

Insights via System Thinking and Modeling

Practicing and Sharing

LeSS meetup Munich 2020 – michael.mai@valtech.com

Agenda

■ Notation

- Explained on Example

■ Prepared Exercise

- System to model provided
- Variables provided
- Debriefing
- Experiment to run

■ Choosing variables wisely

■ Open Exercise

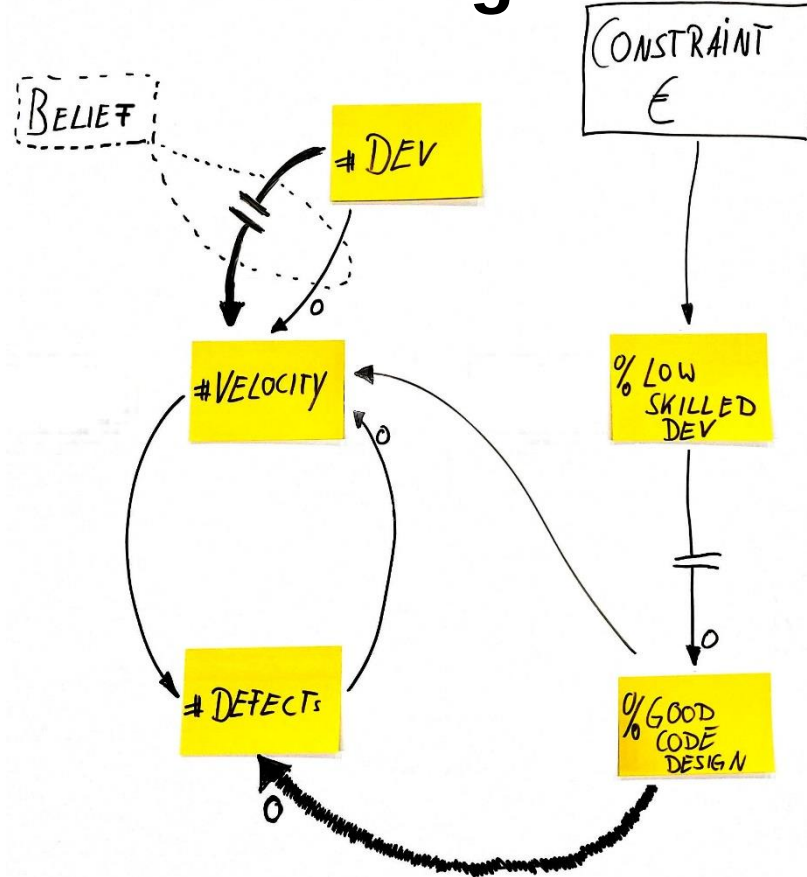
- Debriefing
- Experiment to run

01

section

Notation of System Modeling

Notation of System Modeling



02

section

Prepared Exercise

Systems Thinking Exercise

- What is needed to make an adoption stick?

Systems Thinking Exercise

What's needed to create ownership?

■ Sketch a systems model, given this:

- You are going to start your first large agile adoption and you would like to make sure that you are benefitting from a Framework. What's needed to create ownership?

1. # Framework (FW) benefits
2. % well adopted FW structures, rules
3. % Employees understand why
4. % Employees identify themselves with the change
5. % Management involves employees in decision making
6. # FW blanks (to be filled by the product group)
7. Likelihood employees fall back into old habits/structures when problem arise

Systems Thinking Exercise

What's needed to create ownership?

- Debriefing
- Your proposed experiment

03

section

Choosing Variables wisely

Variables in System Models

How to find variables

There is no prime way to identify working variables. Try these:

- Listen to the discussion and consider **nouns** as variables

- Progress **from one to the next** by asking

- ☐ What does this influence
- ☐ How is it influenced

- Start from the **system optimizing goal**

- Don't confuse causal with correlation relation

04

section

Open Exercise

Try in your group

... some idea

In your study group ...

