



PROFESSIONAL SOFTWARE ENGINEERING

PSE SWE LE 4 und 5 - Domain Driven Design

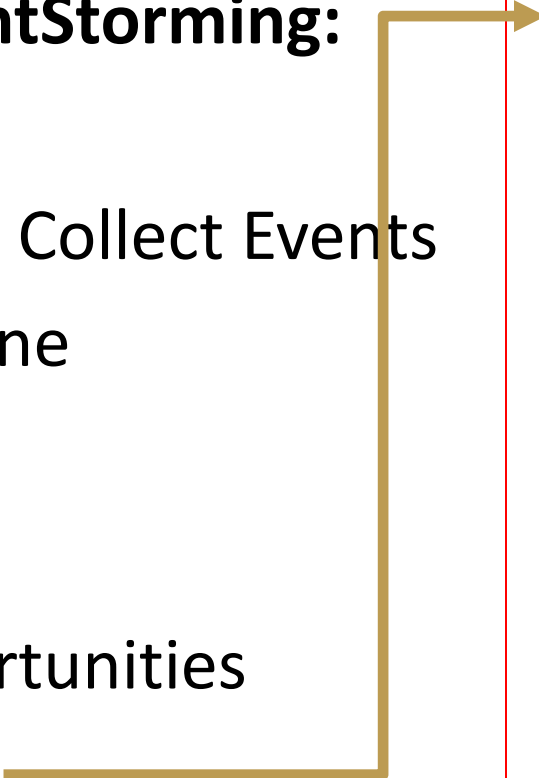
Eventstorming (II/II)

Dominik Neumann

EVENTSTORMING (II/II)

BIG PICTURE EVENTSTORMING

Phasen BigPicture EventStorming:

1. Kick Off
 2. Chaotic Exploration: Collect Events
 3. Enforcing the Timeline
 4. User and Systems
 5. Explicit walkthrough
 6. Problems and Opportunities
 7. Pick your Problem
- 

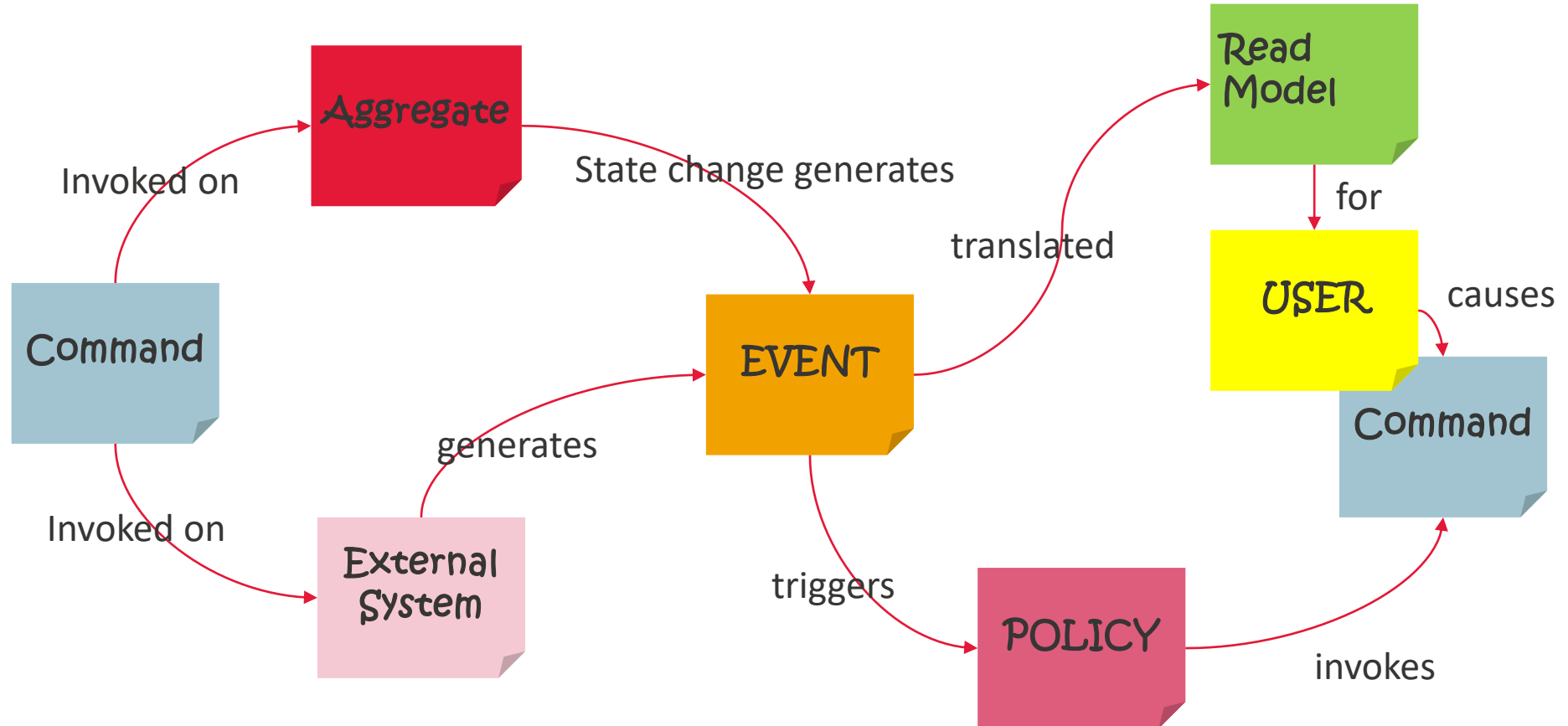
Phasen Design Level EventStorming:

