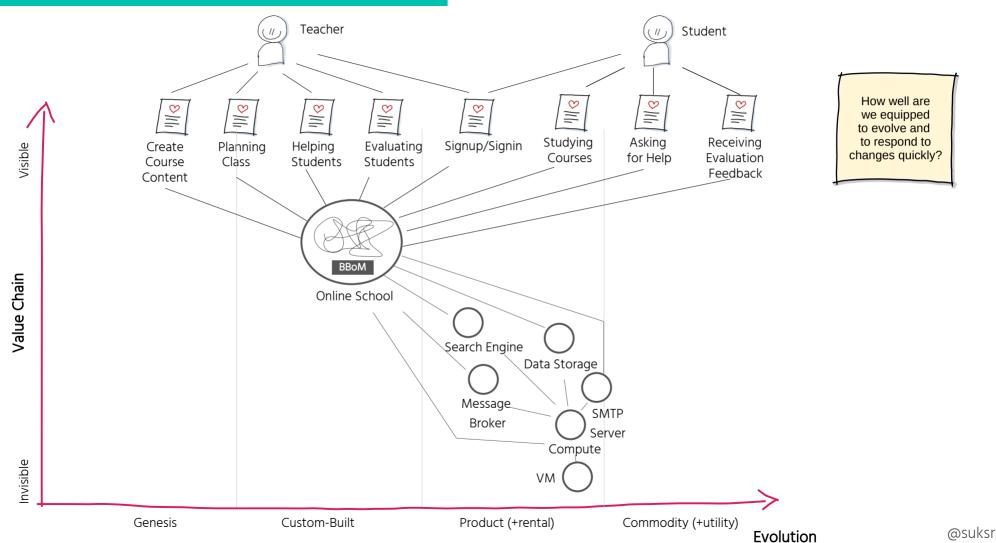


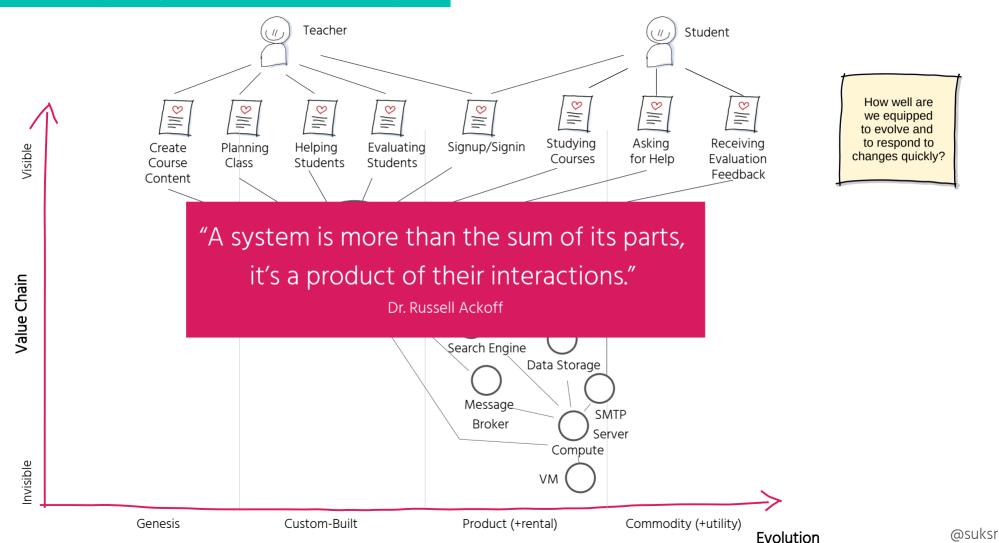


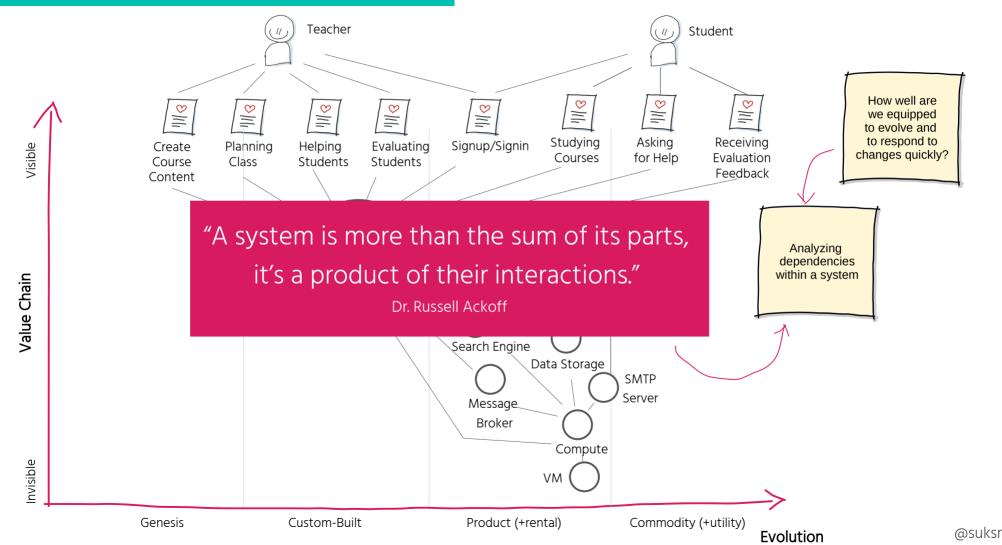


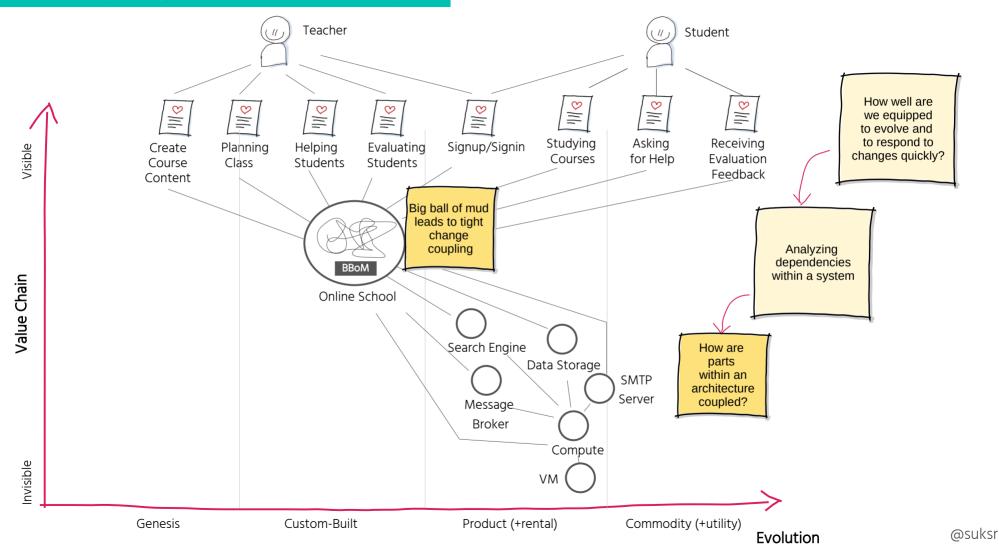
Understanding Landscape & Climatic Patterns

