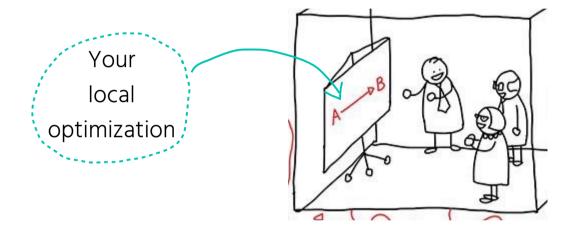


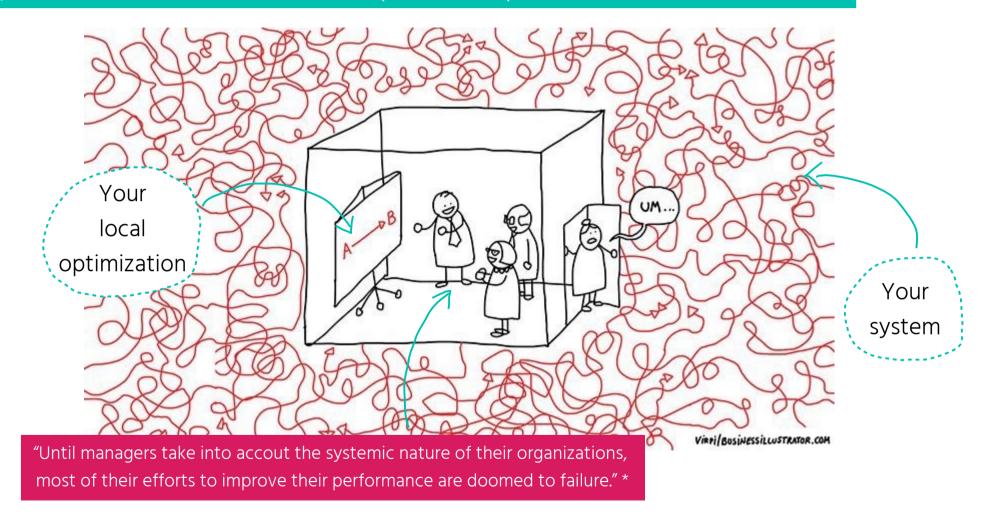
Building Adaptive Systems for a Fast Flow of Change

Susanne Kaiser Independent Tech Consultant @suksr

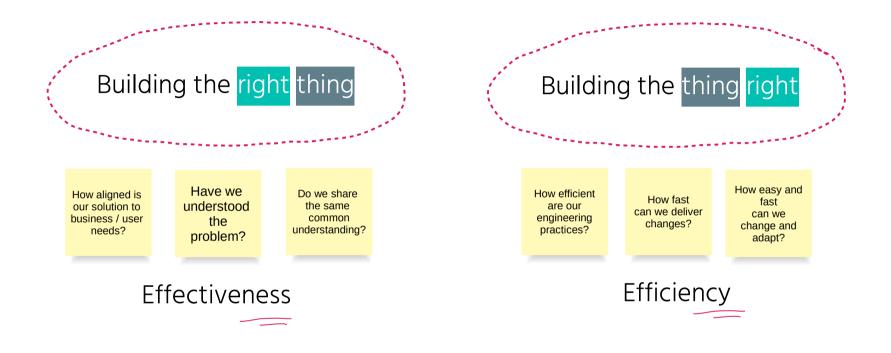
Problem with Local Optimization



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



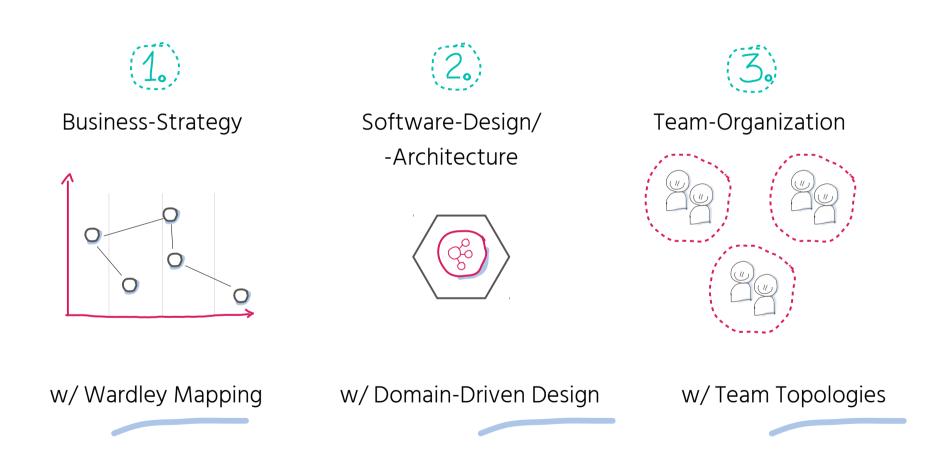
Challenges of Building Systems



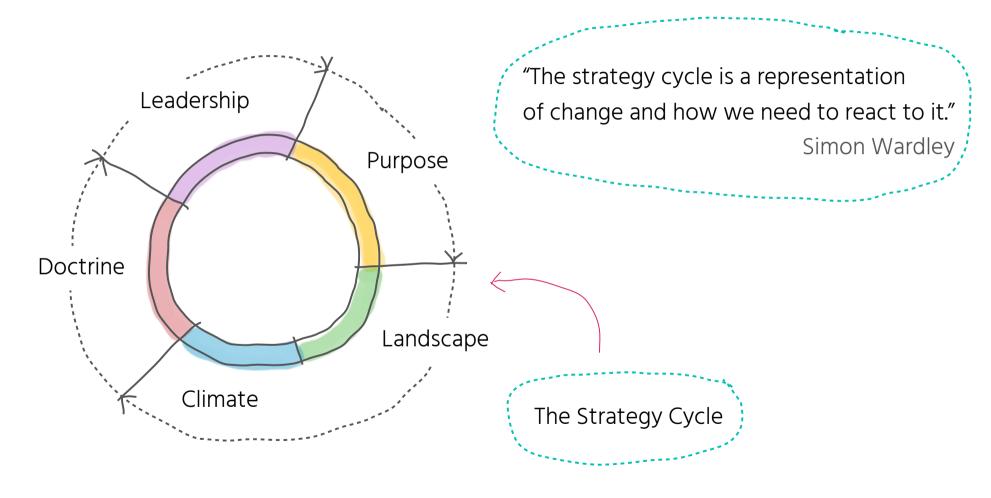
"Doing the wrong thing right is not nearly as good as doing the right thing wrong"