1. Kick Off (Problem is known)
2. Start with selected Domain Event
3. Identify all other design elements
4. Select next Domain Event (goto 2)

DESIGN-LEVEL EVENTSTORMING

DESIGN-LEVEL EVENTSTORMING

□ The Design Elements



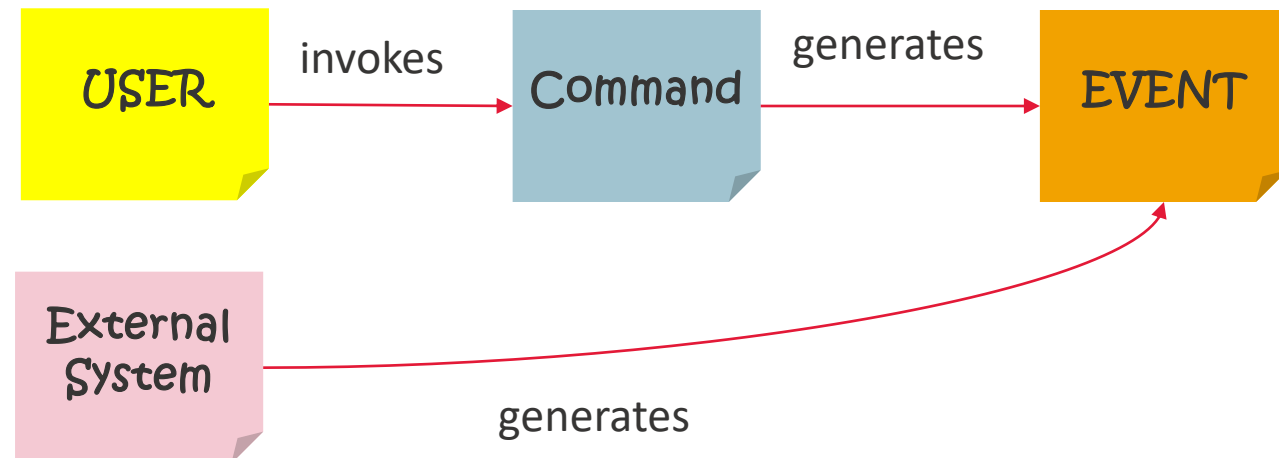
DESIGN-LEVEL EVENTSTORMING

For each **Event** identify all other design elements:

- An event (business / domain event) is a matter of fact that happens in the course of a business process. It can trigger a new business process. In event storming we are looking for business events. Found an event we are asking about the reasons causing that event. (we are going back in time).