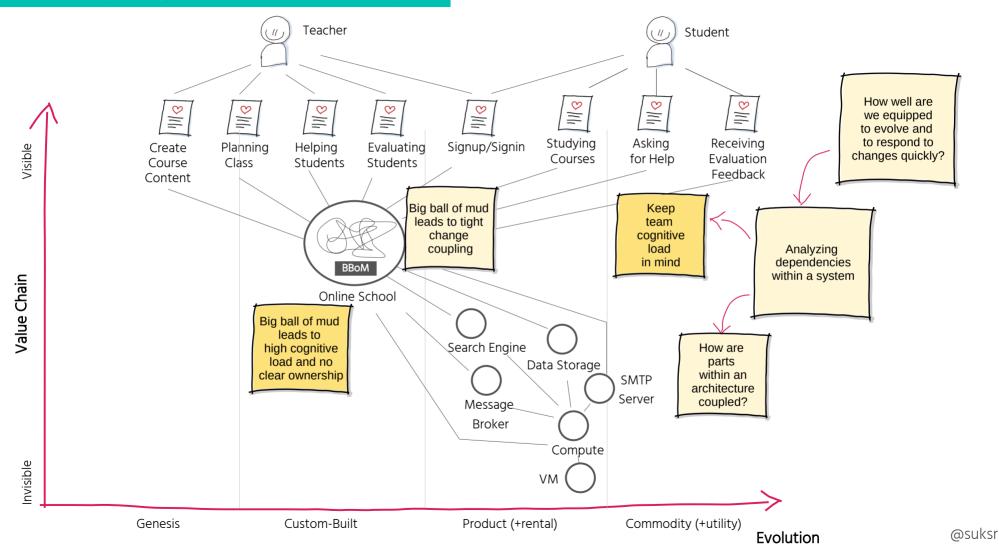


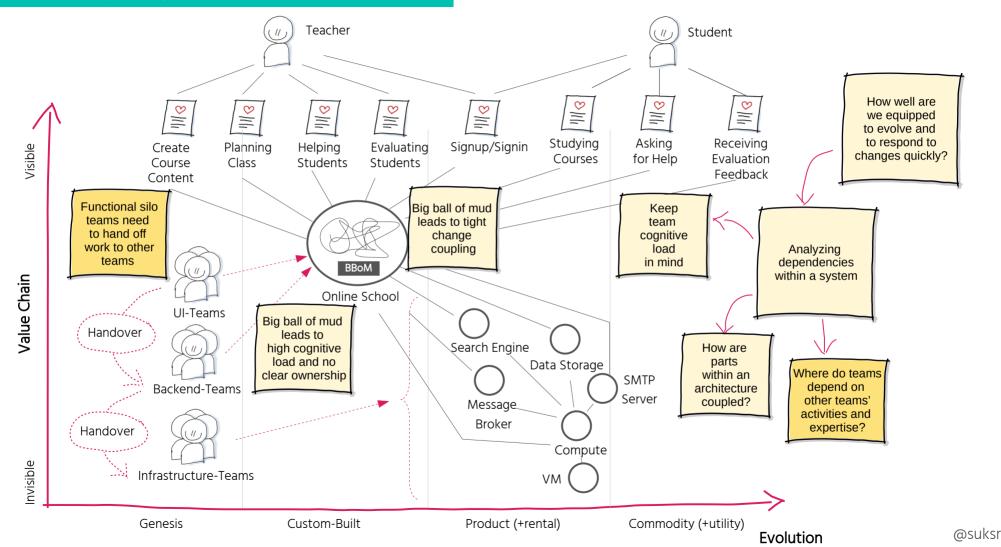


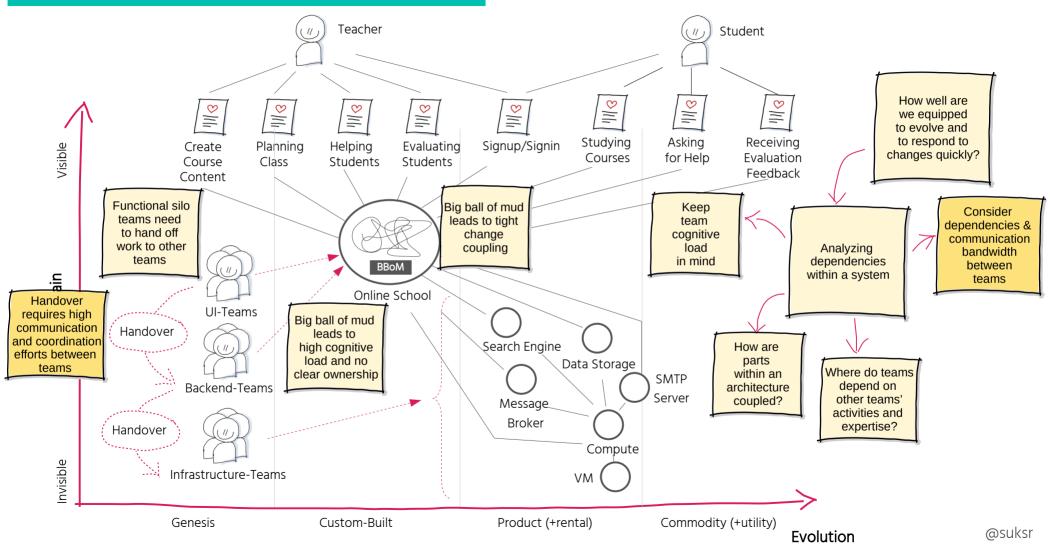


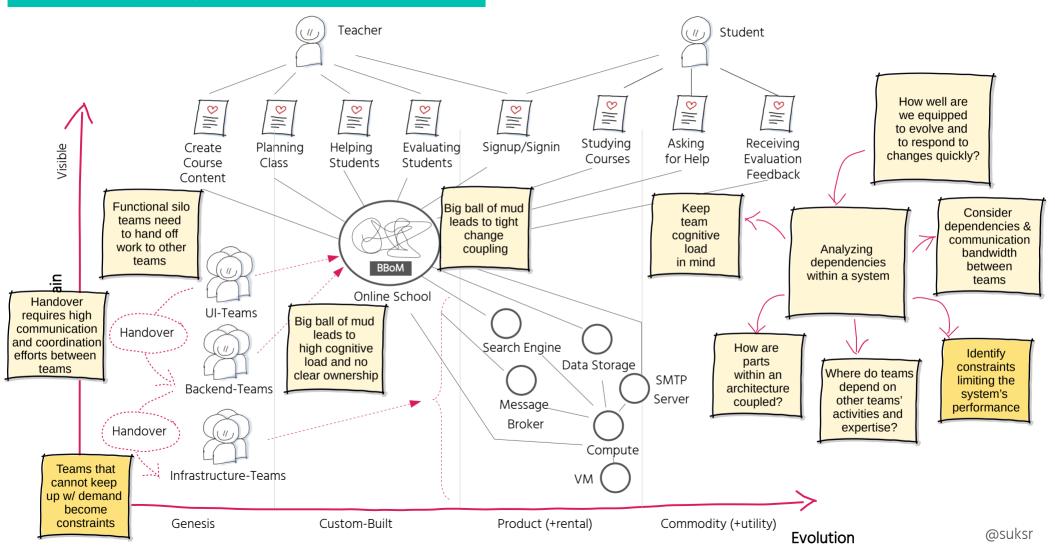


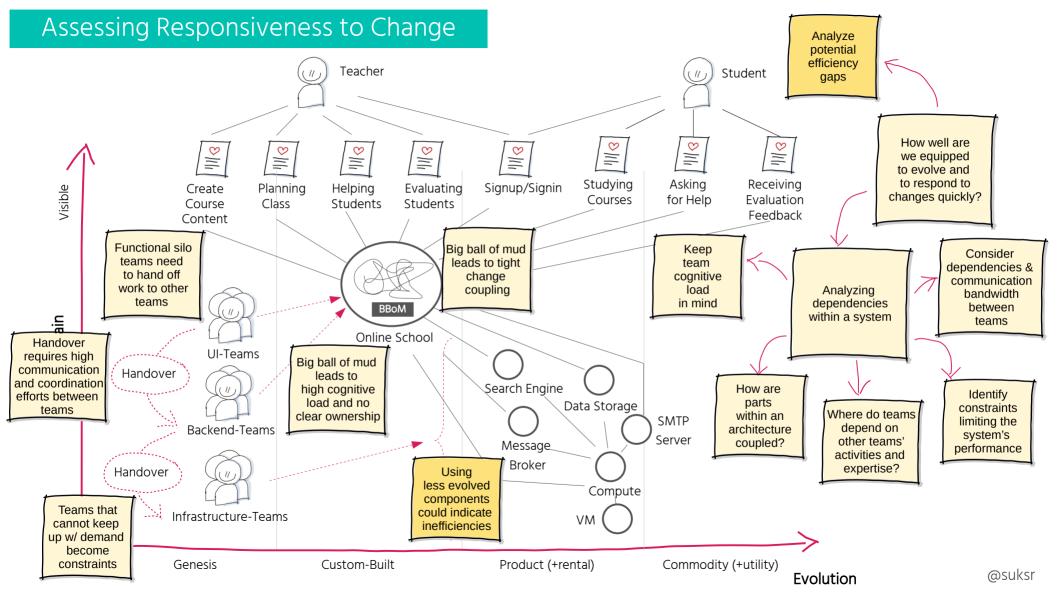


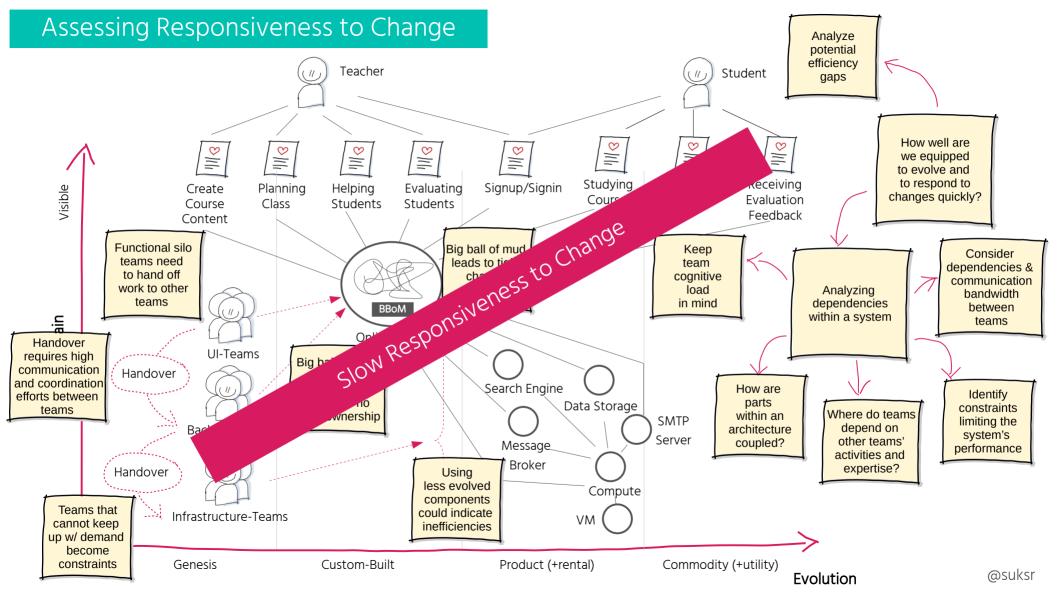




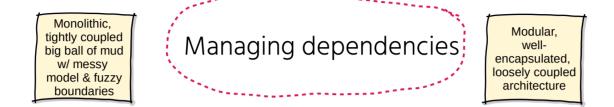




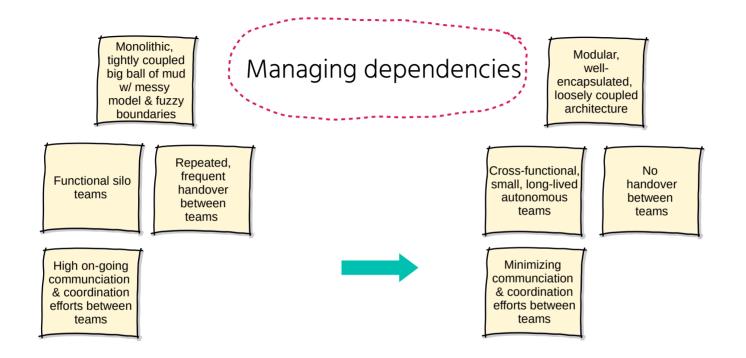




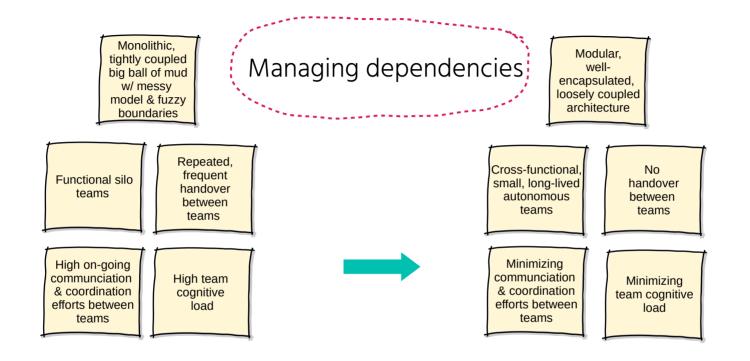
Optmizing Flow of Change



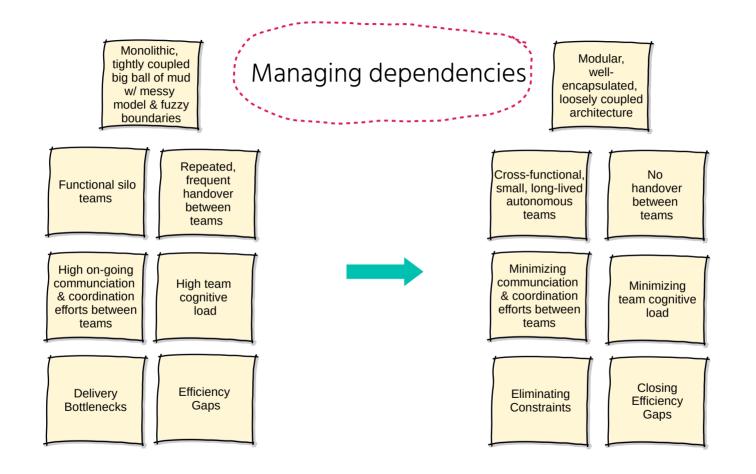
Optmizing Flow of Change



