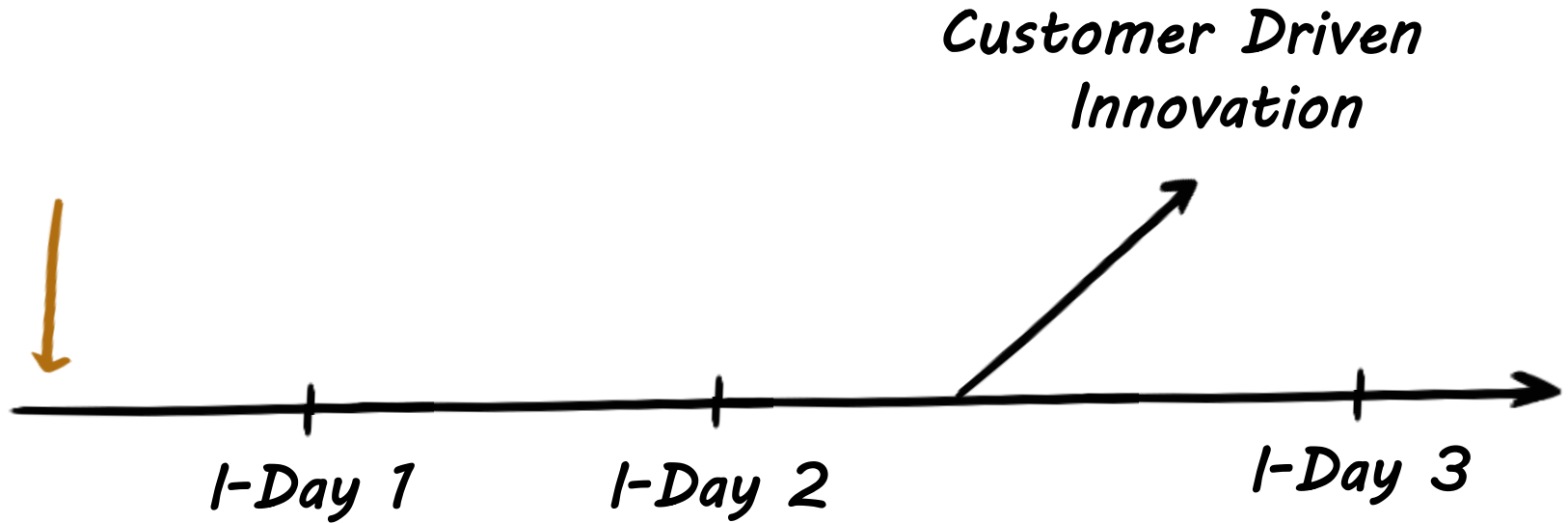


# INNOVATION IN A CMMI 5 COMPANY – THE STORY

**Karsten Telling Nielsen**  
*Systematic*

# The story



# Creativity vs. Innovation



## adjective

relating to or involving the use of the imagination or original ideas to create something:

*change unleashes people's creative energy*

*creative writing*

- having good imagination or original ideas:  
*a creative team of designers*

## verb

[no object]

make changes in something established, especially by introducing new methods, ideas, or products:

*the company's failure to diversify and innovate competitively*

- [with object] introduce (something new, especially a product):  
*we continue to innovate new products*