- Decide on a Model
- Identify Variables
- Start a Conversation
 - ... and model in parallel
 - ... devise an experiment

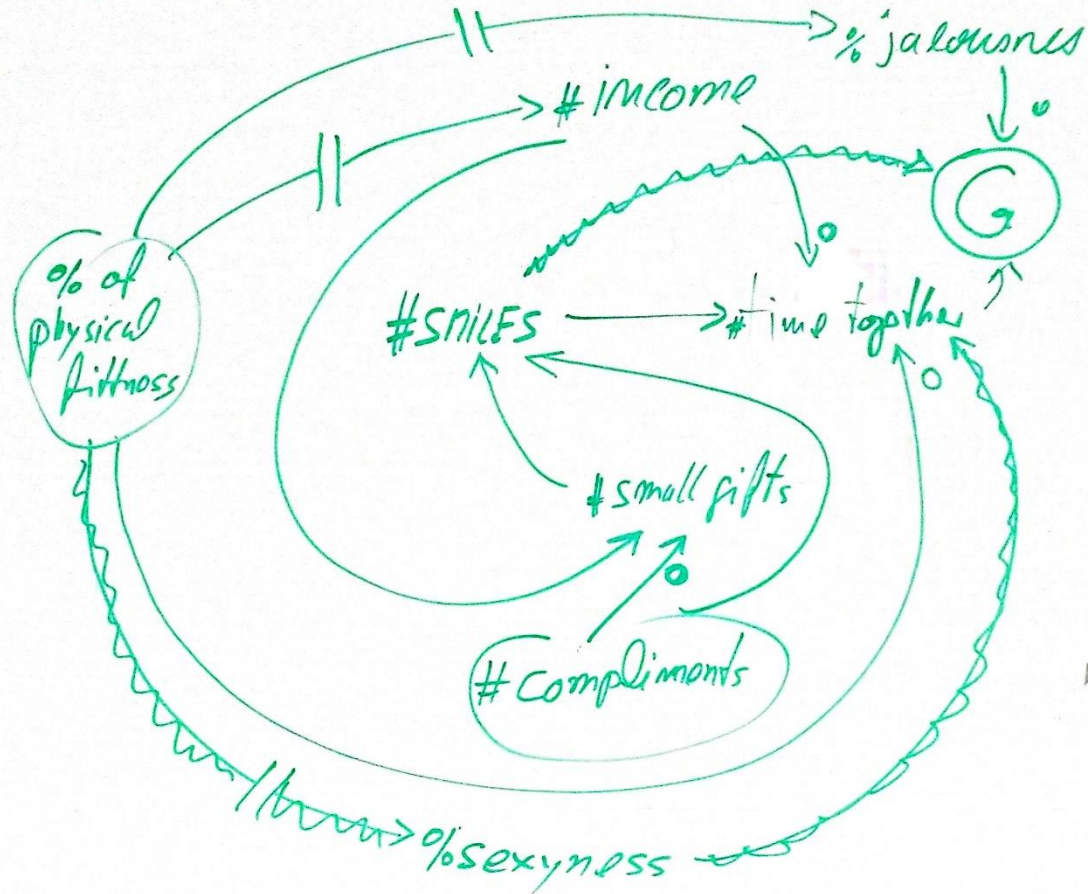
In Plenum

