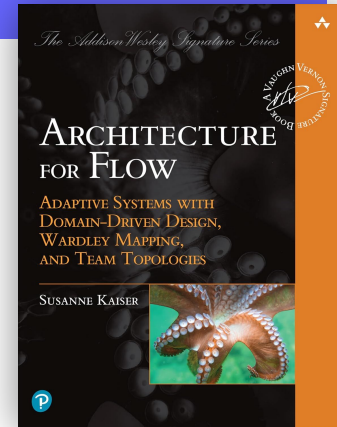


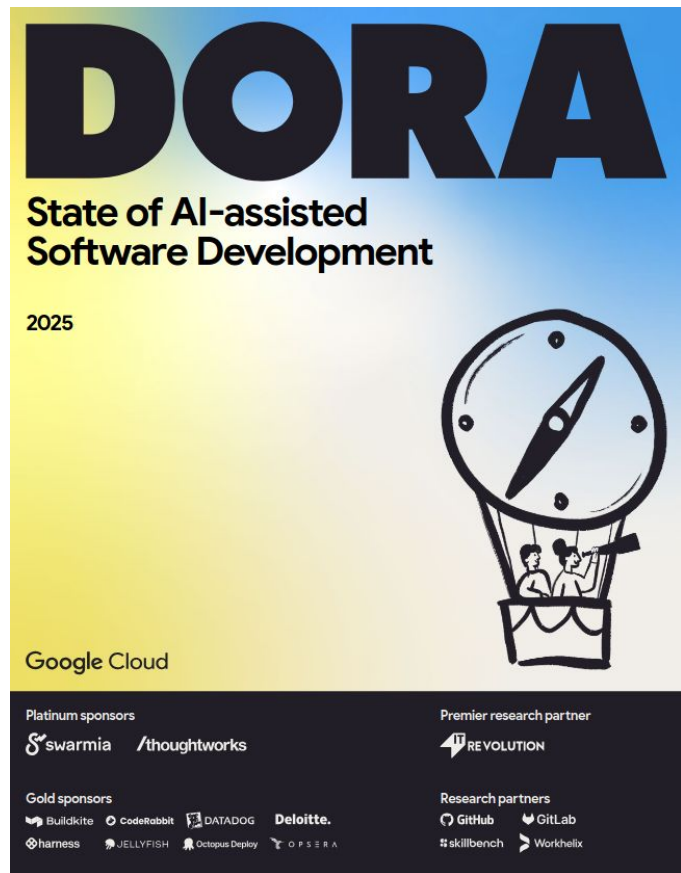
Architecture for Flow

Building Foundations for Continuous Change

Susanne Kaiser
Independent Tech Consultant
Author of "Architecture for Flow"



AI Makes Good Better and Bad Worse



AI amplifies
existing flow

AI exposes brittle
processes and
frictions

AI Doesn't Fix Your Bottlenecks

More work piling up

If underlying system does not evolve

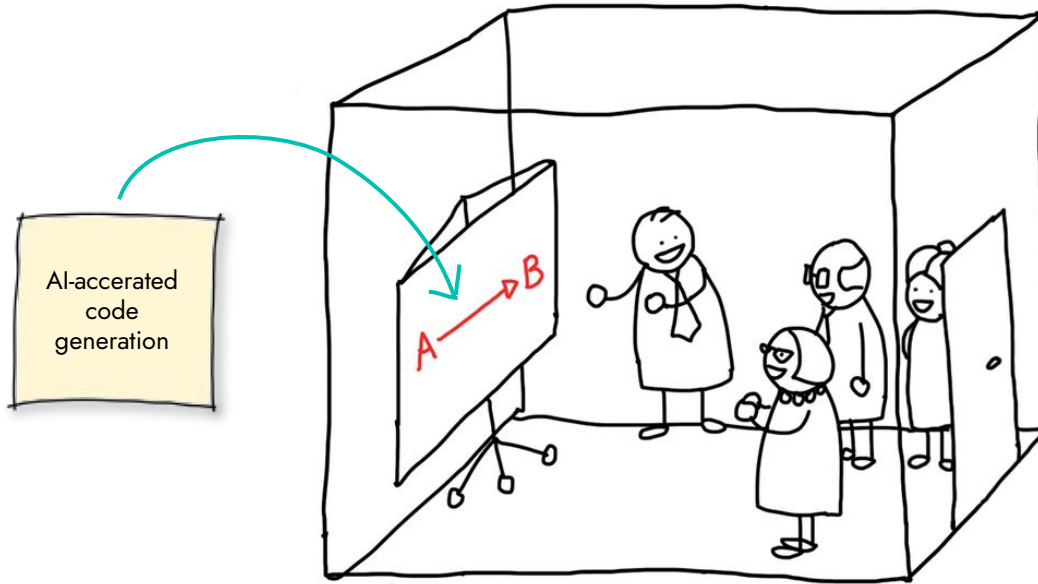
Decreased software delivery performance

Increased instability

Image Source: Zootopia



Accelerating one part ...

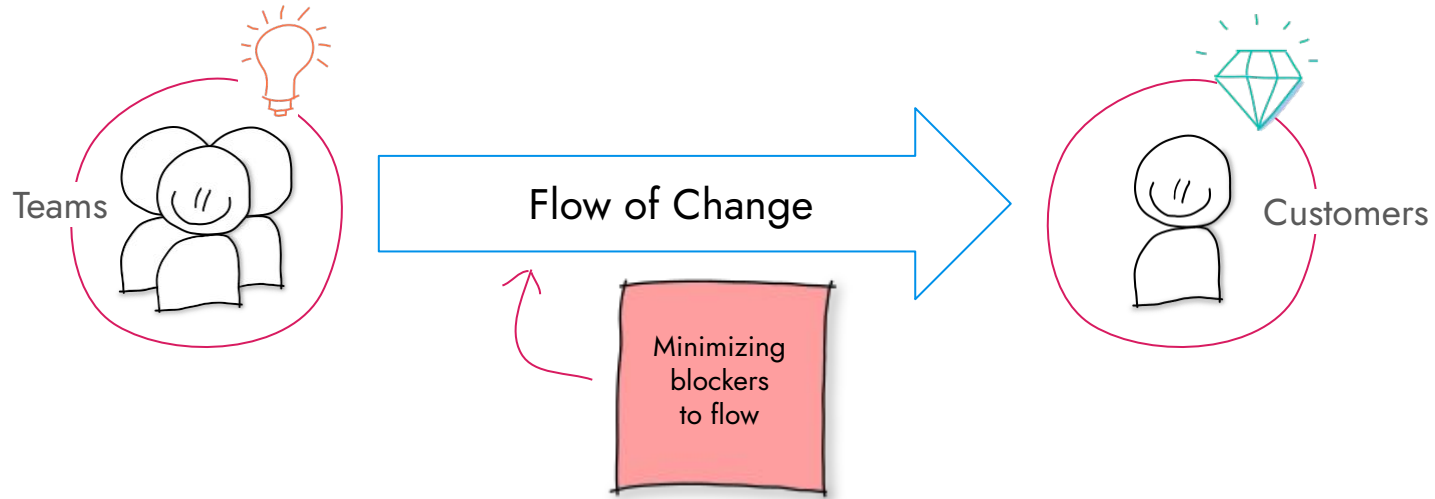


Theory of Constraints

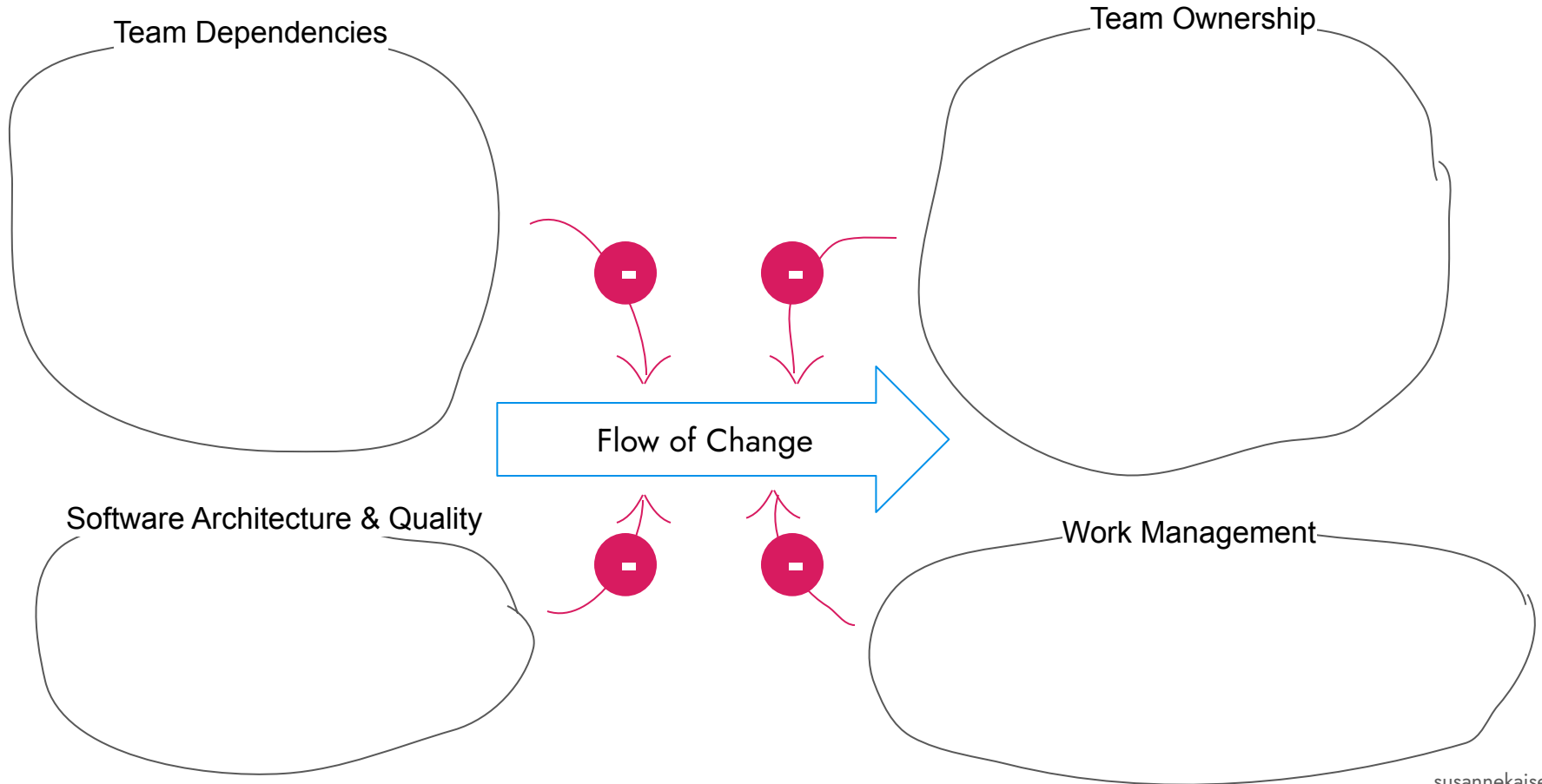
"Any improvement made
anywhere besides the
bottleneck is an illusion."

Eliyahu M. Goldratt

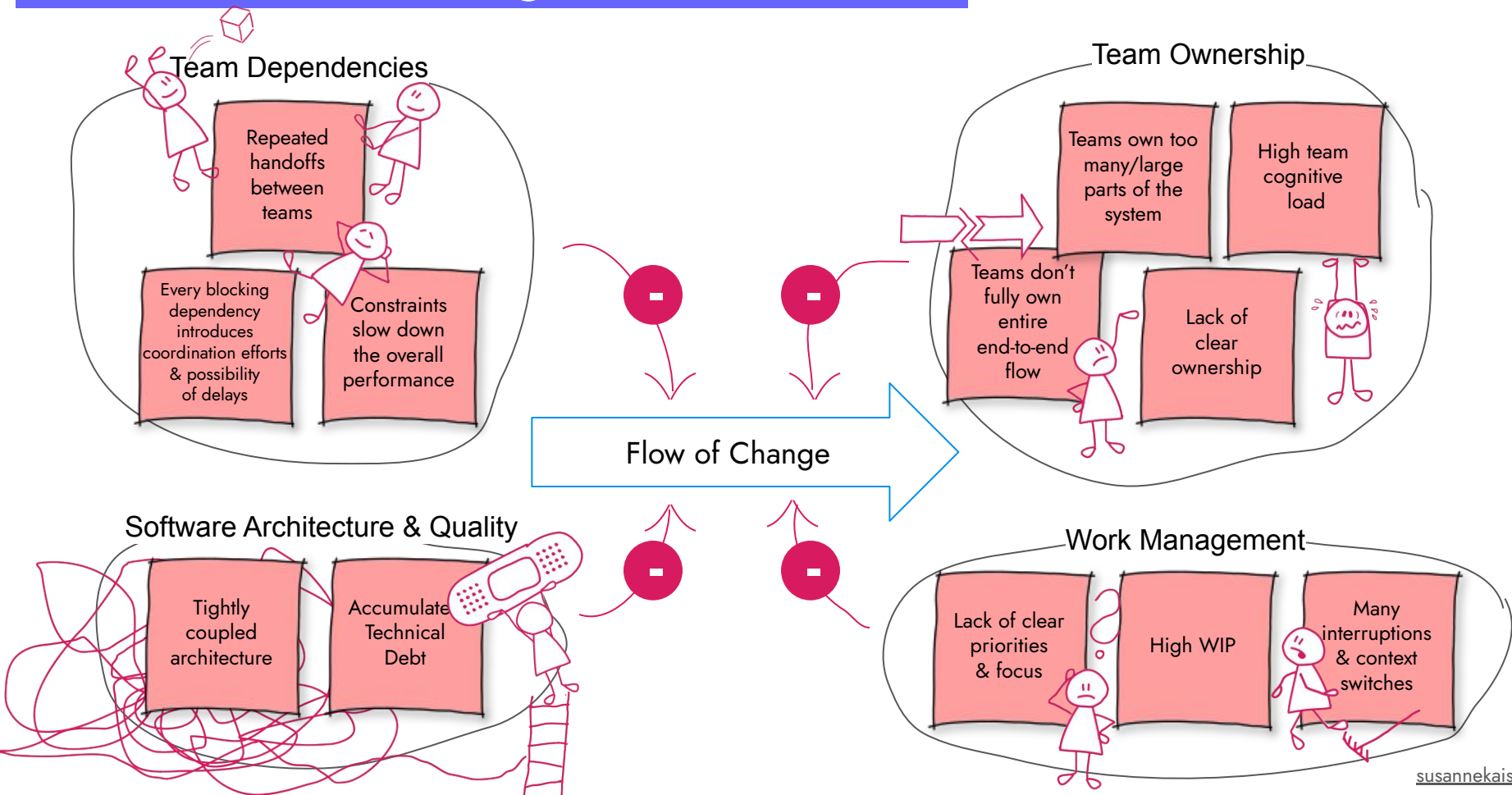
"Focus on flow, not just speed"



What is Preventing Flow? (Examples)

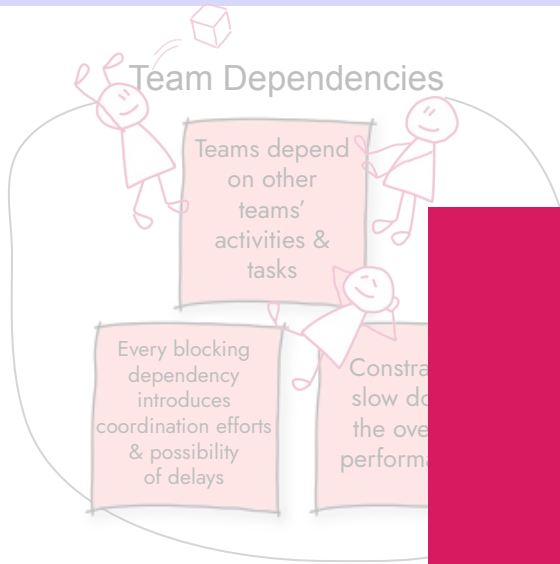


What is Preventing Flow? (Examples)

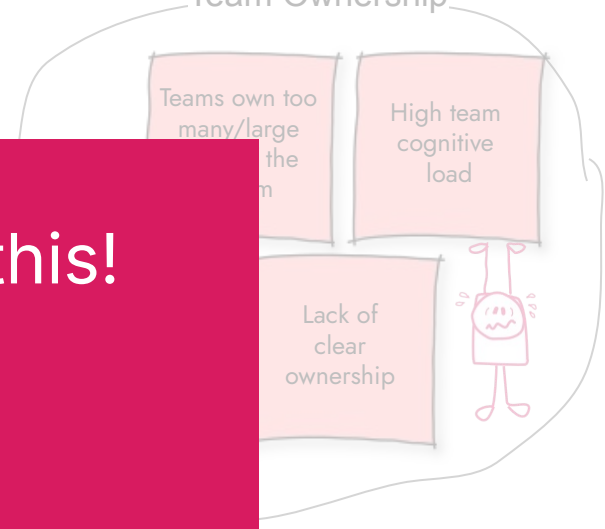


What is Preventing Flow? (Examples)

Team Dependencies



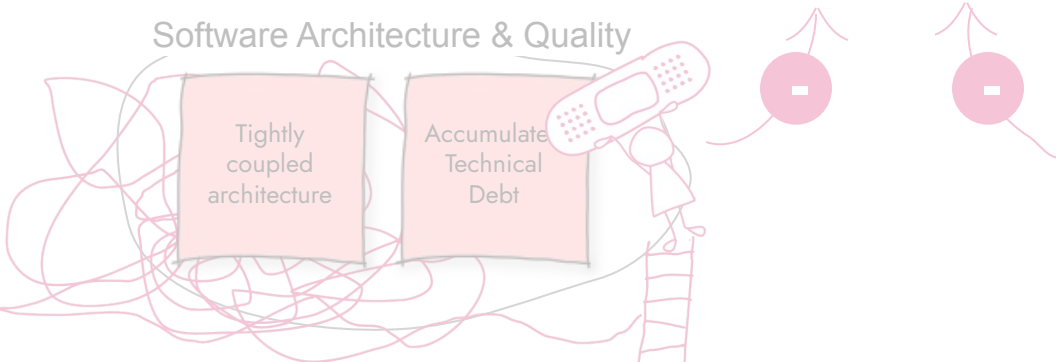
Team Ownership



Now add AI to this!