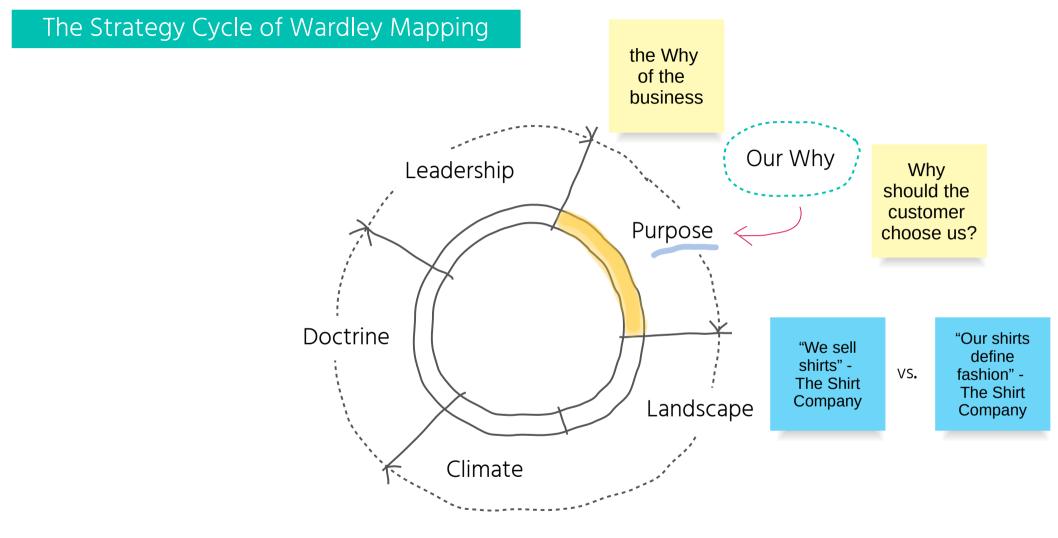
Dr. Russell Ackoff

3 Perspectives to Build Adaptive Systems

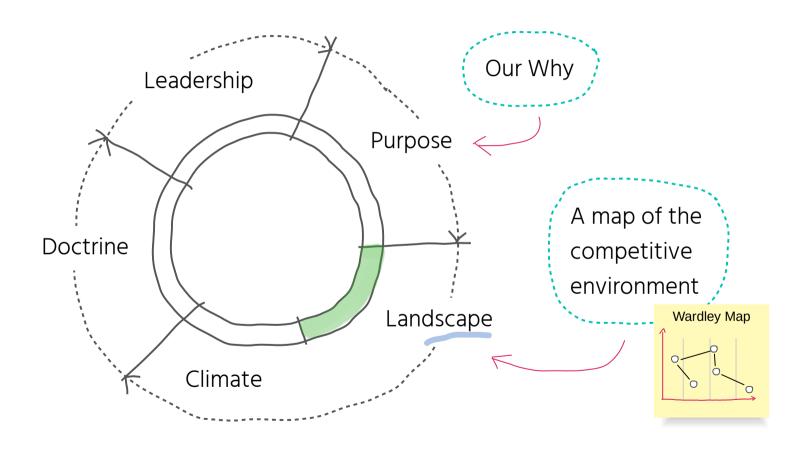


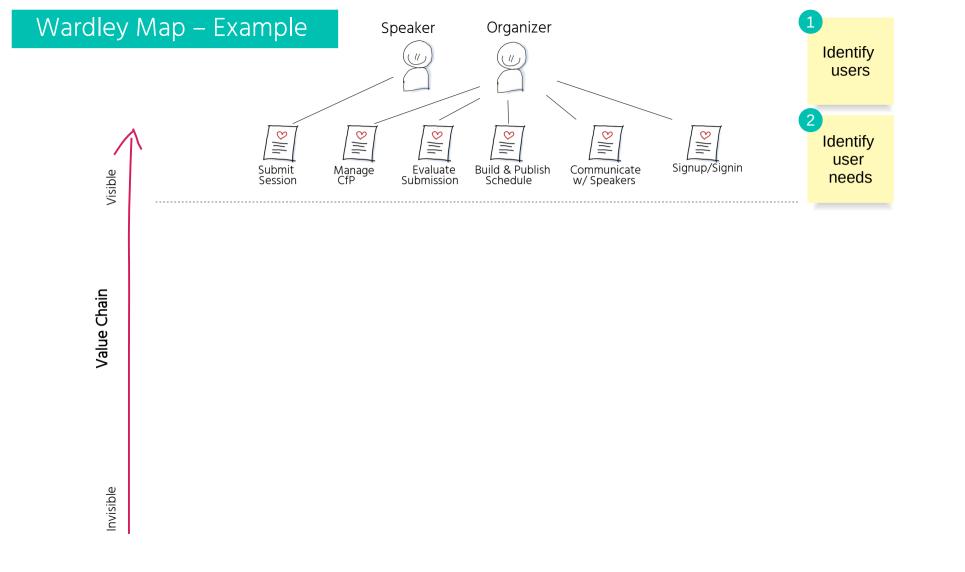
Business Strategy w/ Wardley Mapping

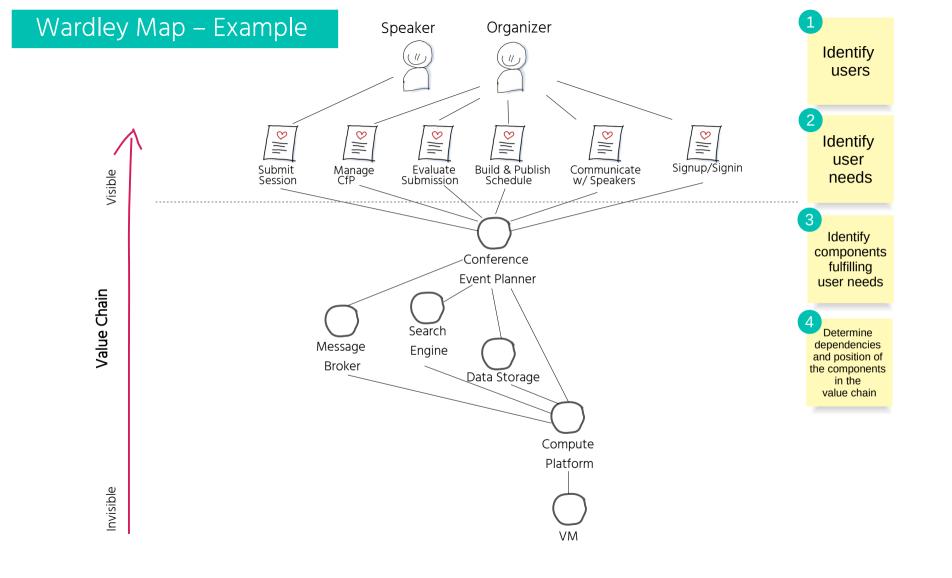


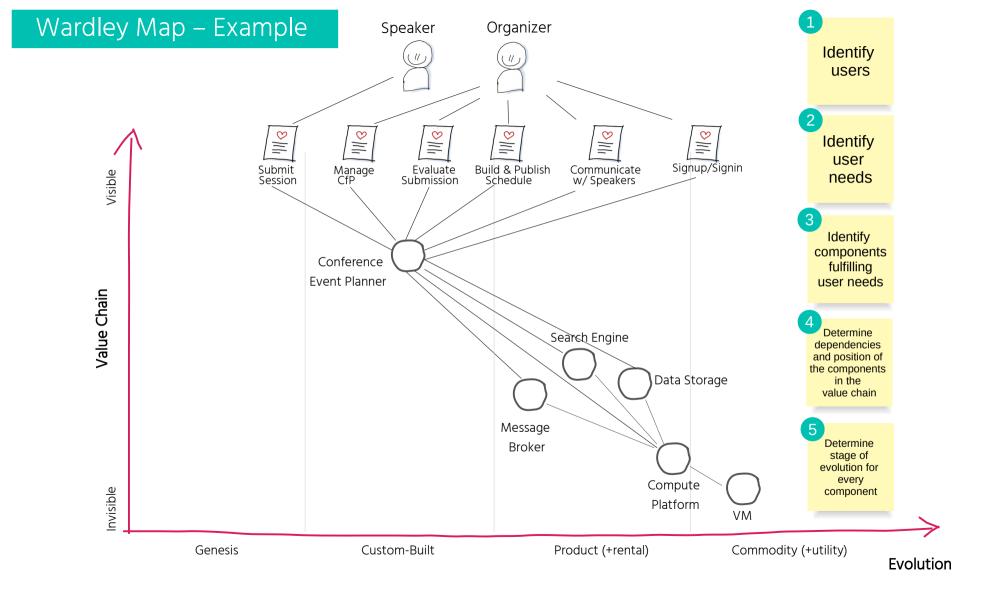


The Strategy Cycle of Wardley Mapping

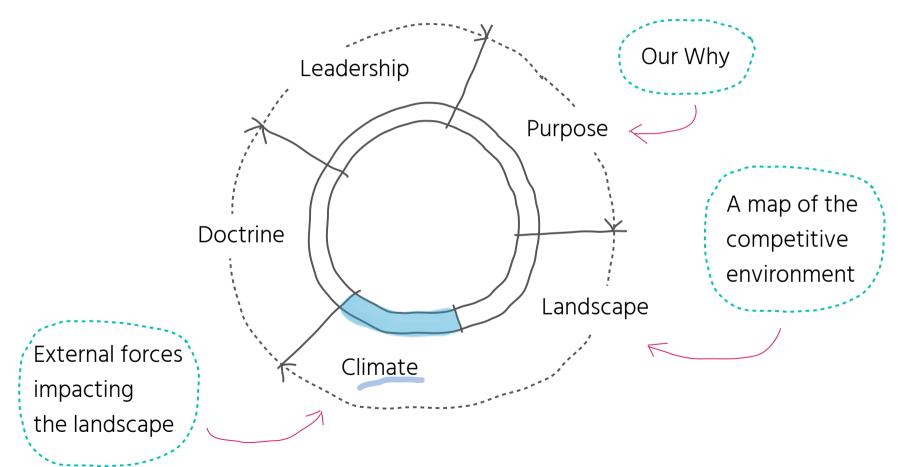


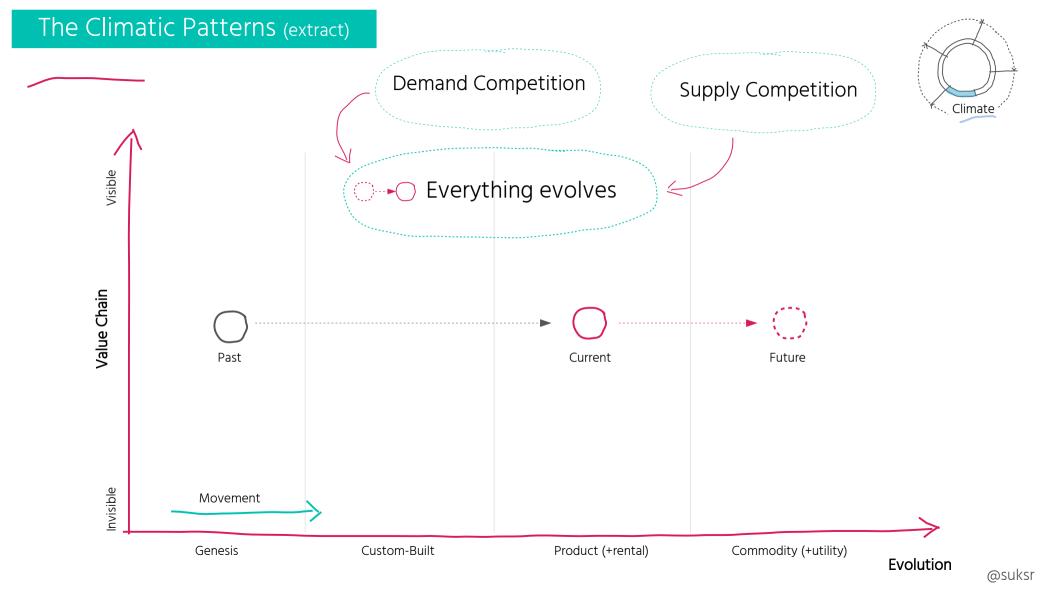


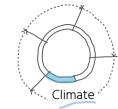


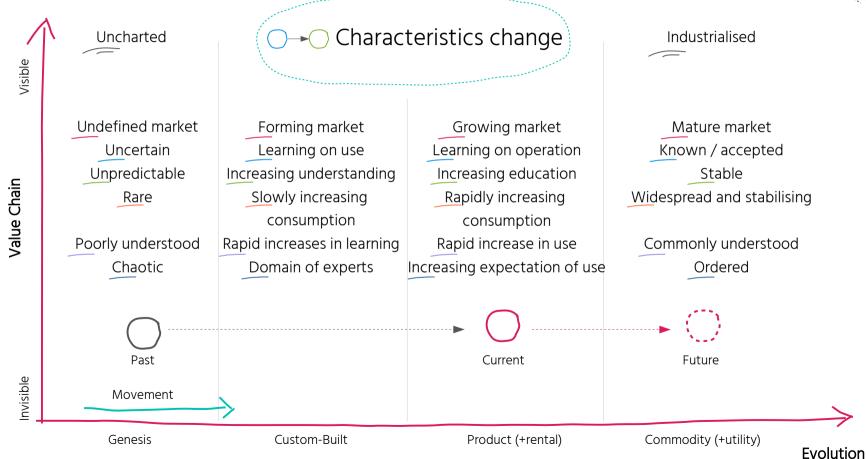


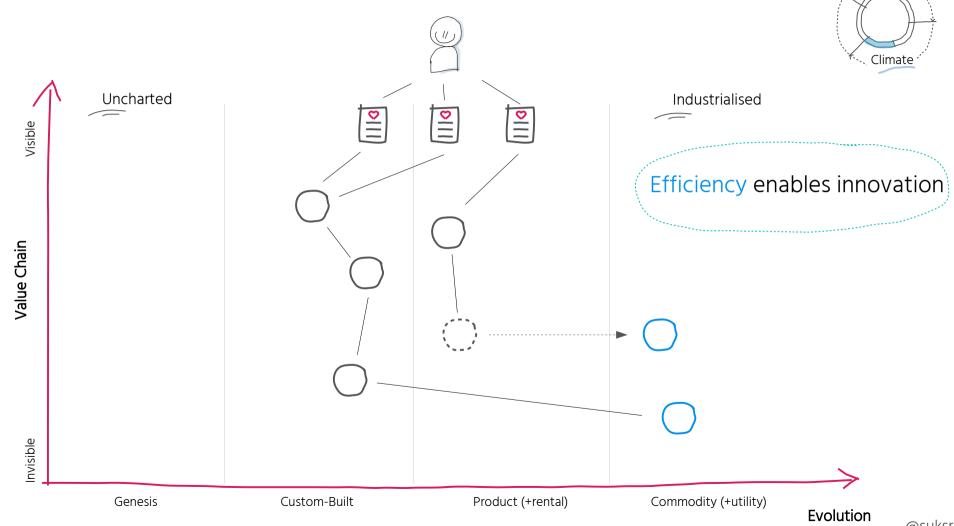
The Strategy Cycle of Wardley Mapping

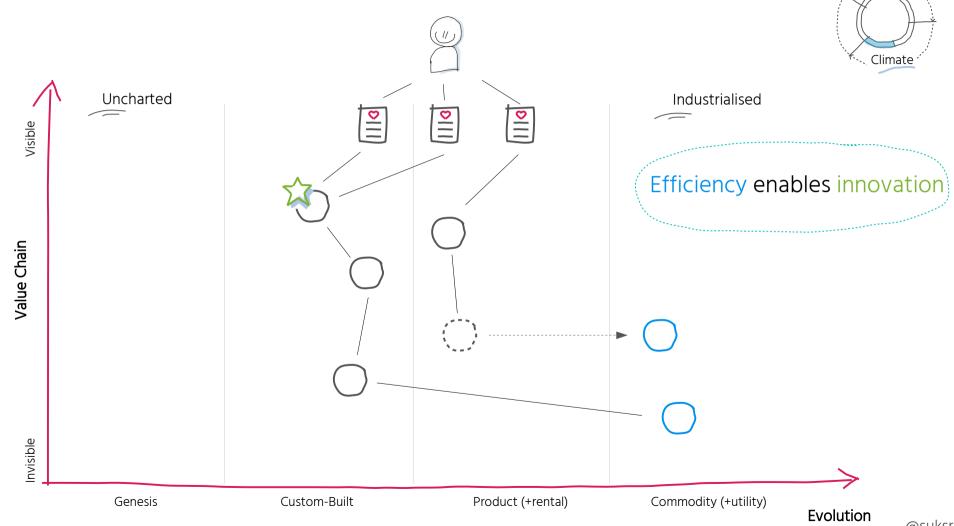


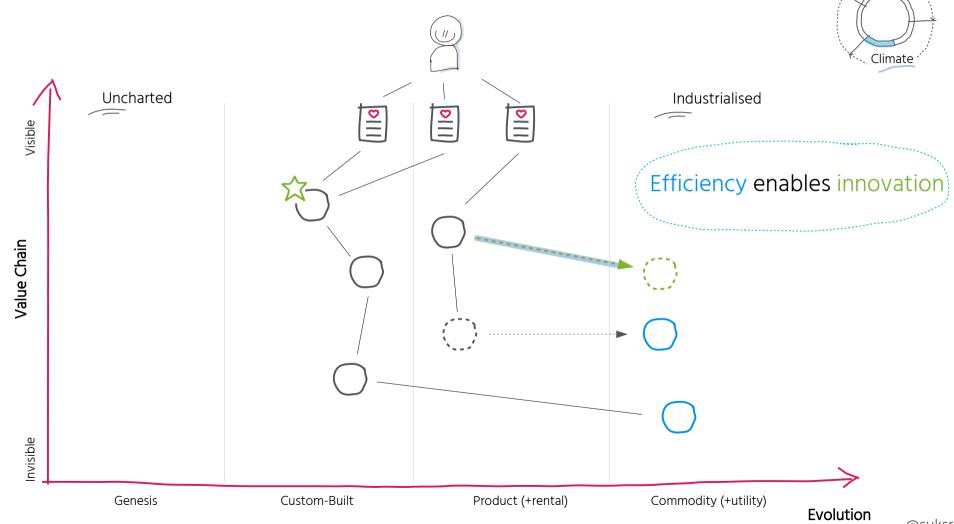


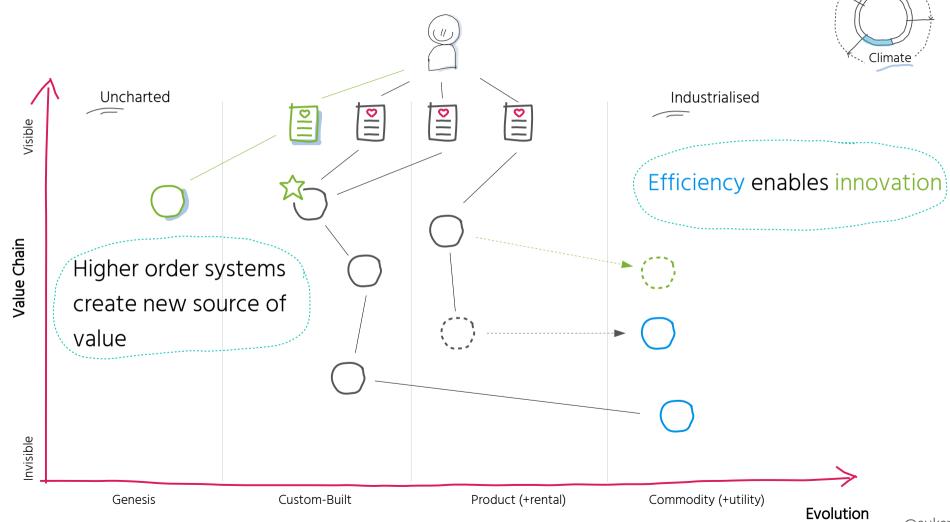












Example: Nokia





Nokia N-Series

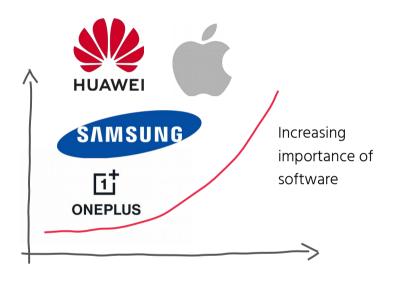
Apple iPhone



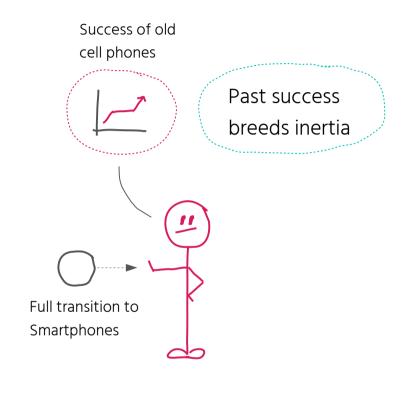


2005 2007

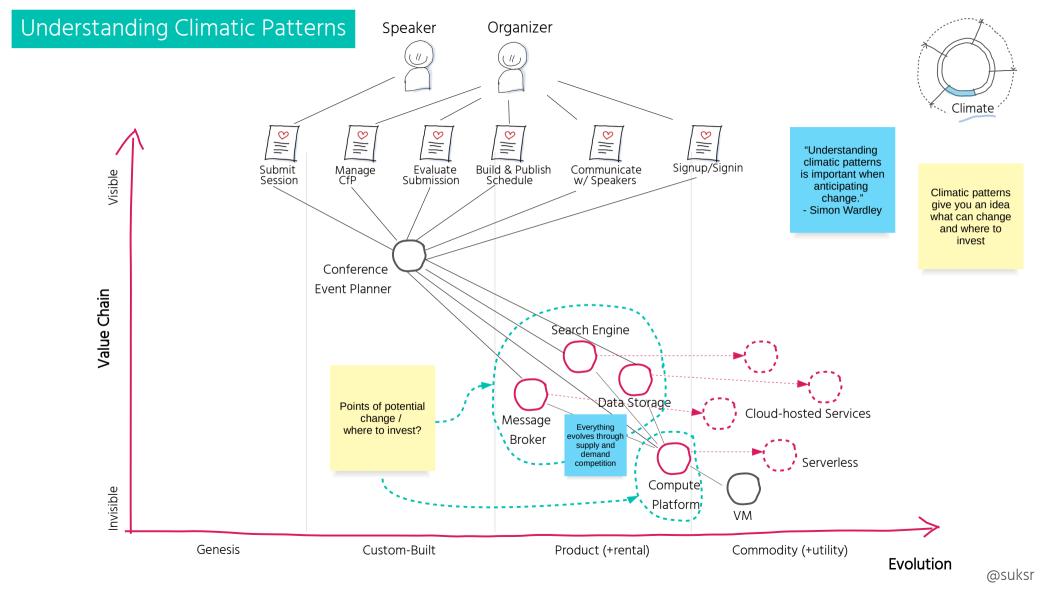
Competitors' Actions and Inertia to Change