- Debriefing
- Present your experiment

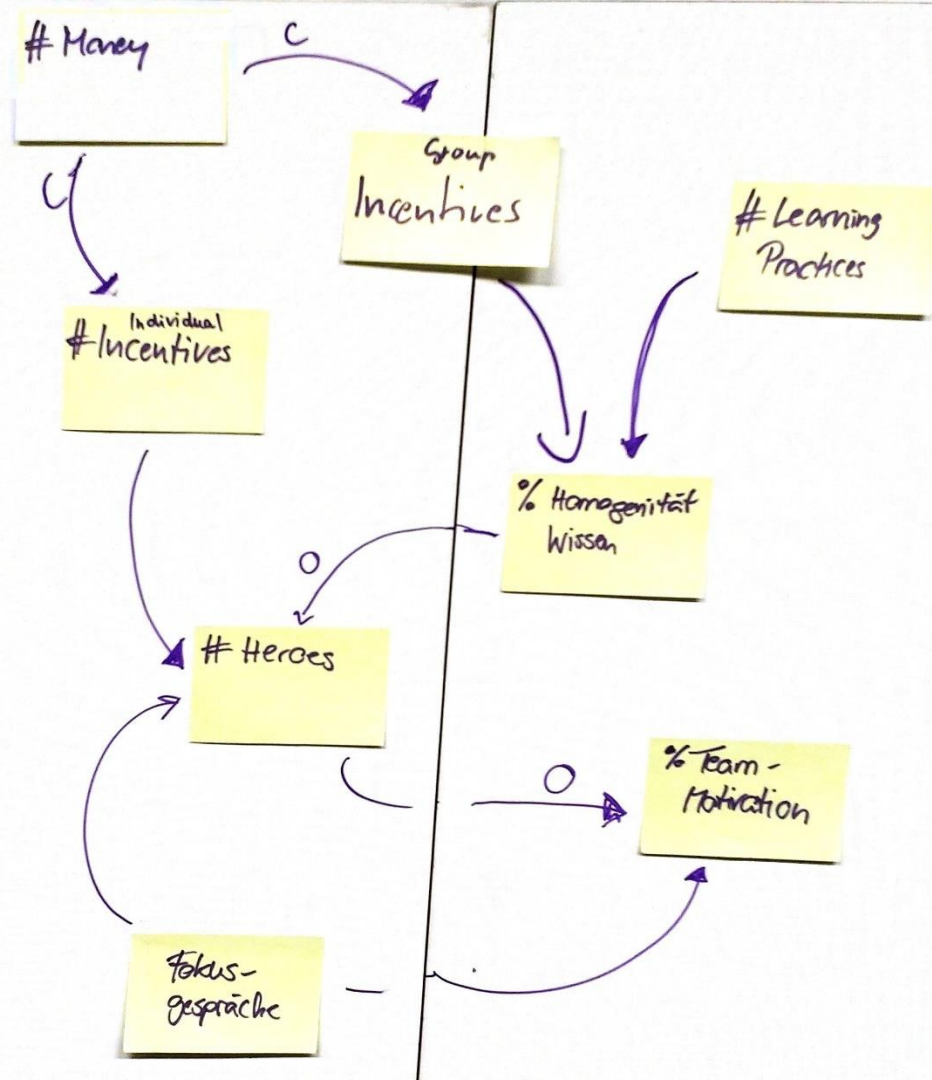
Ideas for possible Models

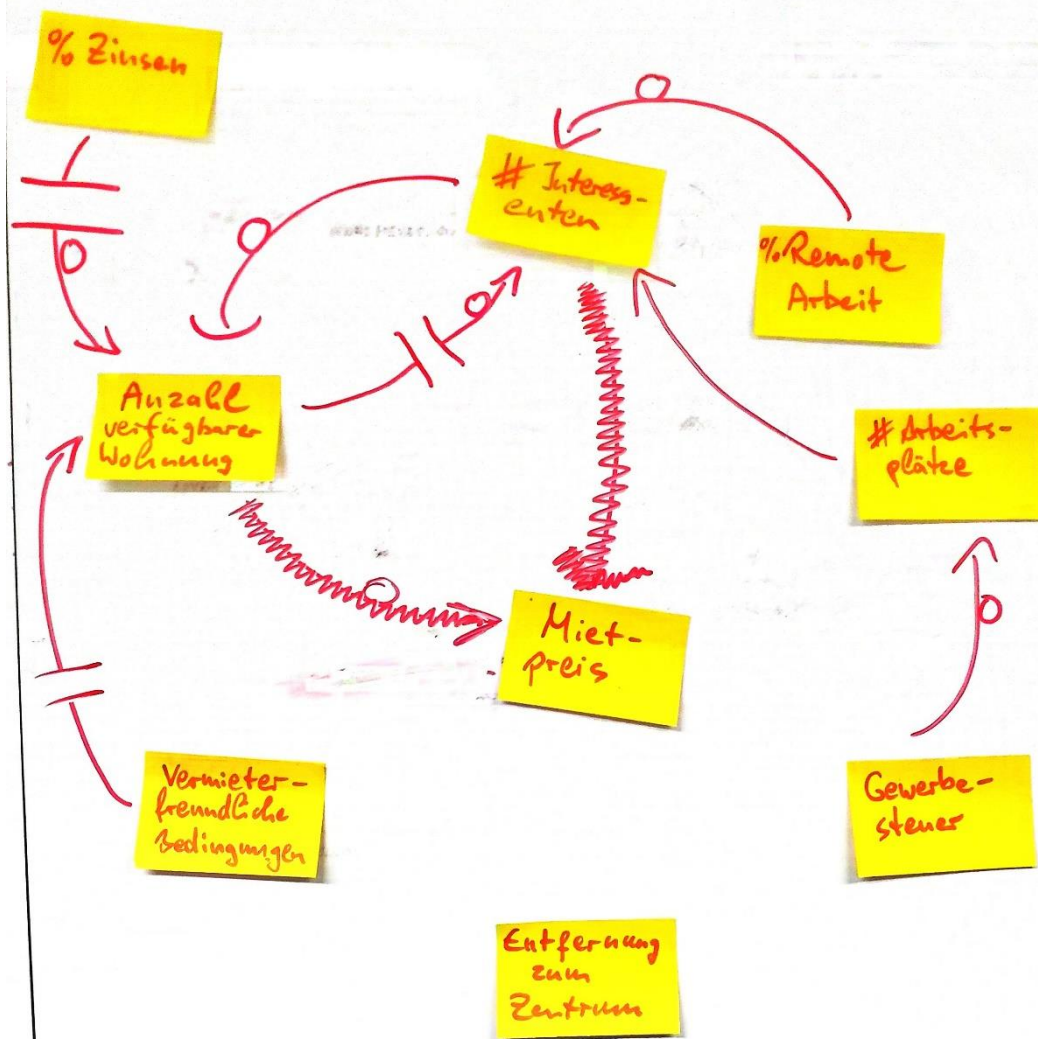
- Rental prices in your city
- Hero culture and learning in your organization
- Certification Cargo Cult vs. acquired actual skills and abilities
- World warming
- Electric Mobility
- Antifragile organization design