*Creative*



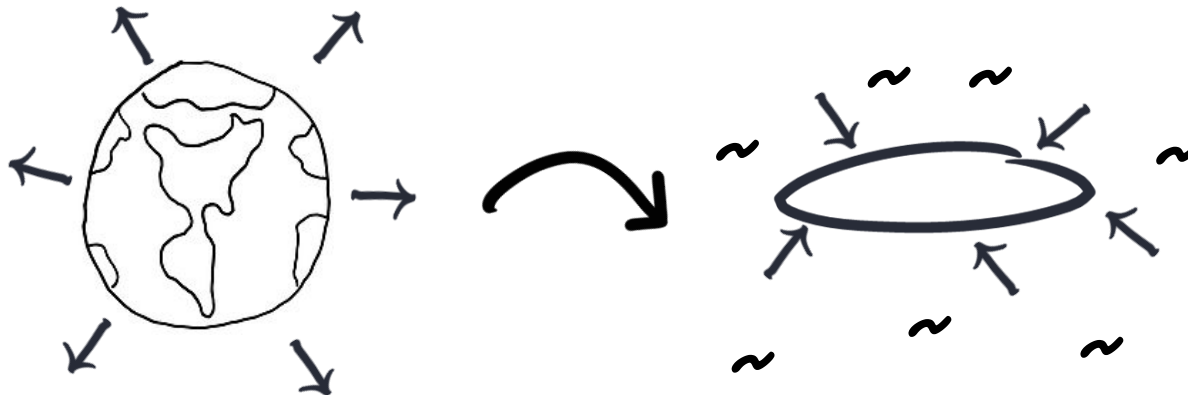
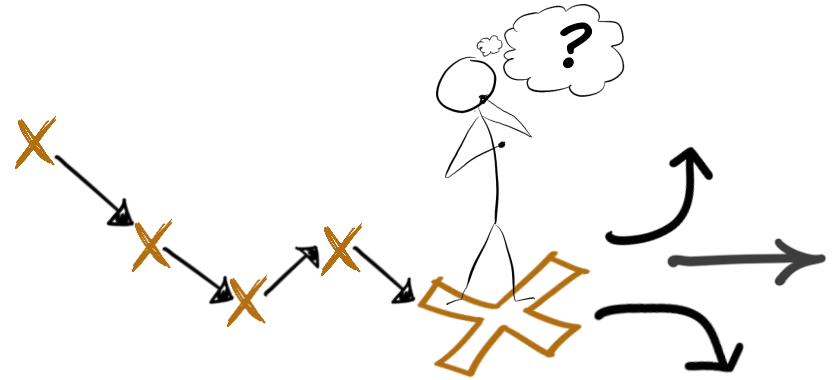
*Innovate*