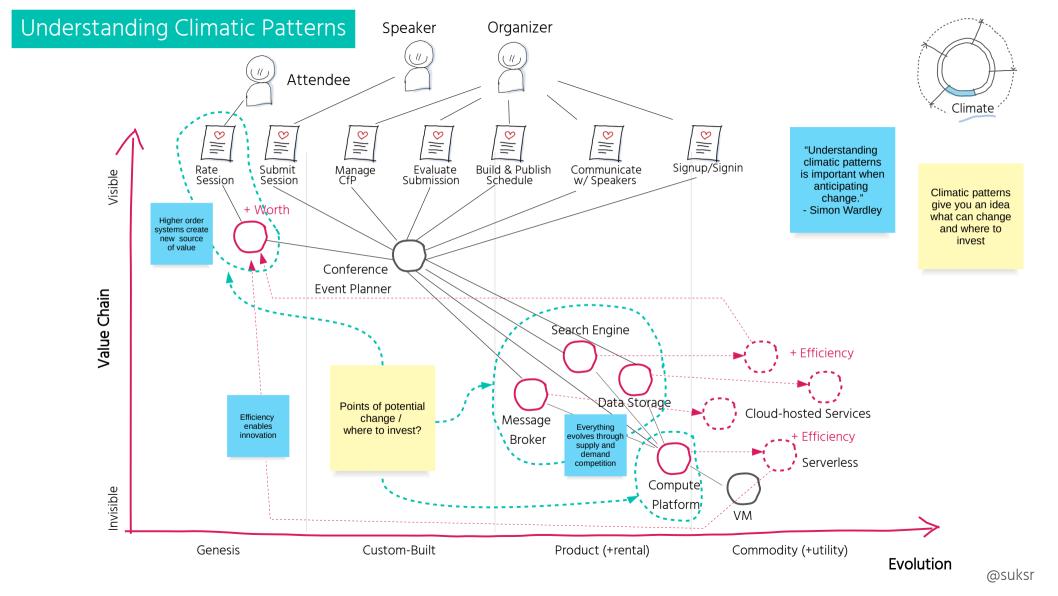


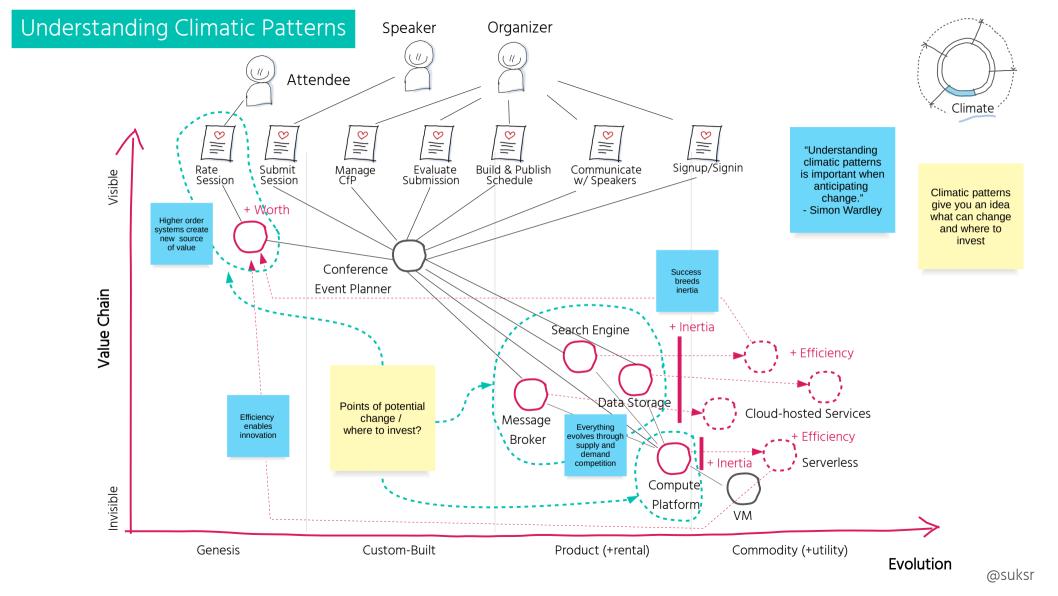
Competitors' actions will change the game