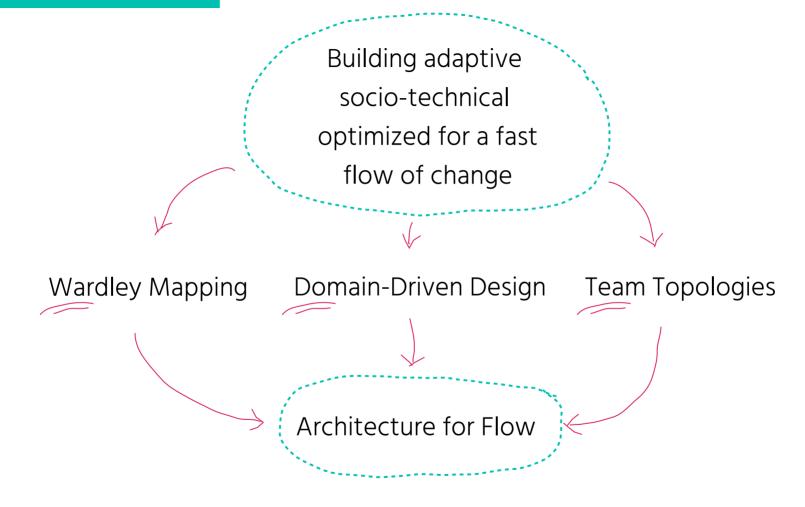
Optmizing Flow of Change



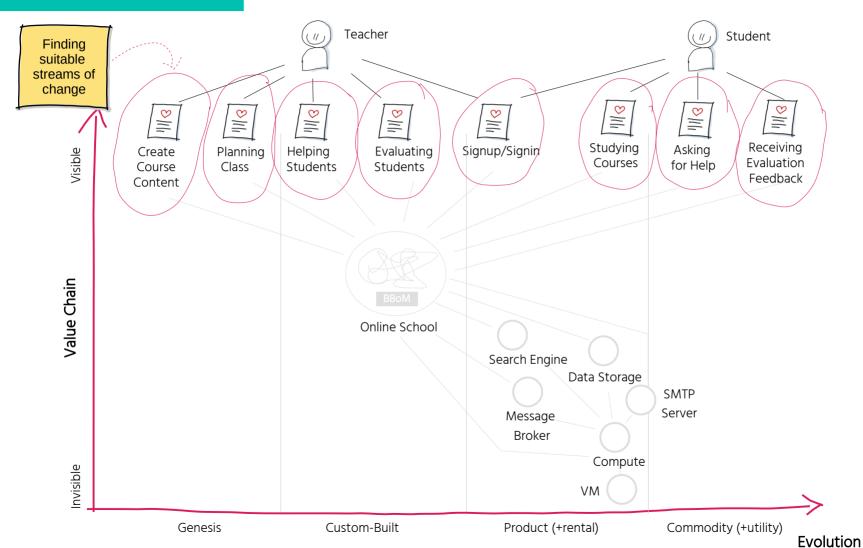
Optmizing Flow of Change



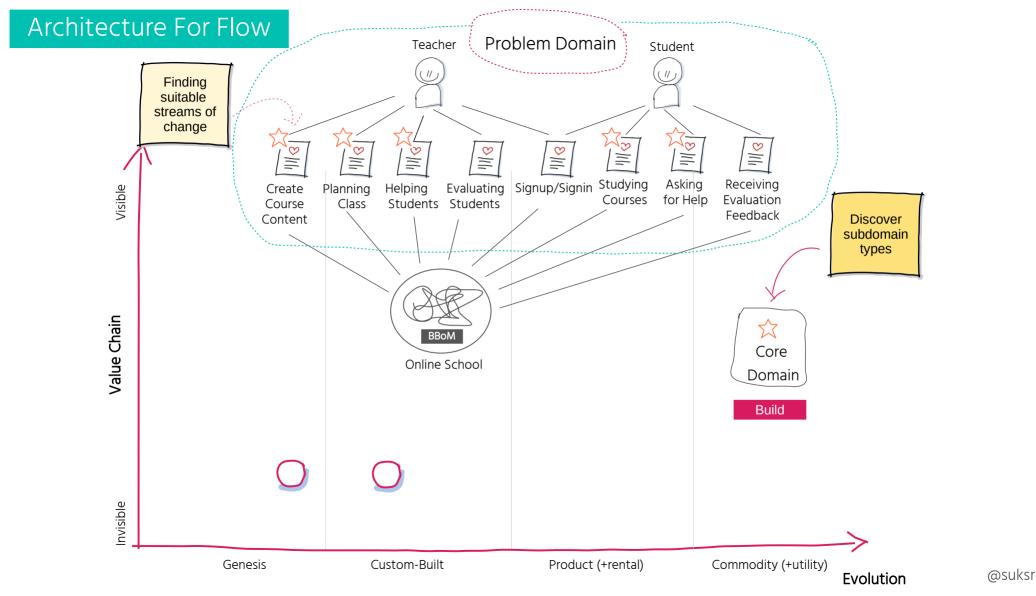
Architecture for Flow

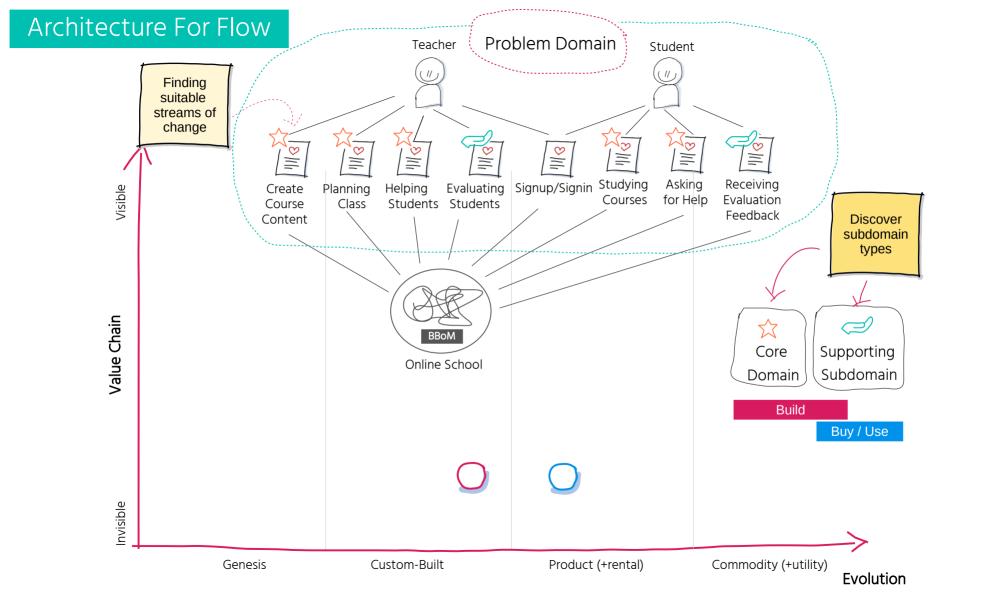


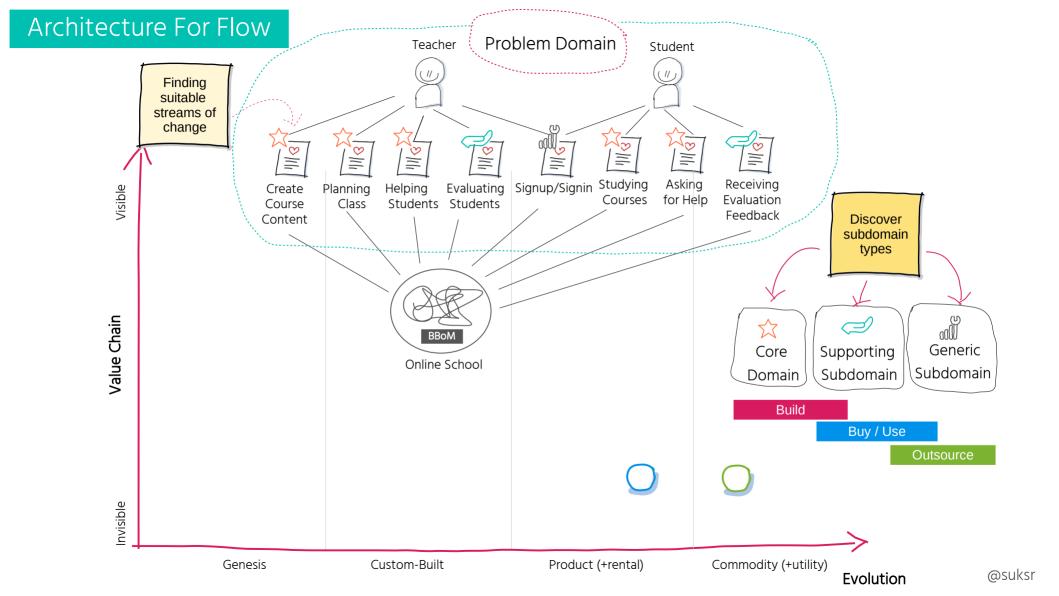
Architecture For Flow

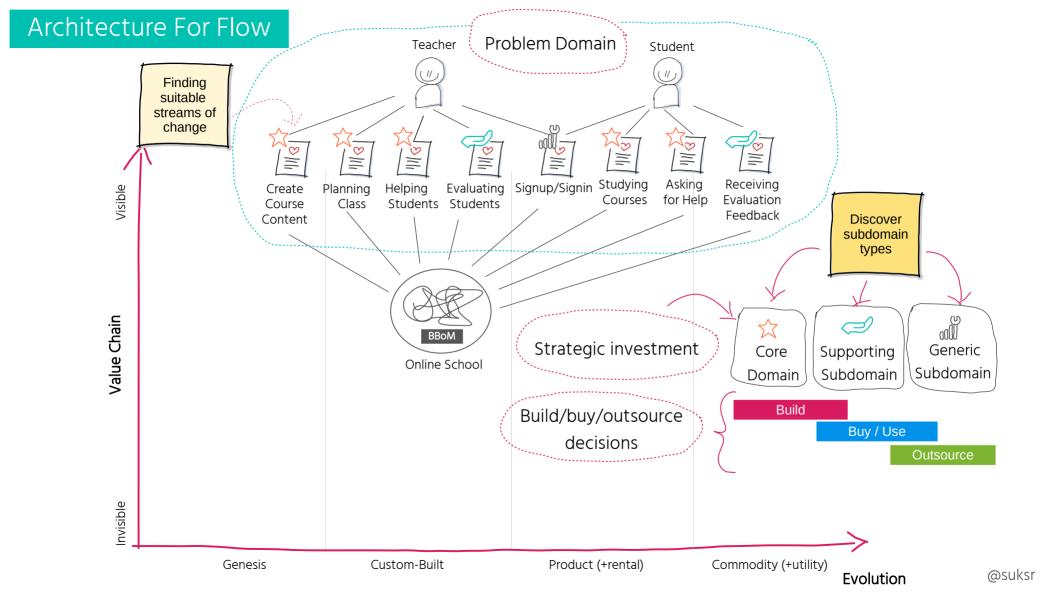


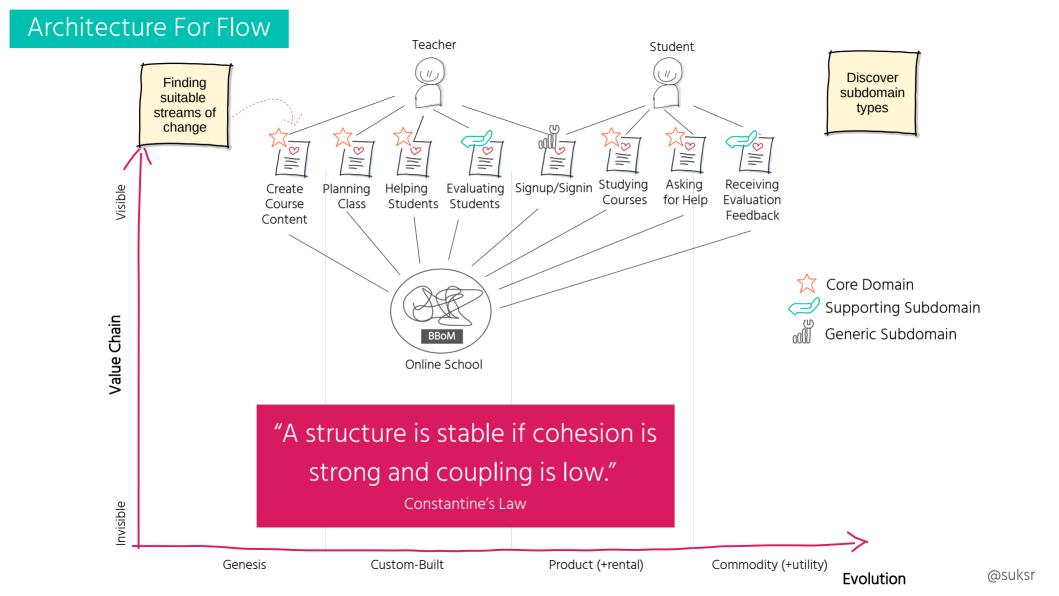
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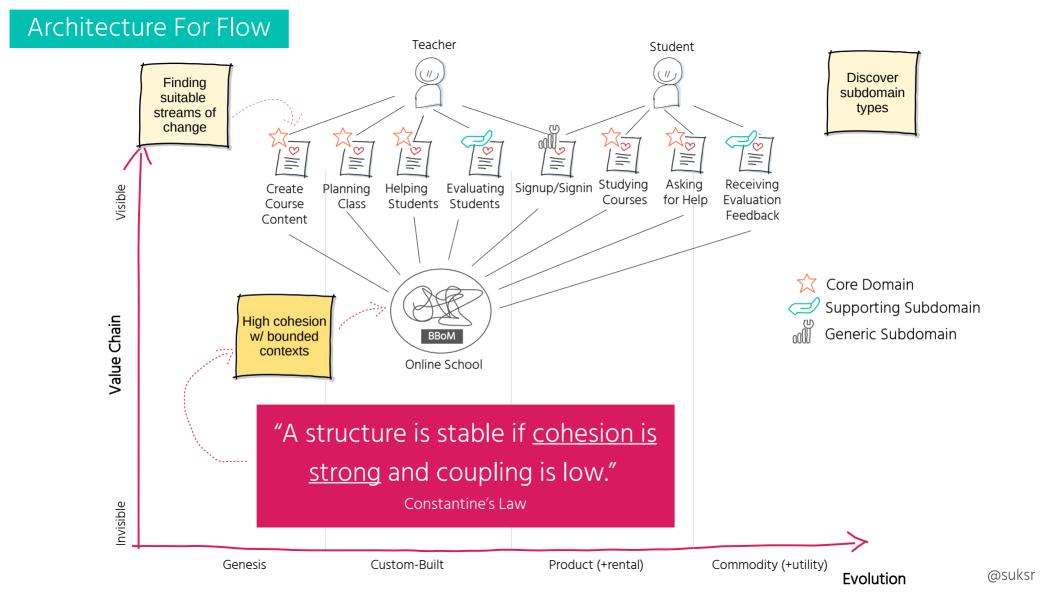