# Contingent world

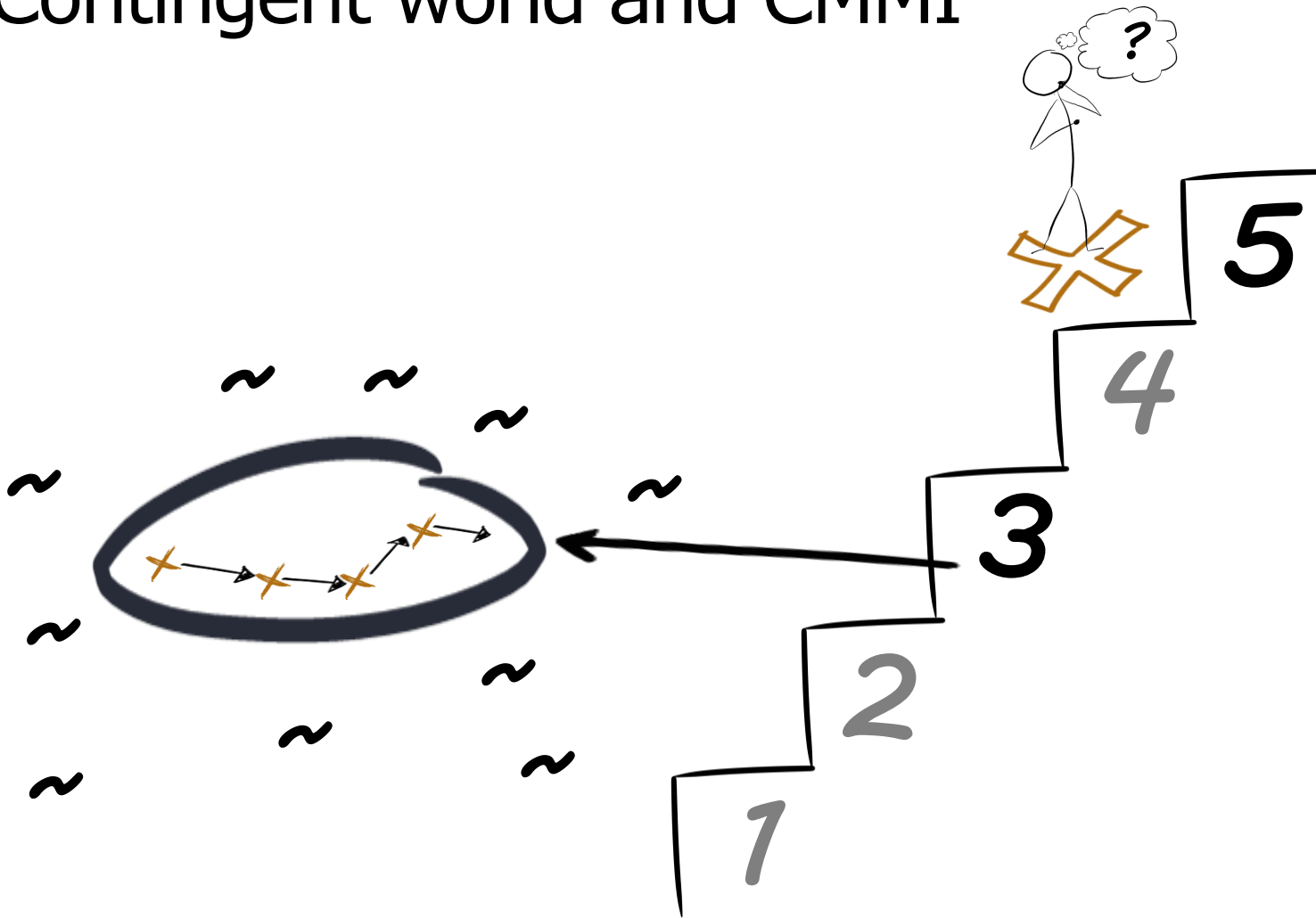


*Aristotle on contingents:*

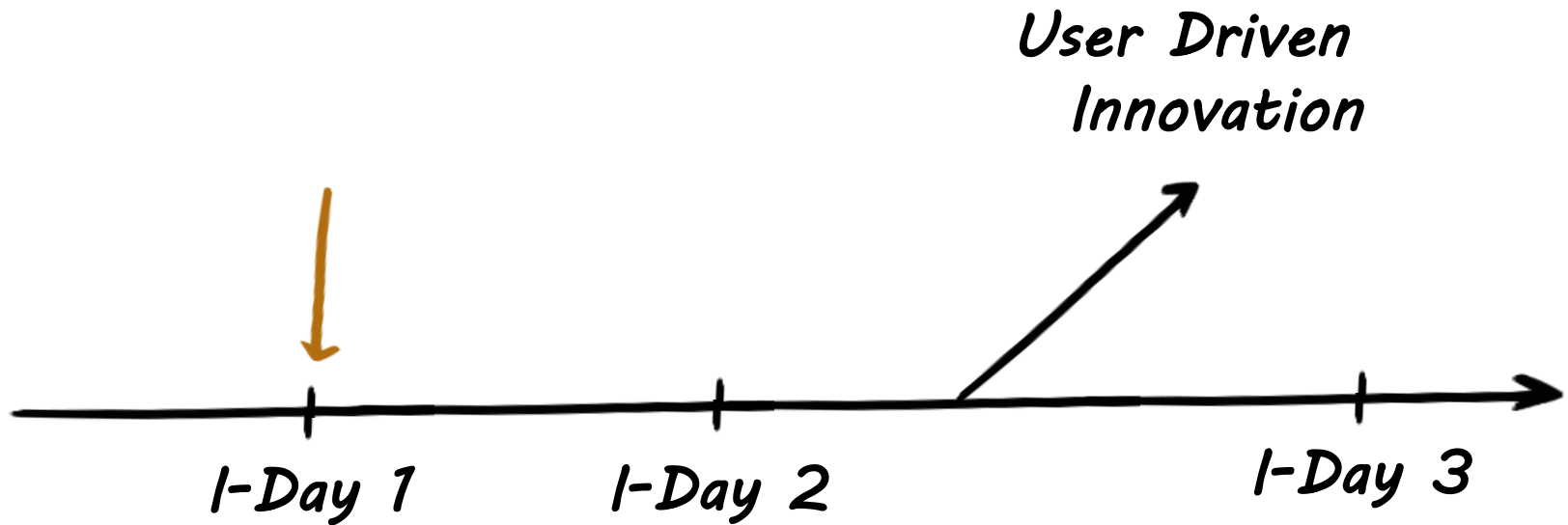
*“unavoidable and potentially unmanageable presence of multiple possibilities”*