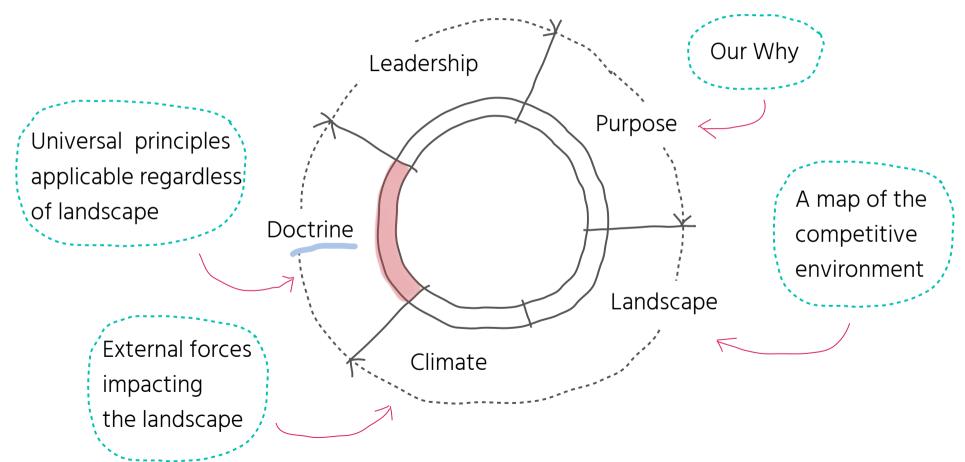
Inertia can kill an organisation

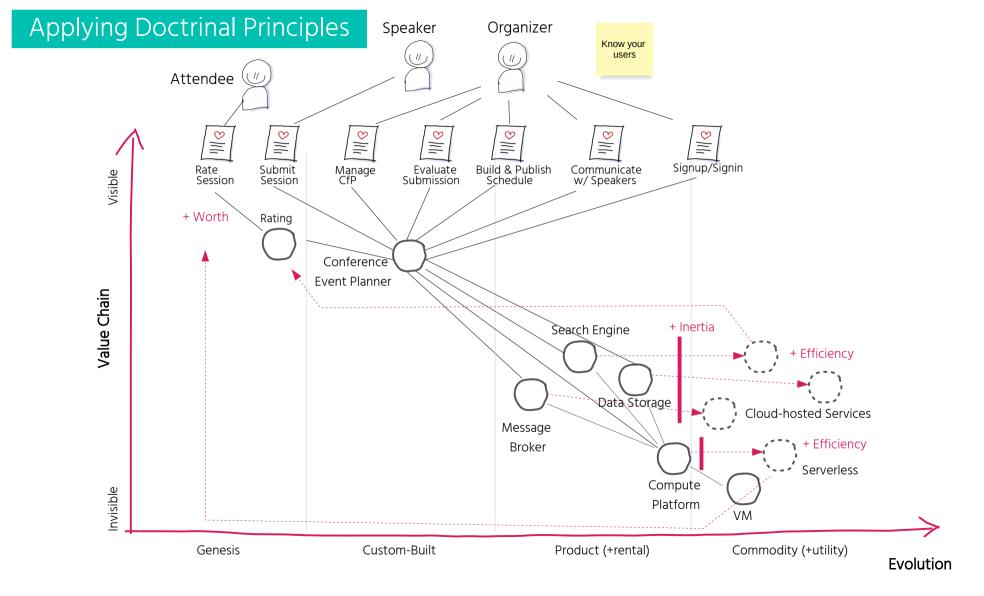


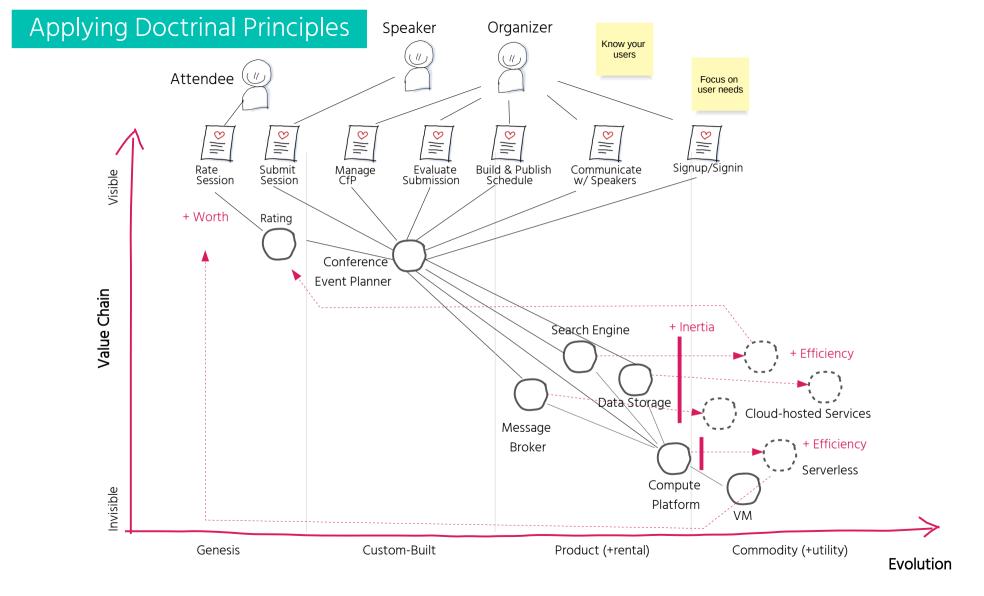


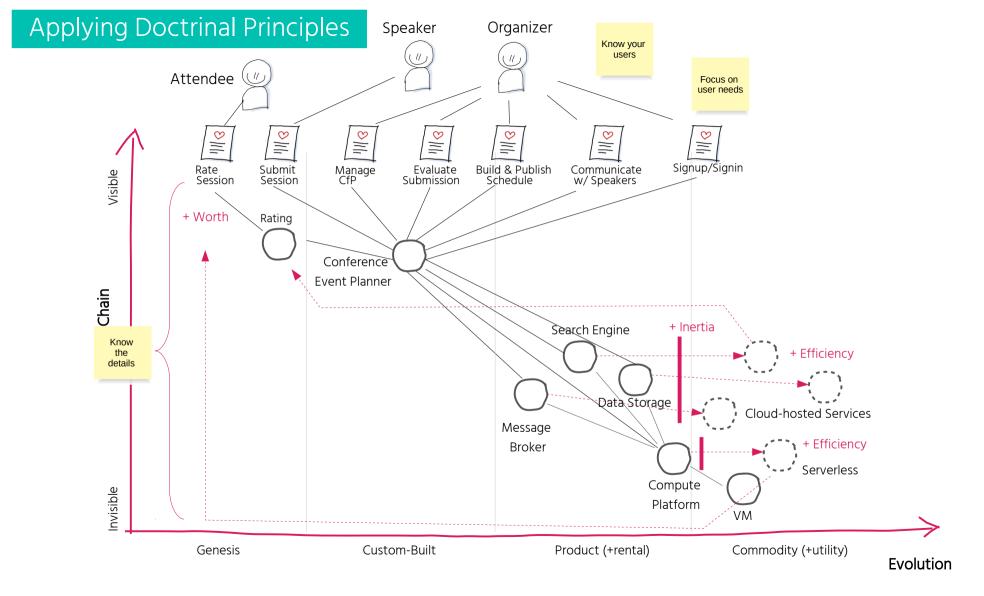


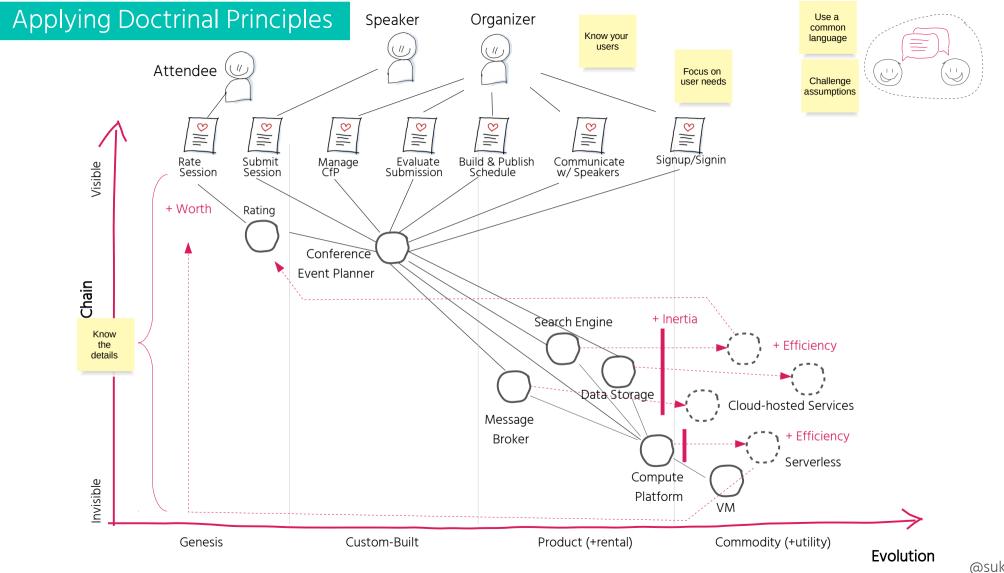
The Strategy Cycle of Wardley Mapping

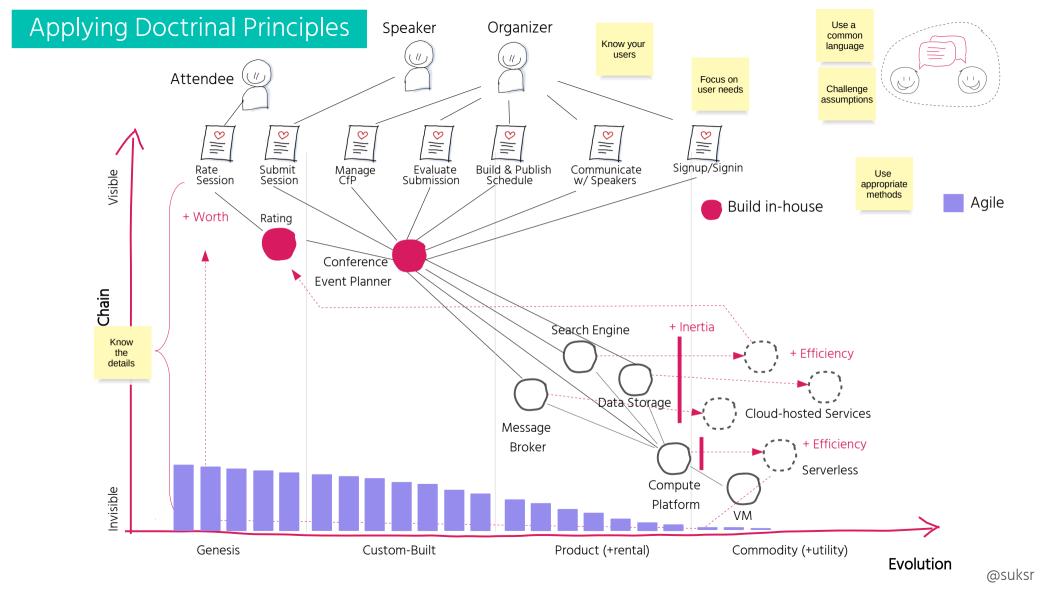


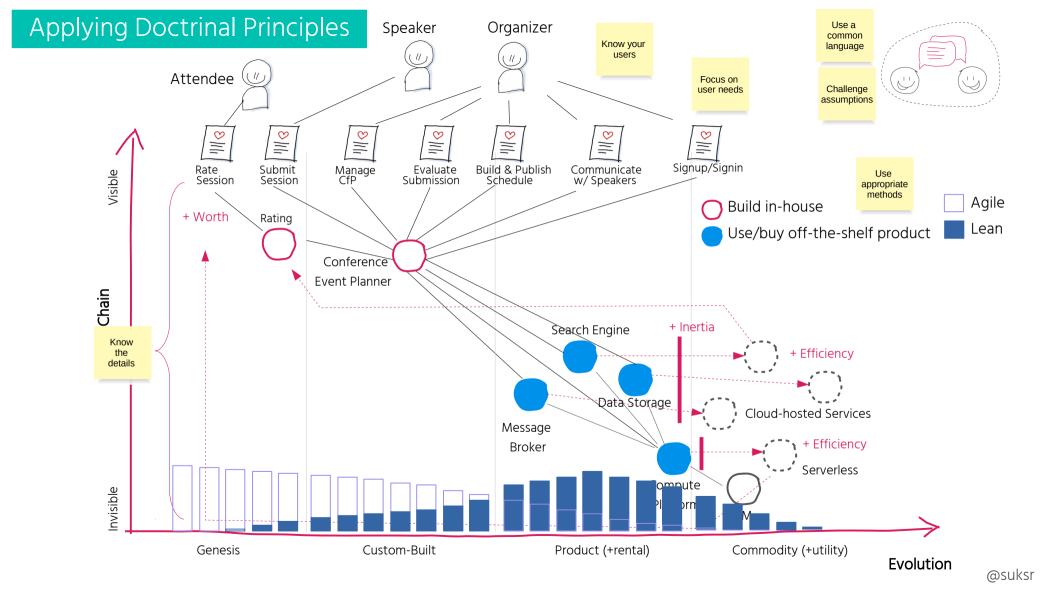


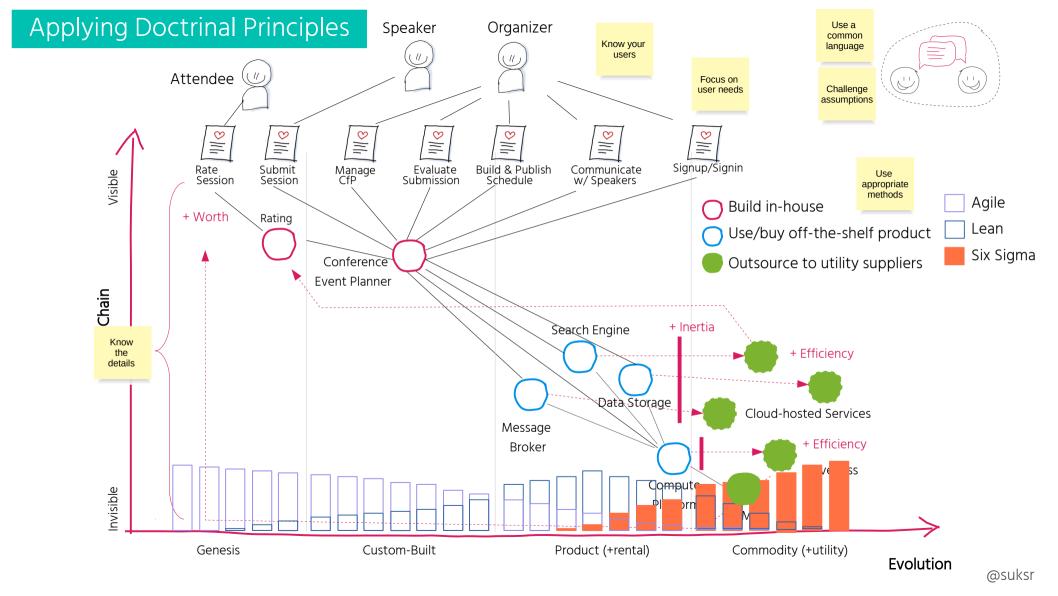


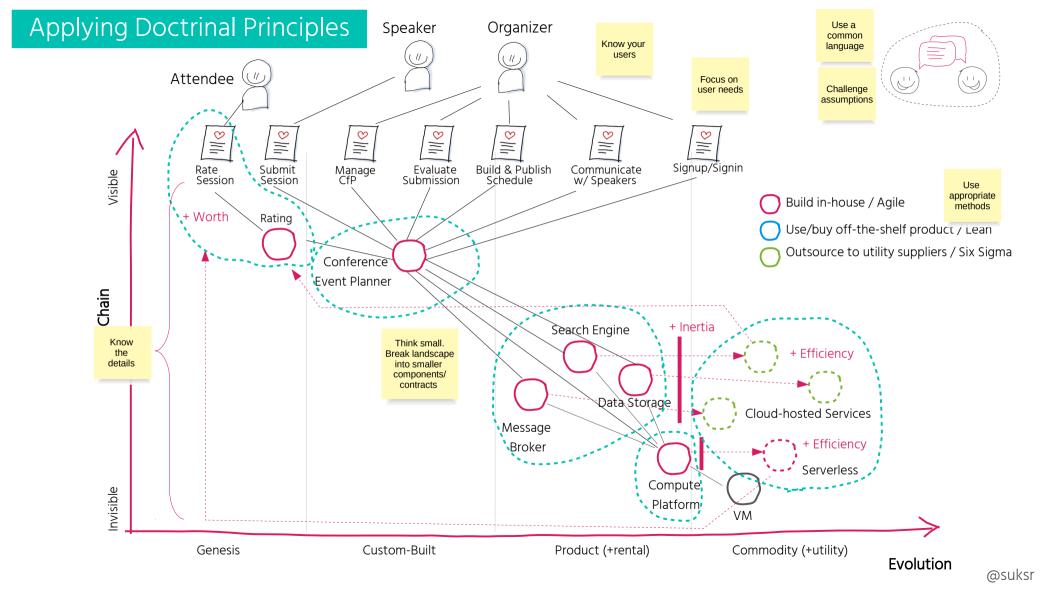


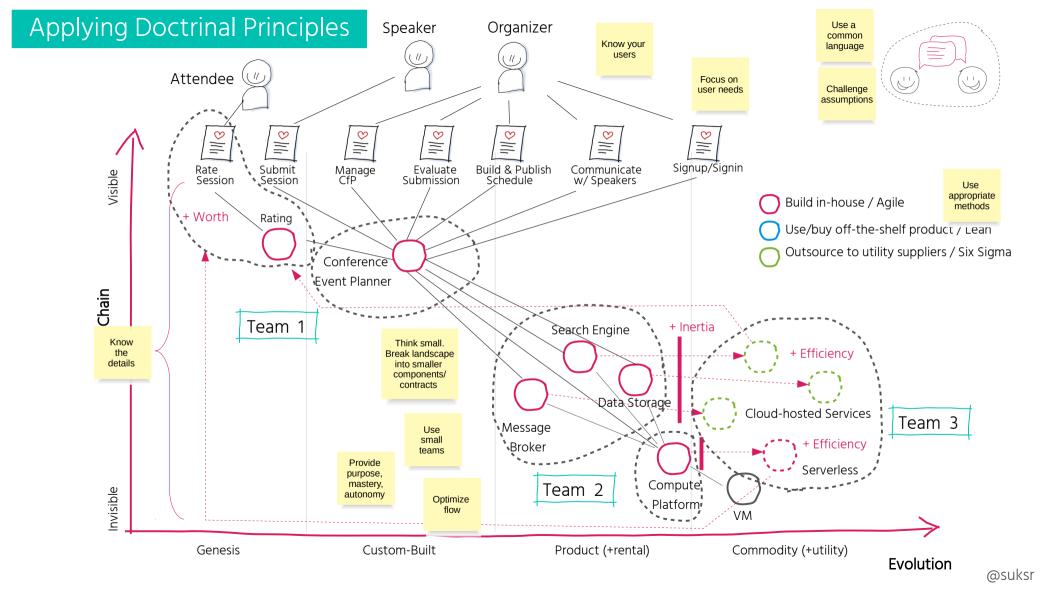


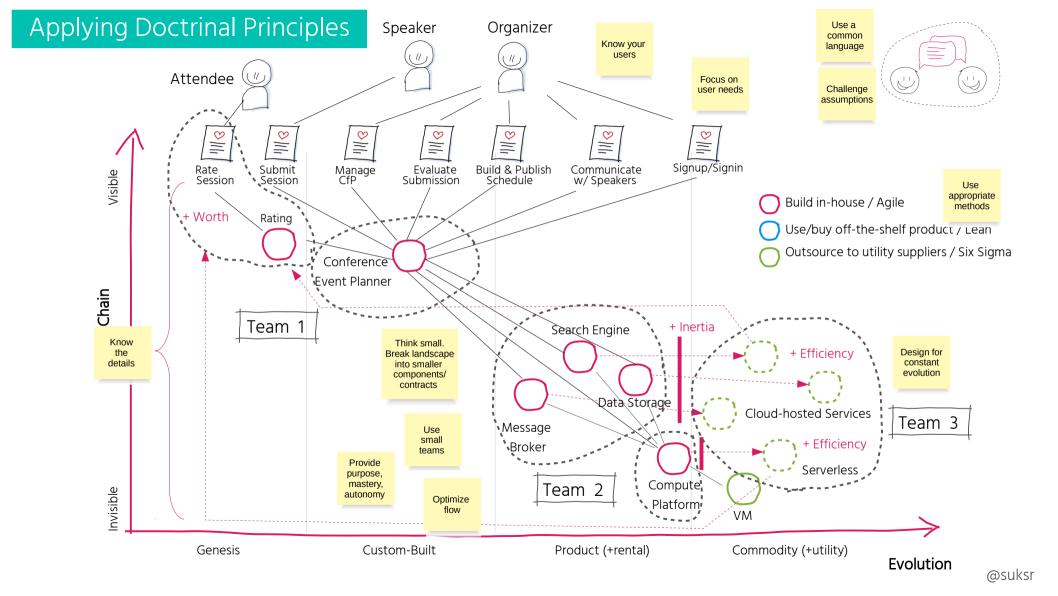








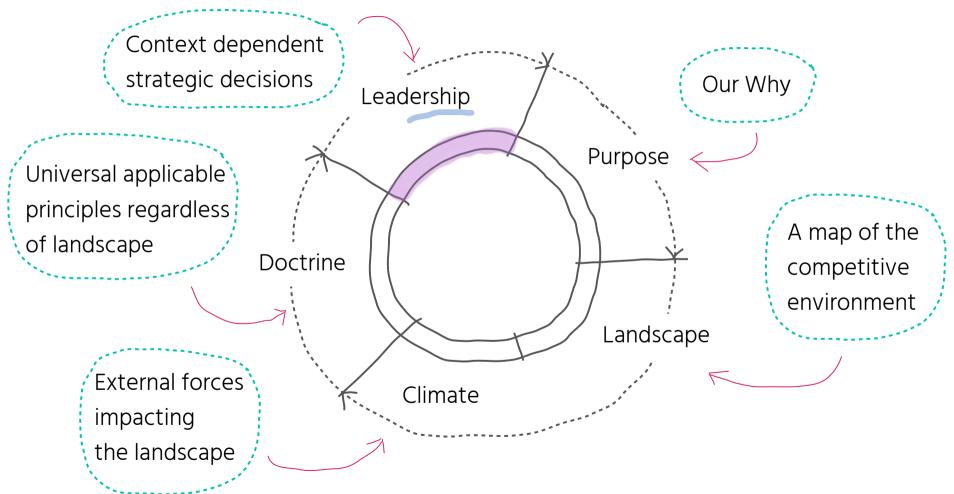