Software Architecture & Quality

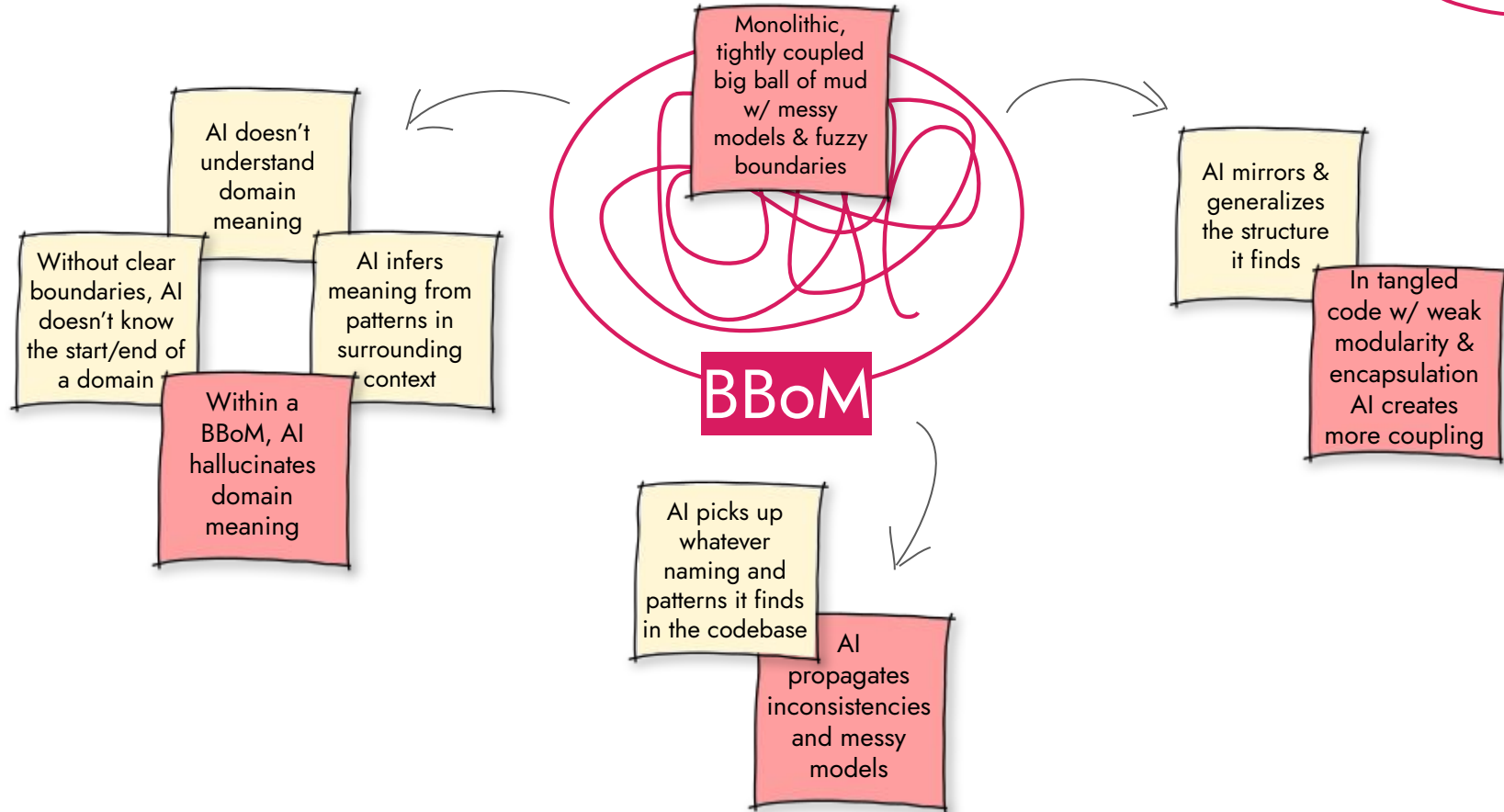


Work Management



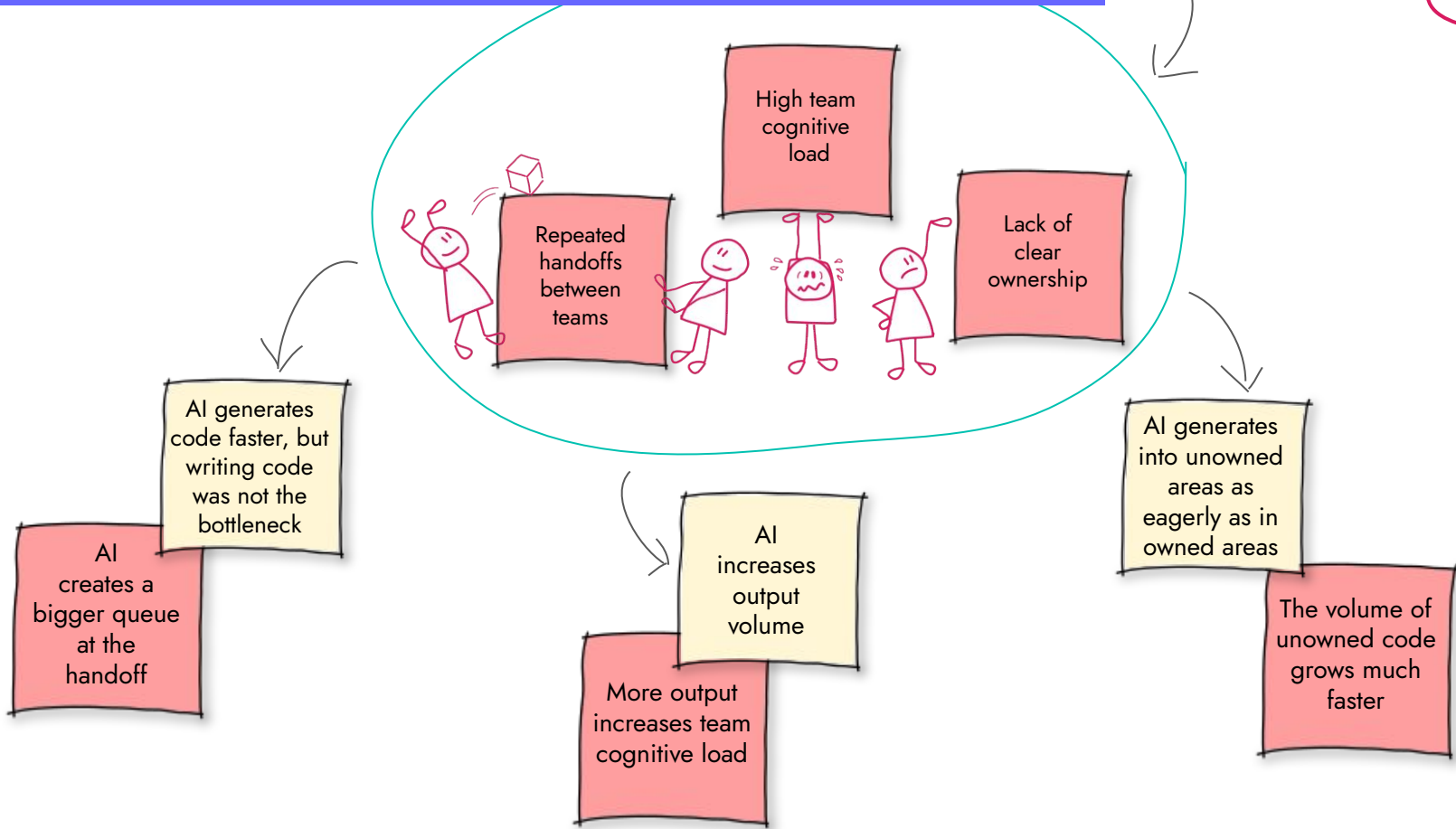
AI Mirrors Structures it Finds

Risks



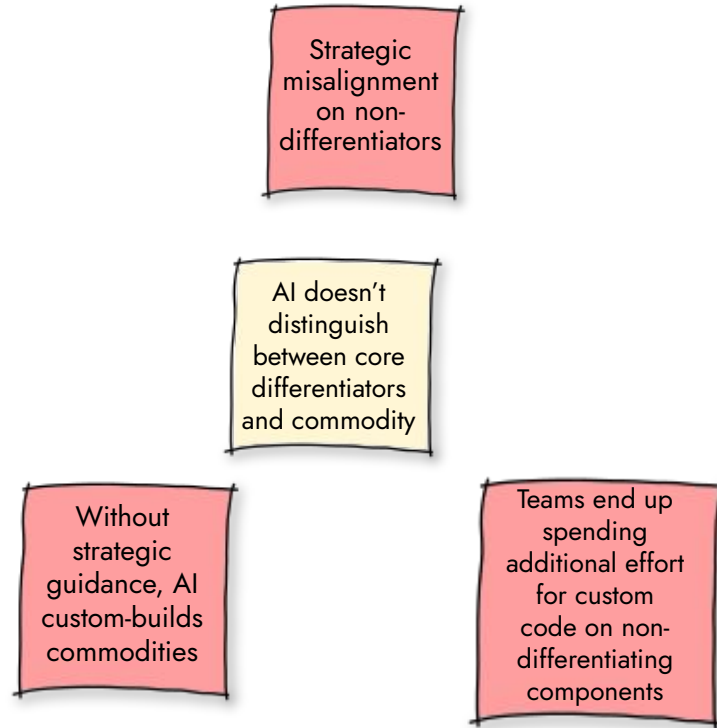
AI Amplifies Organizational Frictions

Risks



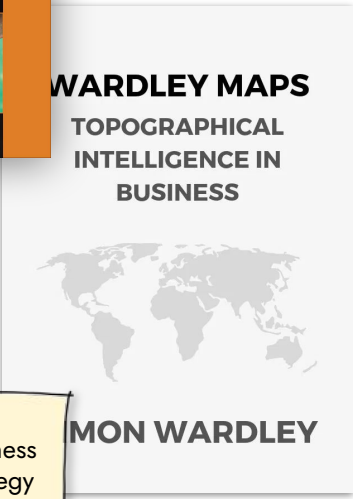
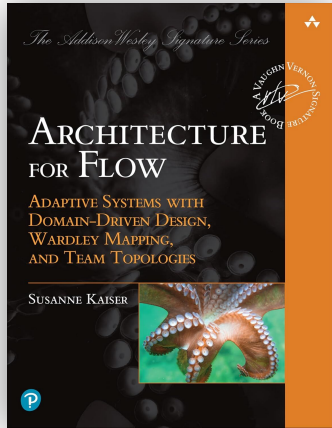
AI will help you to build the wrong things faster

Risks

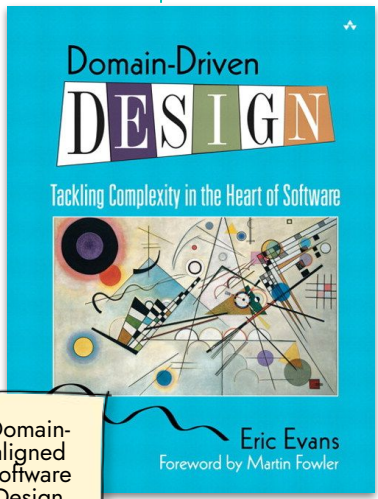


Building Foundations for Continuous Change

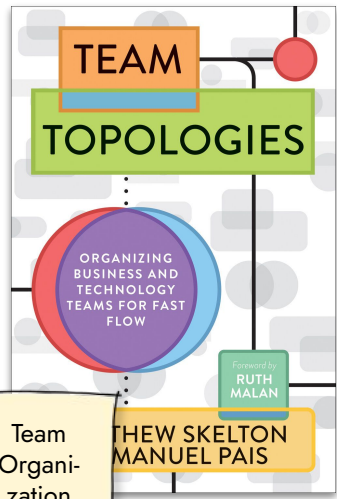
Adaptive, socio-technical systems optimized for a fast flow of value & feedback