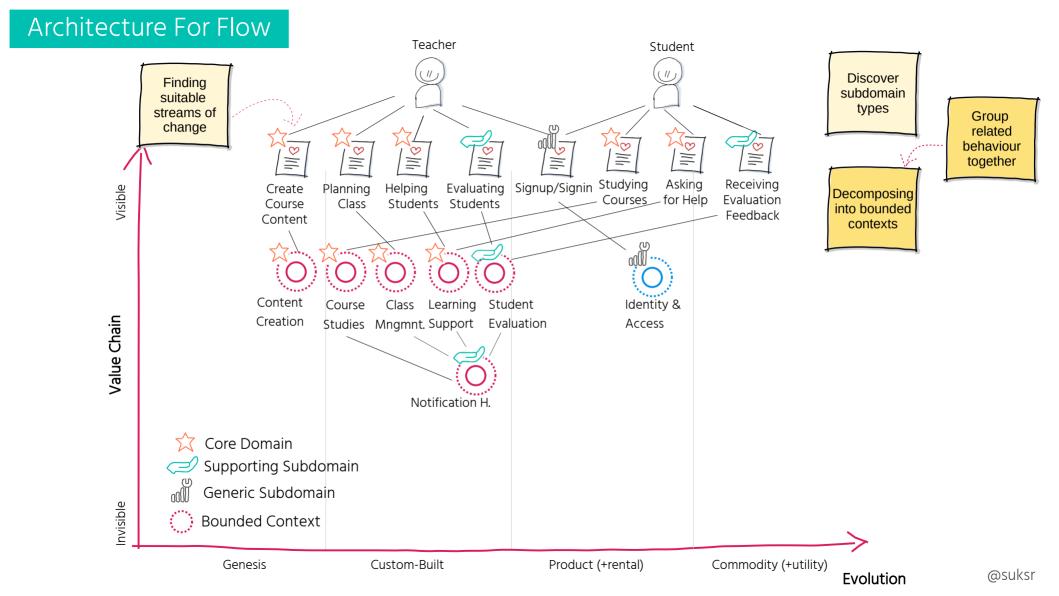


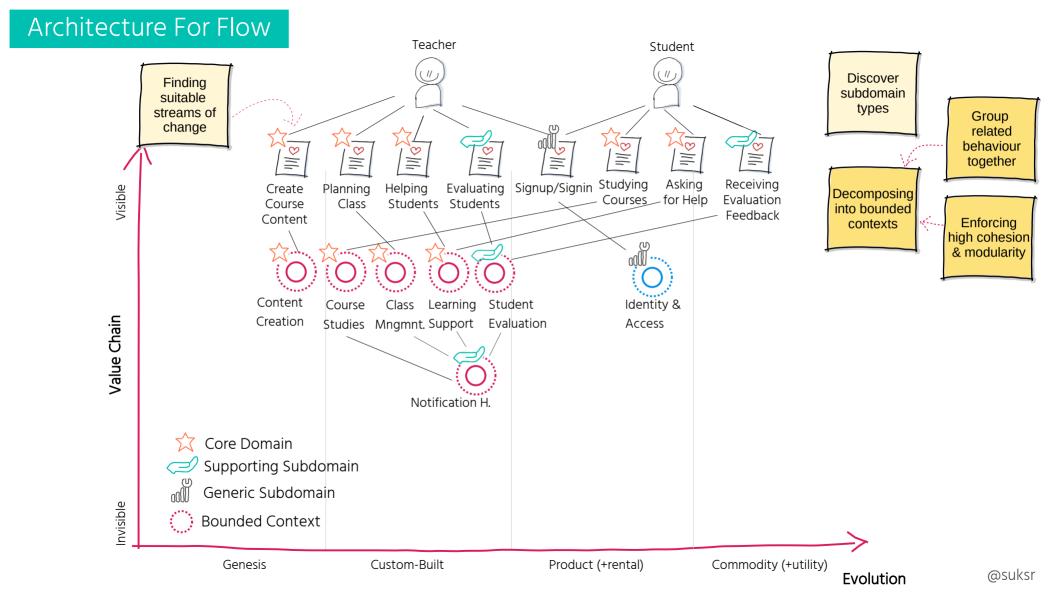


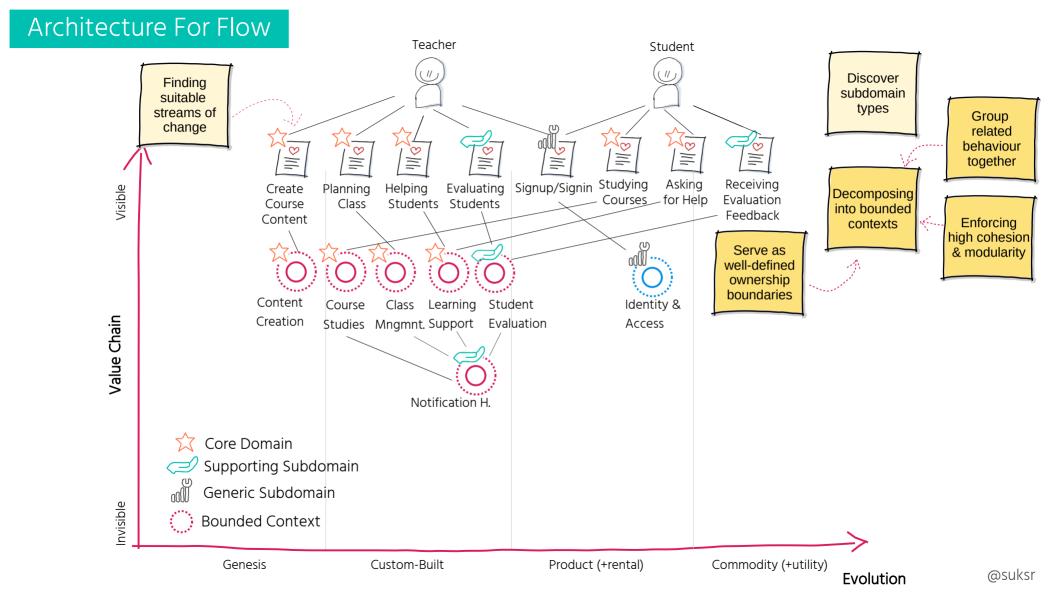


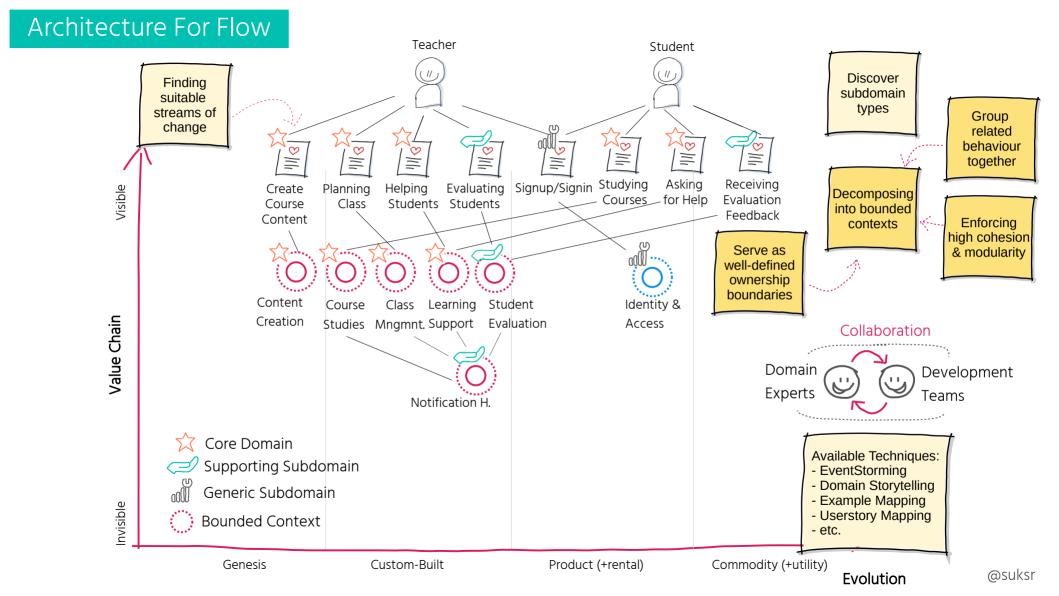


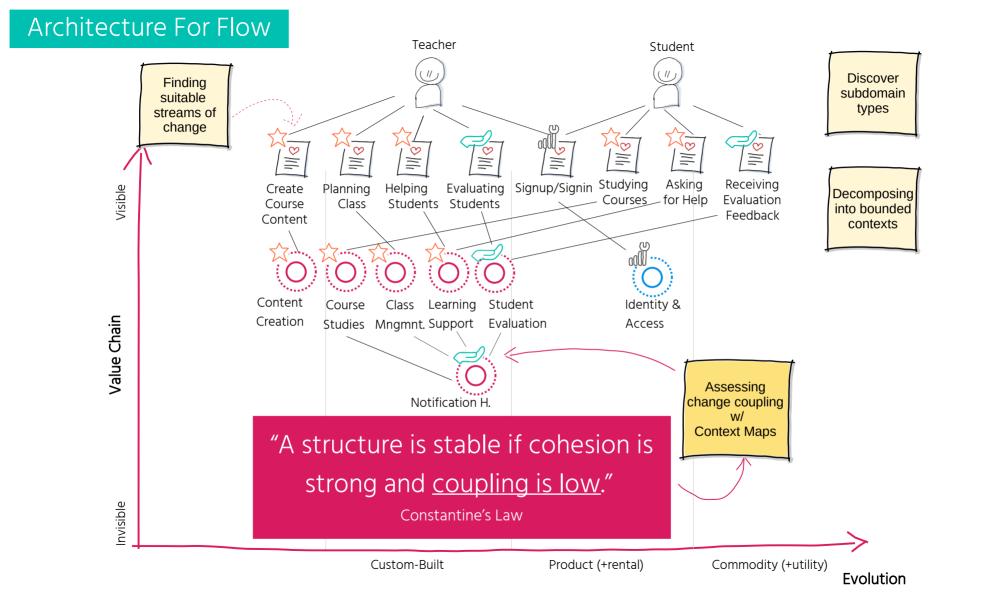


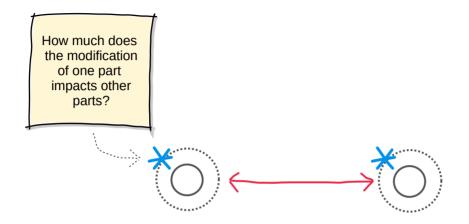


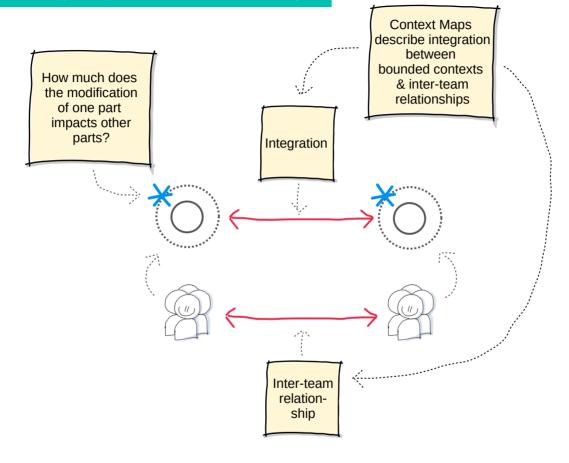


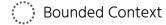


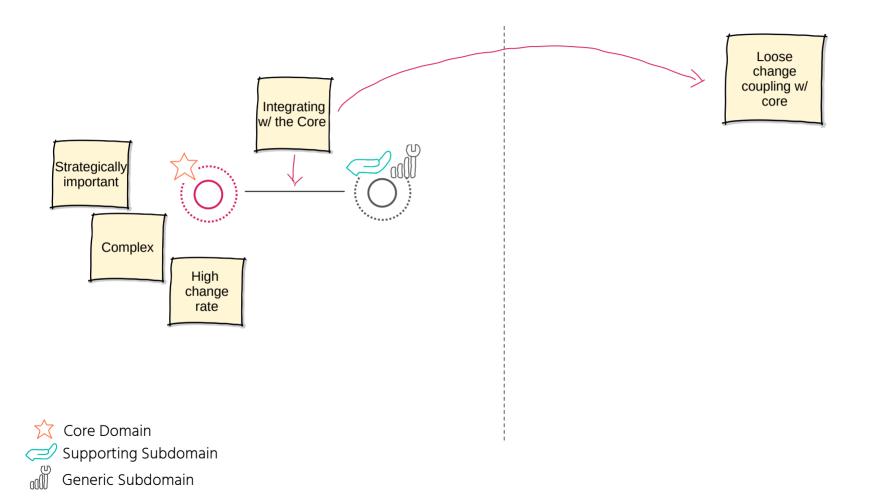


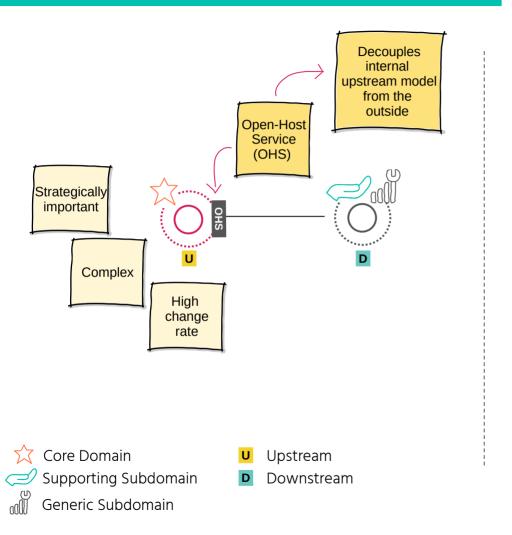


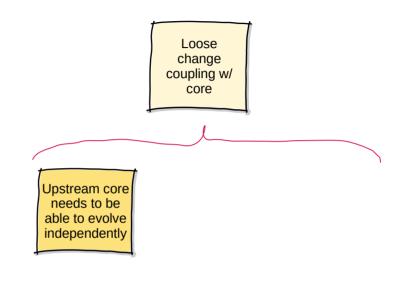


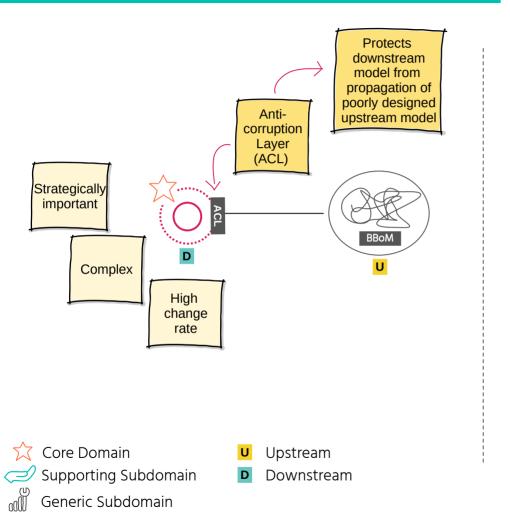


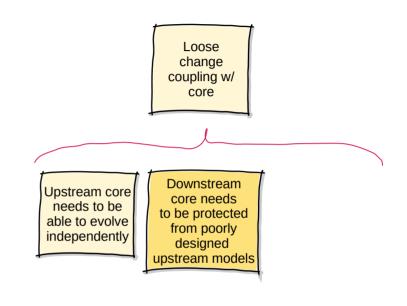