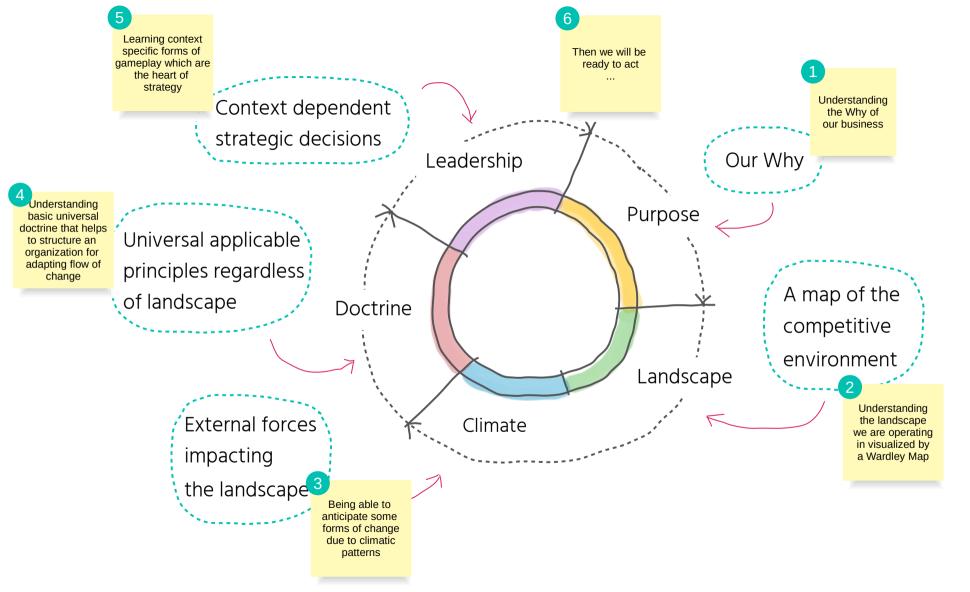


Applying Doctrinal Principles

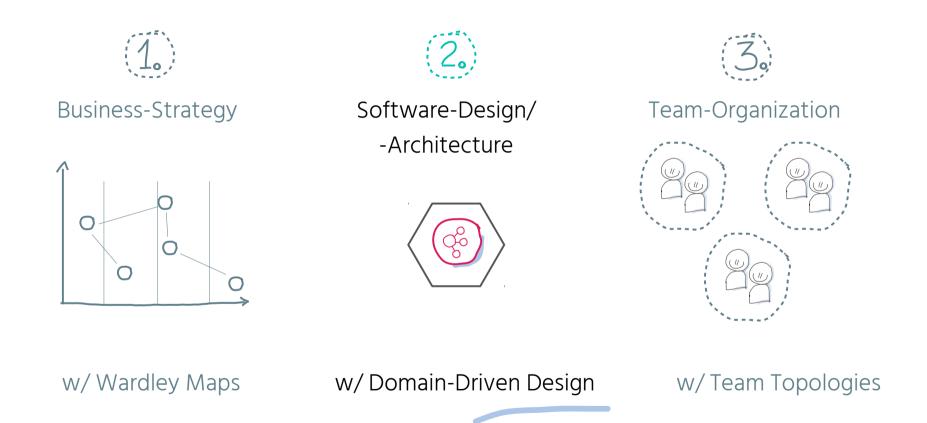


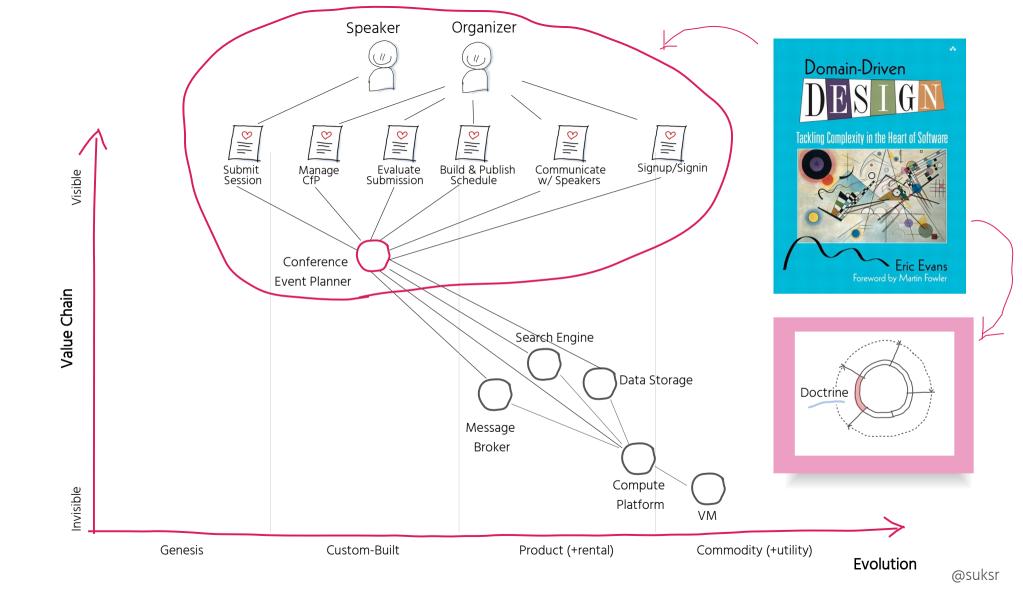
The Strategy Cycle of Wardley Mapping



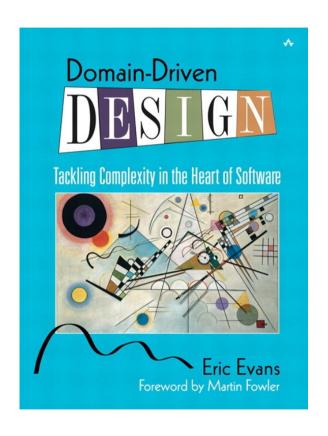


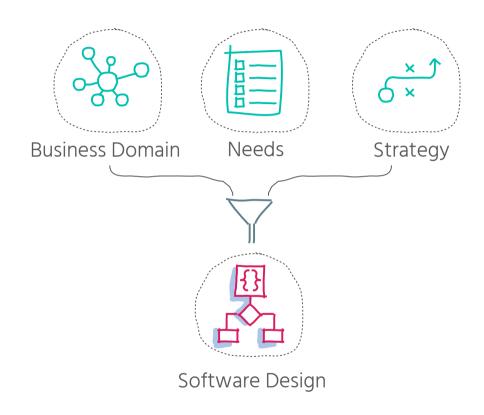
3 Perspectives to Build Adaptive Systems



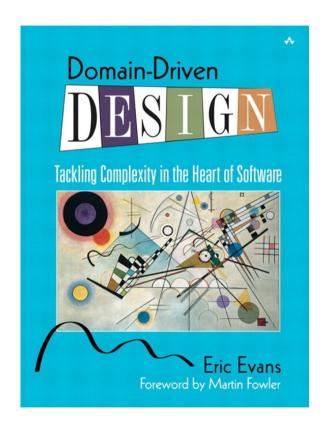


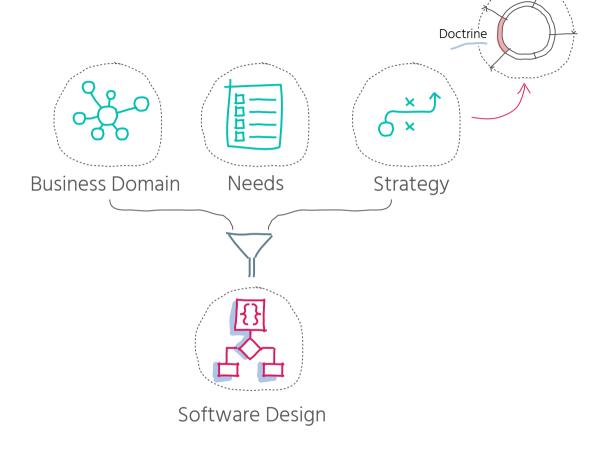
Domain-Driven Design (DDD)



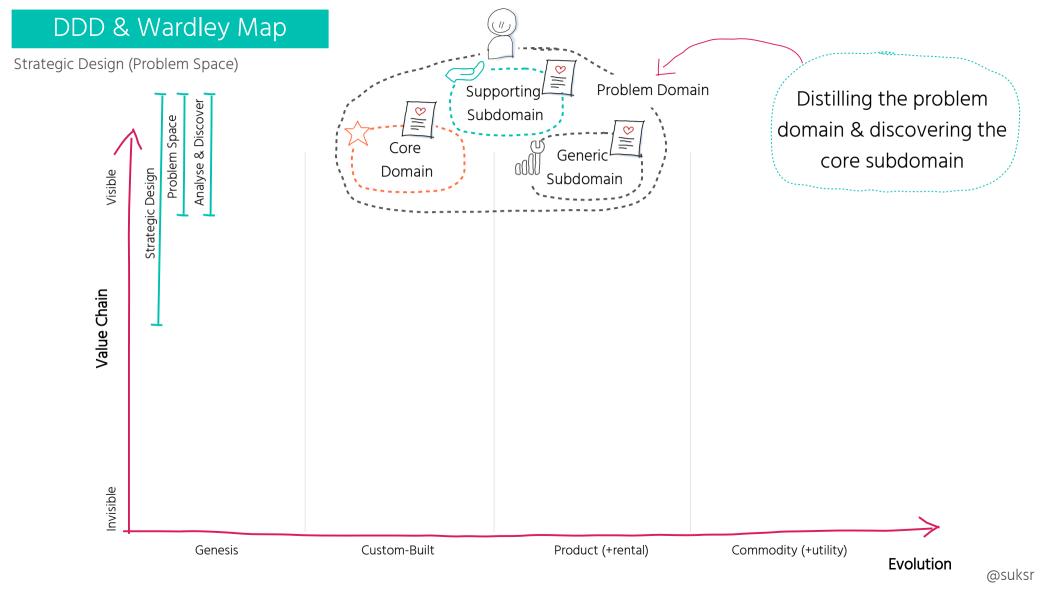


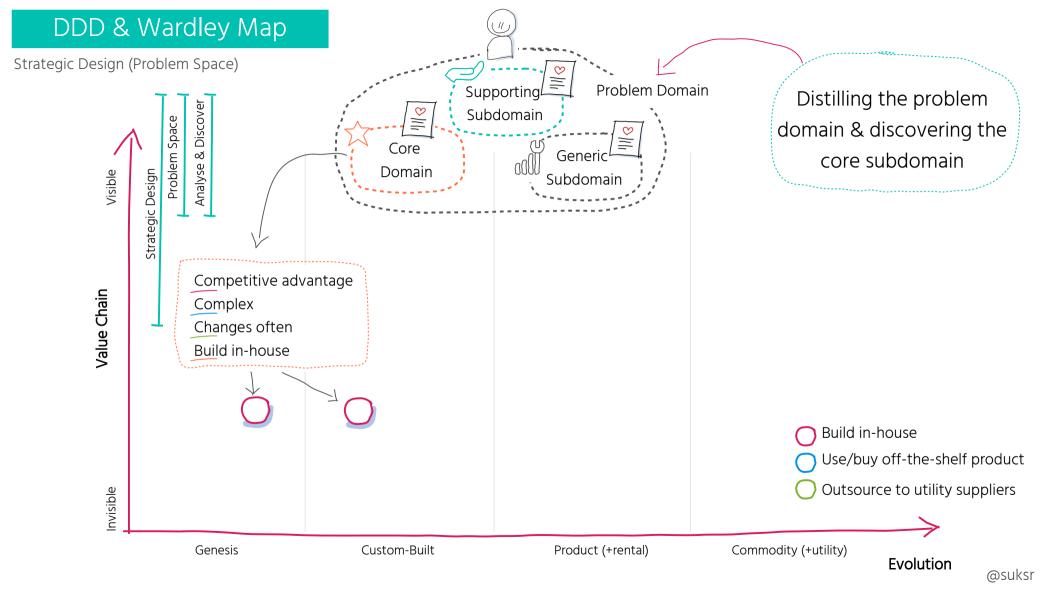
Domain-Driven Design (DDD)