Business Strategy



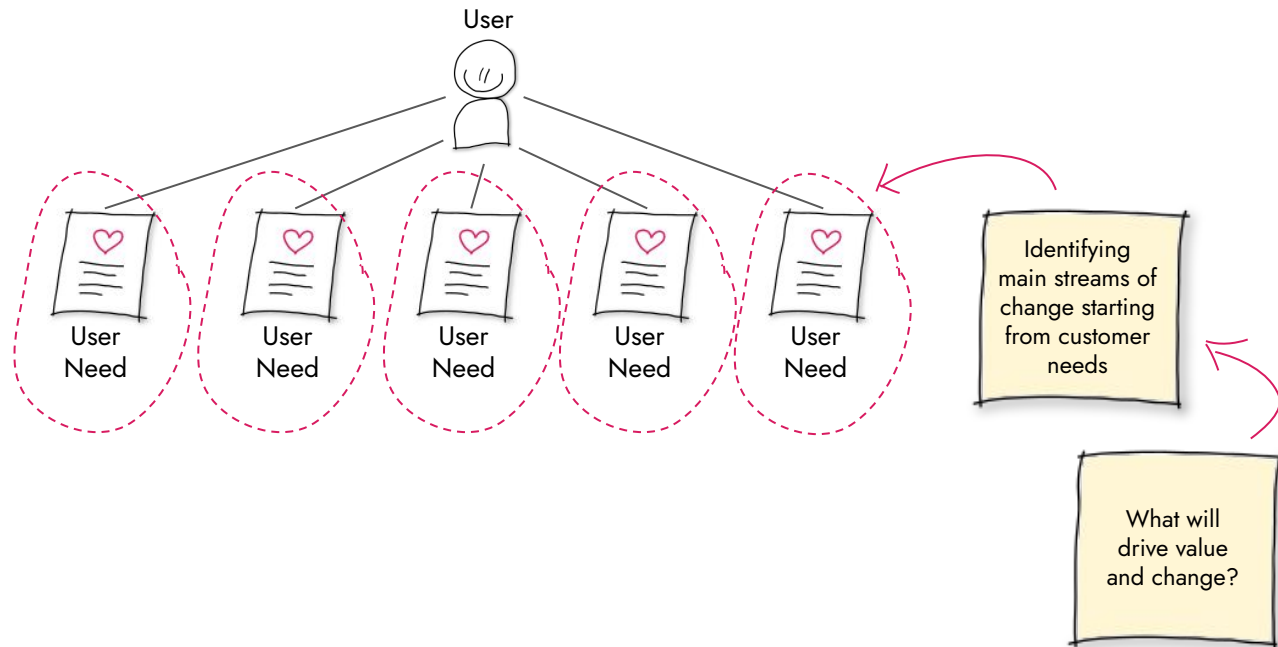
Domain-aligned Software Design



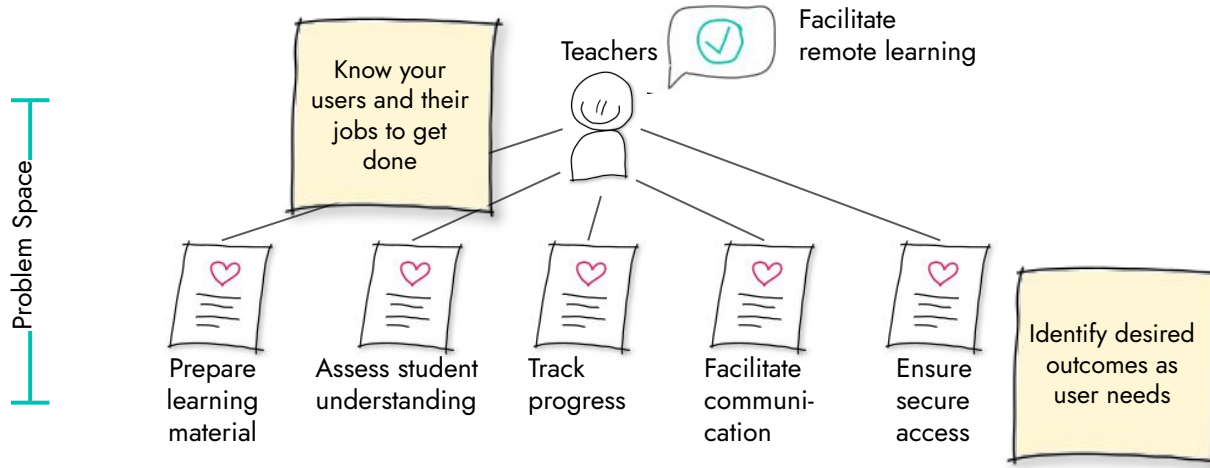
Team Organization



Identifying Streams of Change



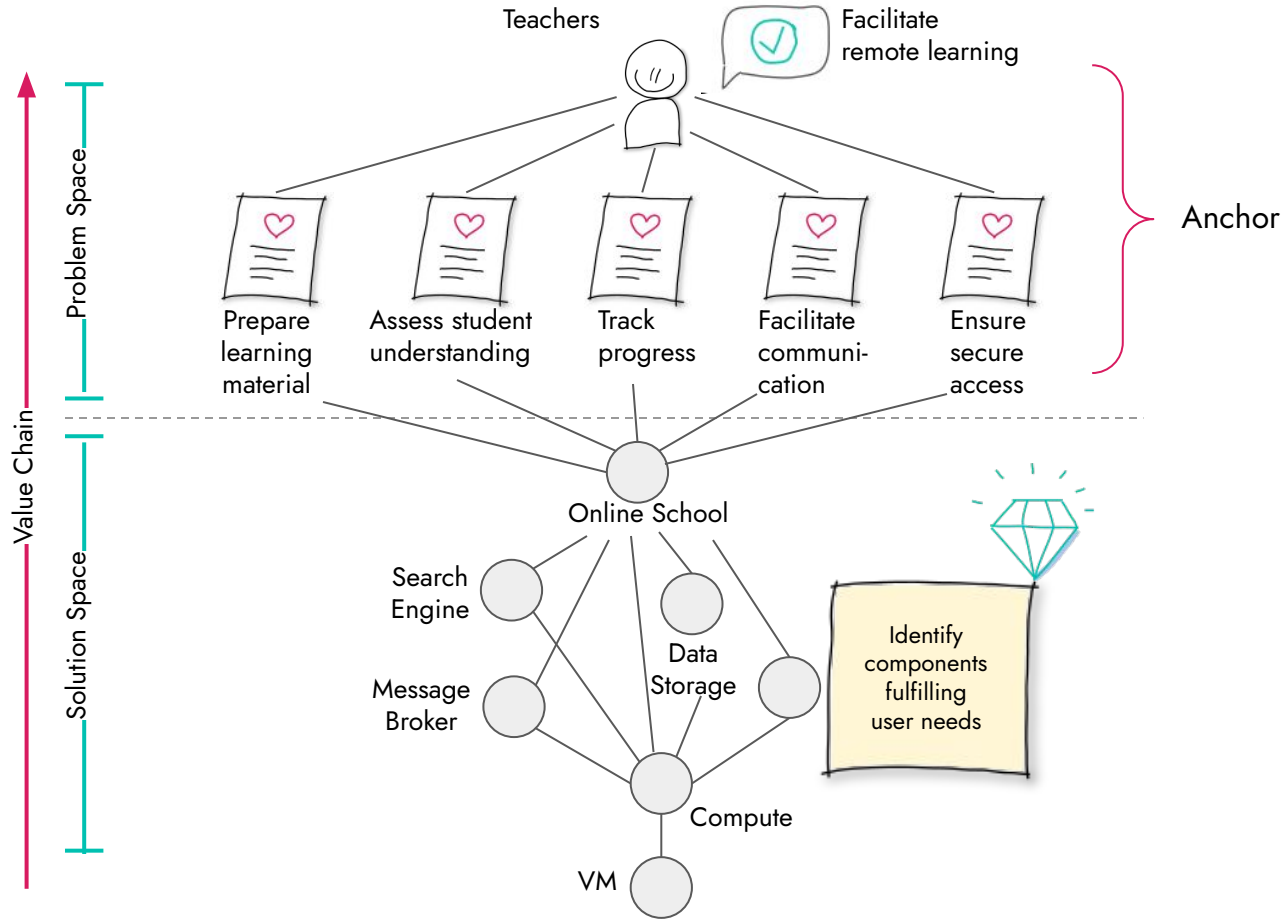
Starting from the User Perspective



"People buy products and services to get a job done."

Clayton Christensen

Understanding the Value Chain

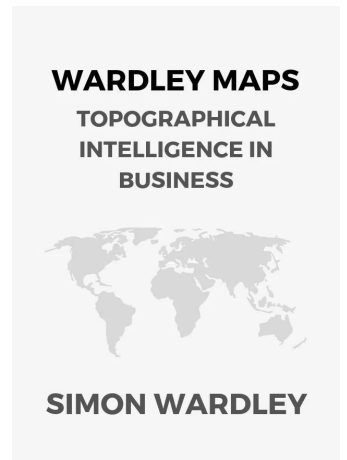
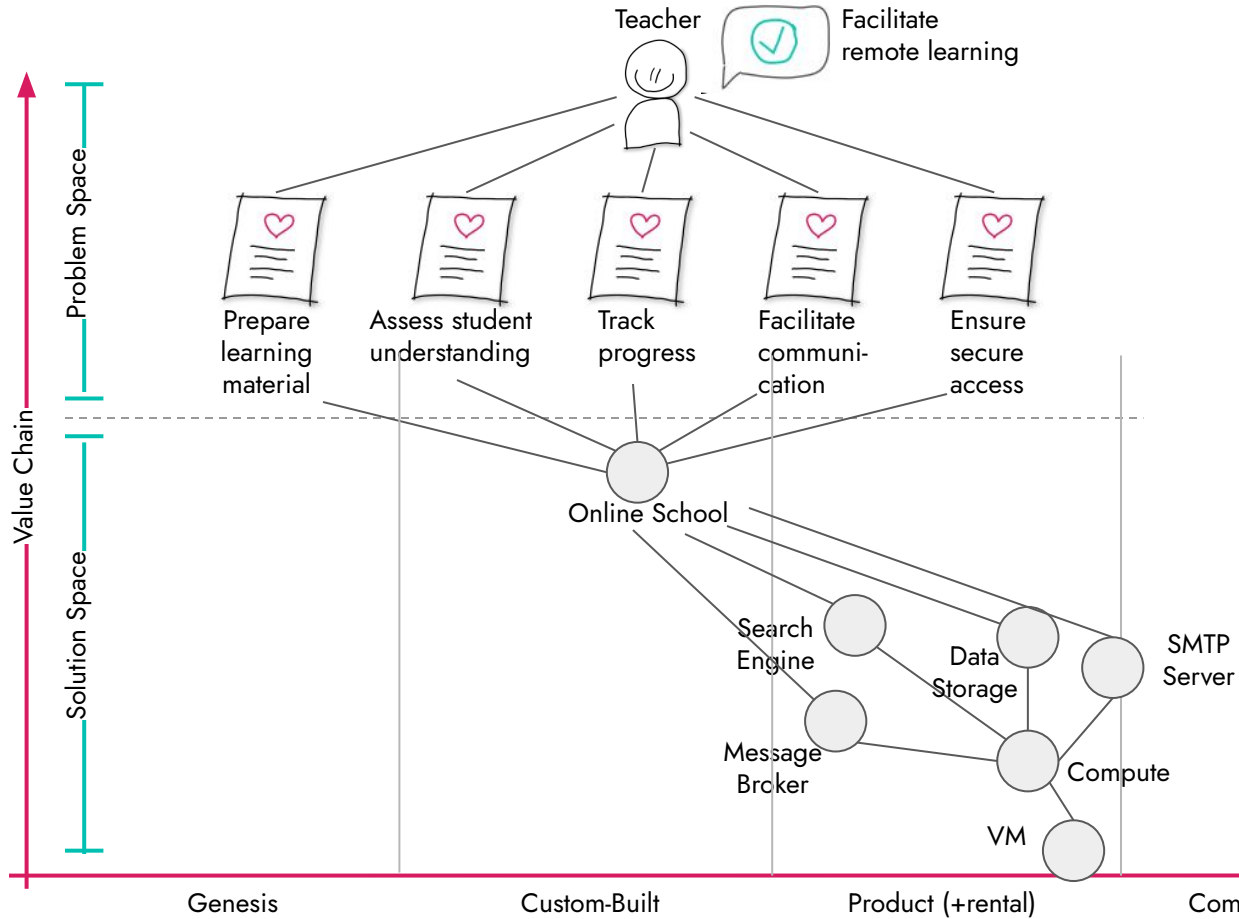