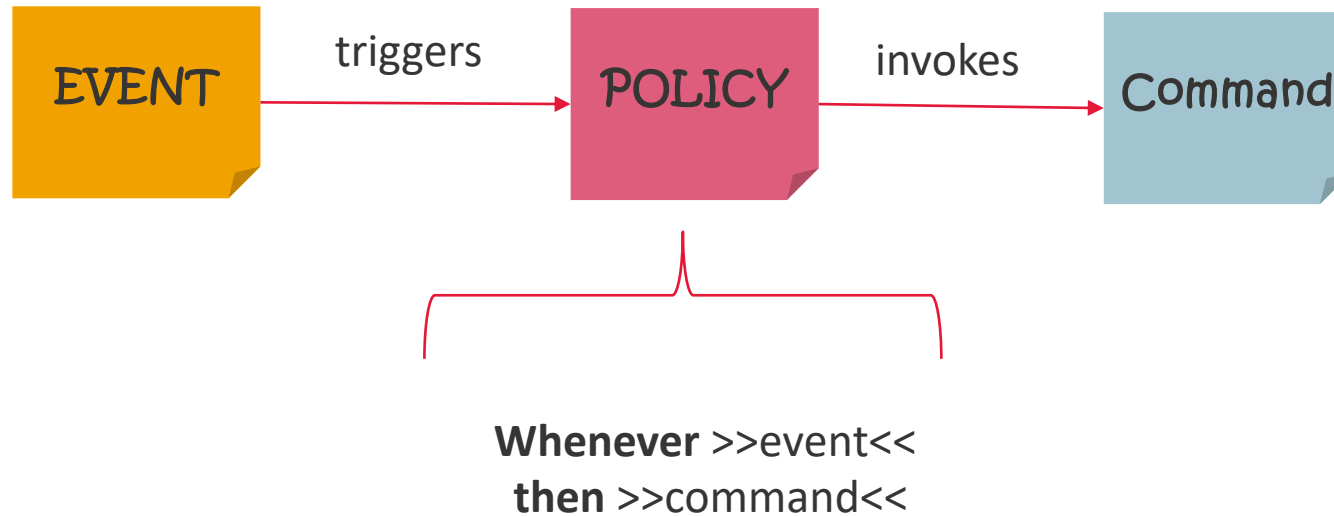
- **What is causing an event?**
Where are events coming from?

- User actions
- External systems
- Time
- Other domain events



DESIGN-LEVEL EVENTSTORMING

- Policies are the missing glue between **event** and **command**



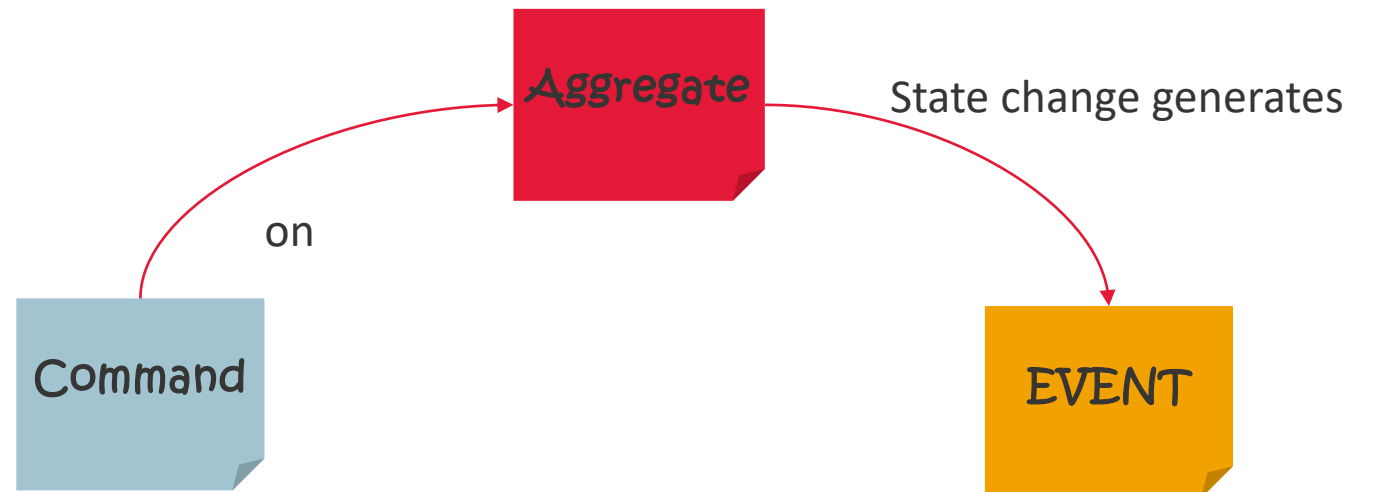
DESIGN-LEVEL EVENTSTORMING

- Every **Command** acts on an aggregate and triggers a state change on the aggregate.