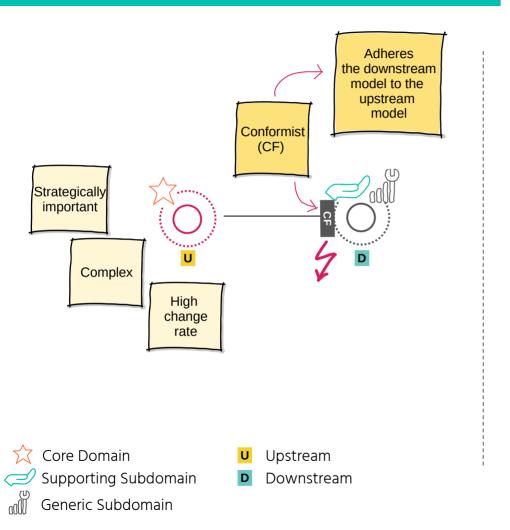


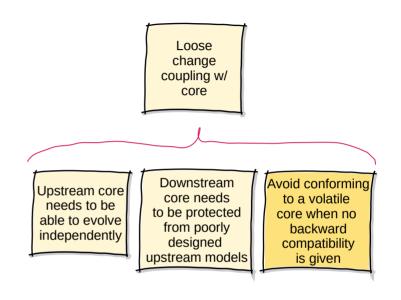


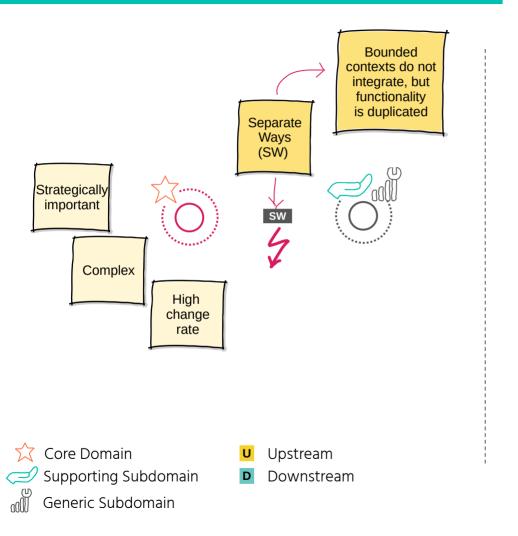


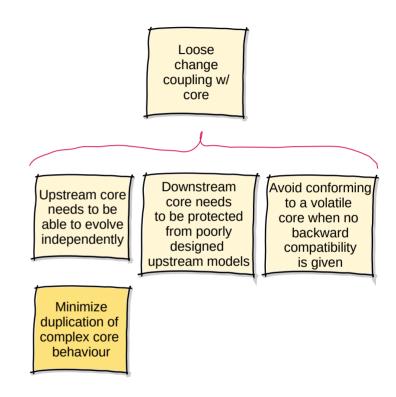


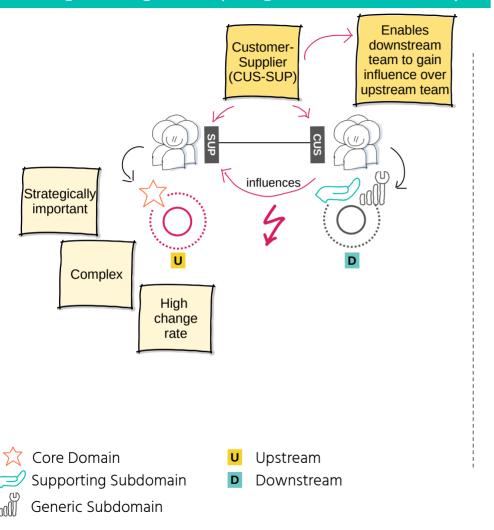


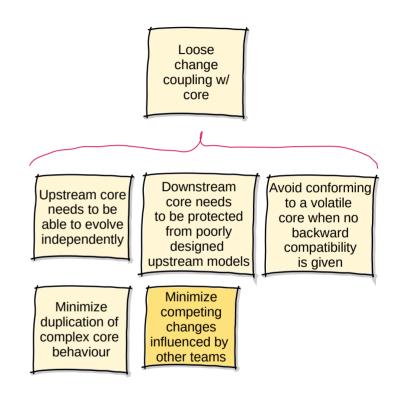


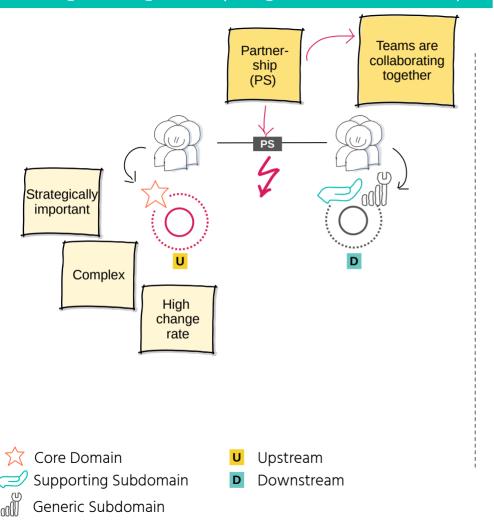


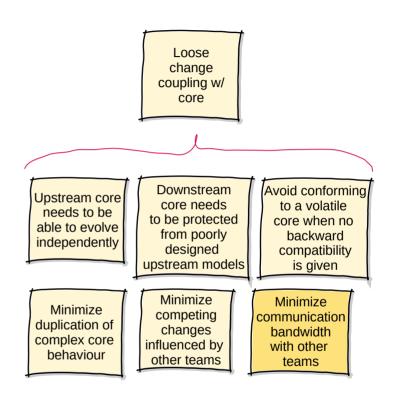


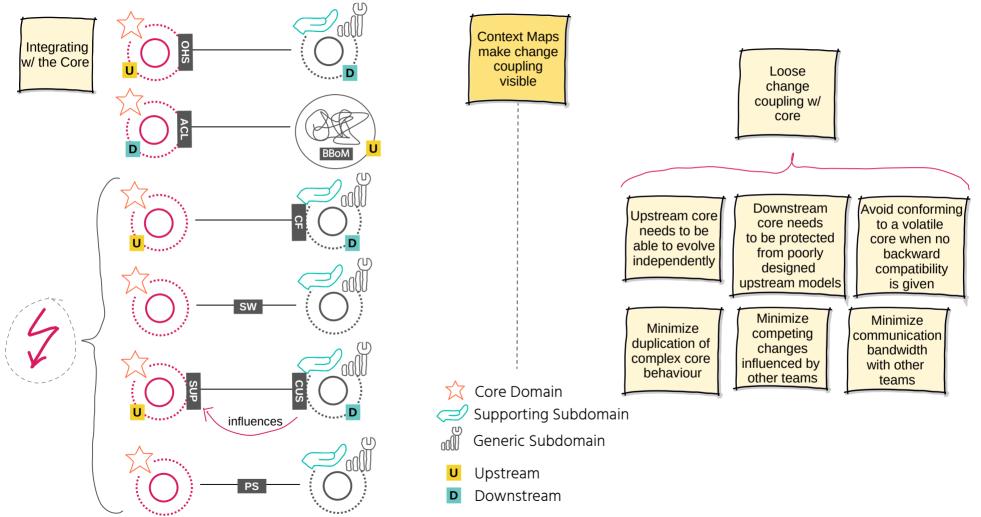


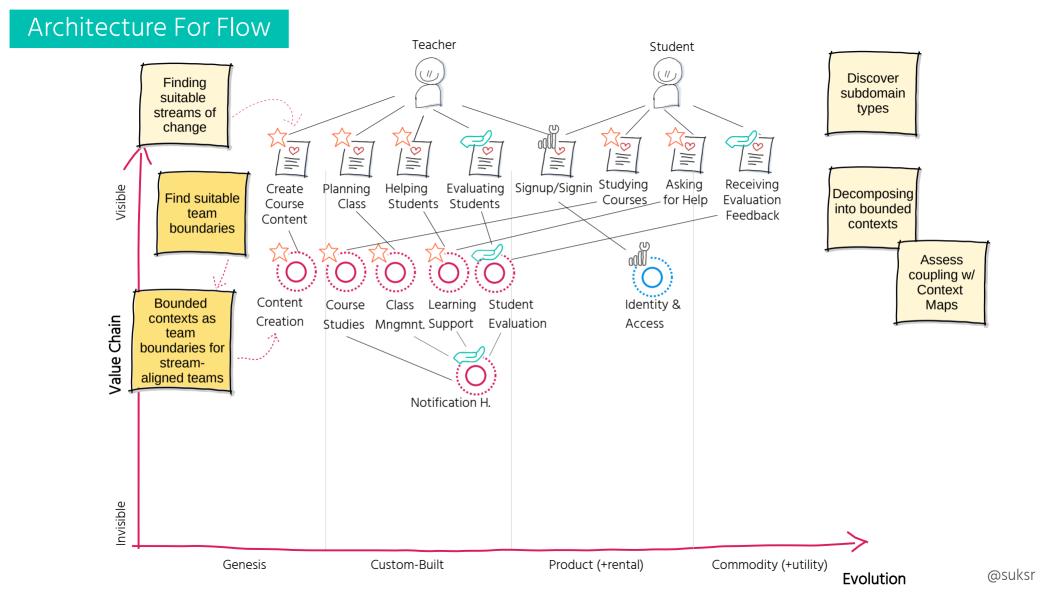


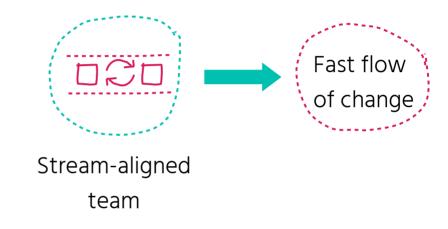


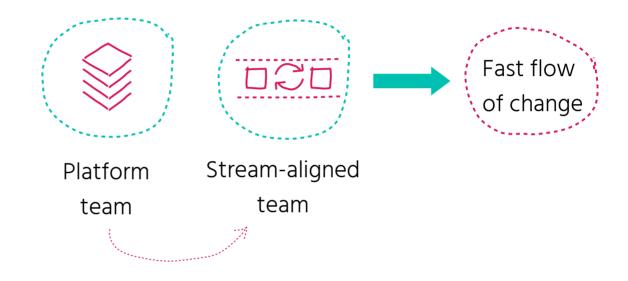