WARDLEY MAPS
TOPOGRAPHICAL
INTELLIGENCE IN
BUSINESS



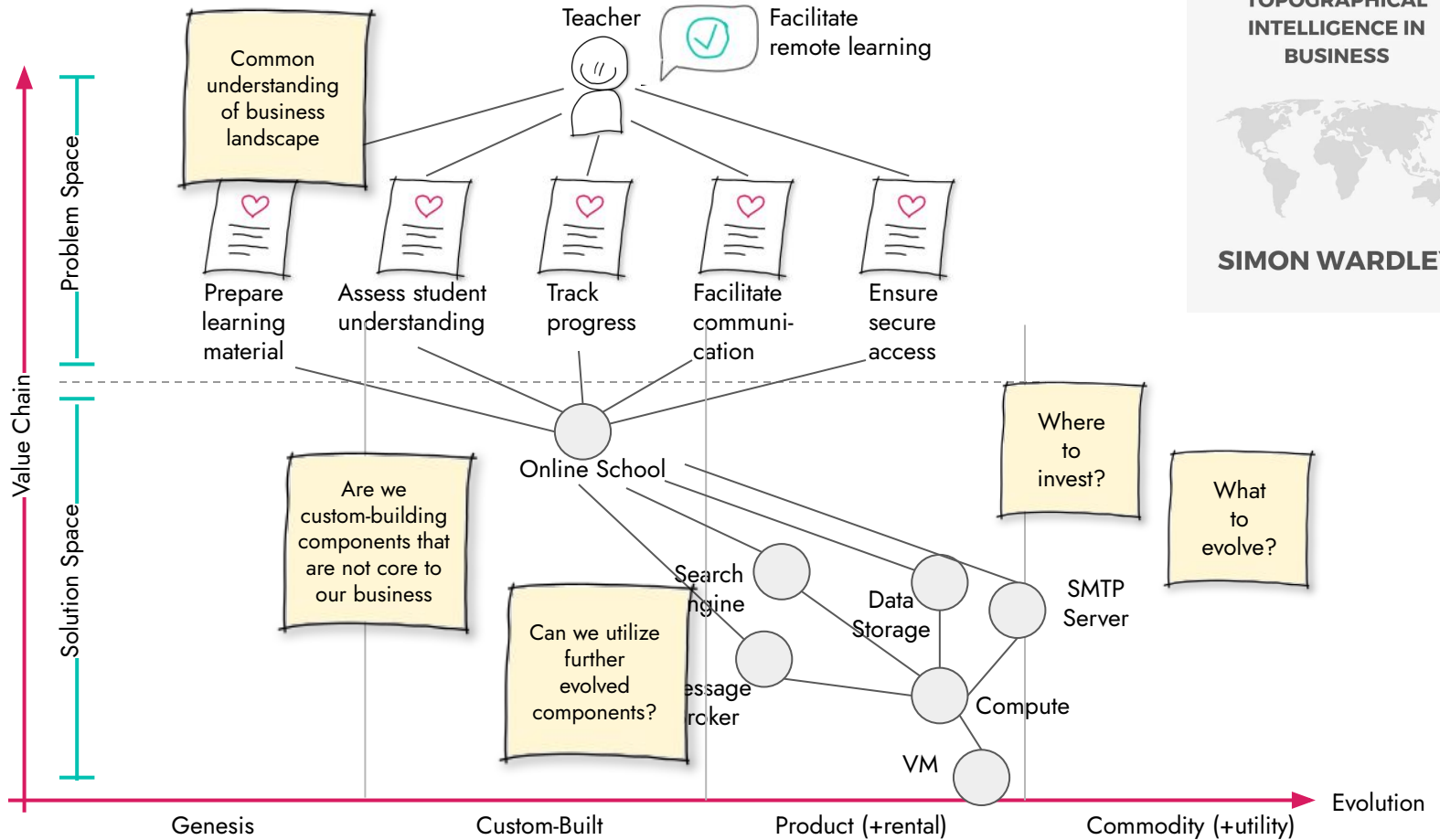
SIMON WARDLEY

Mapping the Current Business Landscape



Mapping components to evolution stages

Mapping the Current Business Landscape

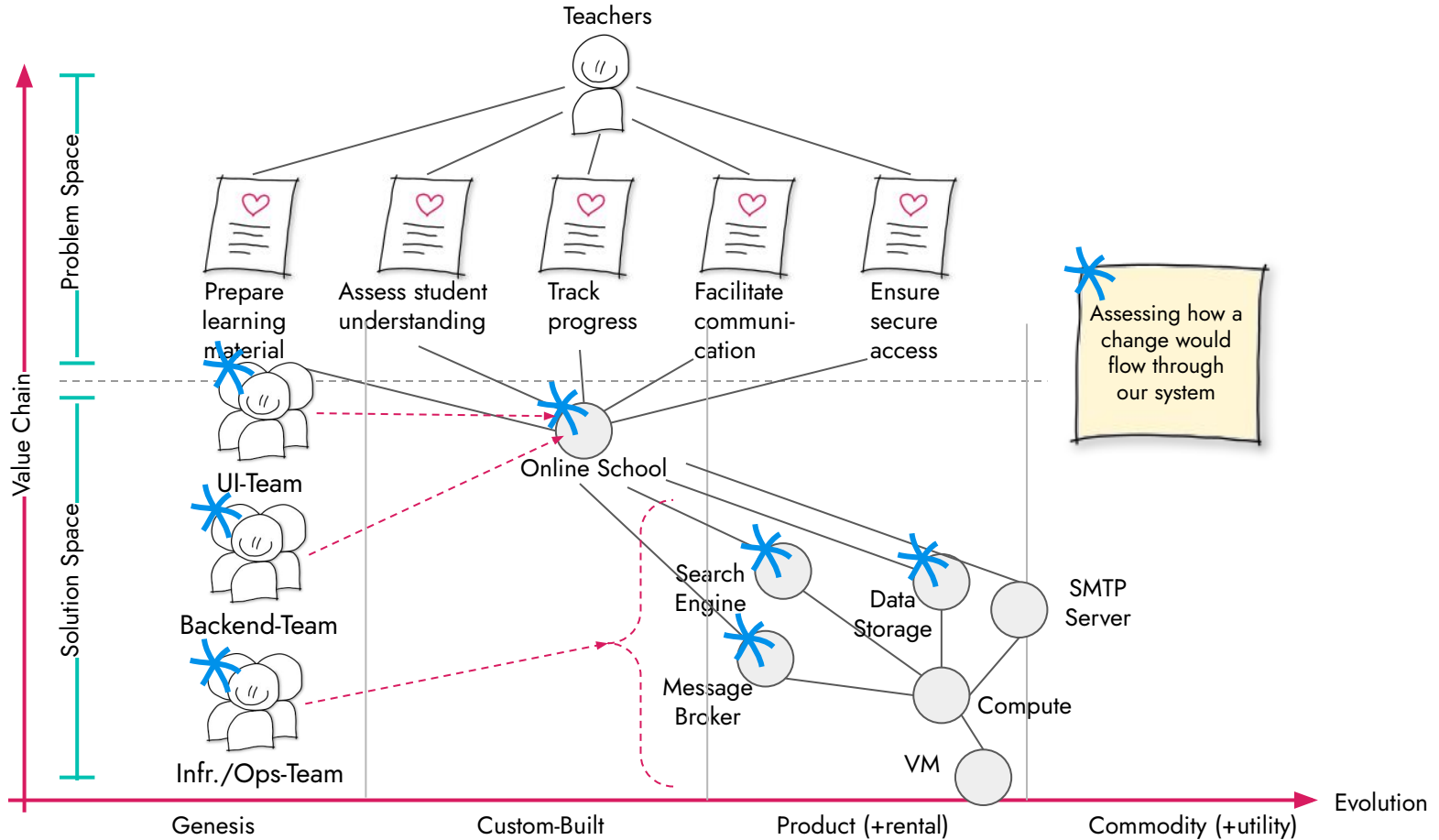


WARDLEY MAPS
TOPOGRAPHICAL
INTELLIGENCE IN
BUSINESS

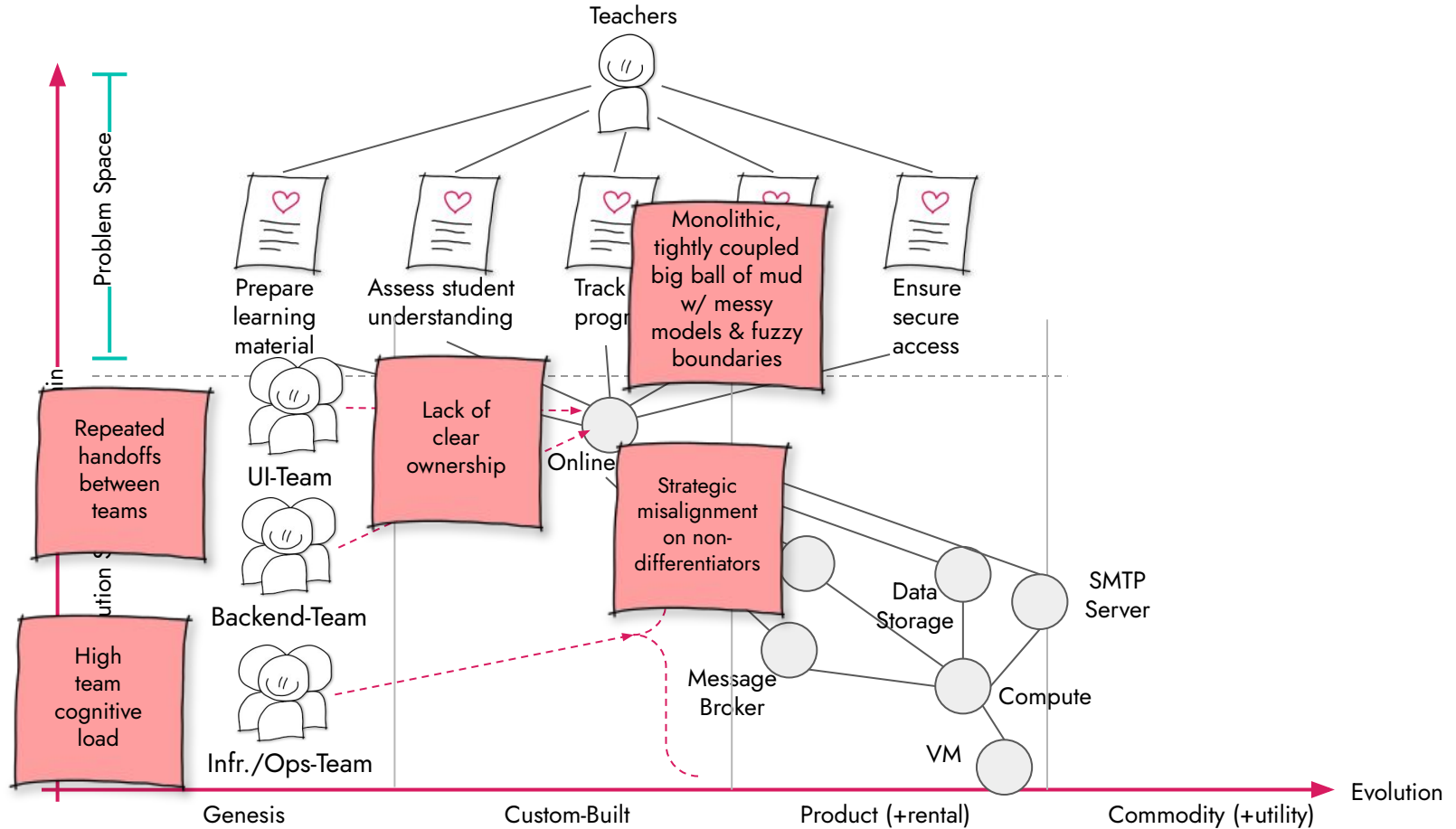


SIMON WARDLEY

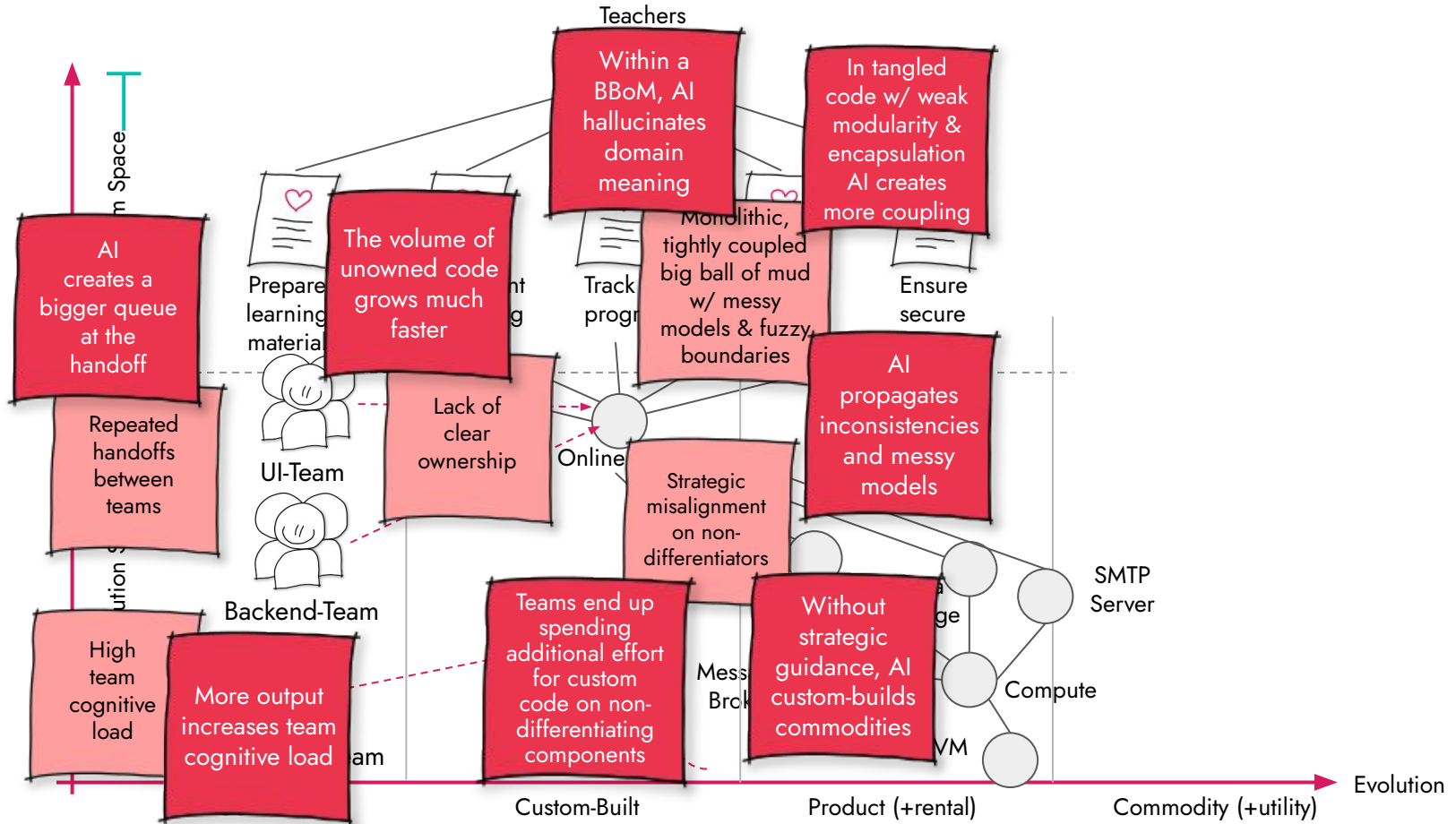
Assessing Current Flow of Change



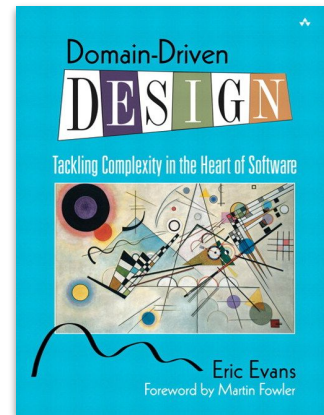
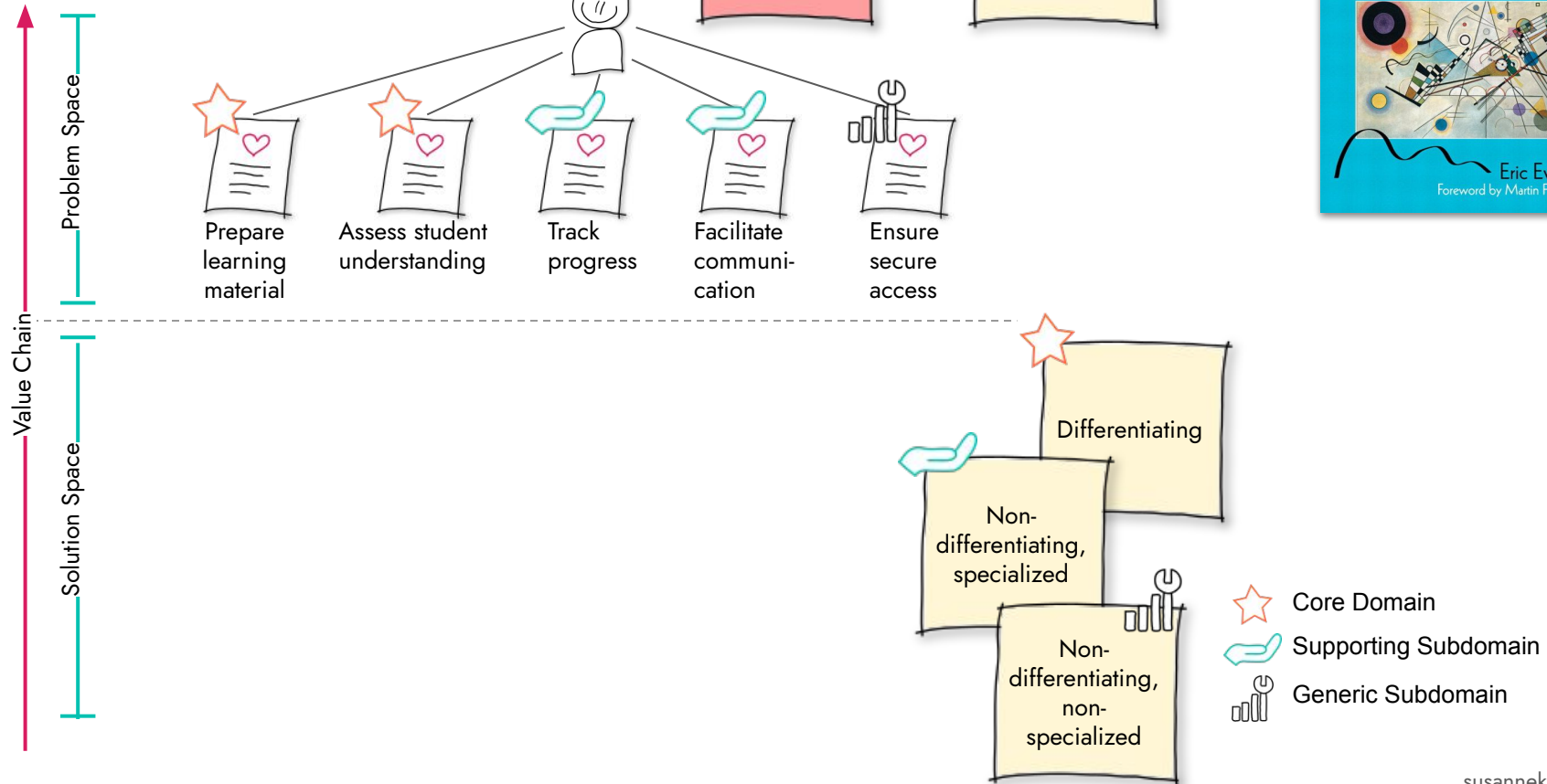
Making Frictions Visible



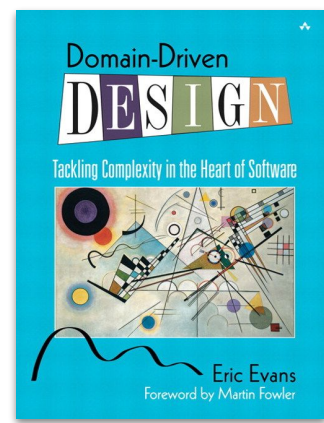
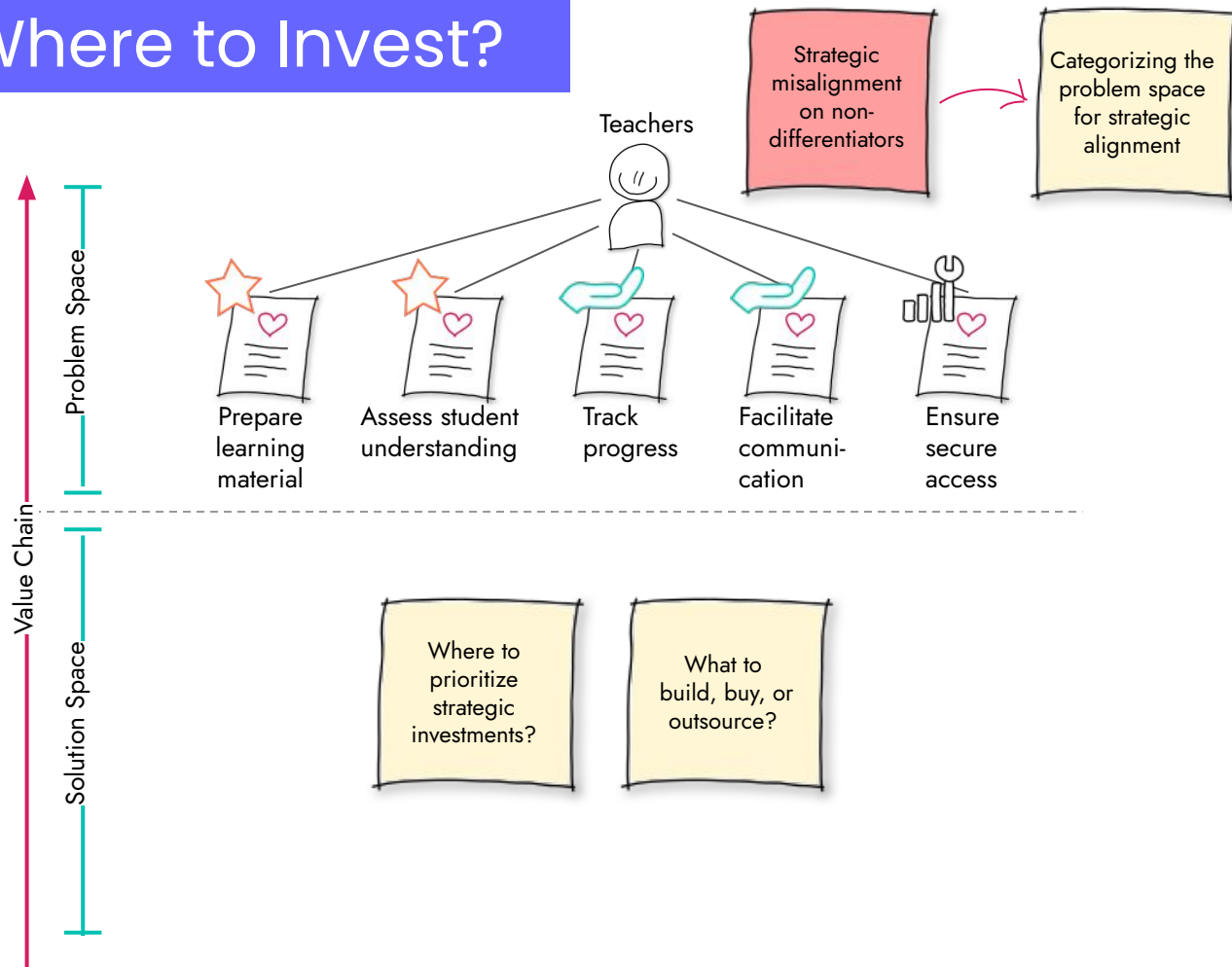
Existing Frictions Amplified by AI



Where to Invest?

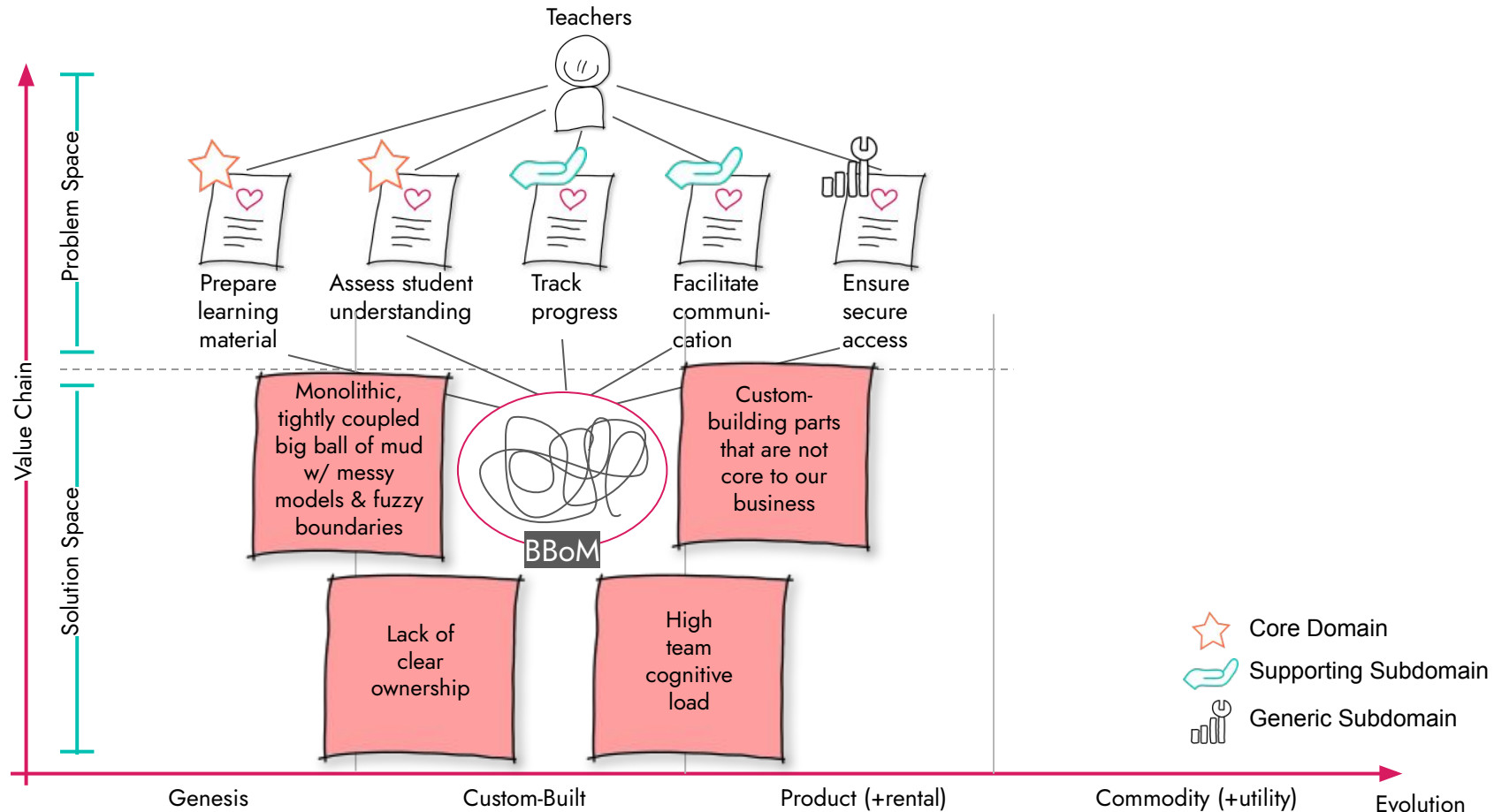


Where to Invest?