**Discussing what Aggregates will do is the key moment
of Design-Level Event Storming**

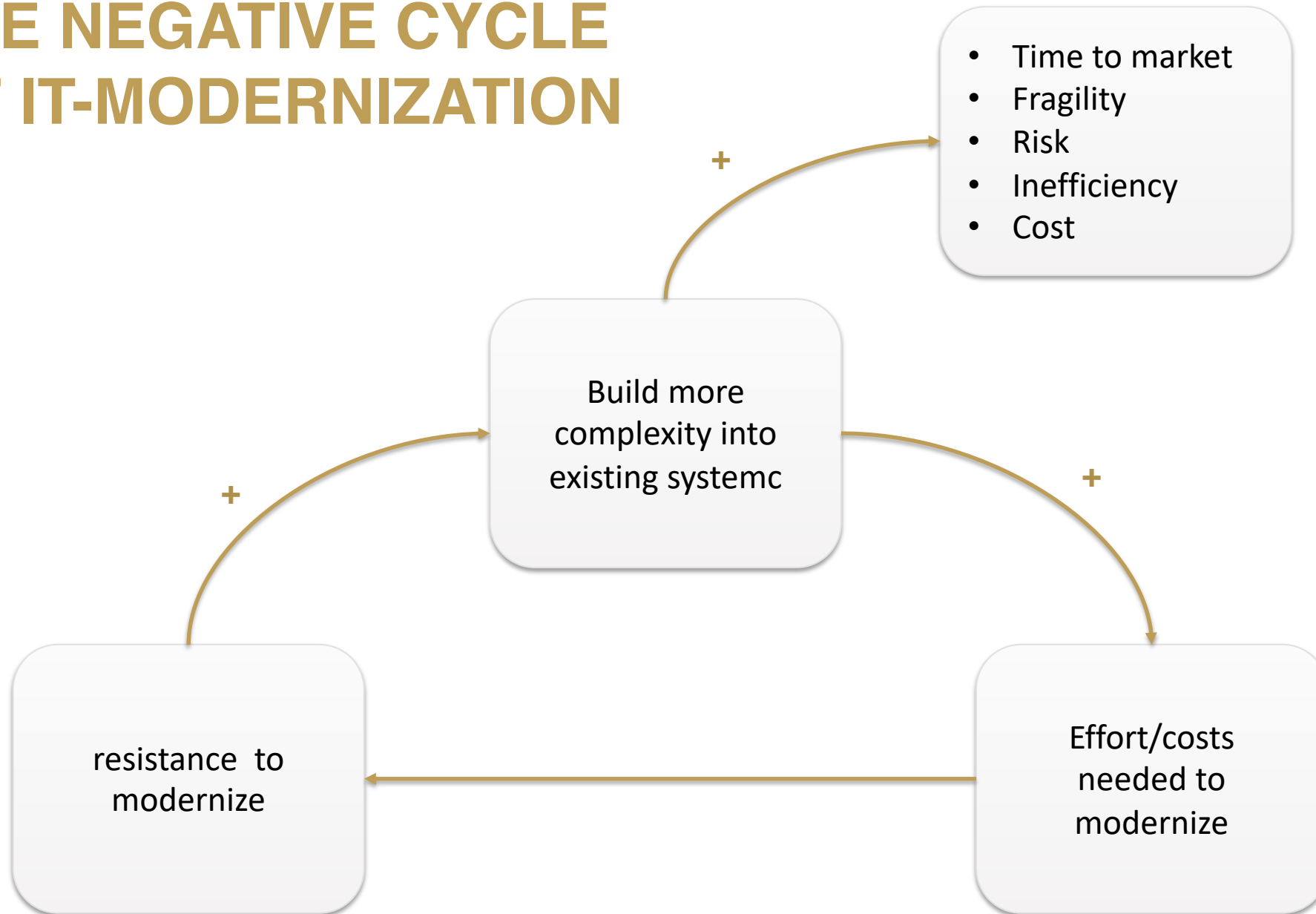
Hint: Don't call them **aggregates** in a workshop with domain experts. Call them **Business Rules** and ask for:

- Preconditions: what must be true before
- Postconditions: what is valid after
- Invariants: important things that remain true all along