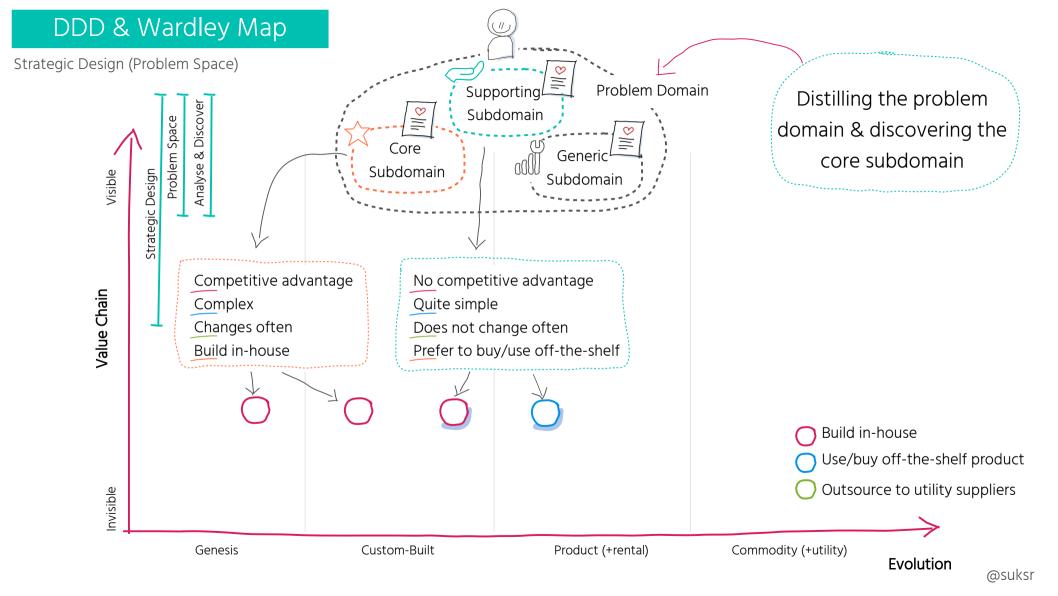


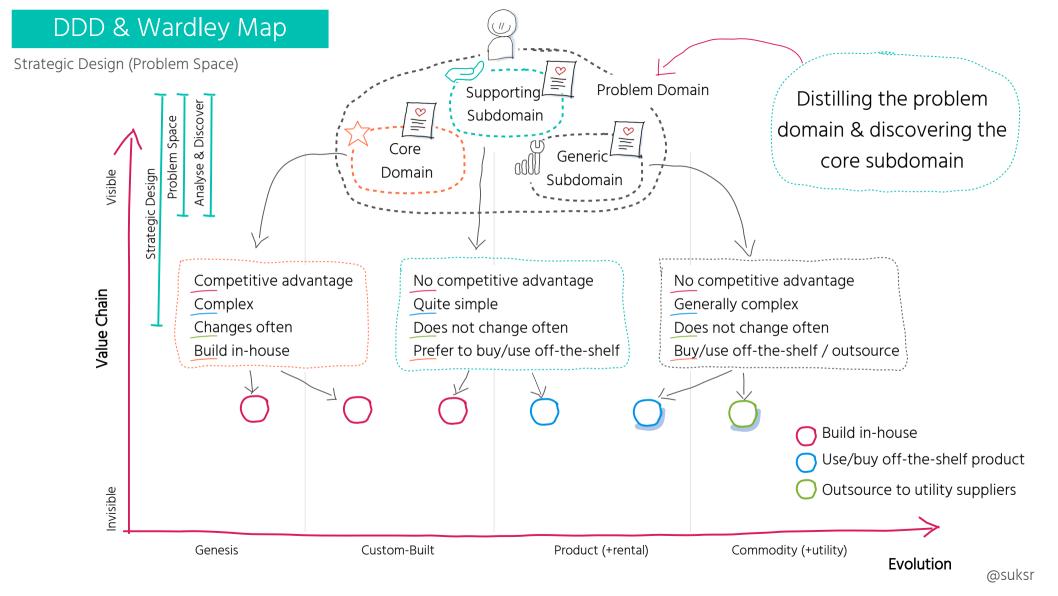


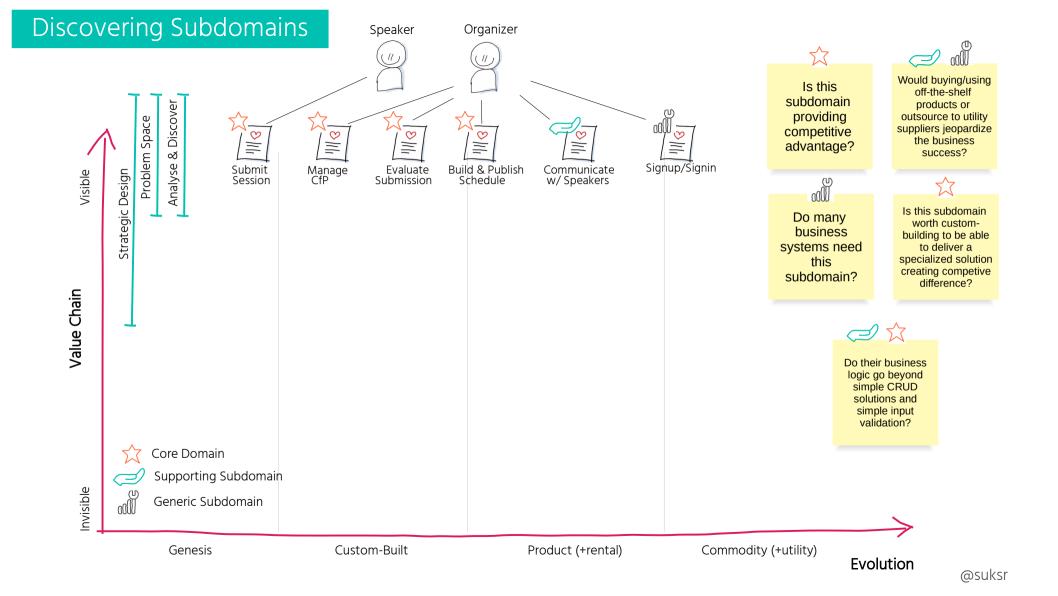
Domain-Driven Design (DDD) **Problem Domain** Collaboration Domain Development Experts Teams <u>⊗</u> <u>></u> **⊗** Domain Knowledge Understanding the problem domain first before solving it Ubiquitous Language

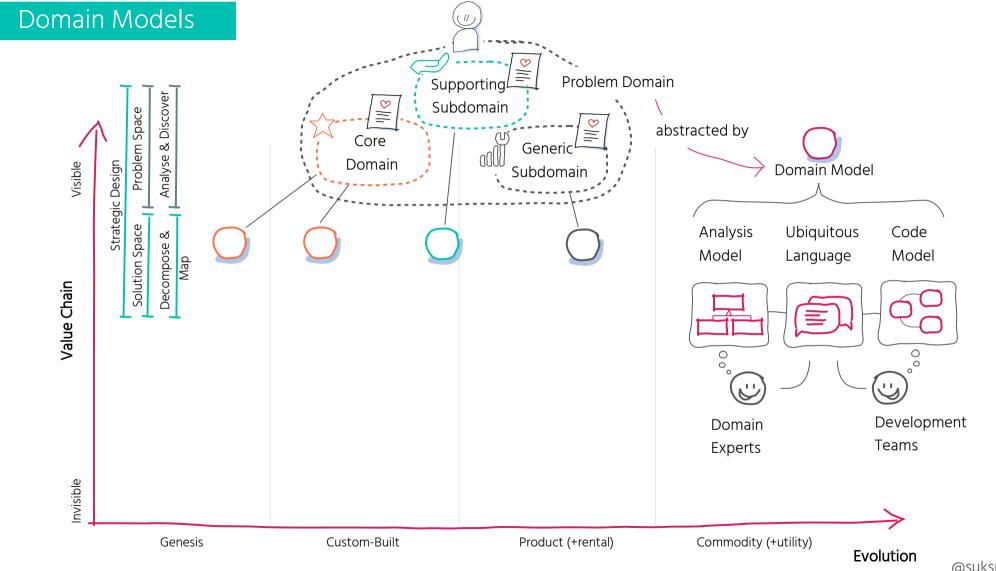


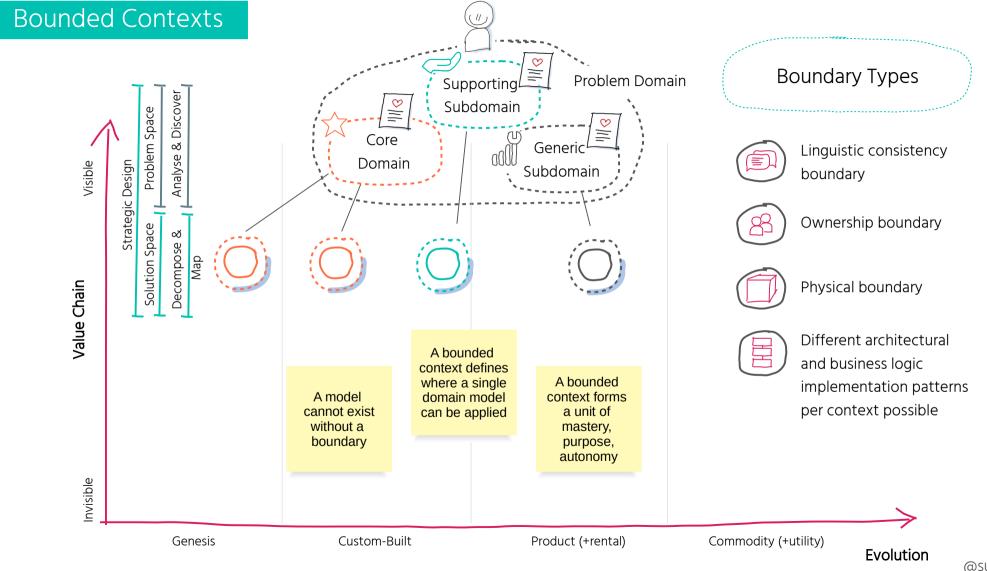


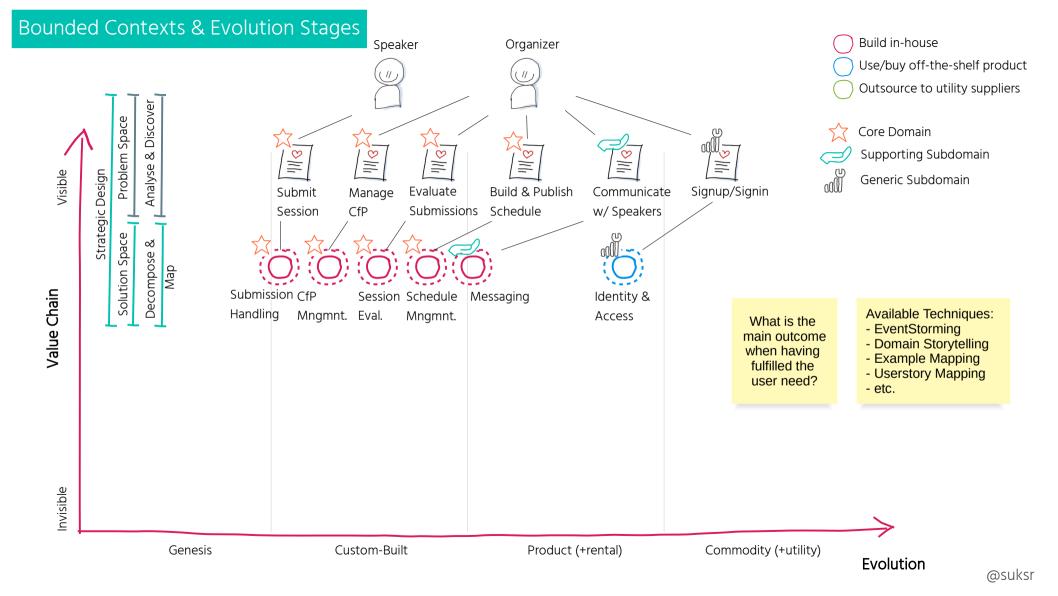


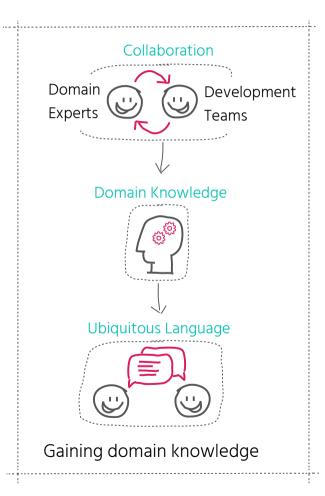


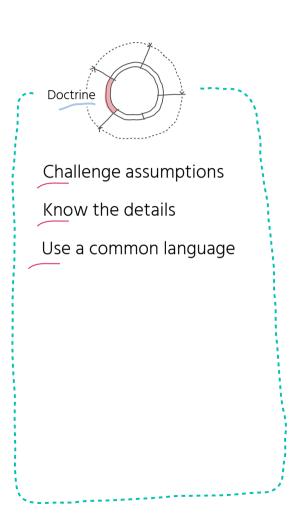


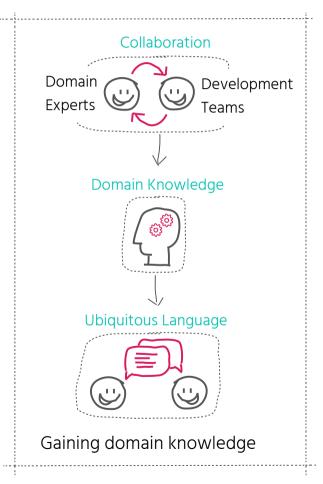


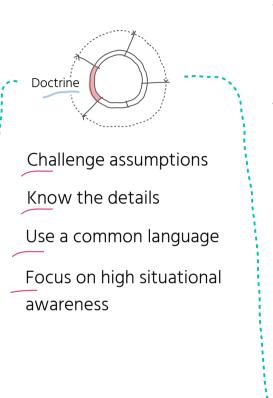




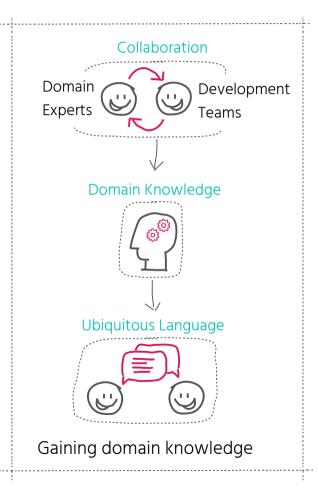


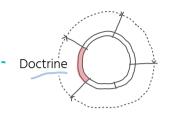












Challenge assumptions

Know the details

Use a common language

Focus on high situational awareness

Think small (as in contracts)

Provide purpose, mastery, and autonomy



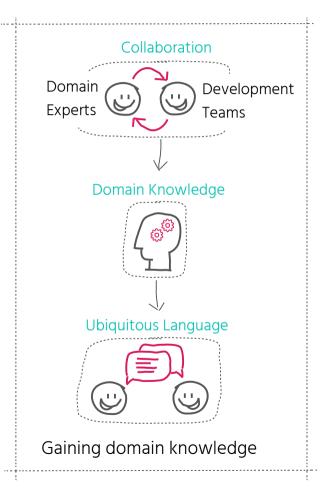
Discovering the core domain

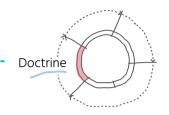
Decomposing into modular components (Bounded Contexts)











Challenge assumptions

Know the details

Use a common language

Focus on high situational awareness

Think small (as in contracts)

Provide purpose, mastery, and autonomy

Use appropriate methods



Discovering the core domain

Decomposing into modular components (Bounded Contexts)



Subdomain categories can be mapped to evolution stages



Conway's Law

"Any organization that designs a system [...] will produce a design whose structure is a copy of the organization's communication structure."

Melvin Conway

To optimize for flow of change requires ...

cross-functional, autonomous teams

no handover between teams

restricting communication between teams





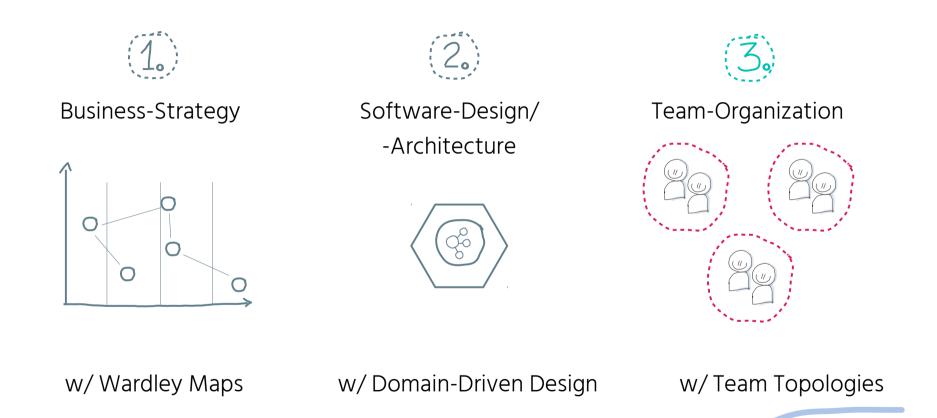


small, long-lived teams

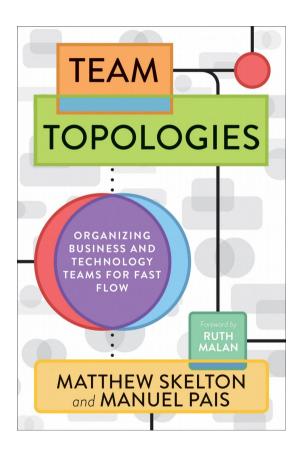
minimizing cognitive load

team ownership

3 Perspectives to Build Adaptive Systems

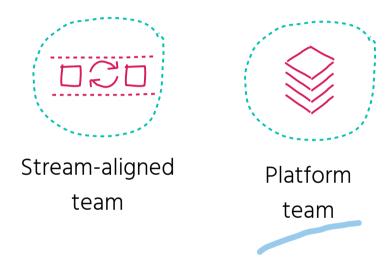


Team Topologies



"Overall, the Team Topologies approach advocates for organization design that optimizes for flow of change and feedback from running systems."