# Contingent world and CMMI



# The story

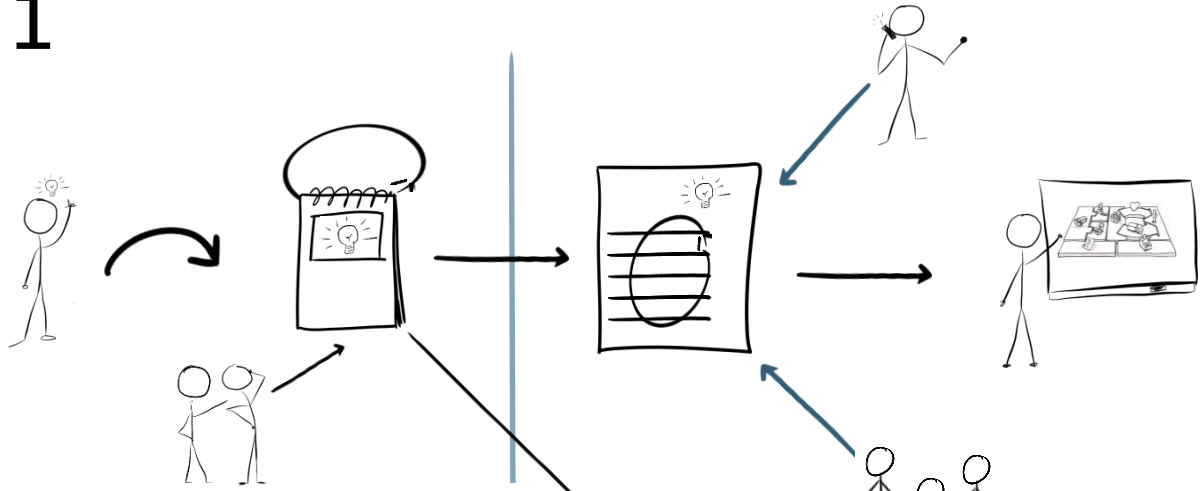




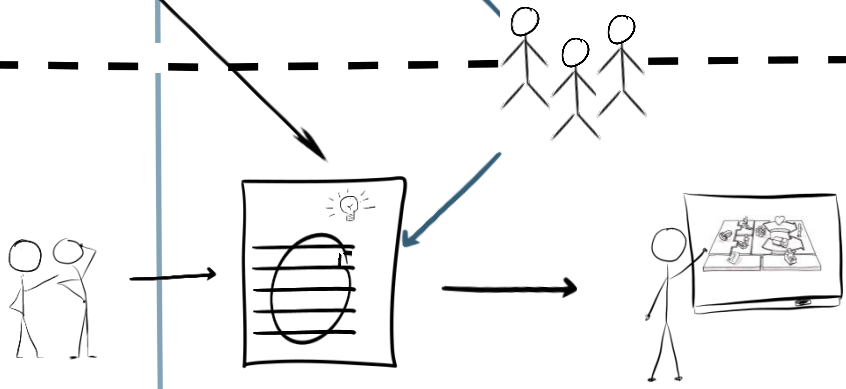
# I-Day 1



1



2

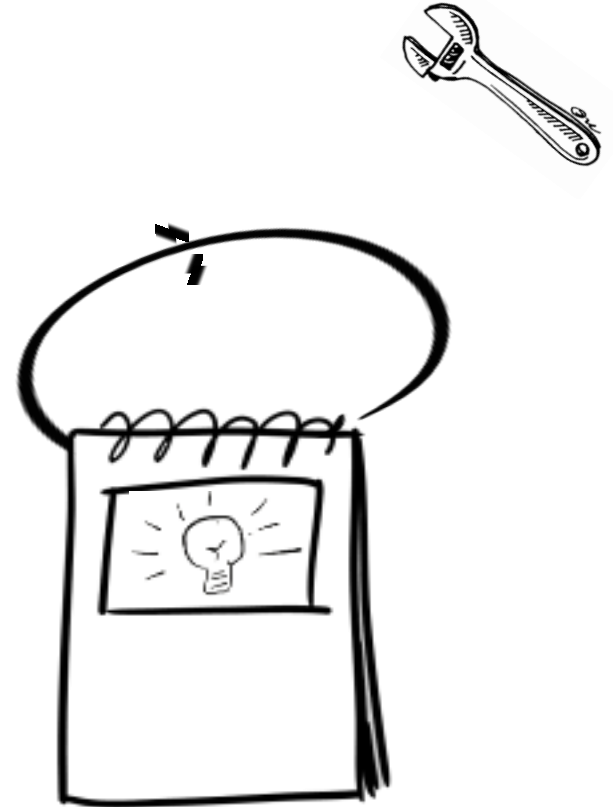