IT-MODERNISIERUNG MIT EVENTSTORMING

THE NEGATIVE CYCLE OF IT-MODERNIZATION



BEISPIEL FÜR EINE IT-MODERNISIERUNG

SCHRITT 1

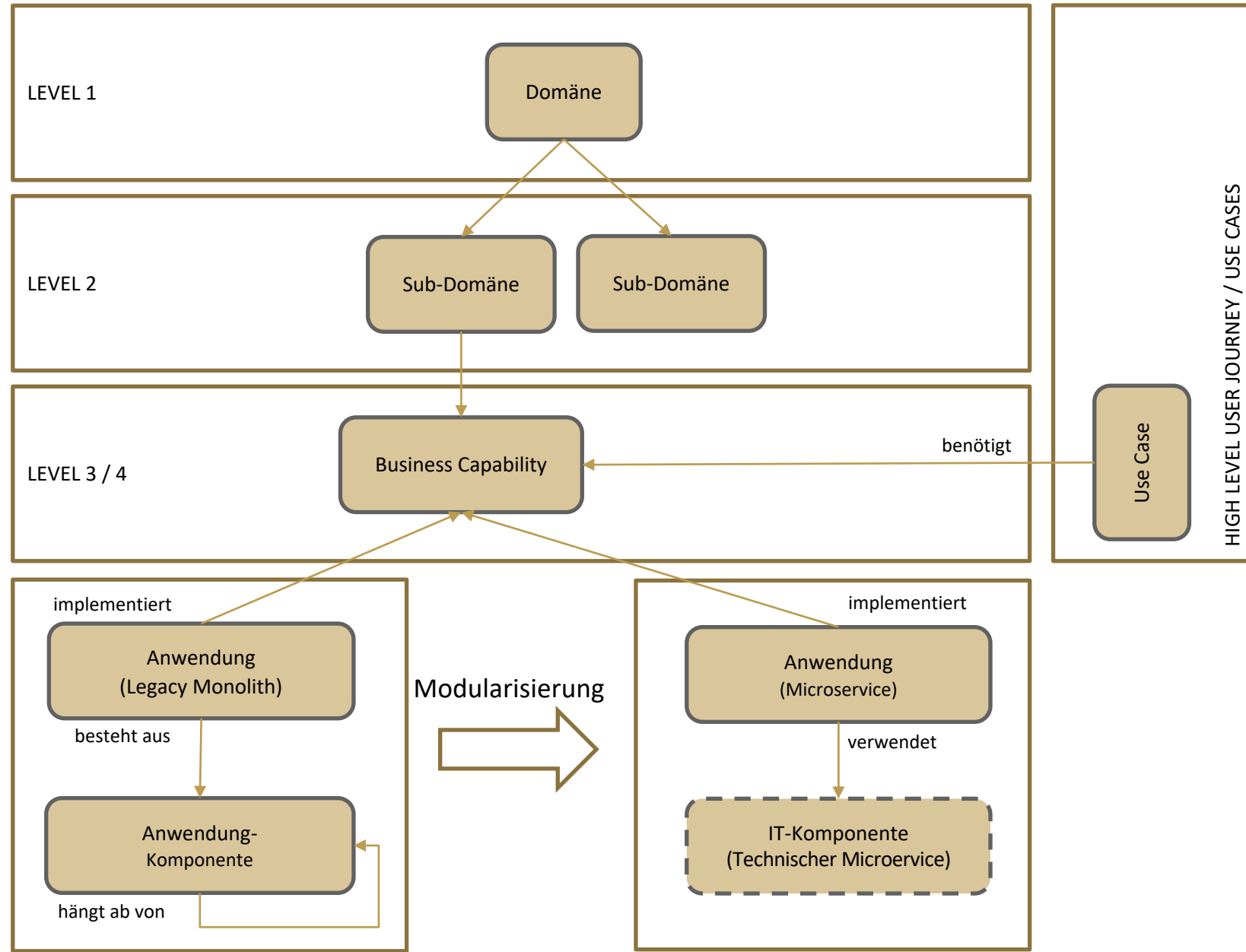
Erarbeite Business Capability Map (BCM) Level 1 und 2