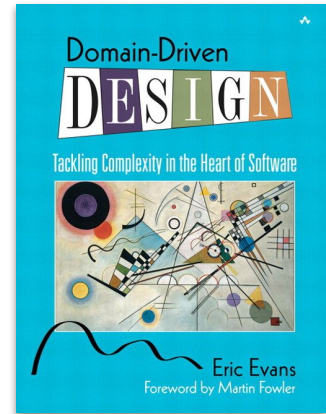
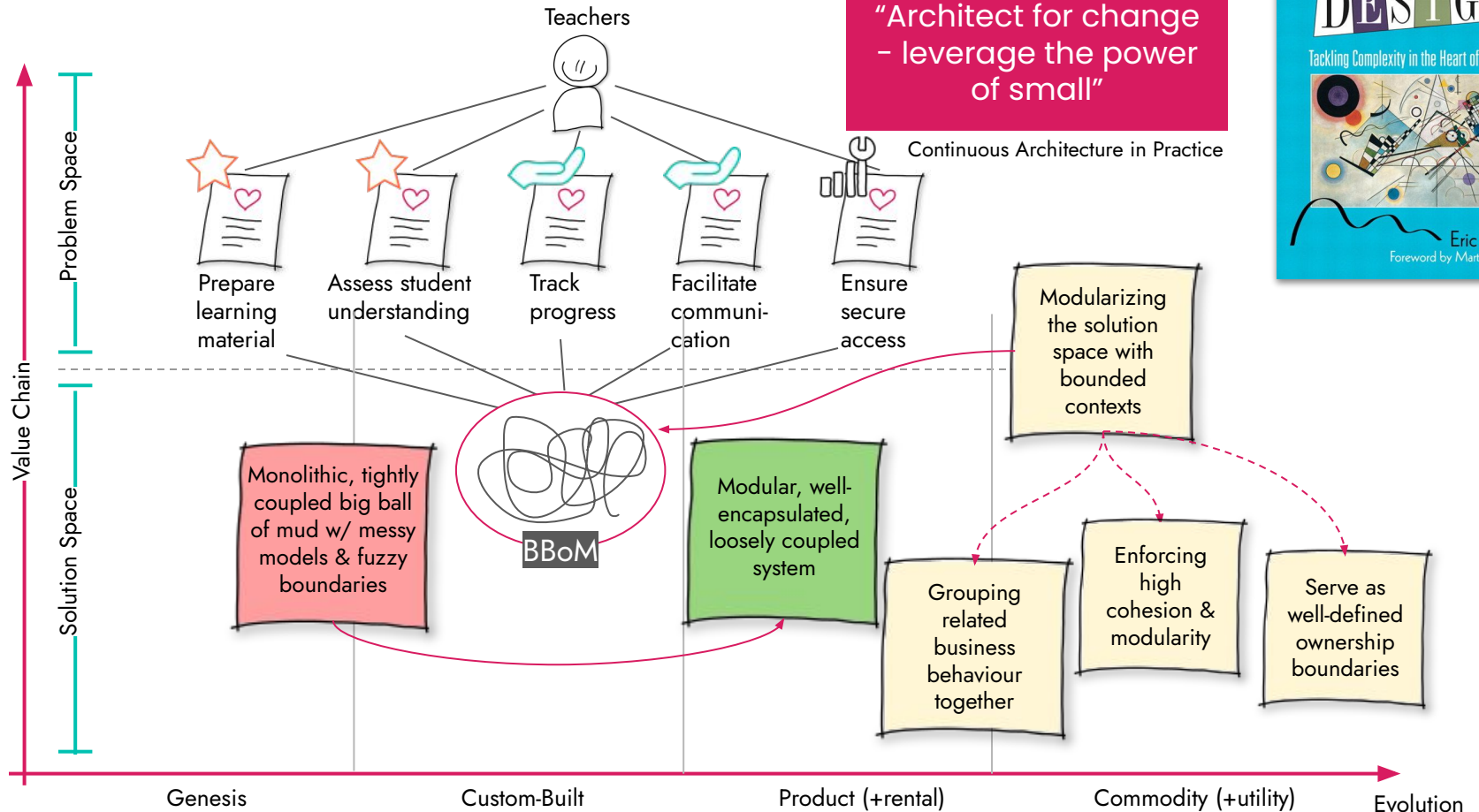


- ☆ Core Domain
- 👉 Supporting Subdomain
- 📊 Generic Subdomain

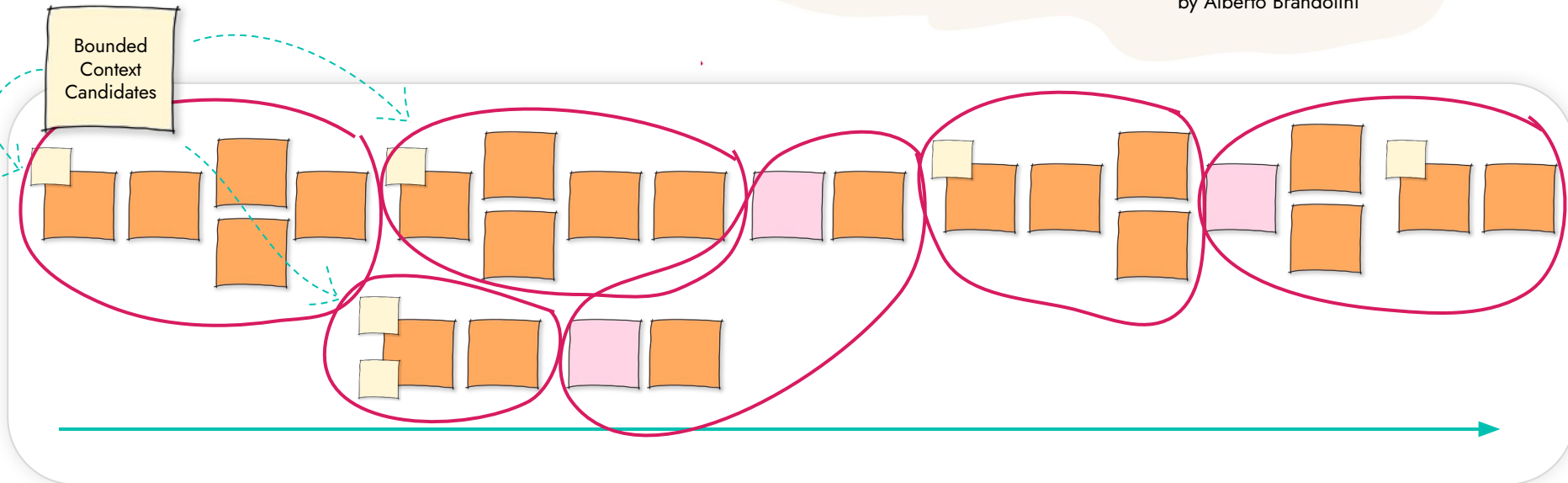
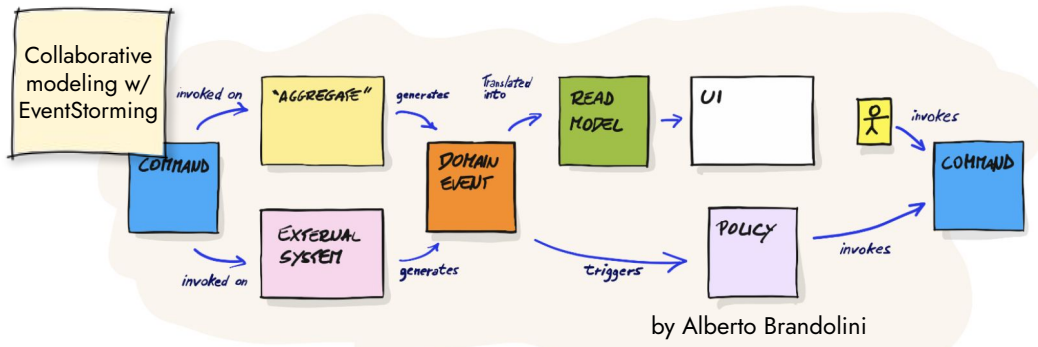
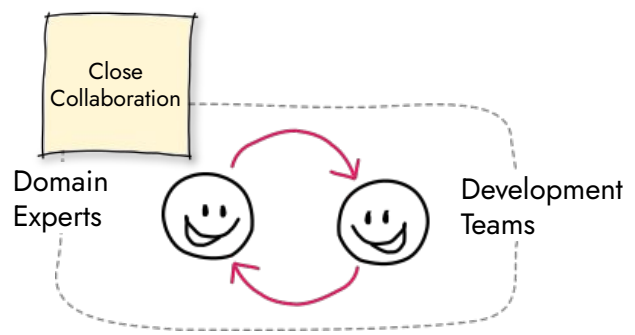
Modularizing the Solution Space