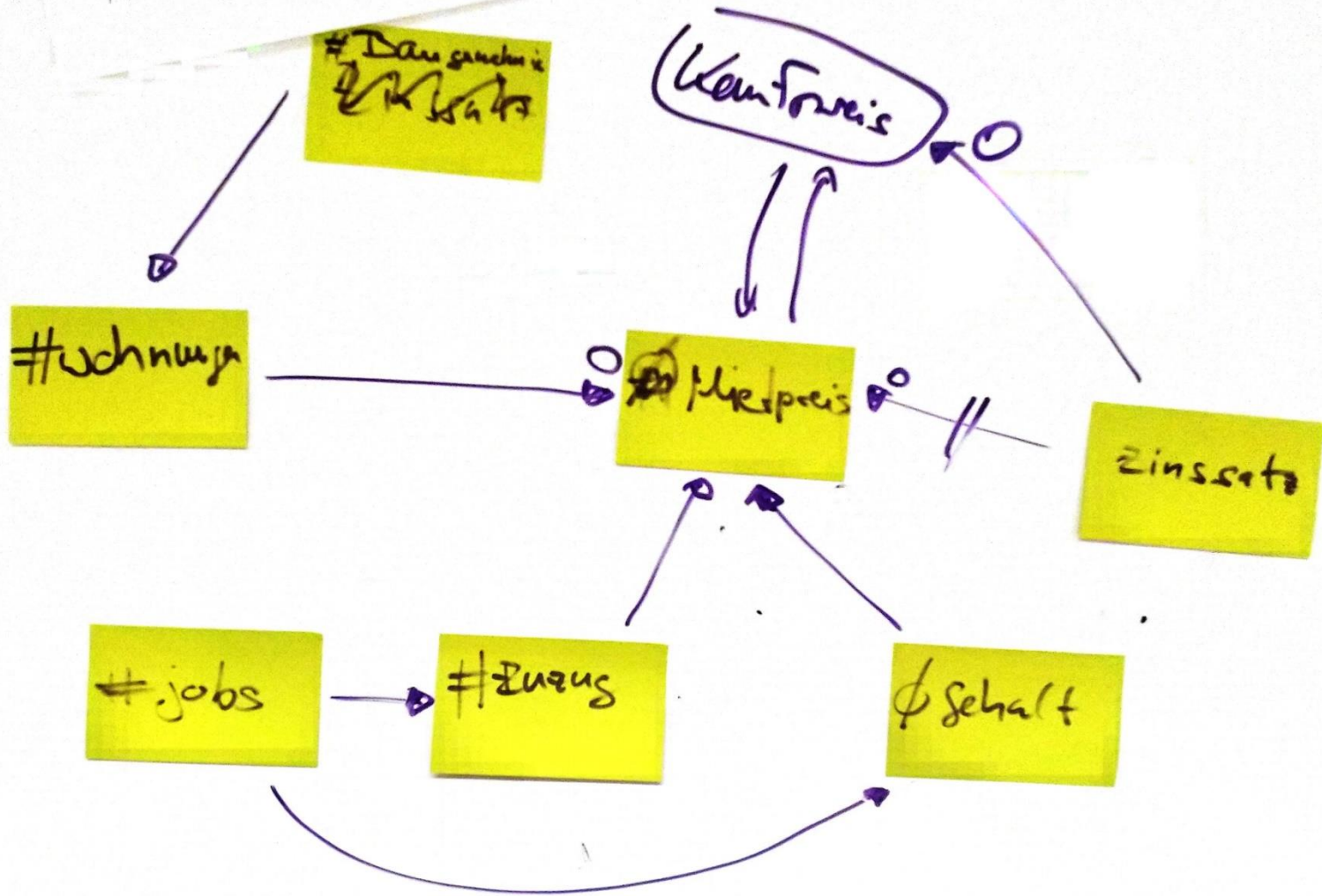
Better ^G relationship to my partner:

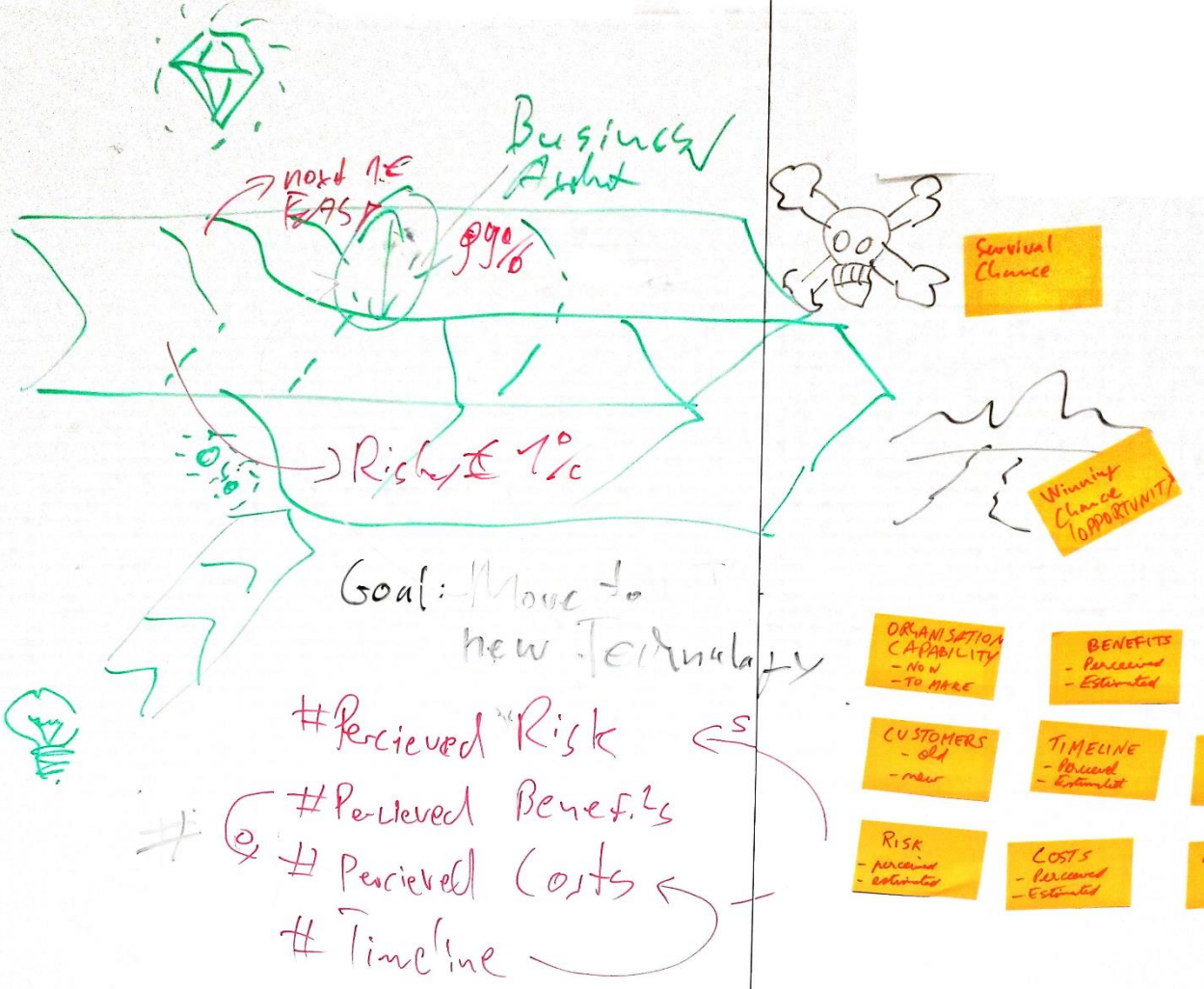


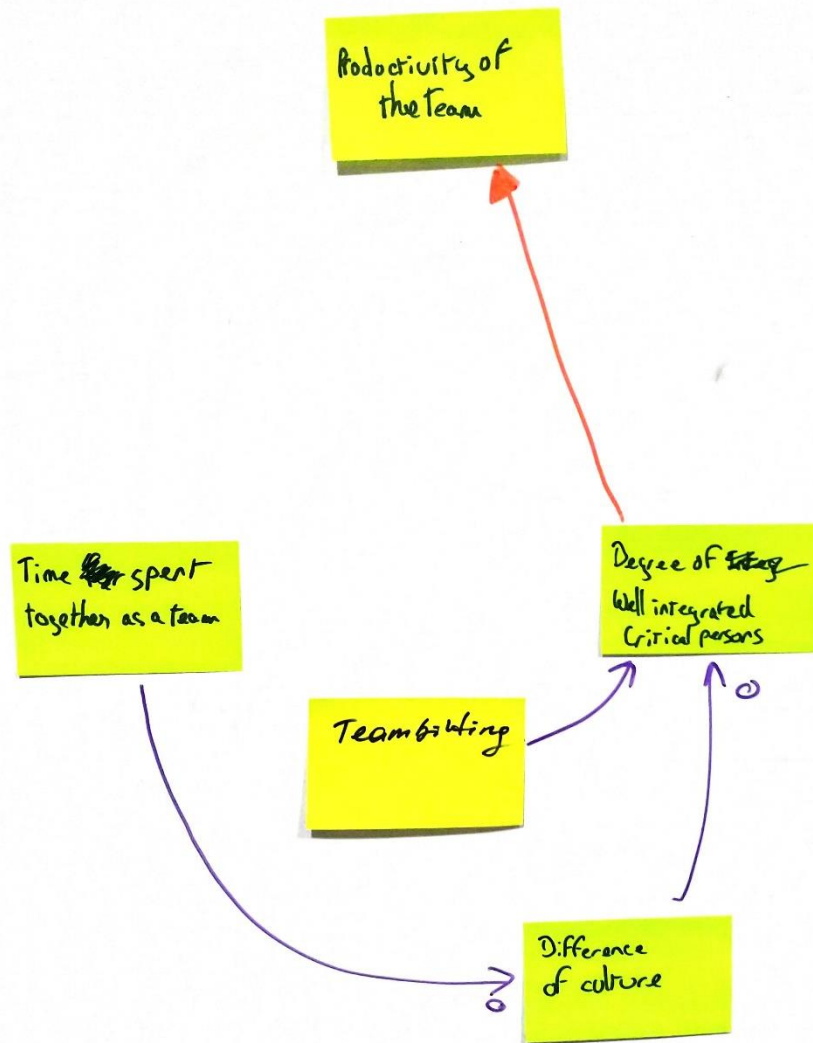
Hero culture
and learning
in your Org











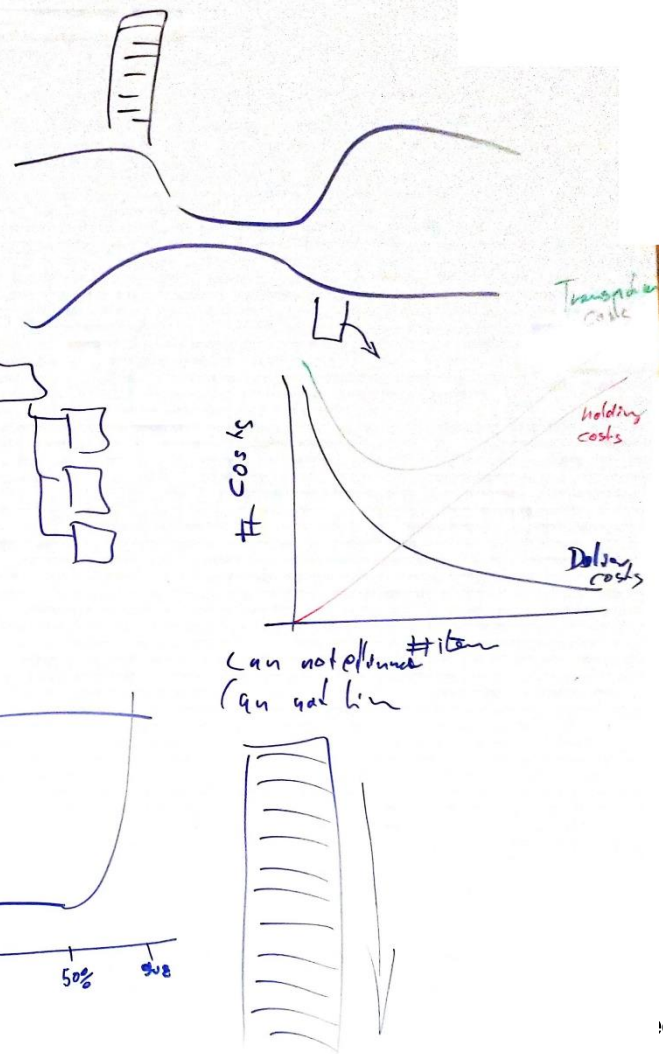
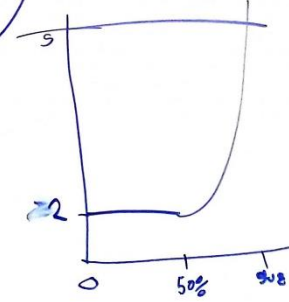
Need for
Business
Flexibility



Planning
Horizon

Releases

Transaction
Costs



Debriefing



section

Announcements

Announcements

Meetup

- “LeSS-Coaches in der Ambivalenzfalle: Wie komm ich raus aus dem Teufelskreis?”
 - Thu Feb 20th, start networking 18:30, start session 19:00, German

Public Training

- Test Driven Development (Java) - How to write executable specification
 - Java, 2 days, 04.05.2020 – 05.05.2020
- Clean Code (Java) - Coding for your Current and Future Workmate
 - Java, 3 days, 06.05.2020 – 08.05.2020
- LeSS in Action
 - 5 days, t.b.d.

thank you

<http://www.agilesoftwaredesign.de/posts/2020/insights-via-system-thinking-and-modeling/>