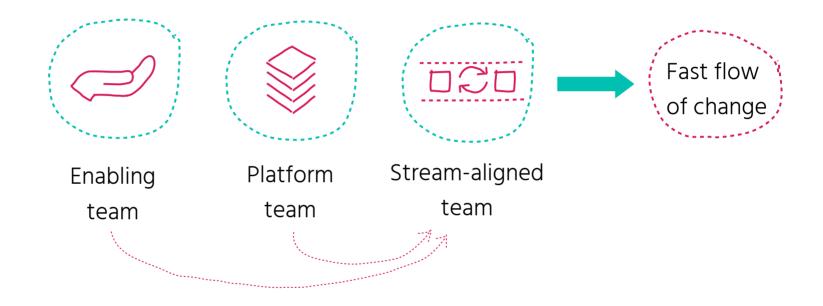


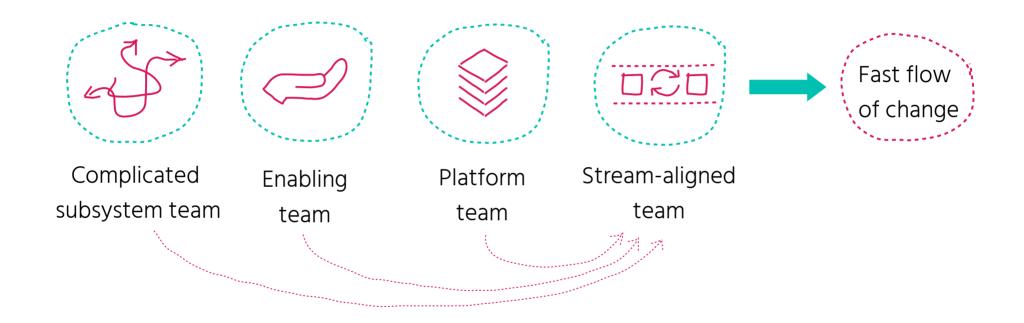


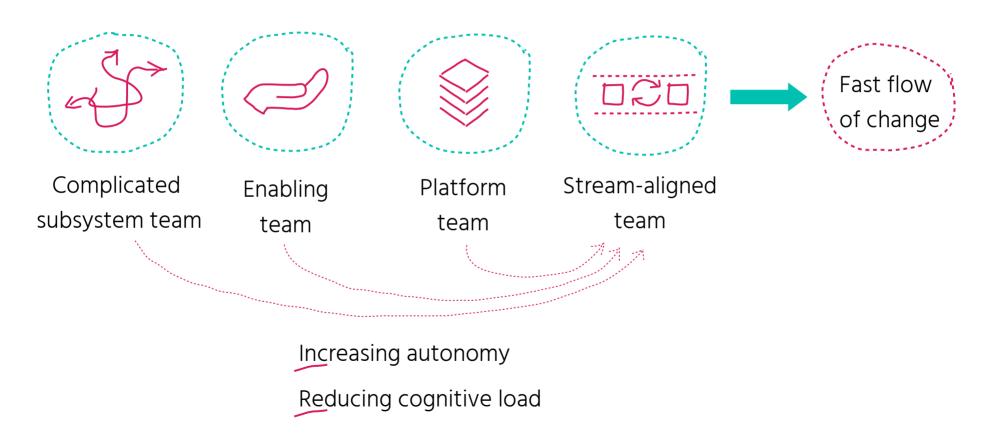




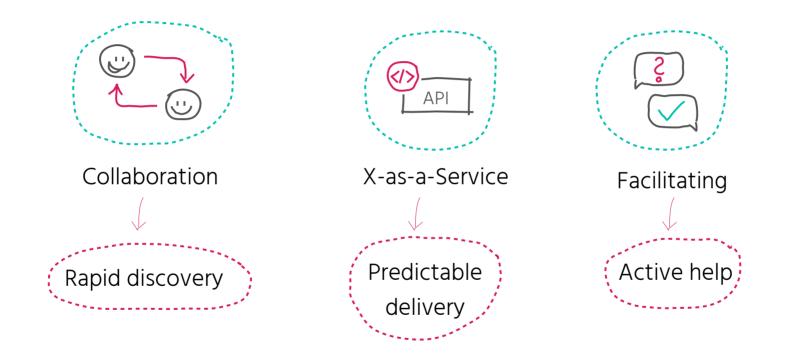


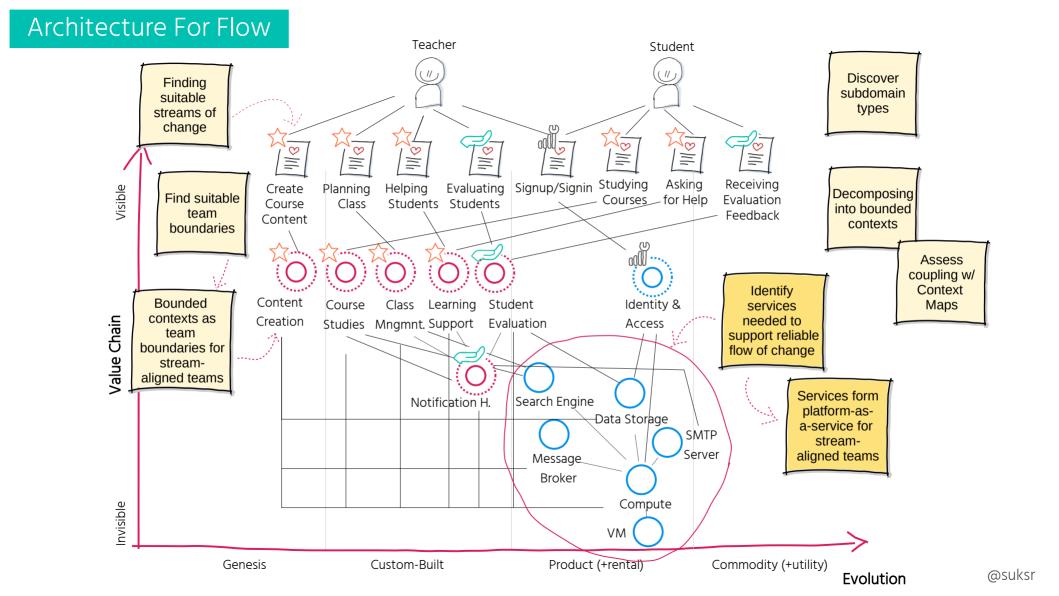


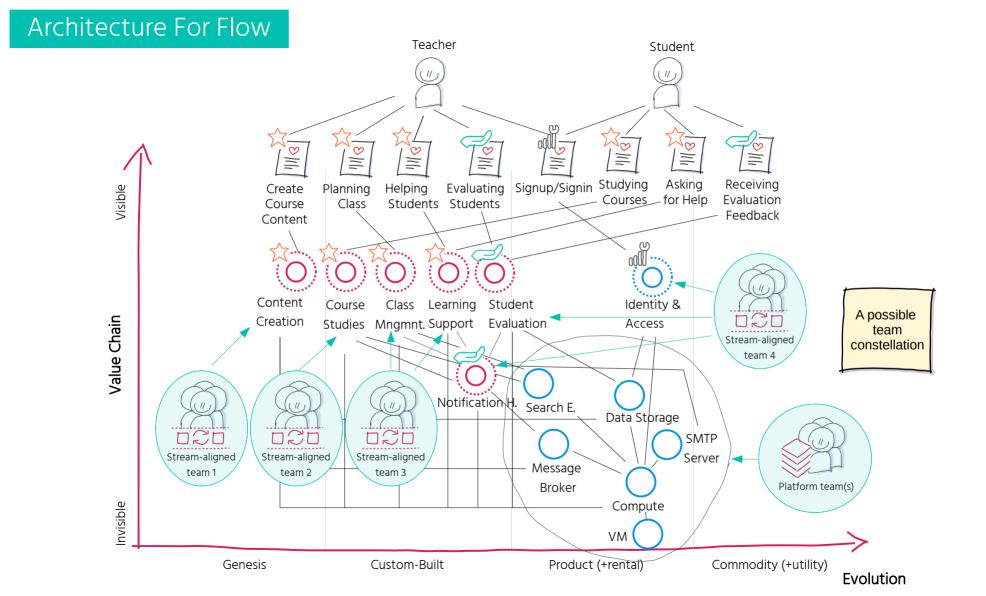


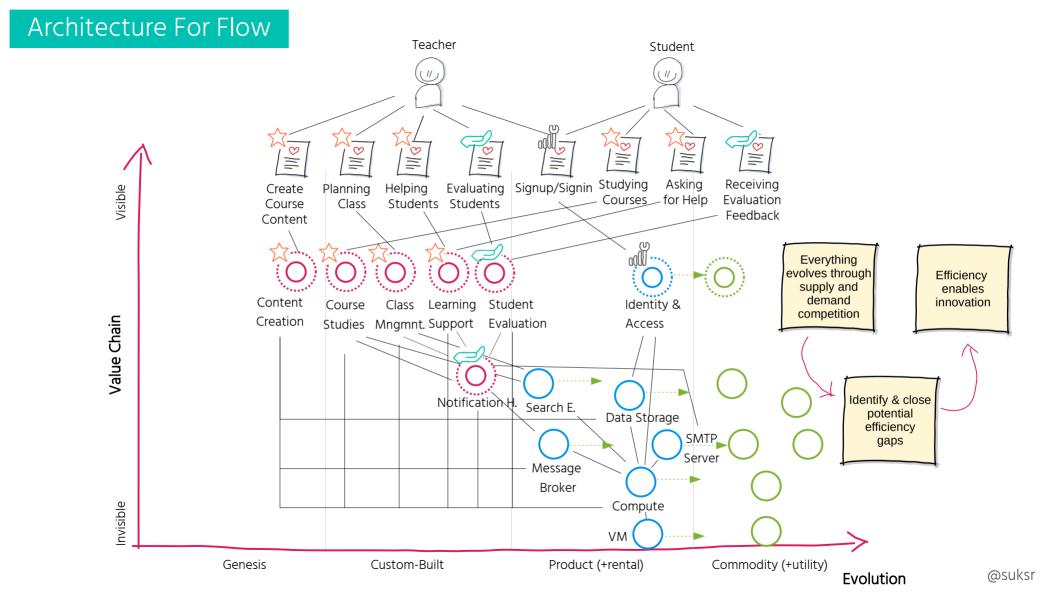


Three Interaction Modes

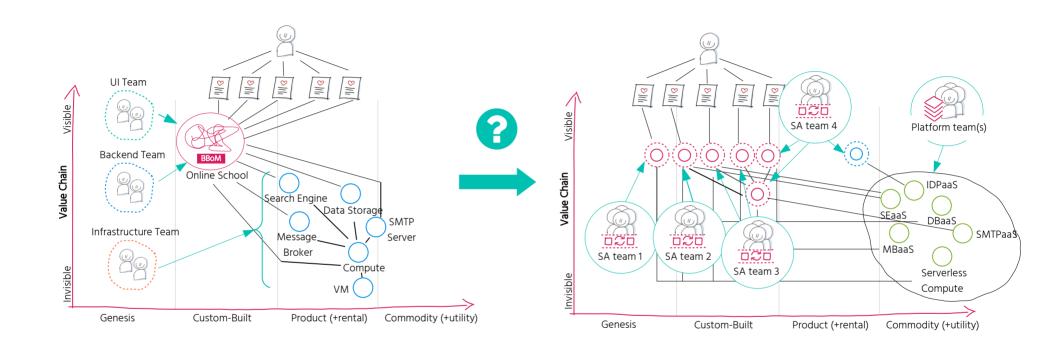


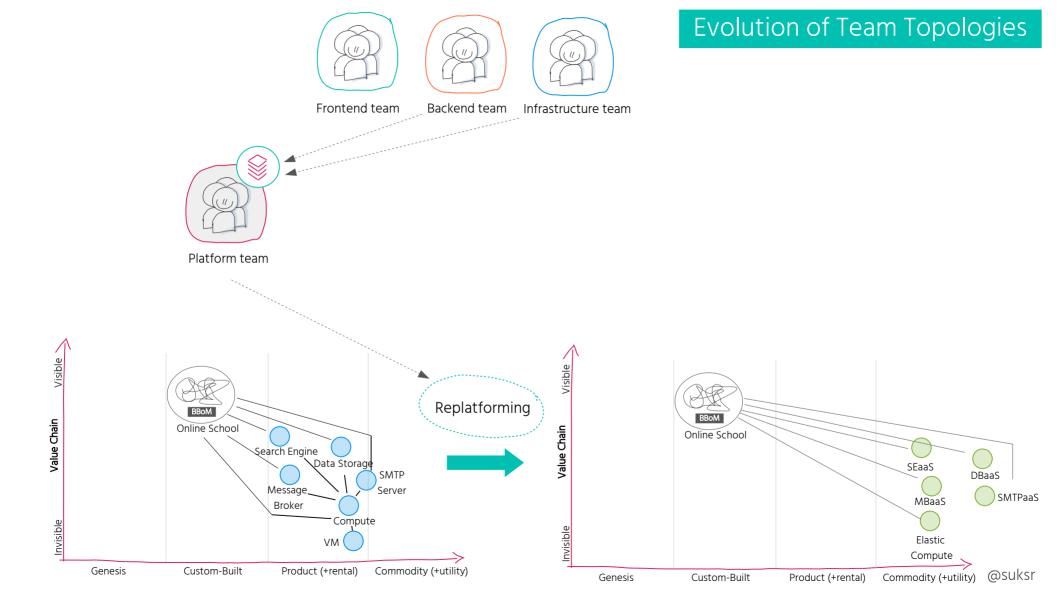


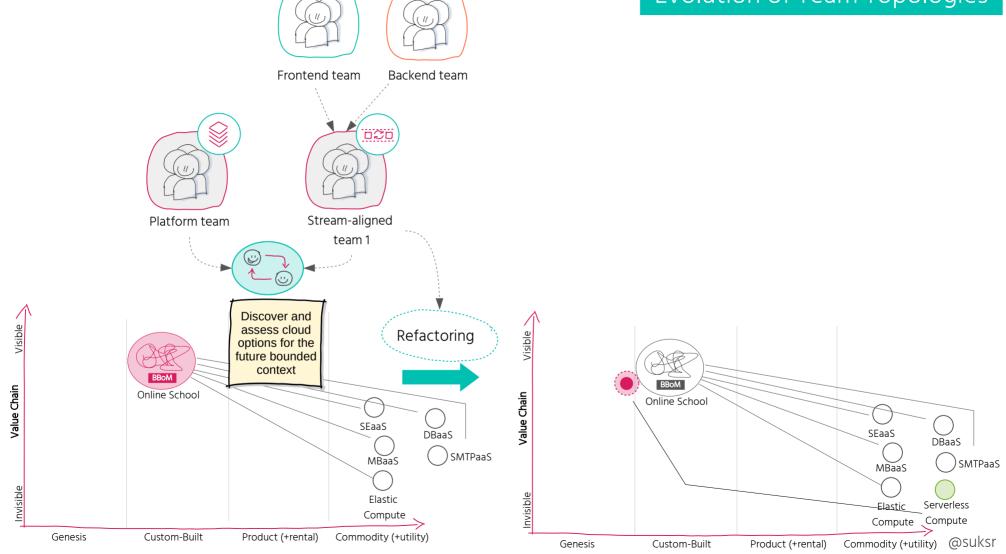


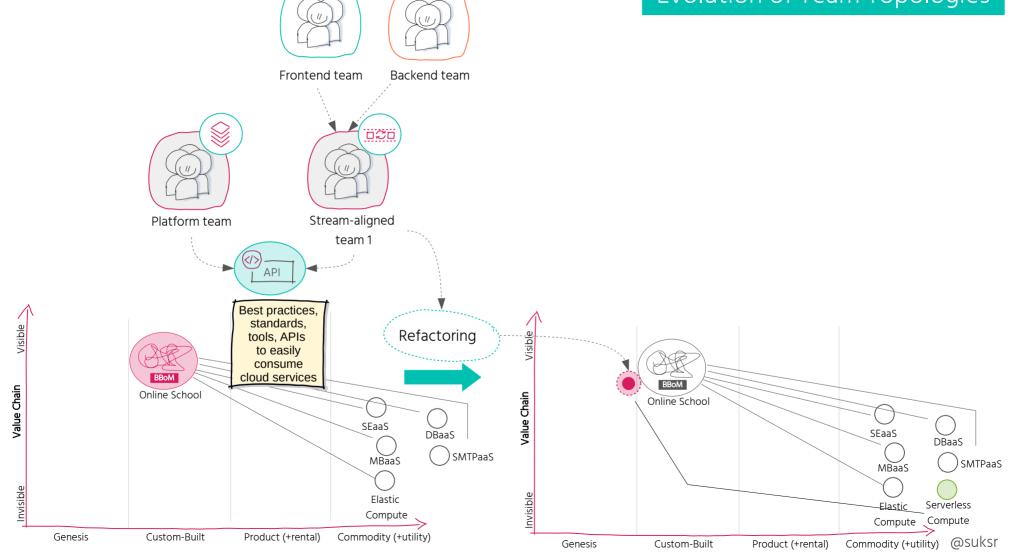


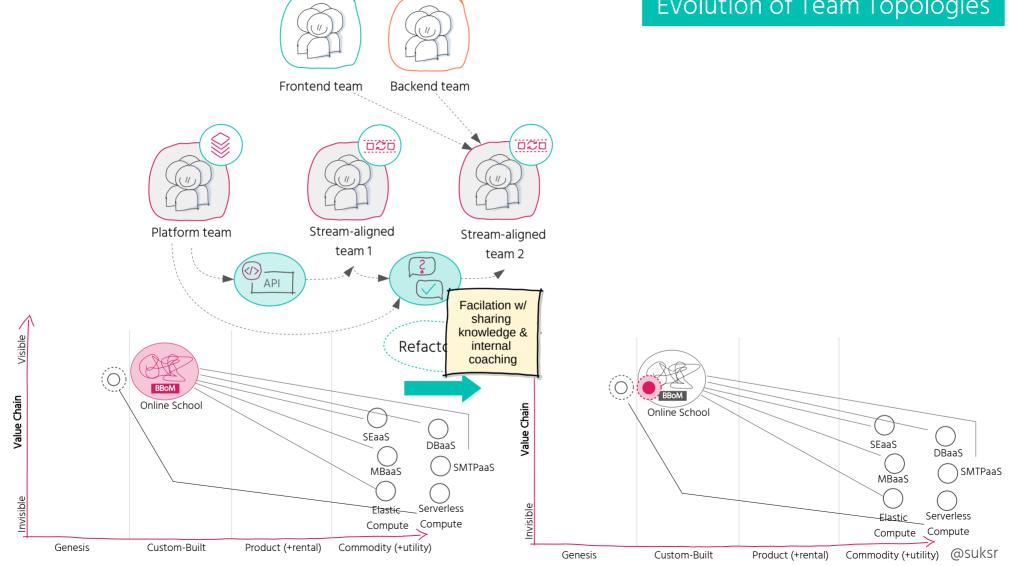
How to transition?