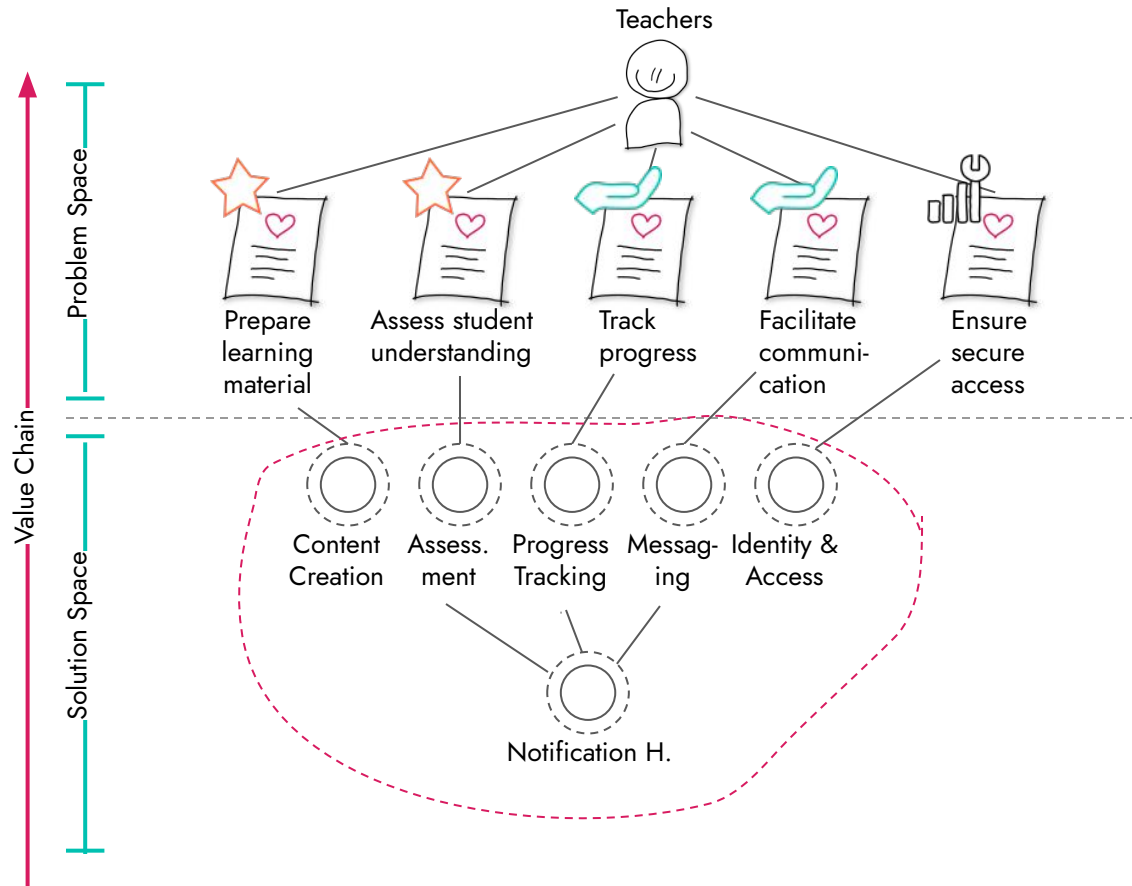
Modularizing the Solution Space







Modularizing the Solution Space

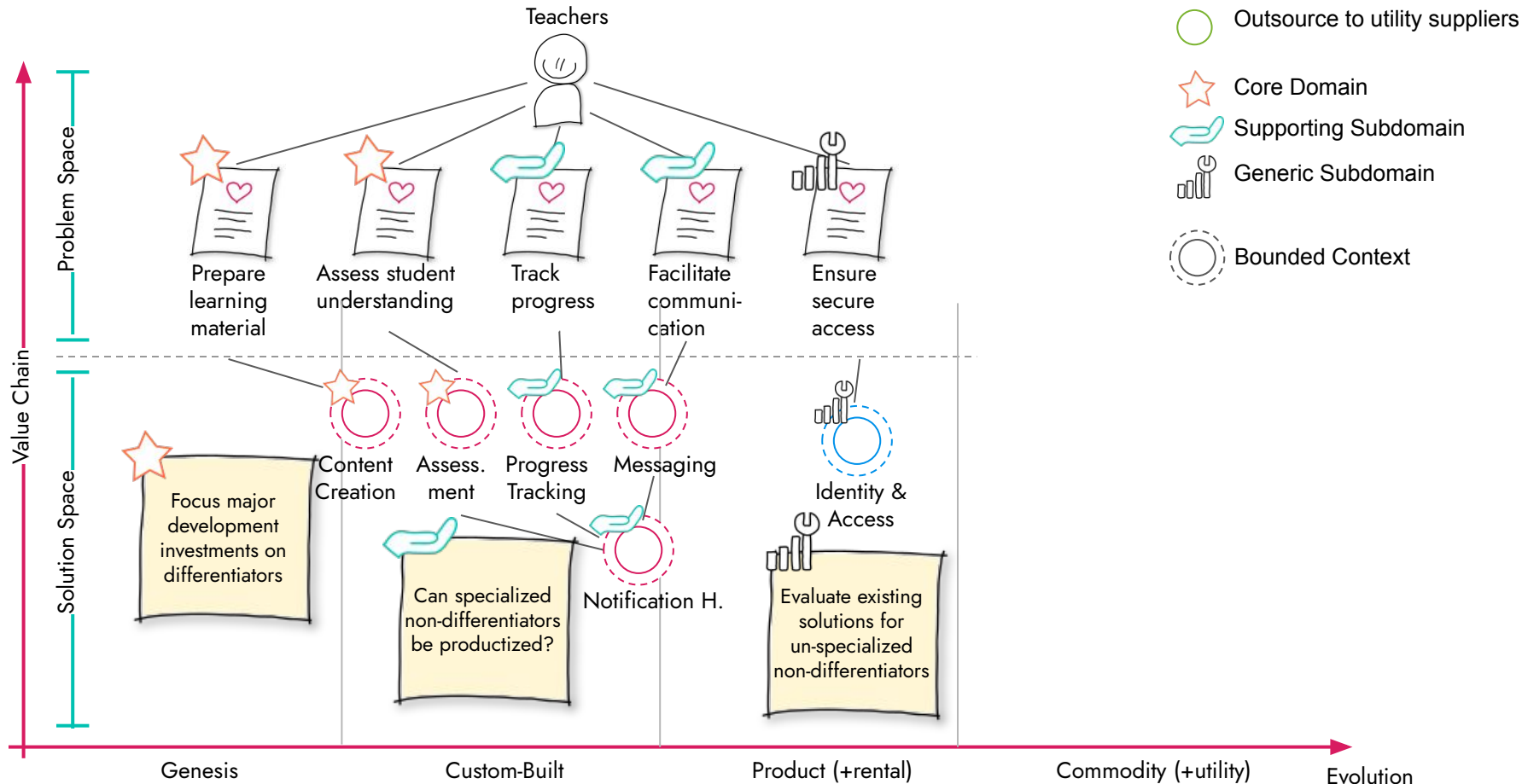


Envisioning the Future Landscape

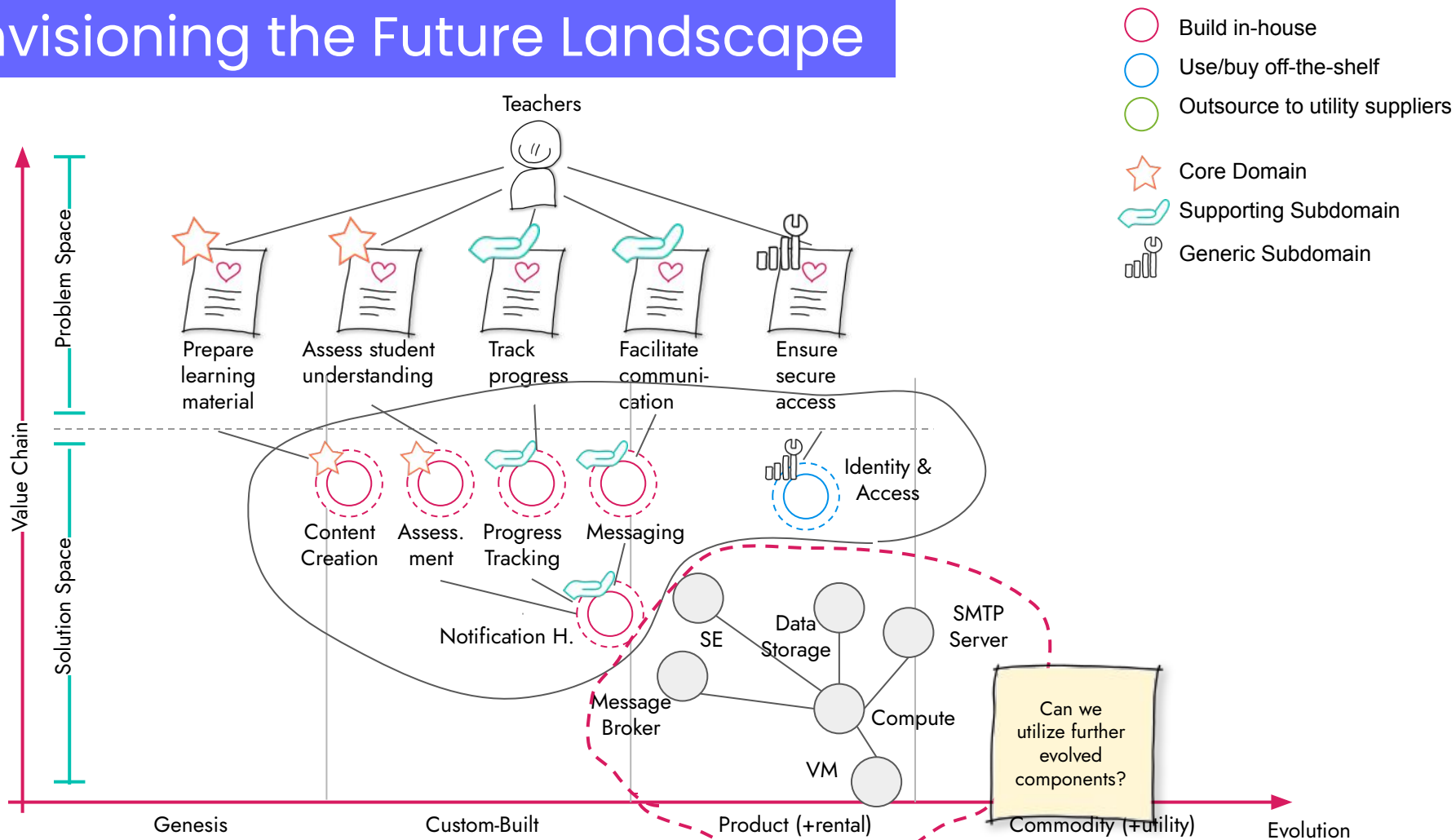


-  Core Domain
-  Supporting Subdomain
-  Generic Subdomain
-  Bounded Context

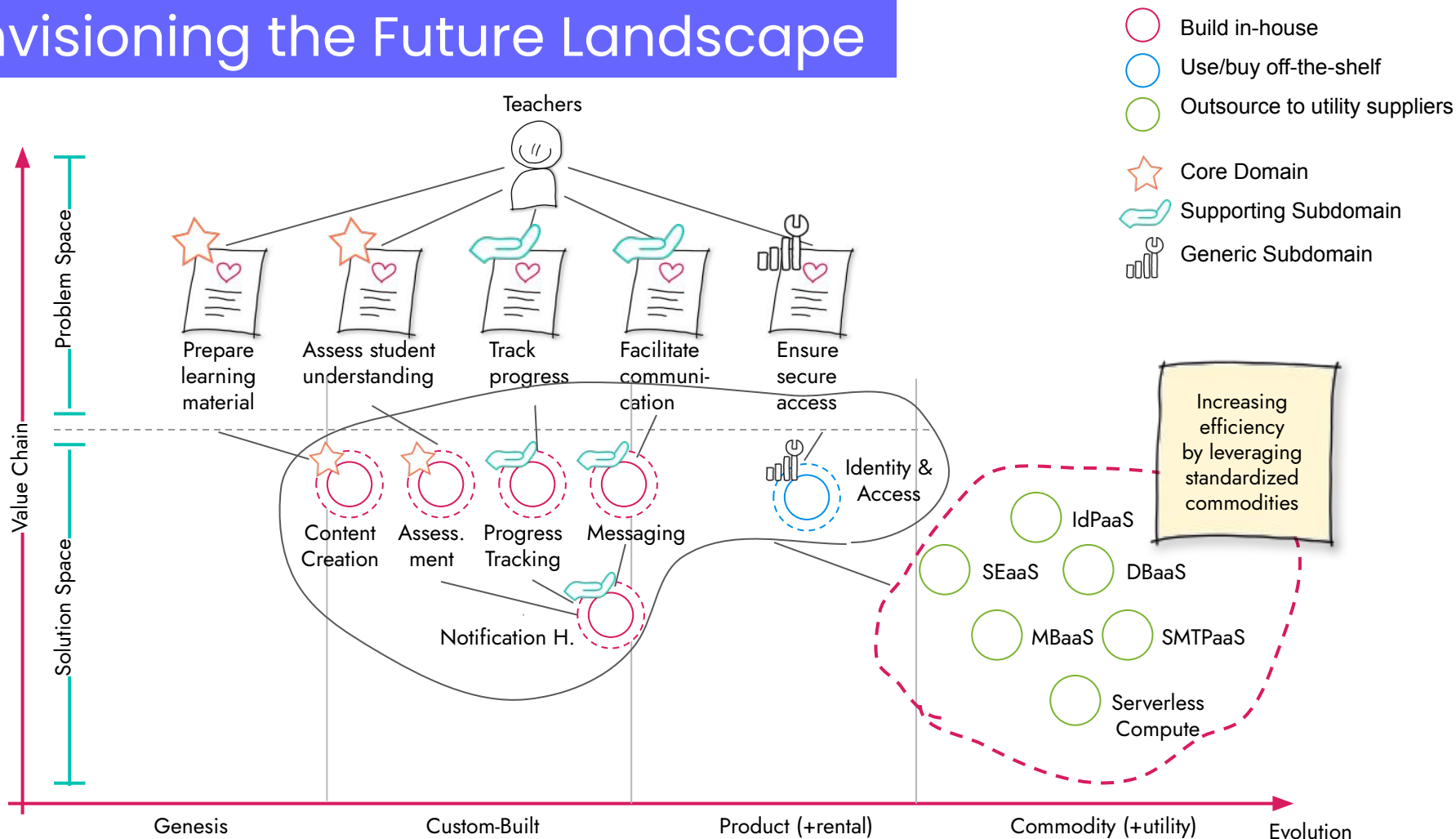
Envisioning the Future Landscape



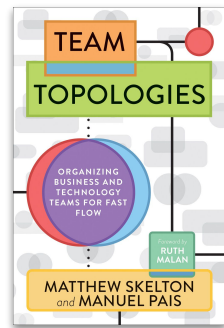
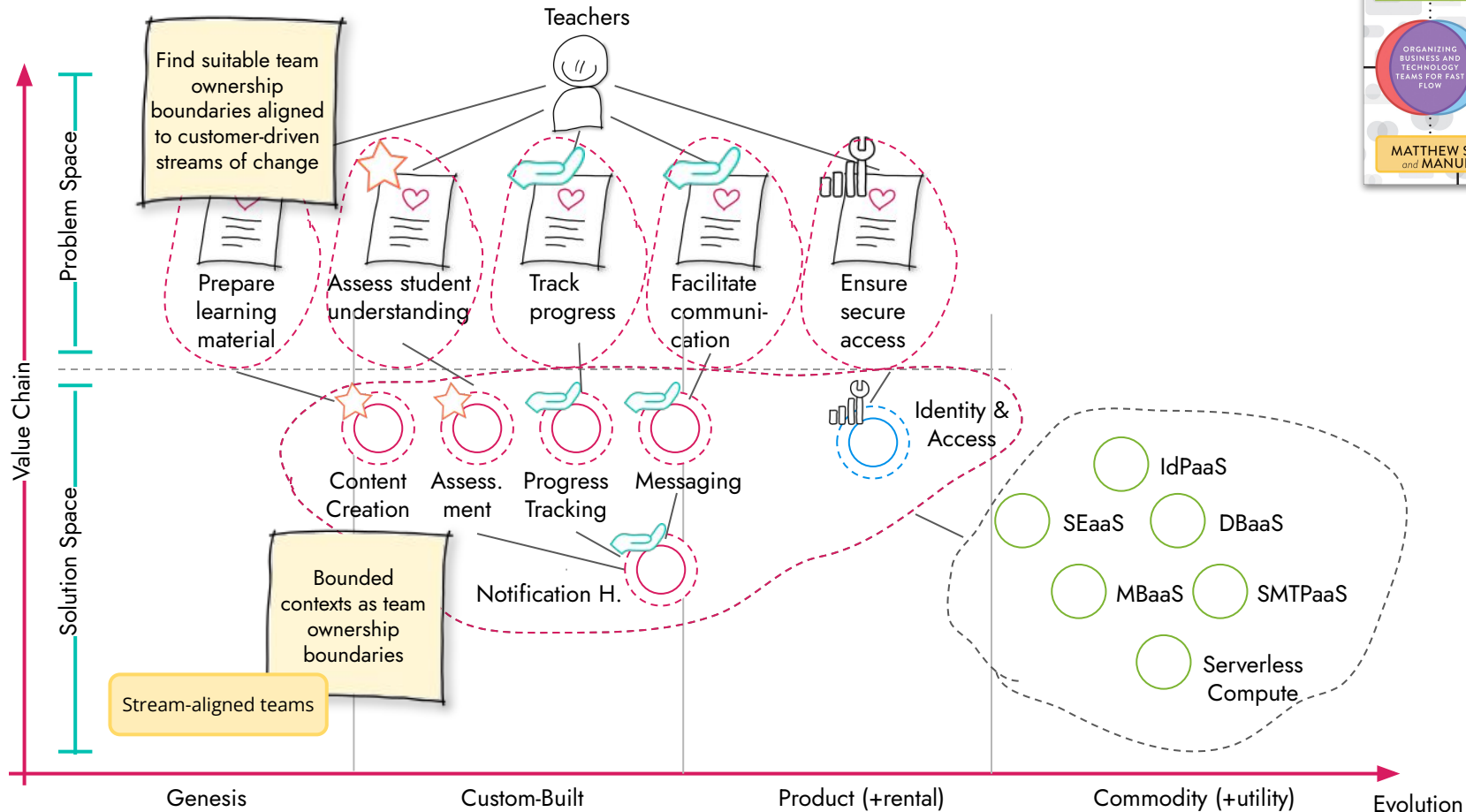
Envisioning the Future Landscape



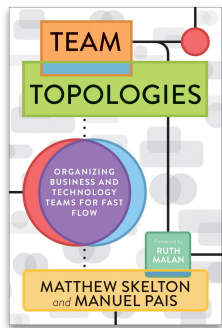
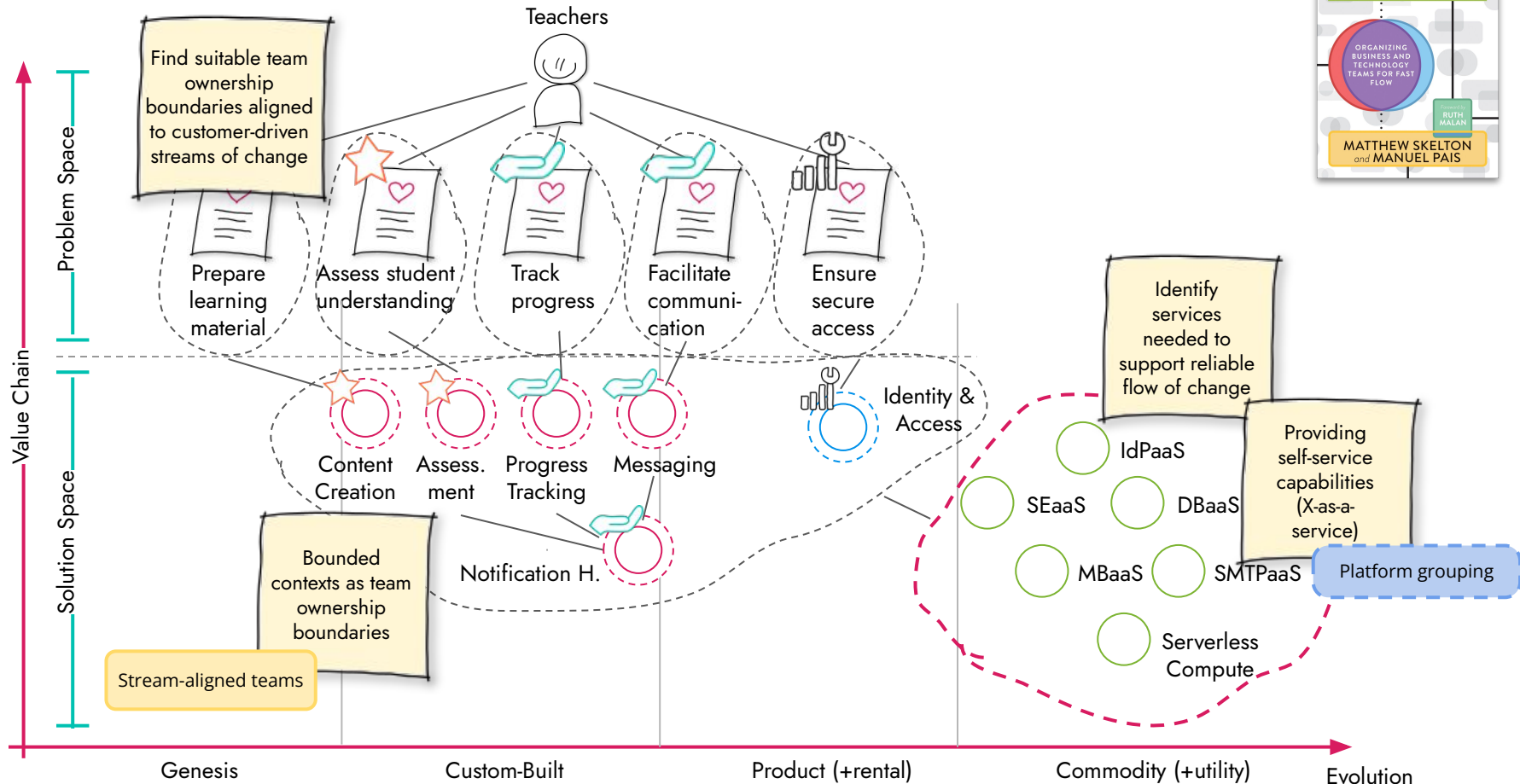
Envisioning the Future Landscape