3



# Ideation phase

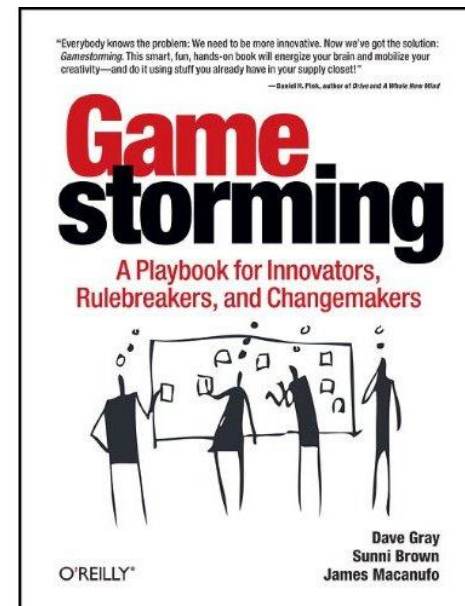
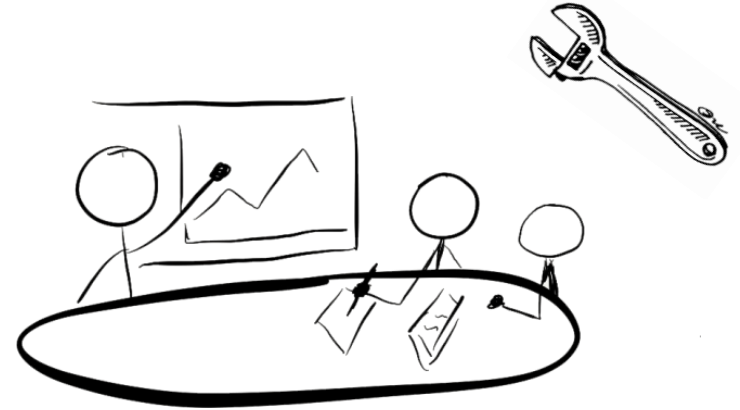
- *It did not work*
- *Very few discussions*
- *Missing culture for ideation*