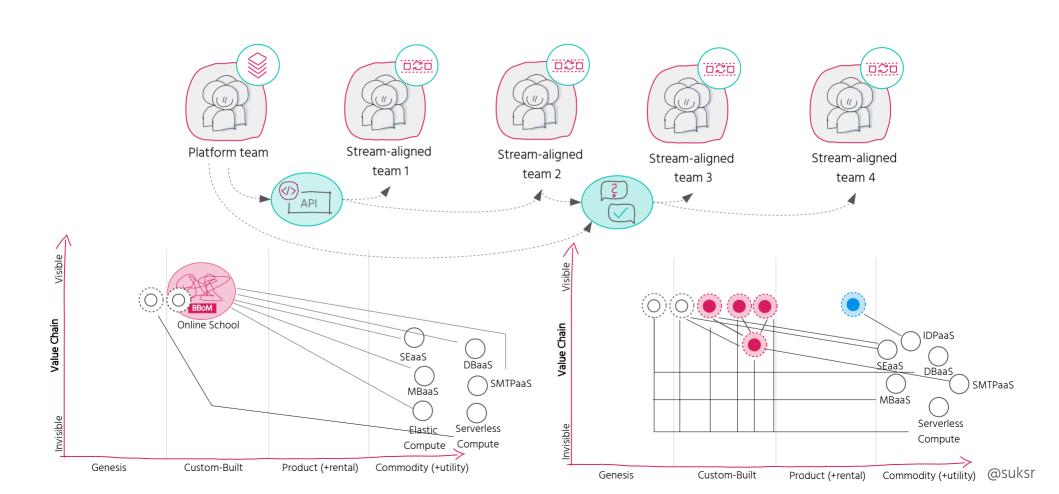


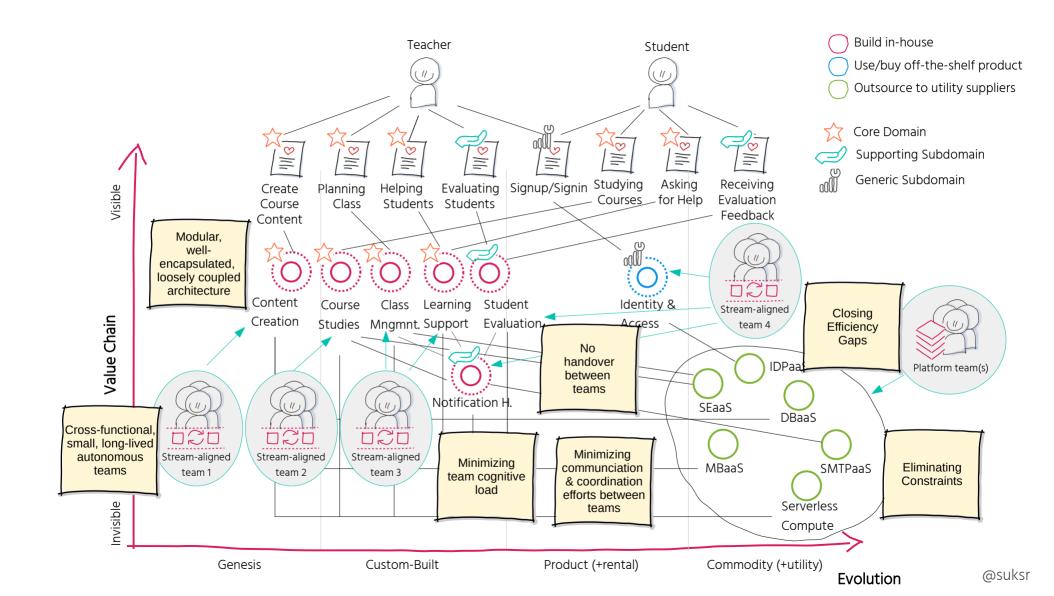


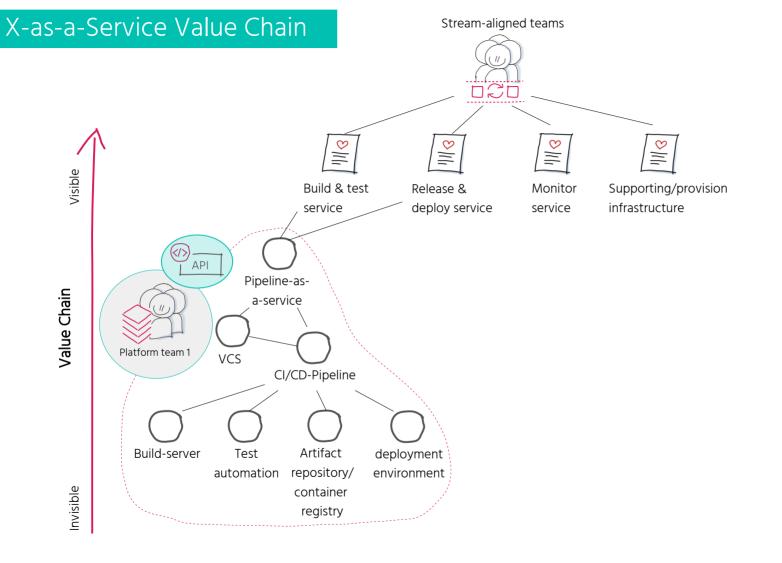


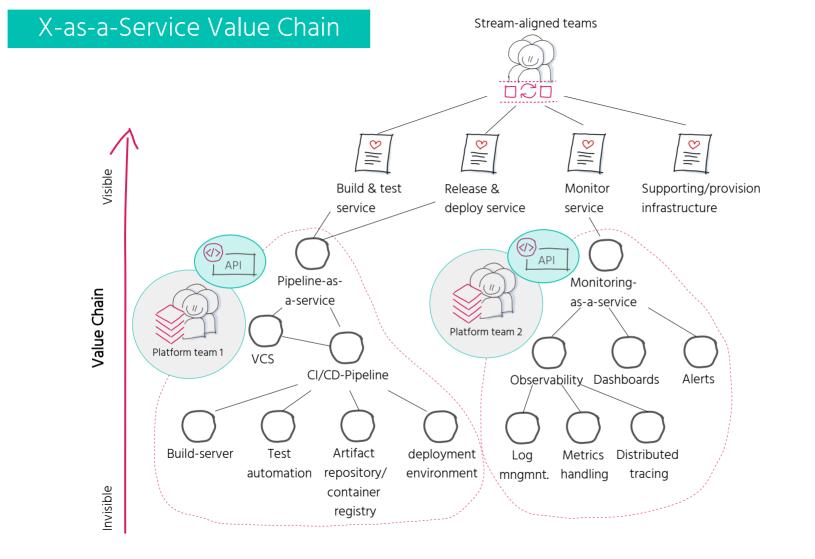


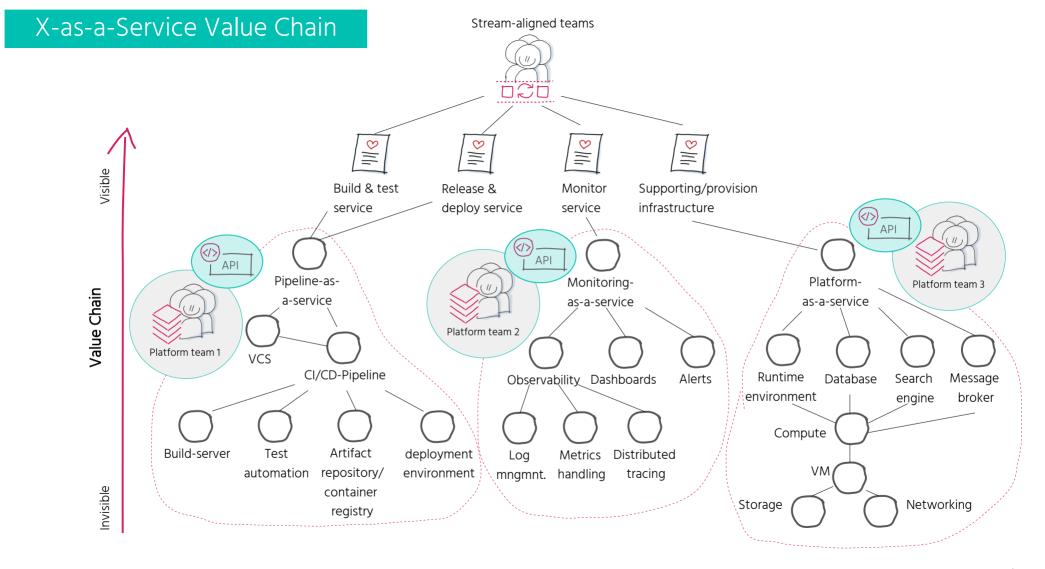


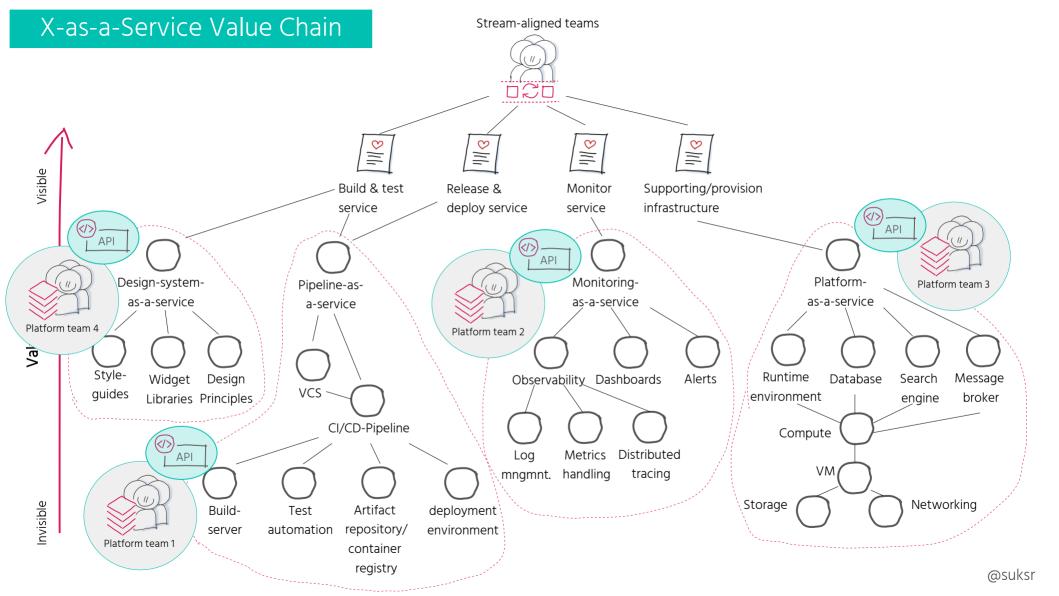


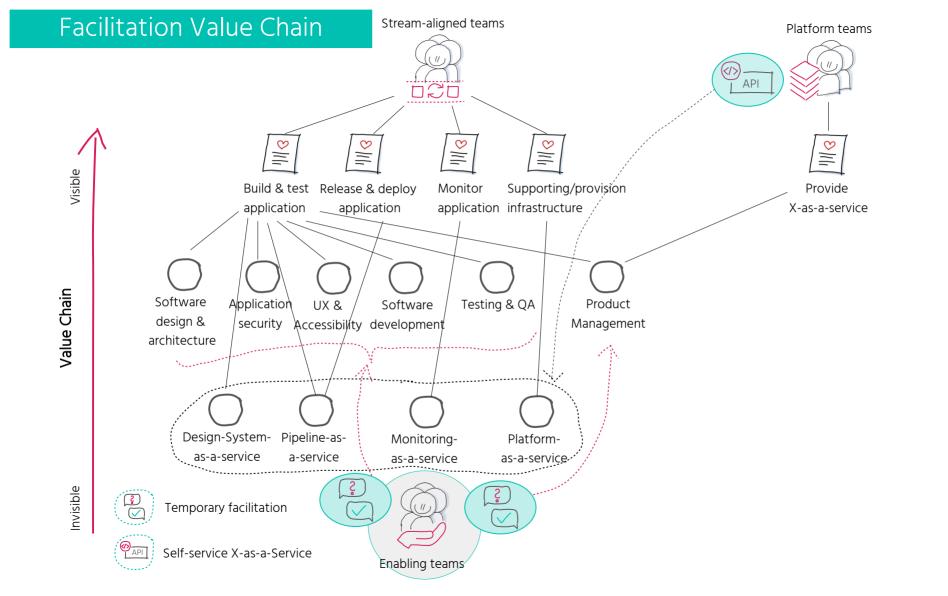


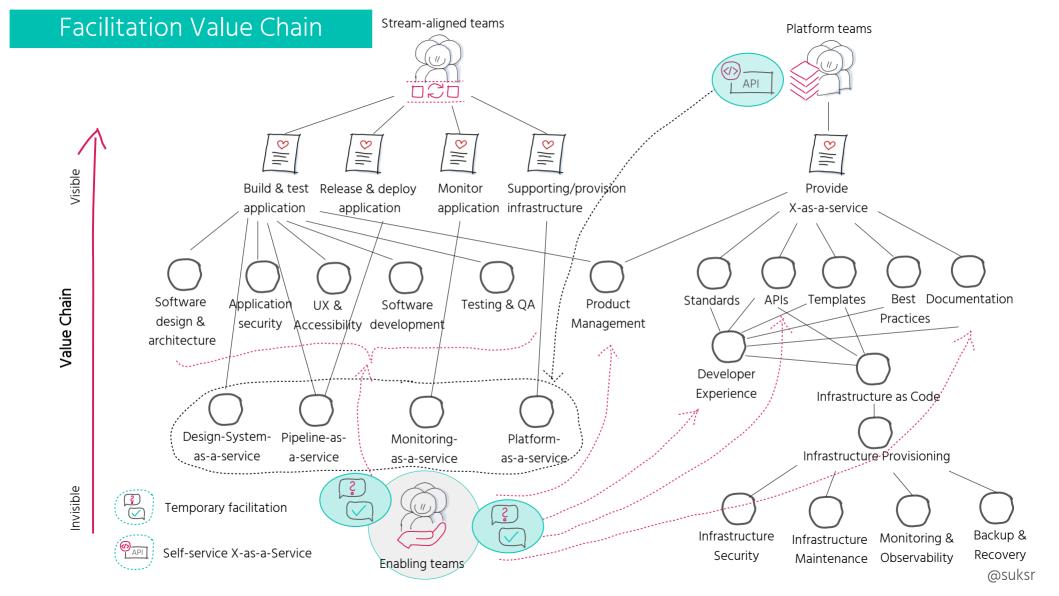




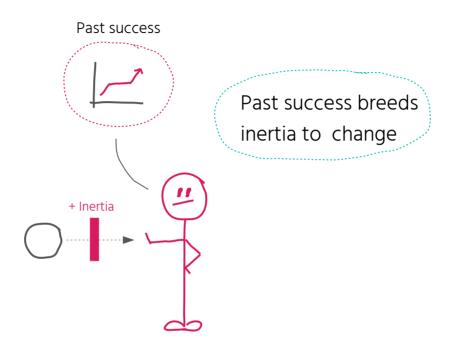




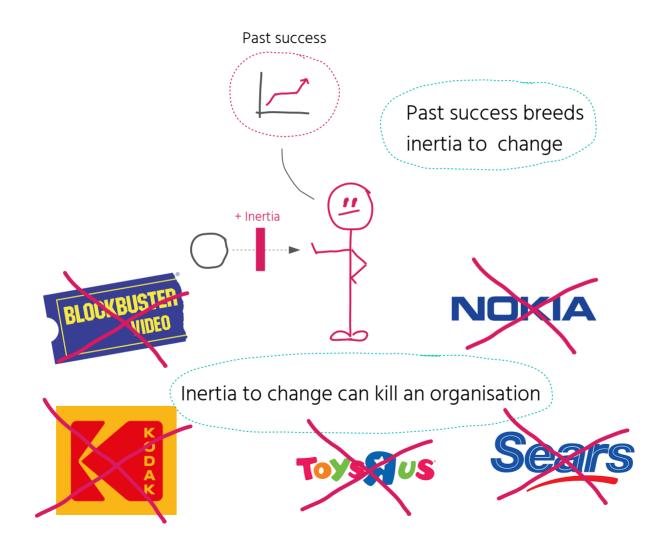


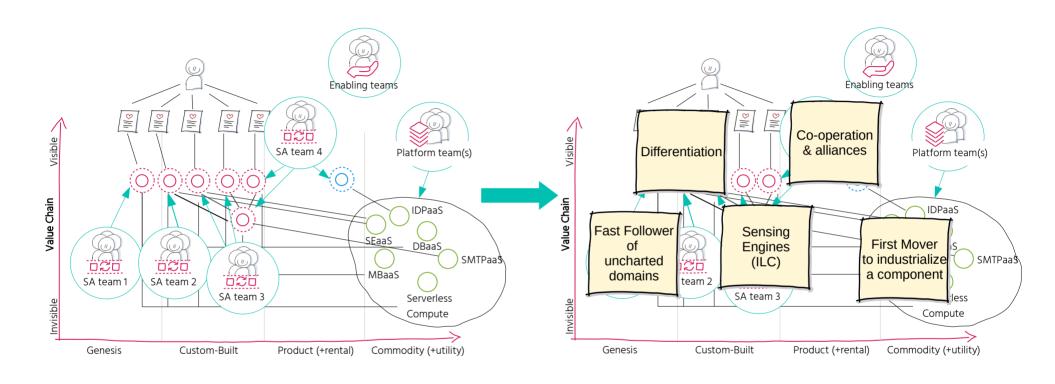


But we are successful, why should we change?



But we are successful, why should we change?





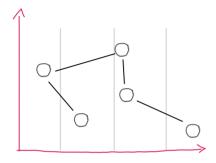
Responsive to change introduced by others

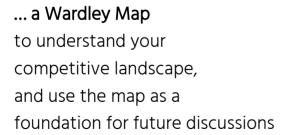
Leading future change introduced by us



Start small

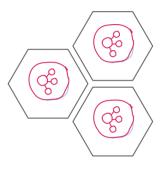
You could start with ...







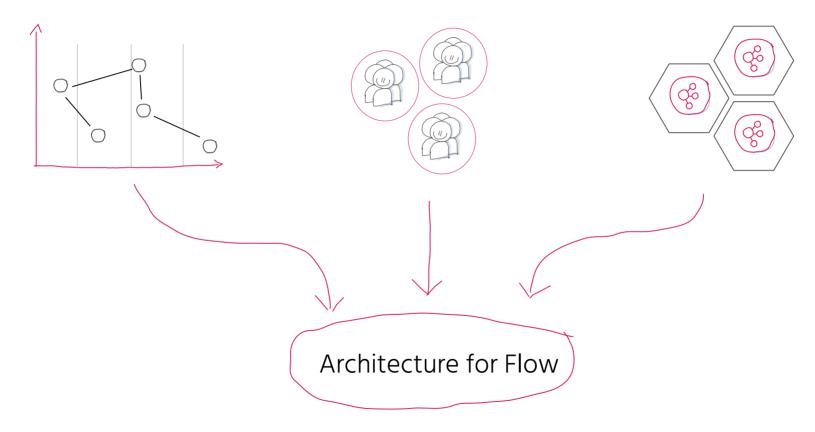
... or your current teams and analyse their current cognitive load and bottlenecks



... or identifying suitables seams for modularisation with subdomains & bounded contexts

Start small

And their paths eventually cross ...

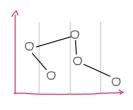


Key Takeaways



- Understanding the landscape an organization is operating & competing in including the external forces acting on the landscape
- Anticipate changes and identifying potential points to invest