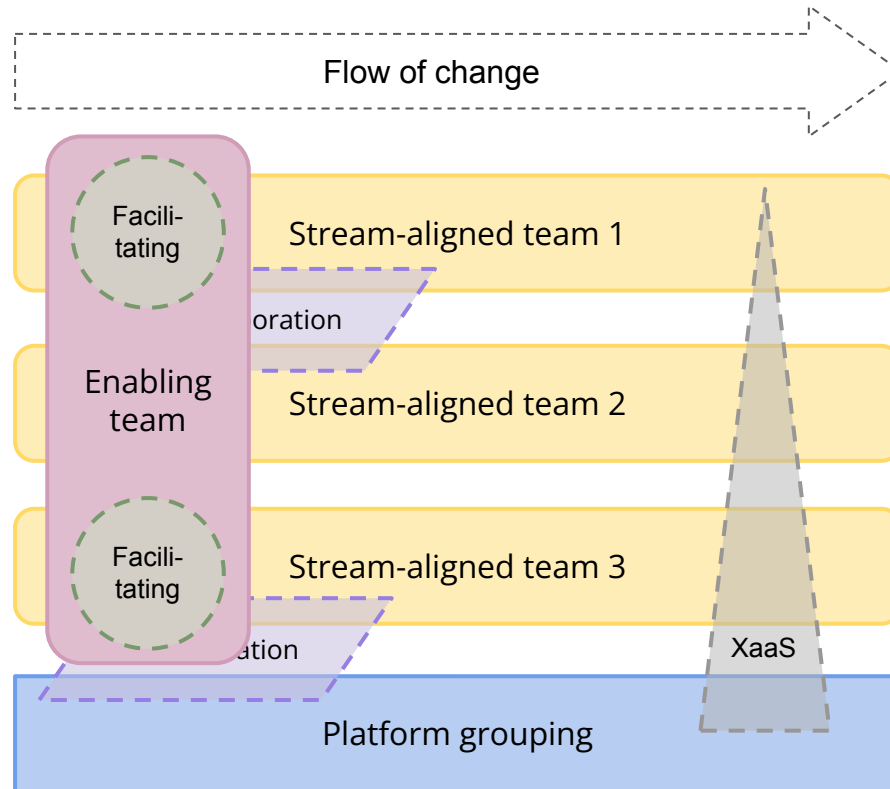
Aligning Teams



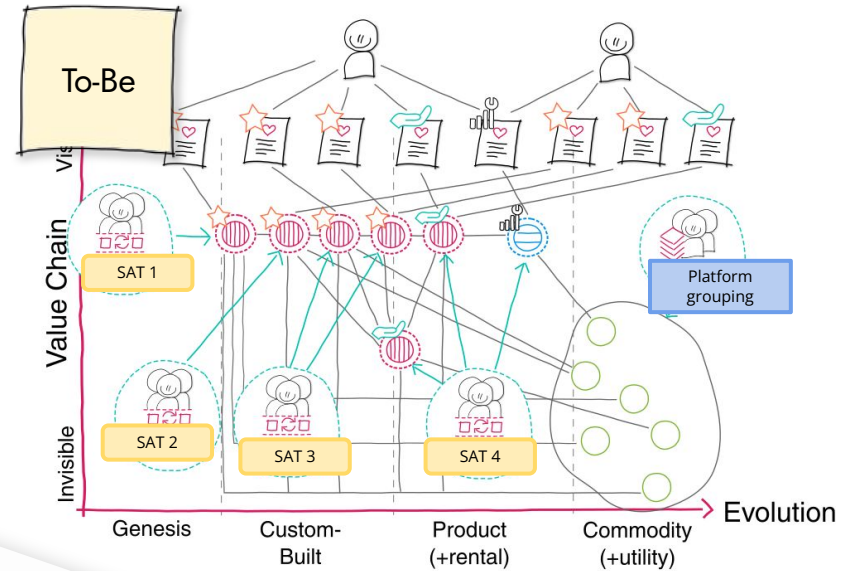
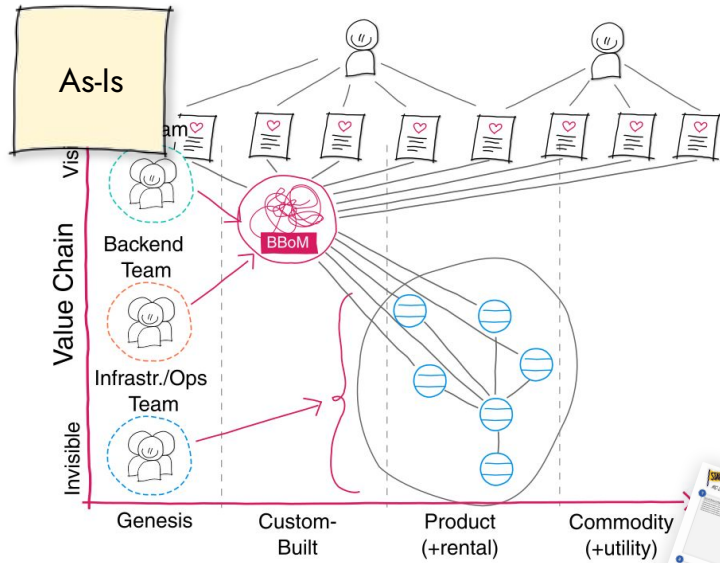
Aligning Teams



Evolving Team Interactions



Assess & Design



Assessing the Current

Designing the Ideal Future



Architecture for Flow Canvas

START
AS-IS

1

Current Issues & Why of Missing

What are the current issues (problems)?
What are the reasons of the current issues?
What are the current issues?
What are the current issues (problems)?
What are the current issues (problems)?
What are the current issues (problems)?

2

Current Flow

What are the current flows?
What are the current flows?

What are the current flows?
What are the current flows?



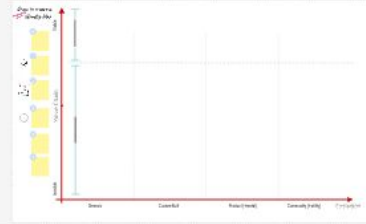
Flow of Changes / Wave

3

Current Business Landscape

Visualizing the business landscape with Viability Maps

What are the current business landscapes?
What are the current business landscapes?



4

Comprehending the Problem Space

Comprehending the Problem Space

What are the current business landscapes?
What are the current business landscapes?



5

Viability in the Solution Space

Comprehending solution space (design decisions)

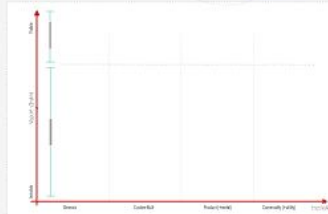


6

Future Business Landscapes & Business Contexts

Visualizing the future business landscape with Viability Maps

What are the future business landscapes?
What are the future business landscapes?

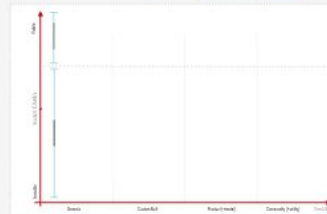


7

Future Team Operating Boundaries

Identifying future team operating boundaries

What are the future team operating boundaries?
What are the future team operating boundaries?

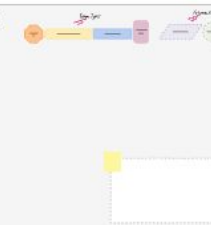


8

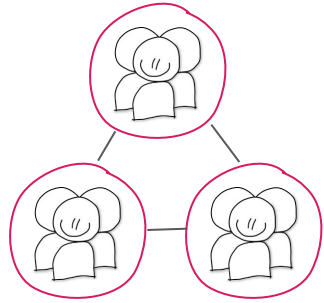
Future Team Coordination & Interwork Modes

Identifying future team coordination & interwork modes

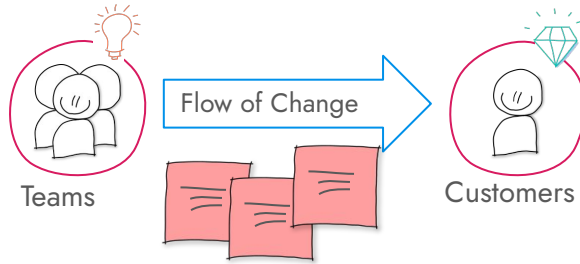
What are the future team coordination & interwork modes?
What are the future team coordination & interwork modes?



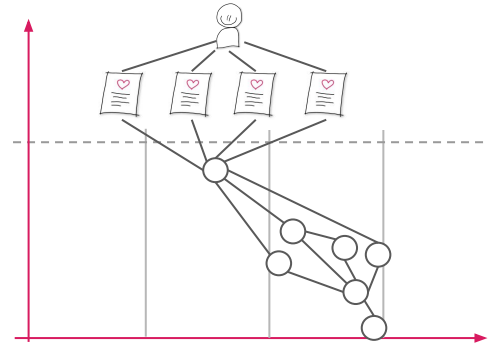
Assessing the Current State



Analyzing Current Teams & Dependencies



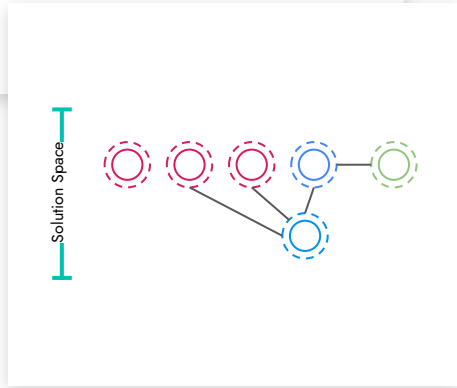
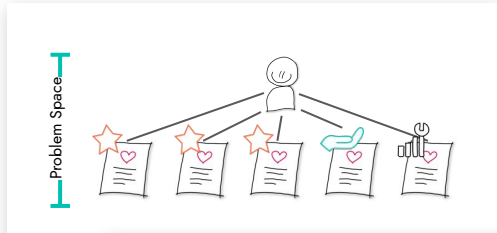
Assessing Current Flow of Change



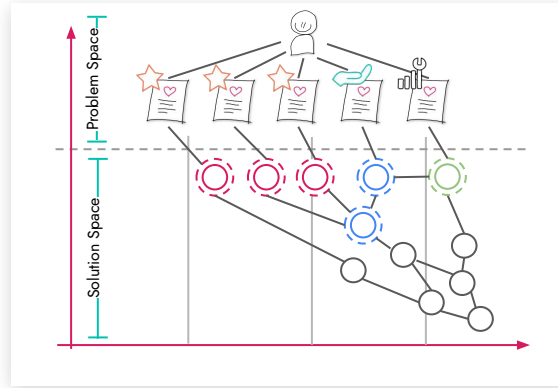
Mapping the Current Business Landscape

Designing the Ideal Future as First Work Assumption

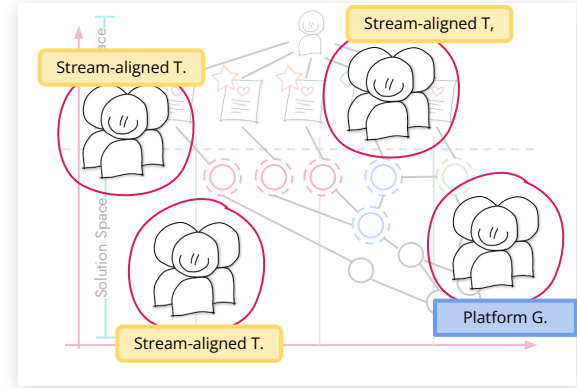
Categorizing the Problem Space



Modularizing the Solution Space



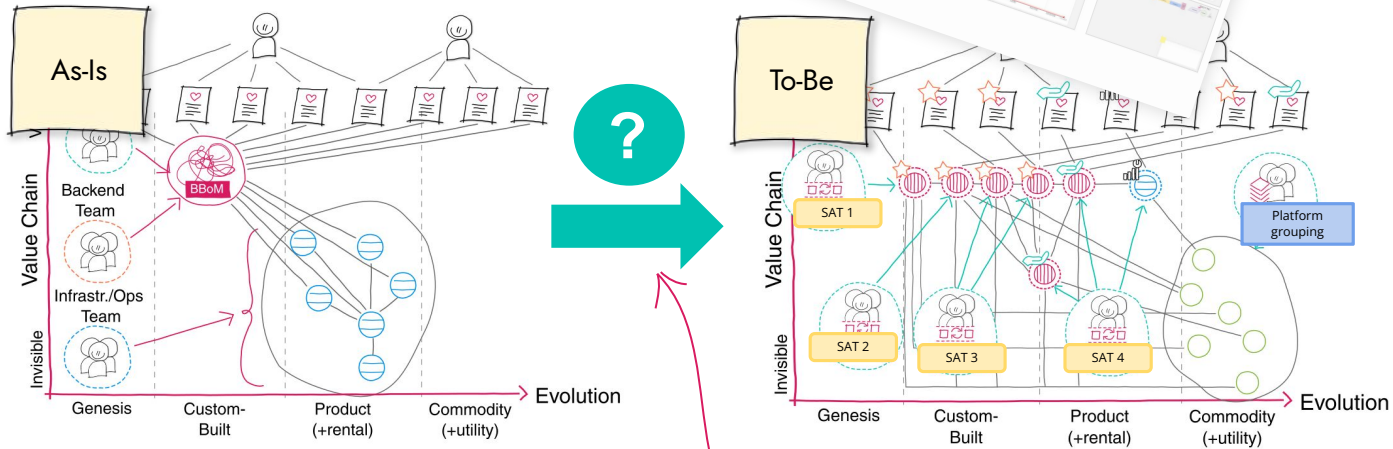
Envisioning the Future Landscape



Aligning Future Teams & Interactions

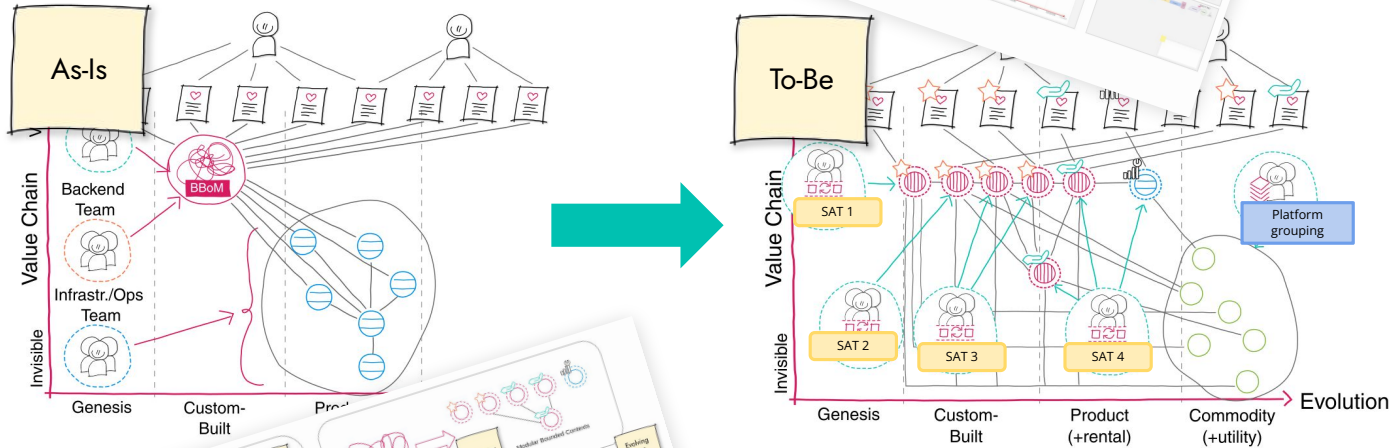
How to Transition?

Assess & Design



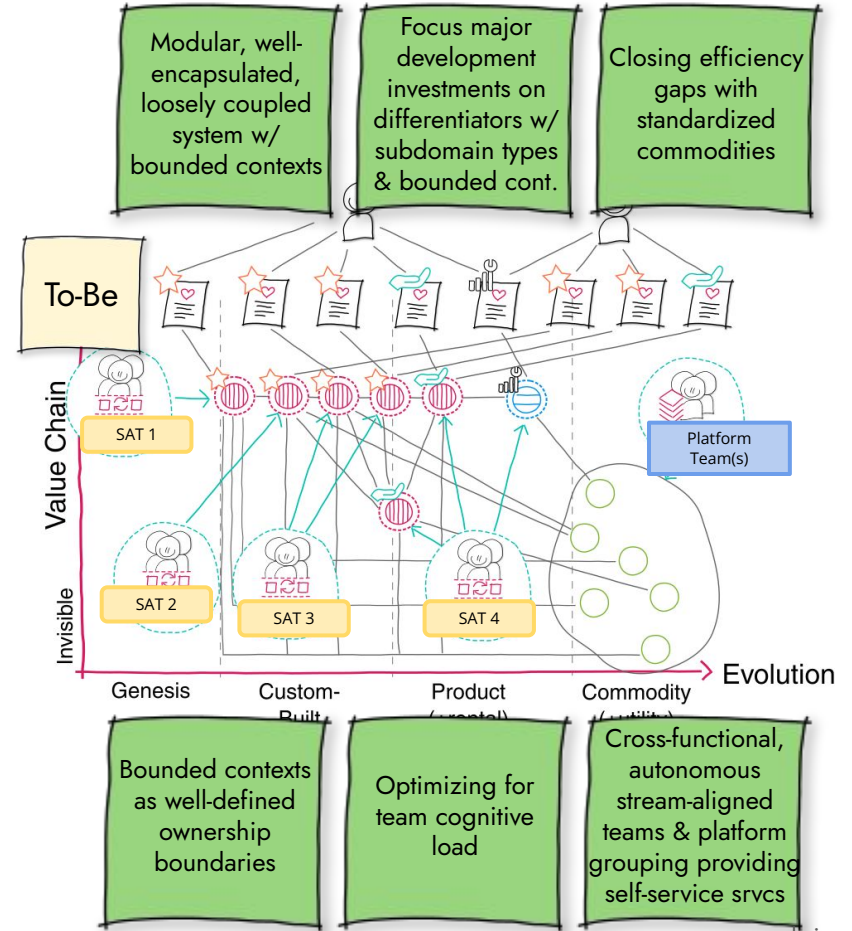
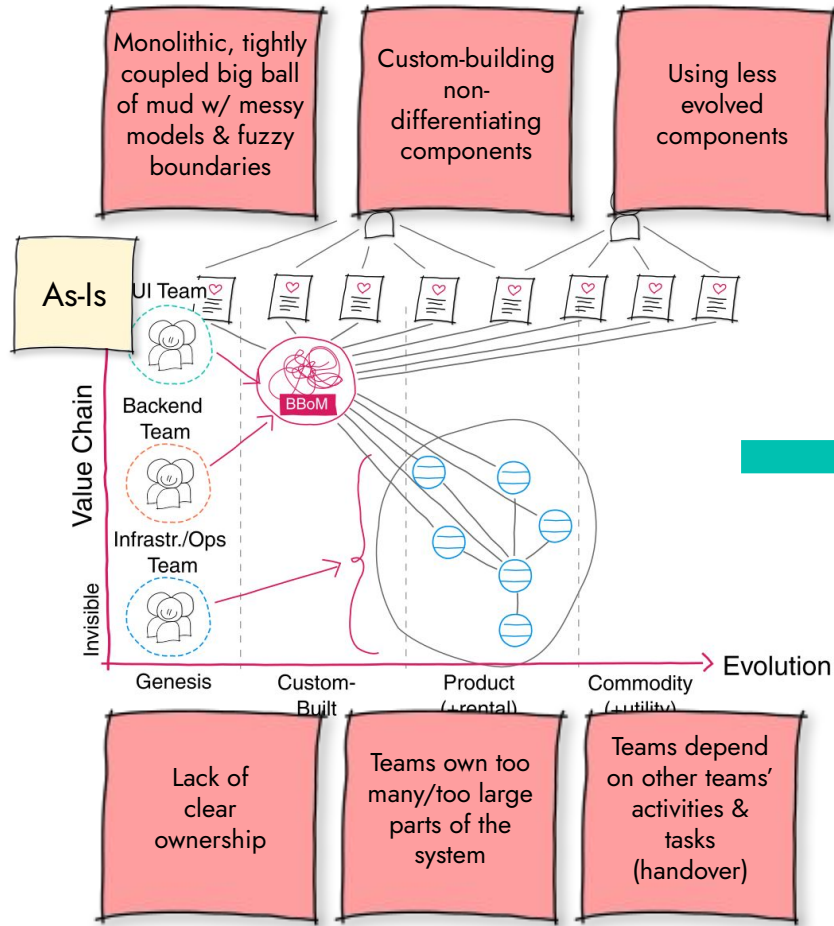
Continuous Evolution