Stream-aligned team



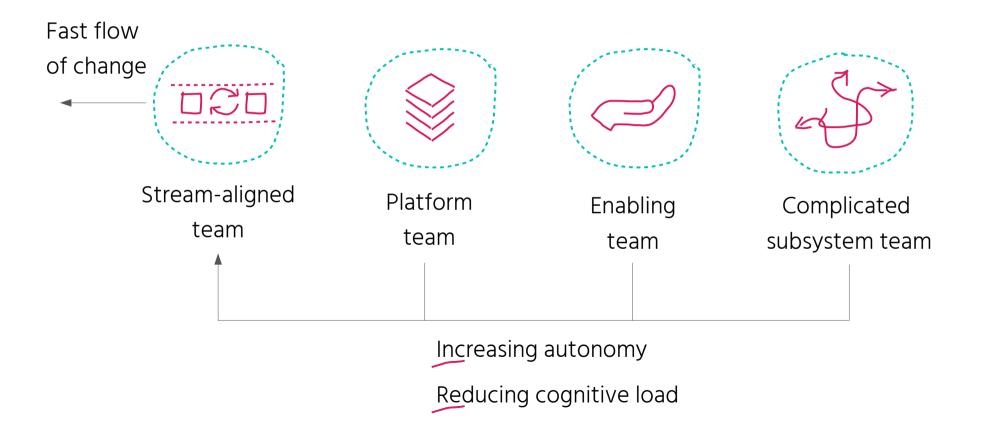
Platform team



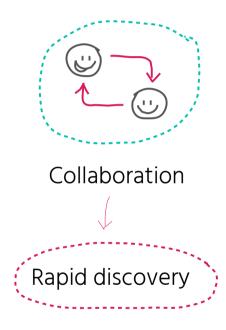
Enabling team



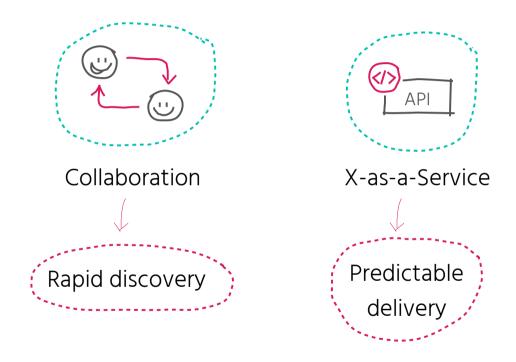
Complicated subsystem team



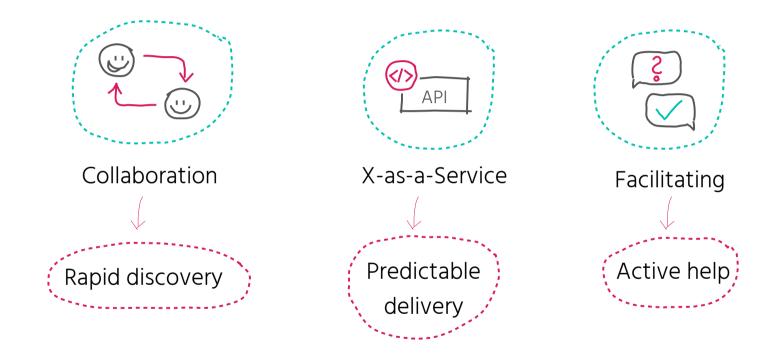
Three Interaction Modes

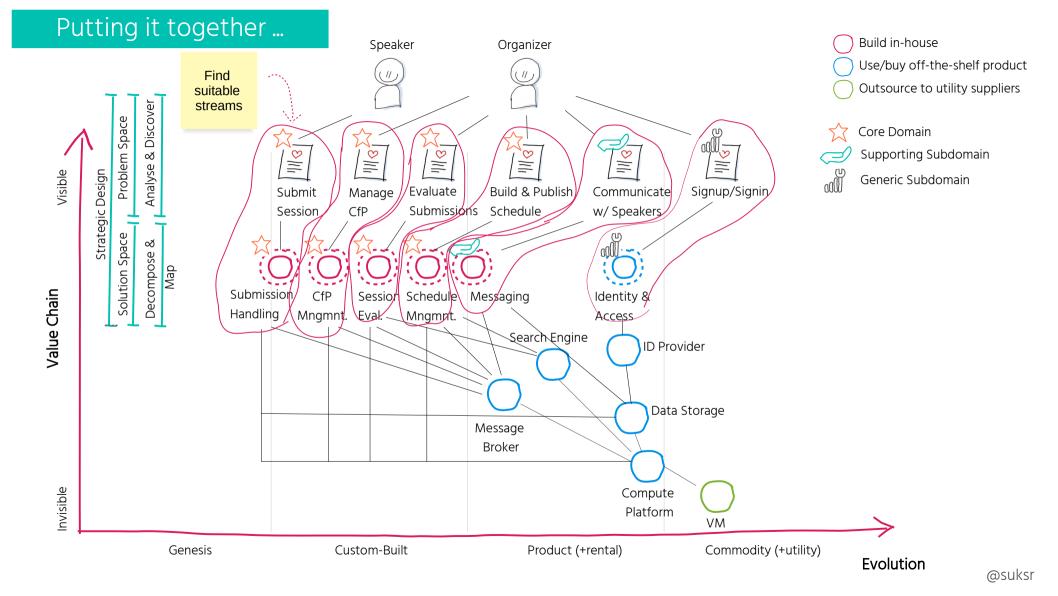


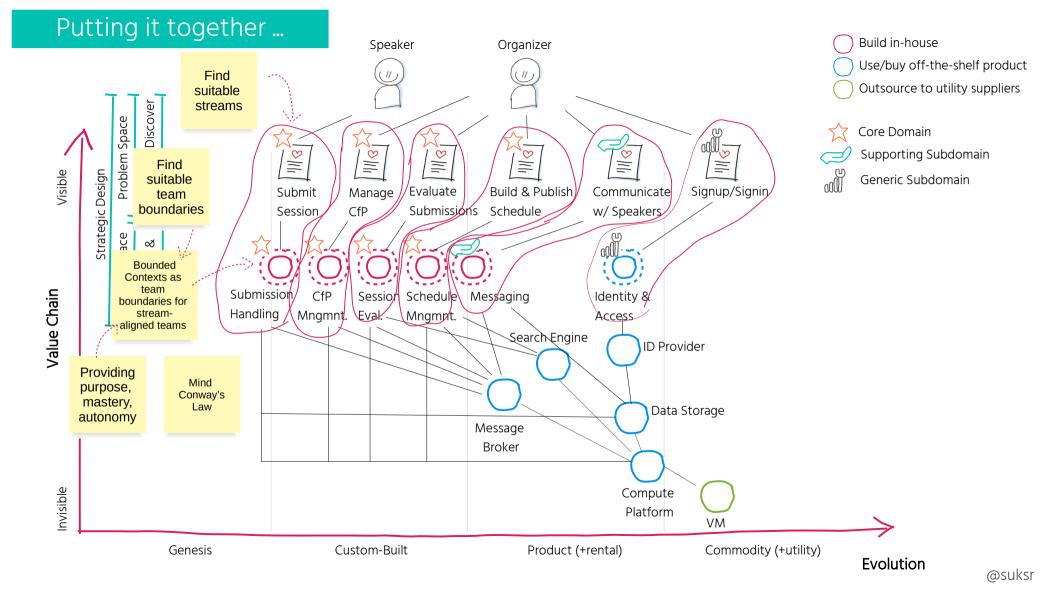
Three Interaction Modes

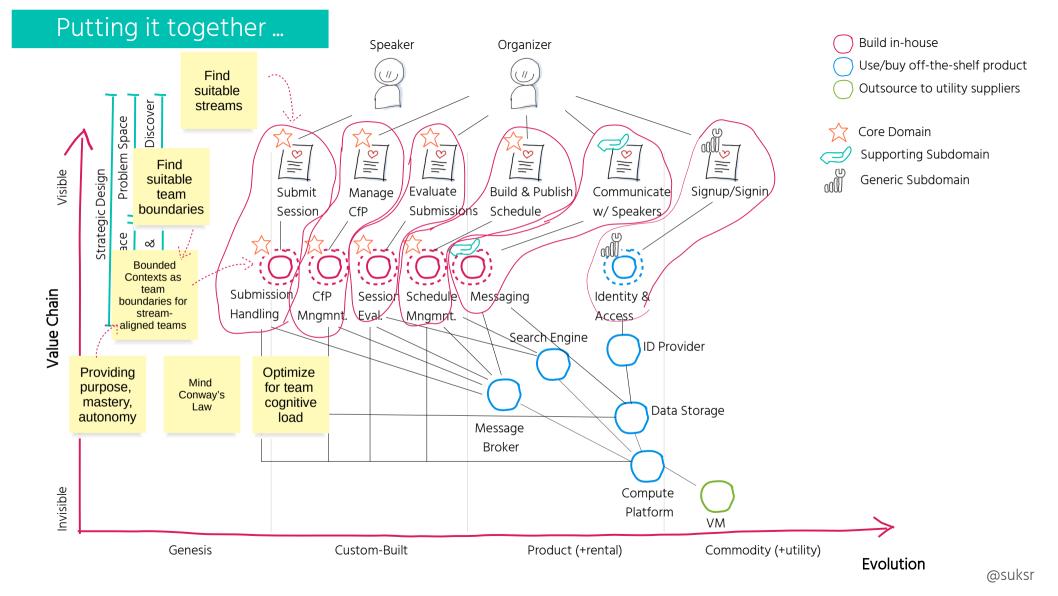


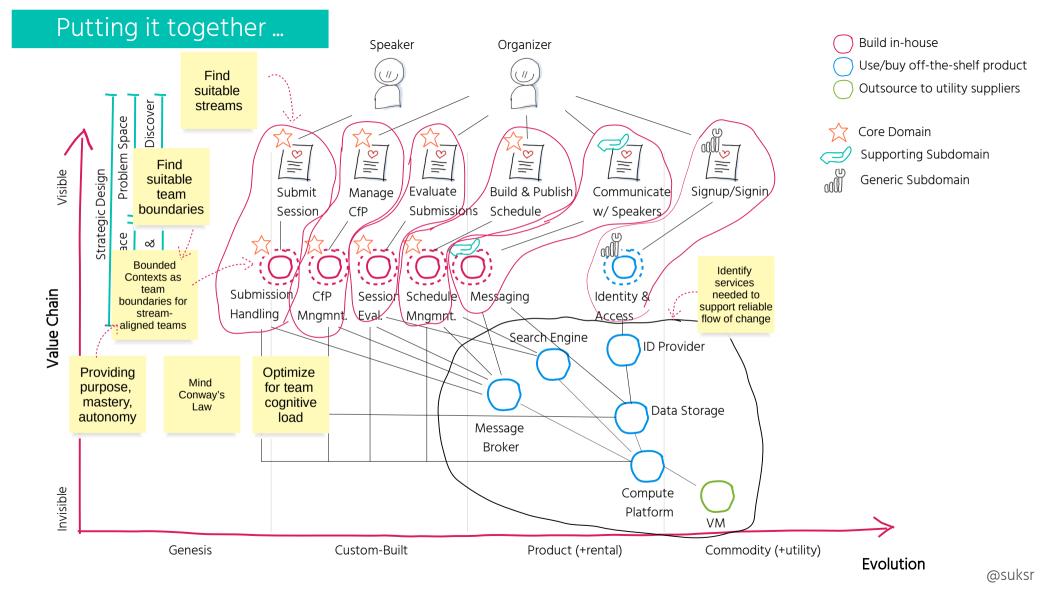
Three Interaction Modes

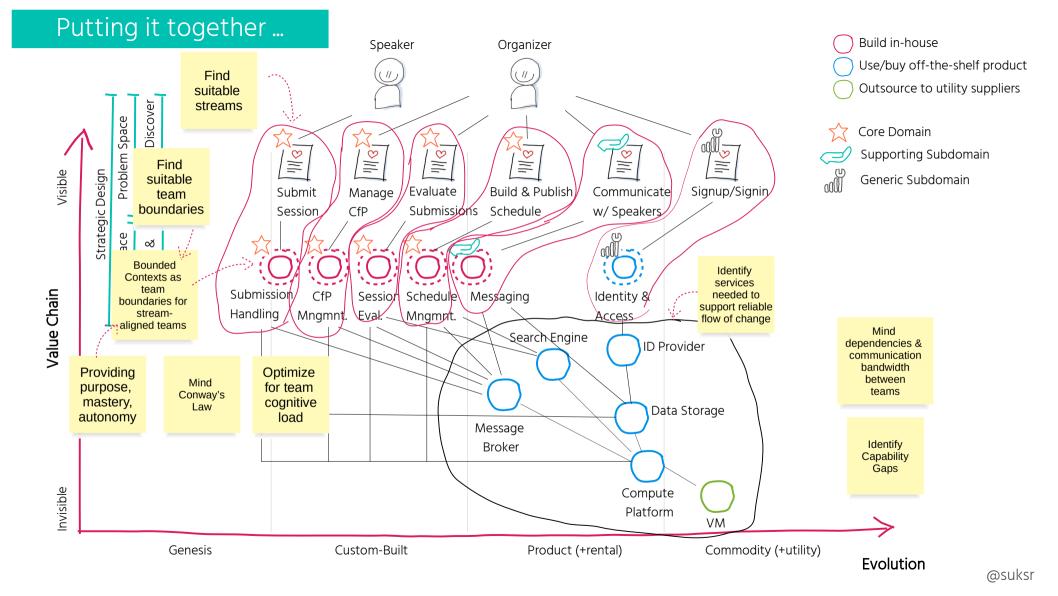


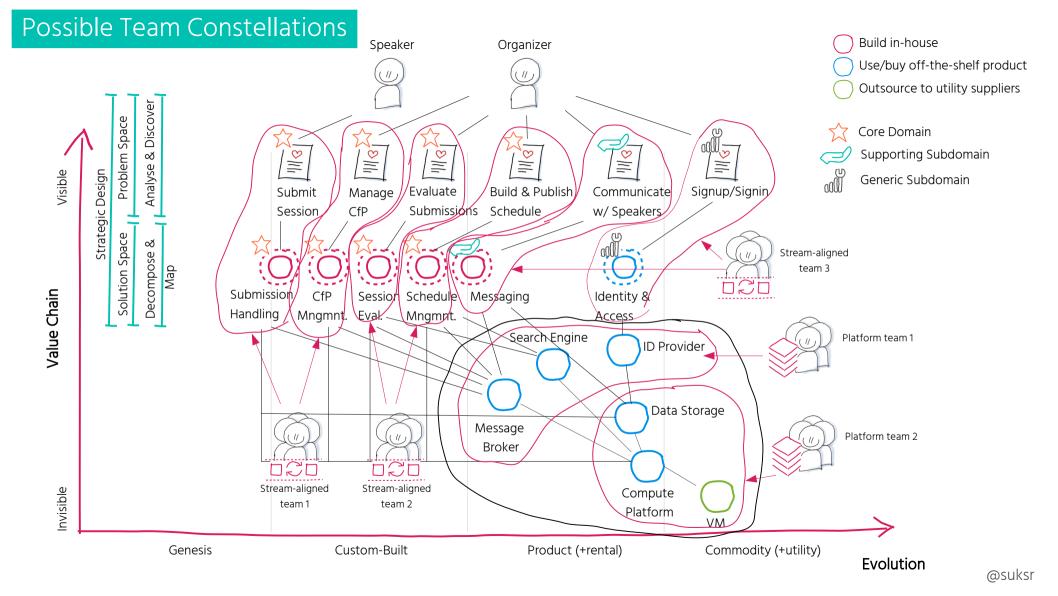


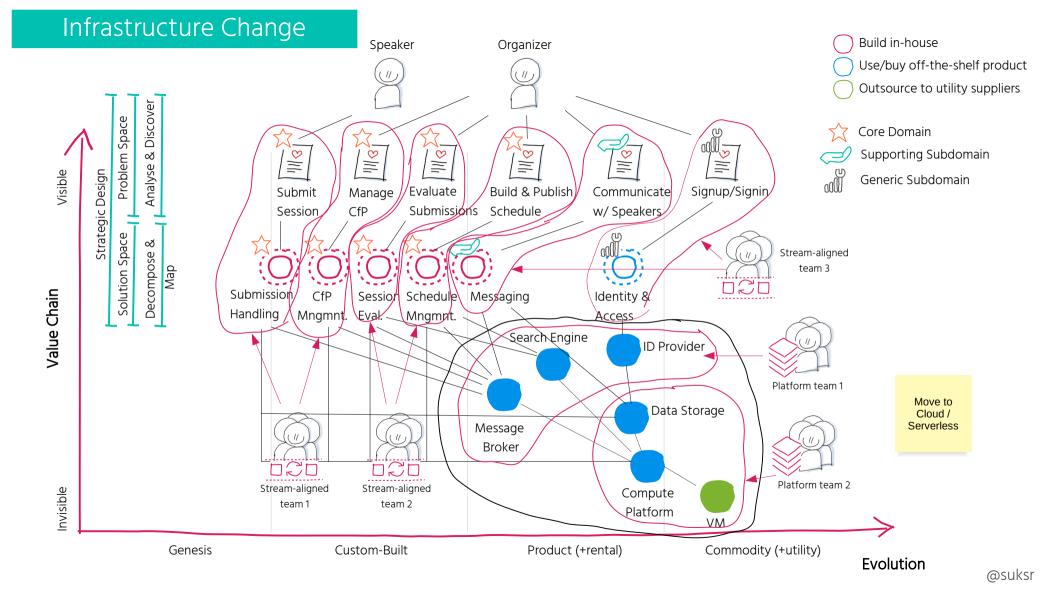


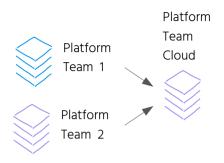


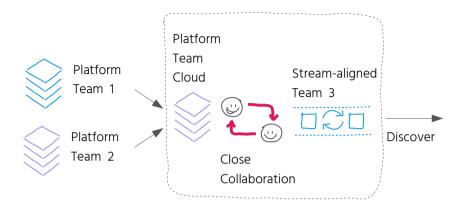


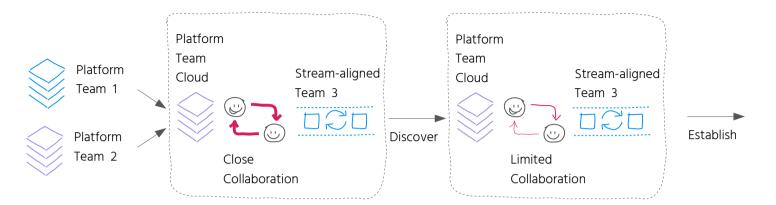


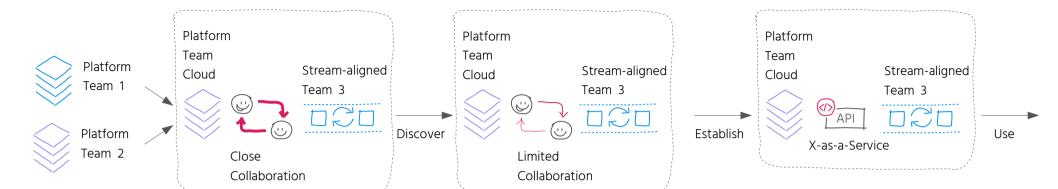