- · Gaining domain knowledge & discovering the core
- Knowing what components to build, buy/use, or outsource

Key Takeaways







Wardley Mapping

Domain-Driven Design

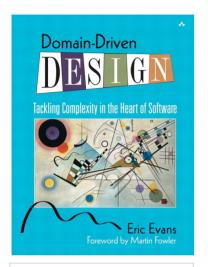
Team Topologies

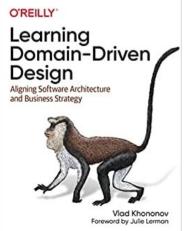
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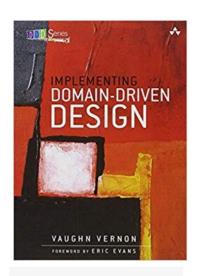
- Modular, well-encapsulated architecture & welldefined ownership boundaries w/ bounded contexts
- Aligning teams and evolving their interactions to the system & the strategy
- Eliminating delivery bottlenecks & increasing software delivery performance
- Optimizing for a a fast flow of change to be able to adapt, evolve and thrive in the face of constant change

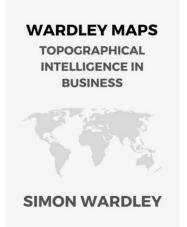
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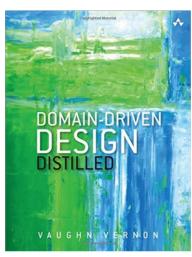
Some References

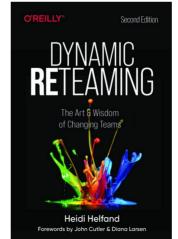


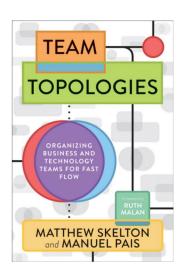






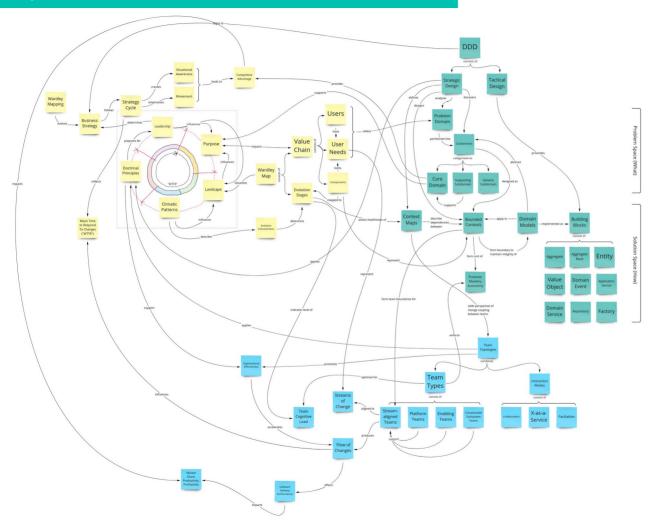


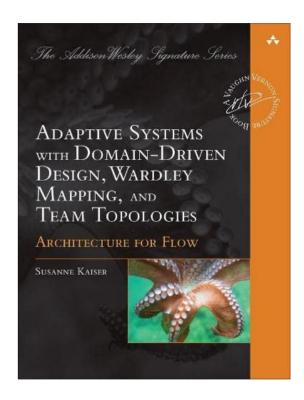




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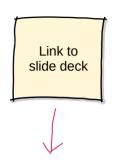
If you are interested in more details ...





THANK YOU

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Independent Tech Consultant
Team Topologies Valued Practitioner
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