Assess & Design



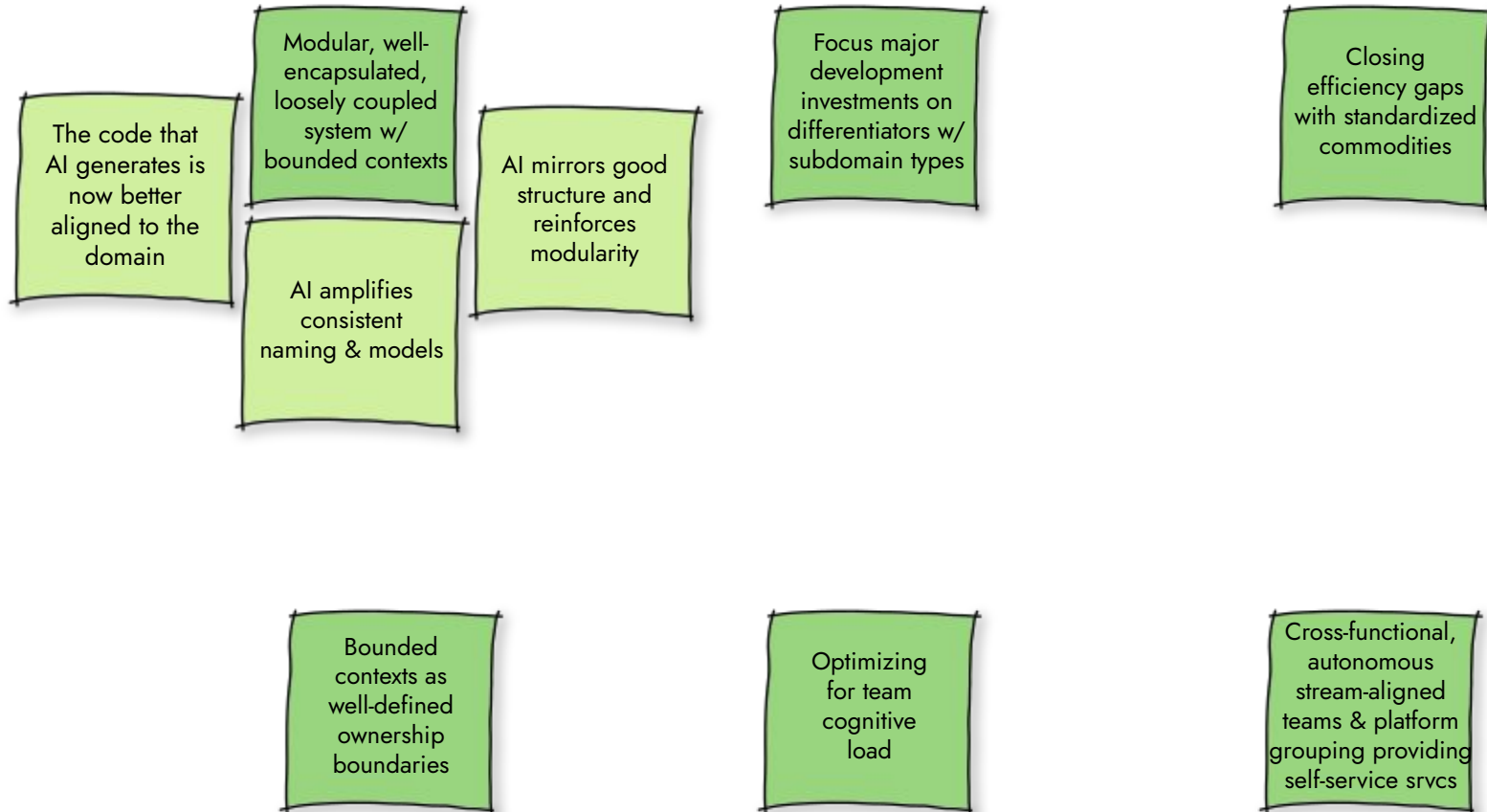
Incremental Transition

Unlocking Blocker to Flow



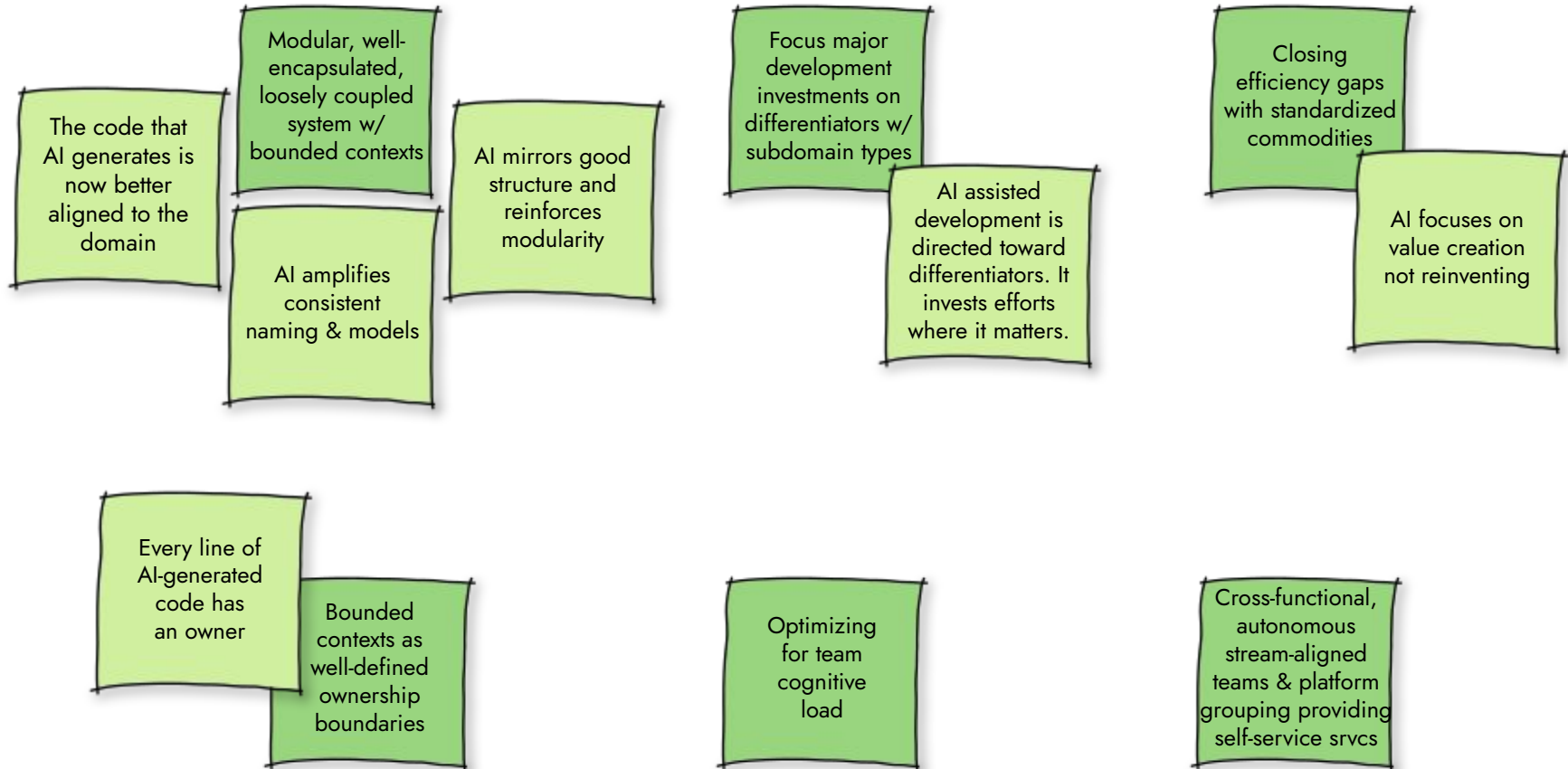
A Solid Foundation for Safe* AI Adoption

*) safe! Not SAFE 🤖



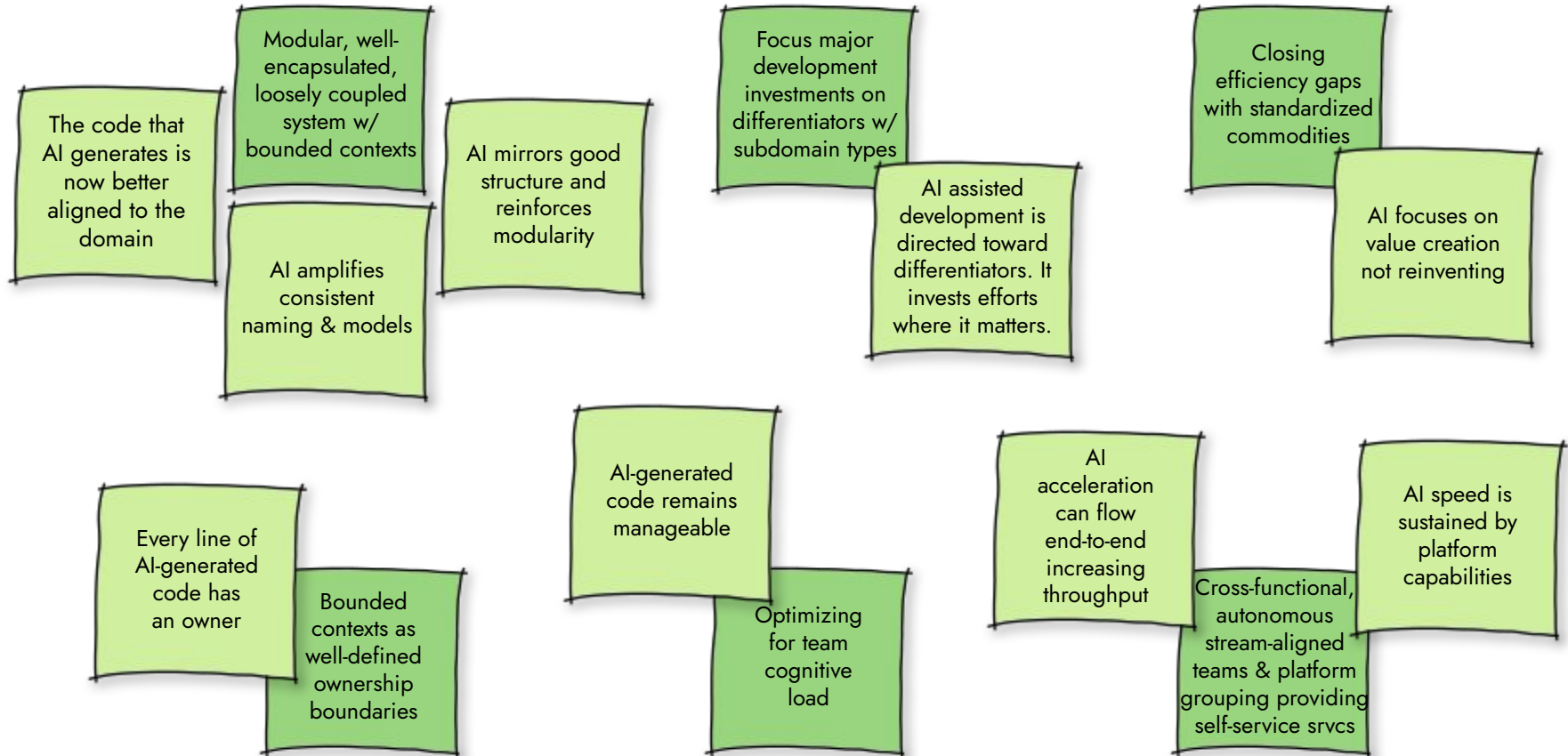
A Solid Foundation for Safe* AI Adoption

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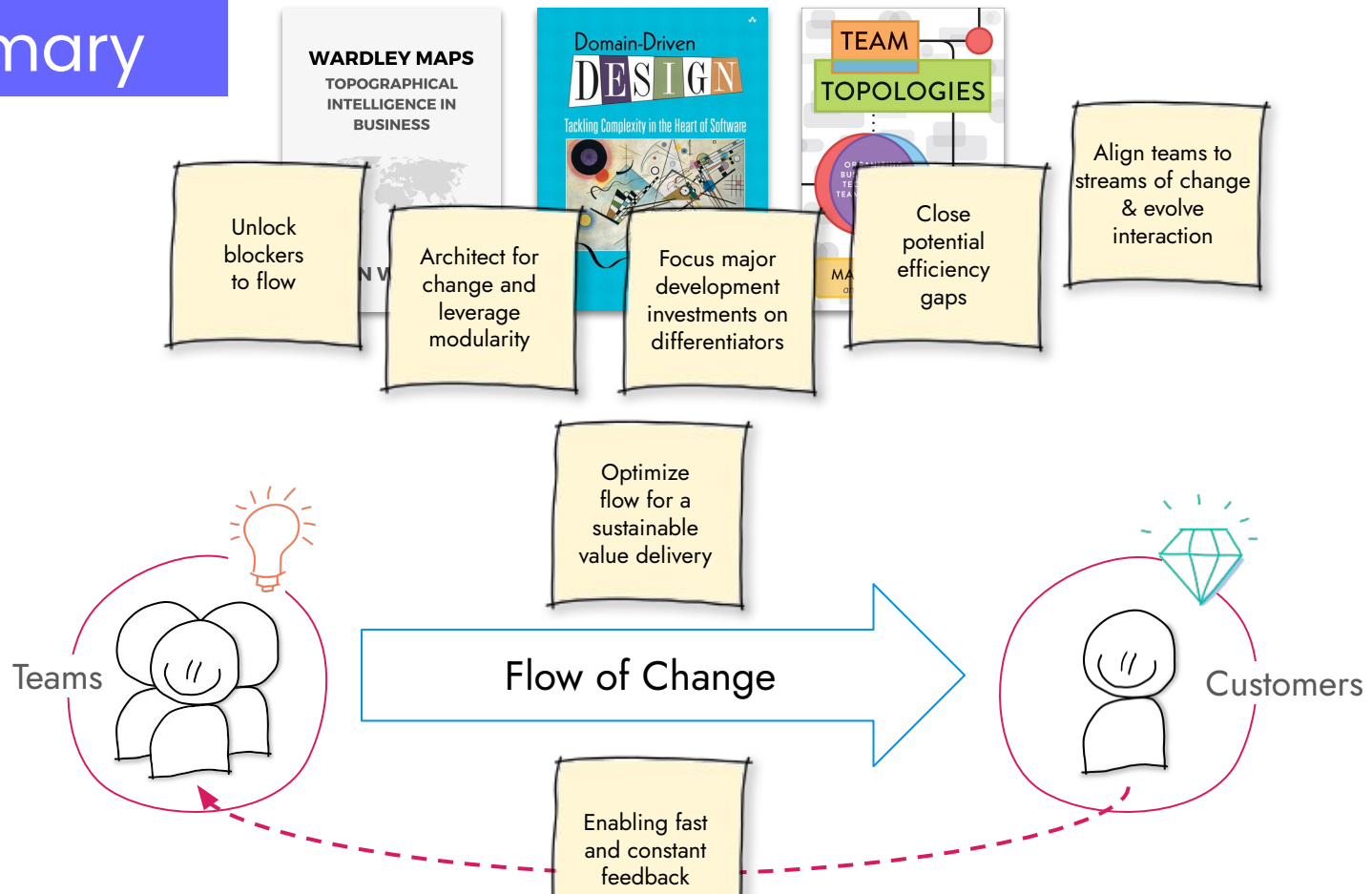


A Solid Foundation for Safe* AI Adoption

*) safe! Not SAFE 🤖



Summary



Not new because of AI, but essential for AI.

Thank you!

Susanne Kaiser

Independent Tech Consultant
Author of "Architecture for Flow"

<https://susannekaiser.net>

<https://linked.in/suksr>

<https://architectureforflow.com>

Link to
slide deck



<https://susannekaiser.net/talks/>