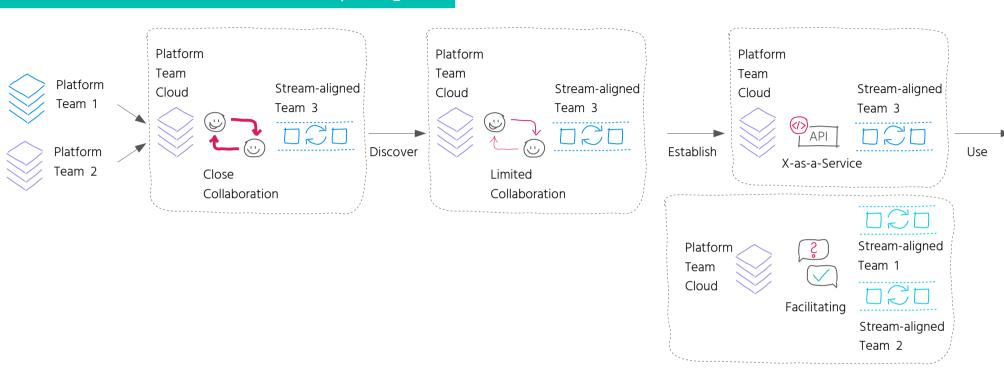




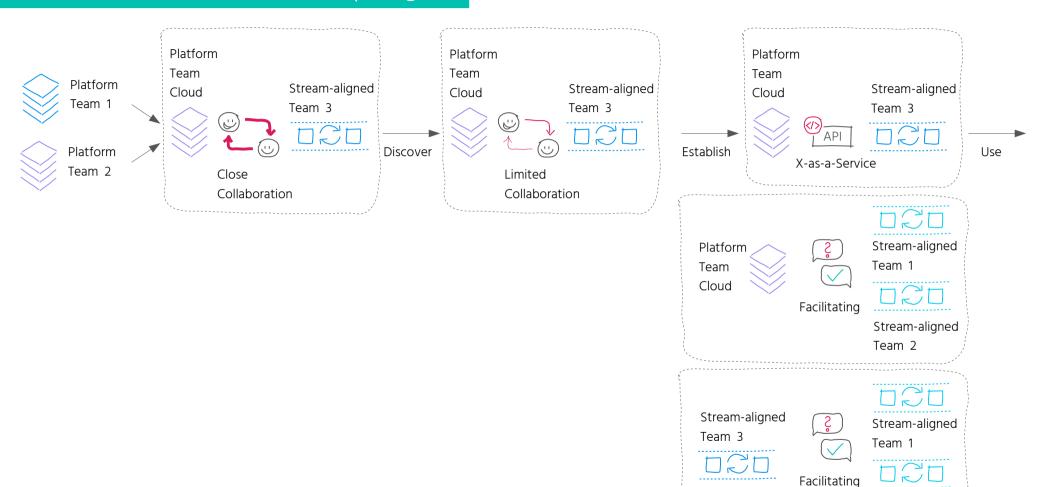








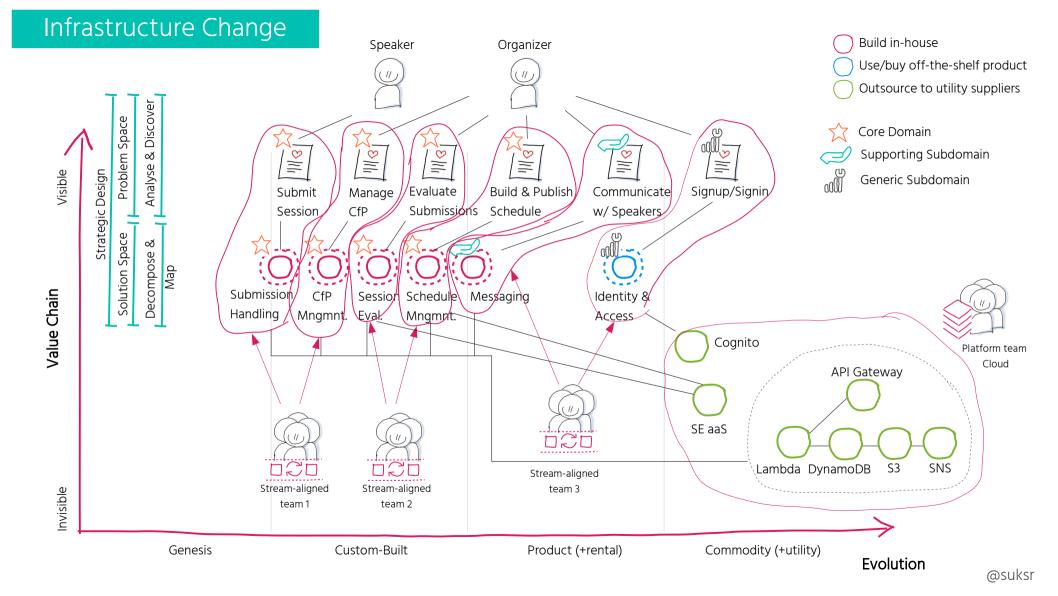




Stream-aligned

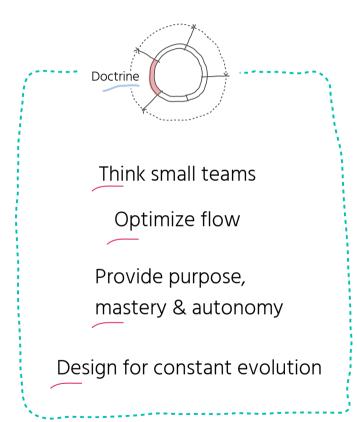
Team 2

@suksr

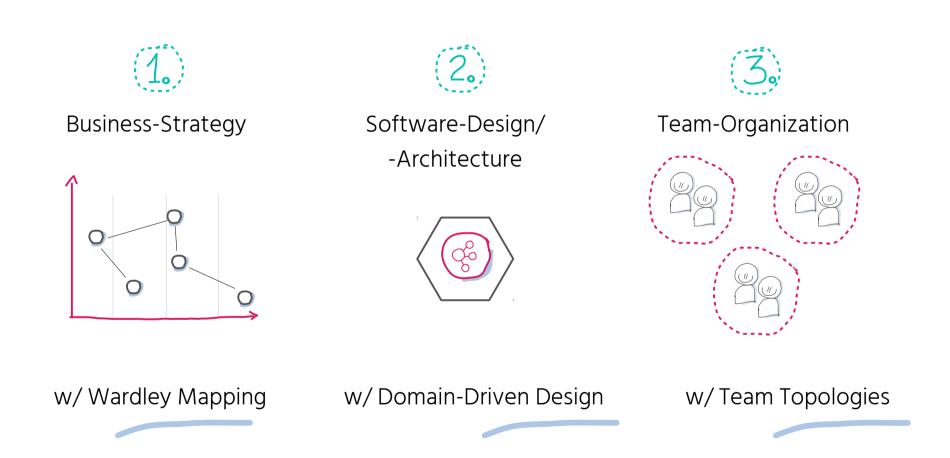




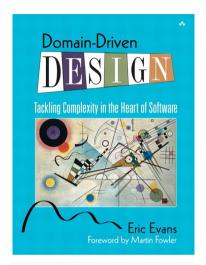
Team Topologies & Doctrine



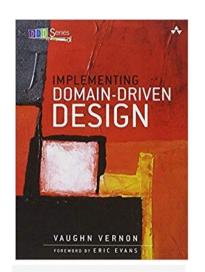
Building Adaptive Systems for a Fast Flow of Change

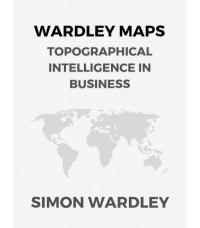


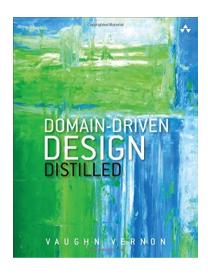
Some References

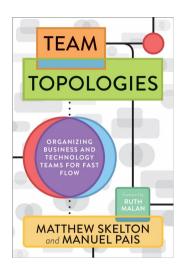












https://medium.com/wardleymaps

https://learnwardleymapping.com/

https://github.com/wardley-maps-community/awesome-

wardley-maps

https://githup.com/ddd-crew

https://www.dddheuristics.com

THANK YOU

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