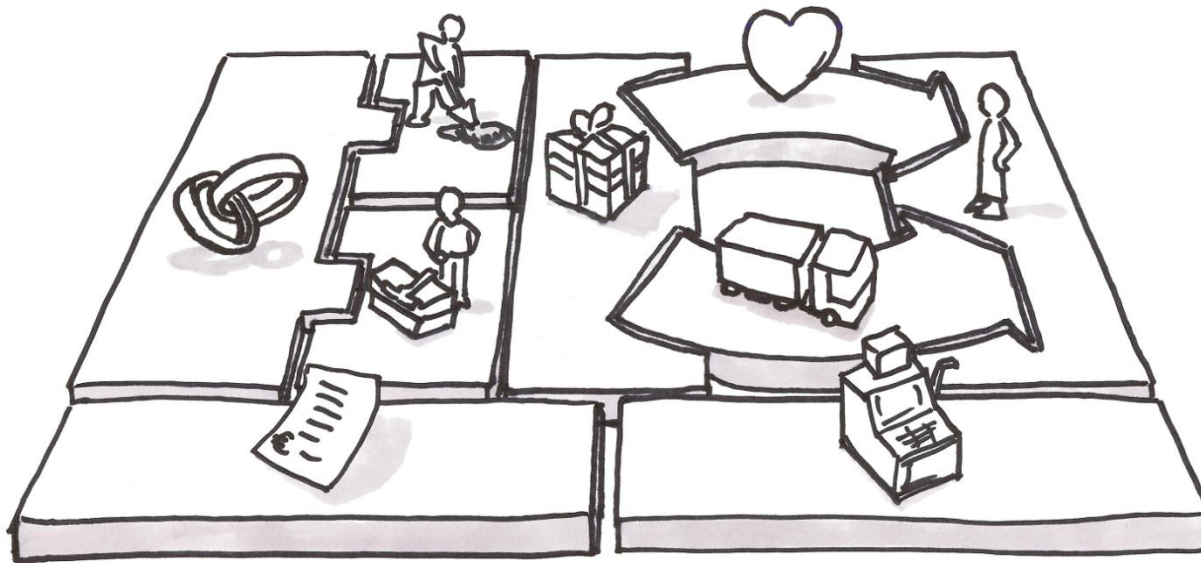


# Facilitation

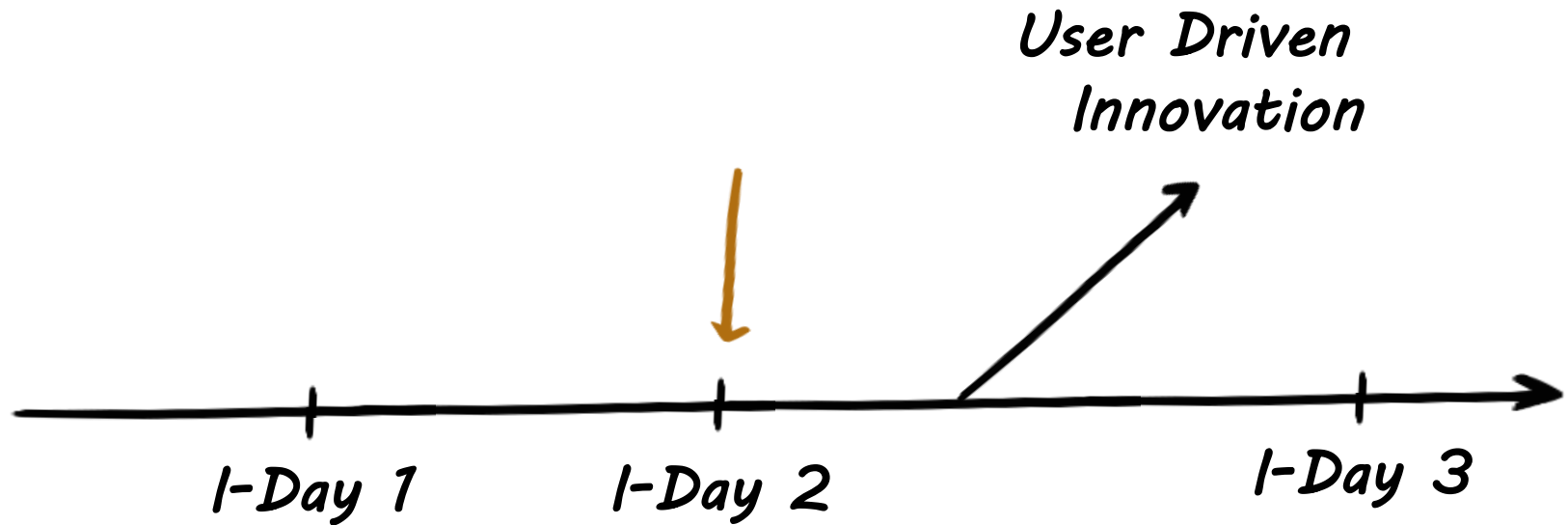
- *Facilitation of groups*
- *Trained facilitators*
- *Have a good toolbox*
  - *Business canvas*
  - *Game storming*