SCHRITT 2

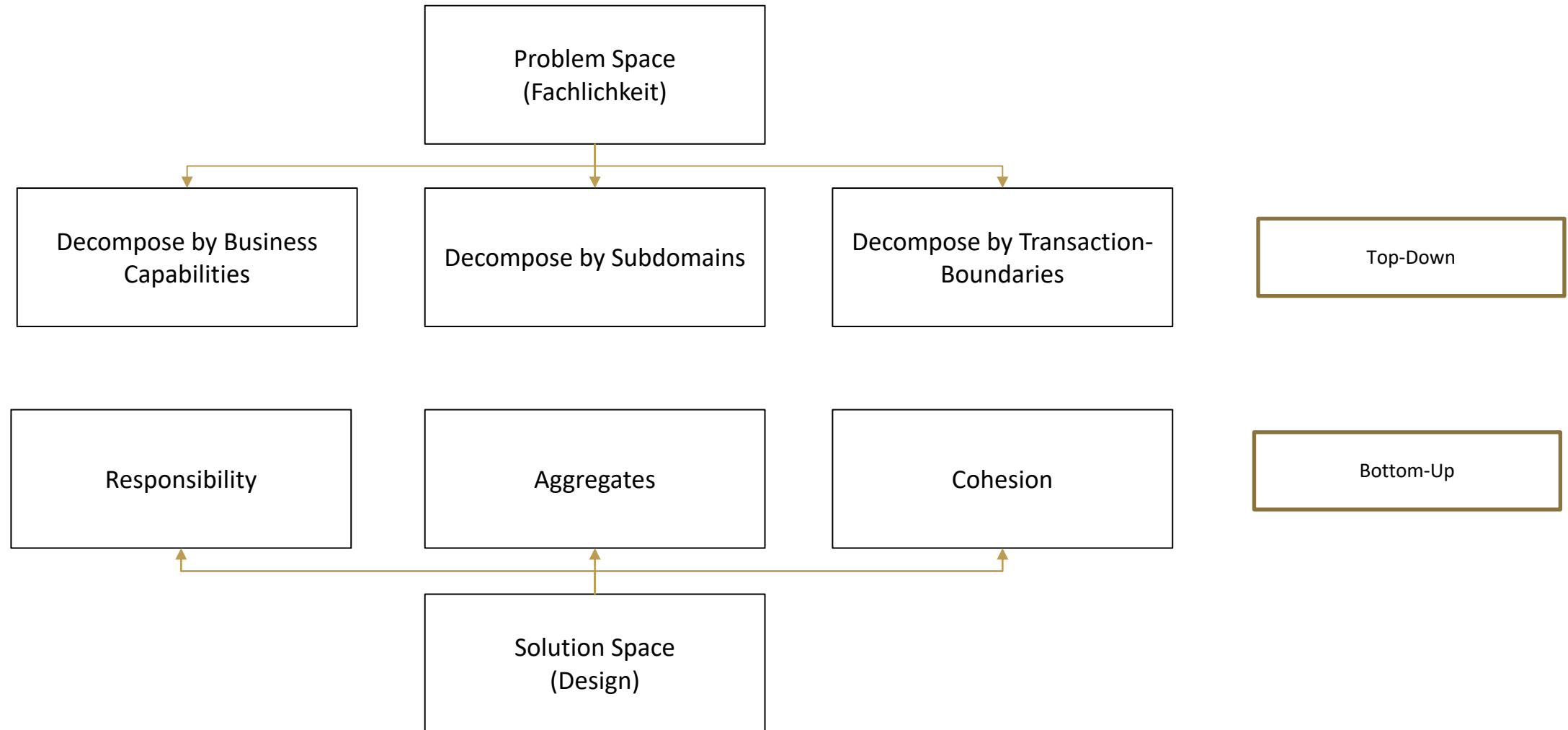
Durchführung Big Picture EventStorming

SCHRITT 3

Durchführen mehrerer Design Level EventStorming



IDENTIFIKATION VON MICROSERVICE KANDIDATEN



FURTHER READING





Event Storming







Event Storming
Alberto Brandolini

FURTHER READING

VISIBLE LEGEND

Example	type	explanation
	Domain Event or more intuitive Event	<p>This is a Domain Event</p> <ul style="list-style-type: none">• Orange sticky note• Phrased at past tense (verb at past tense).• Relevant for domain experts. <p>Building block of our business-related storytelling</p>
	Command	<p>This is a Command</p> <ul style="list-style-type: none">• Blue sticky note• action performed by a user (or system)
 	User (or system)	

VISIBLE LEGEND

Example	type	explanation
	Policy	<p>This is a Policy</p> <ul style="list-style-type: none">• Lilac sticky note• Missing glue between an event and a command <p>Whenever event then command</p>
	ReadModel	<p>Data to be displayed to a user in order to make a decision.</p>
	Aggregate	<p>Units of transactional consistency State machines (invariants, candidates for resources)</p>
	View or User Interface	