# The business model canvas

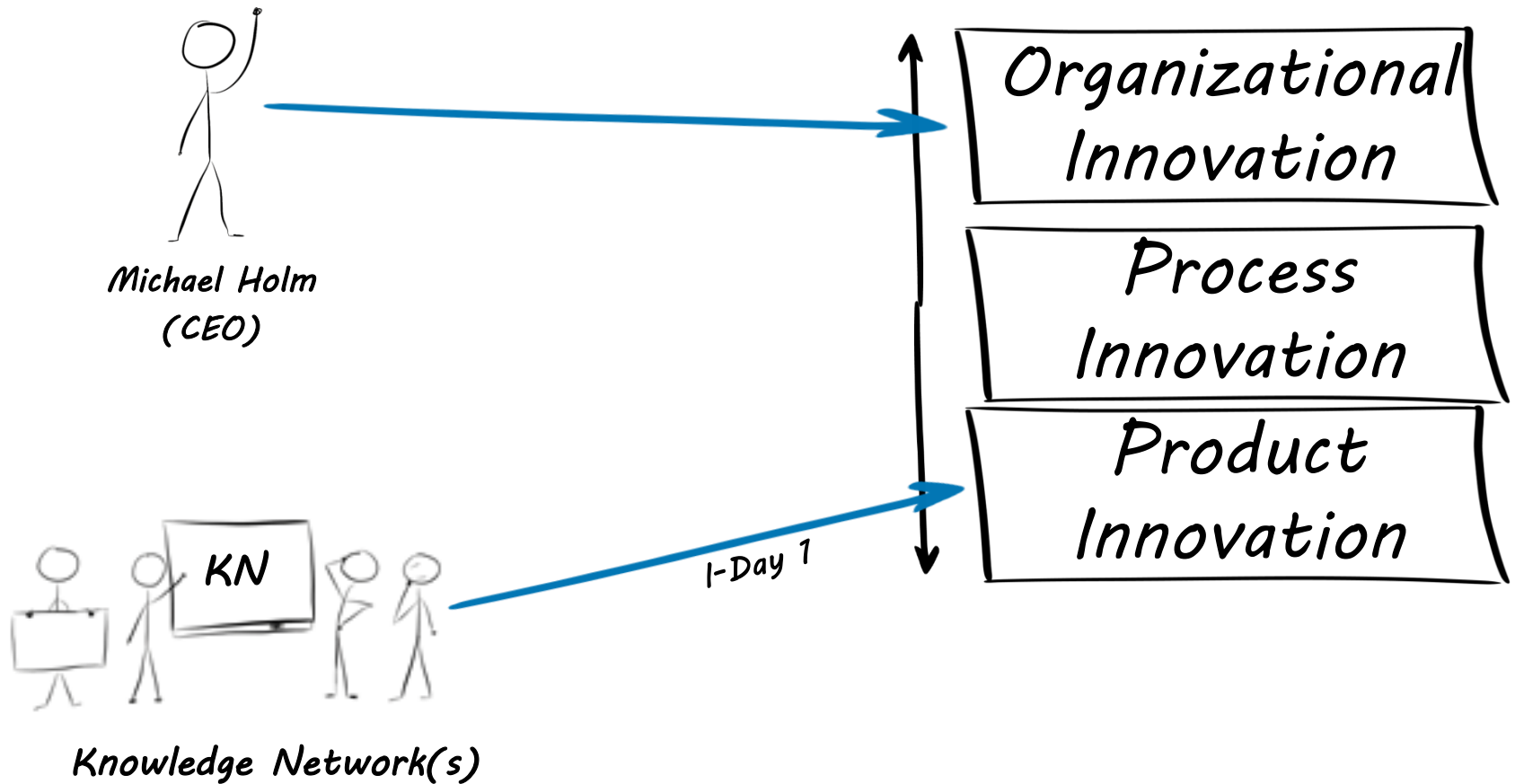


# The story



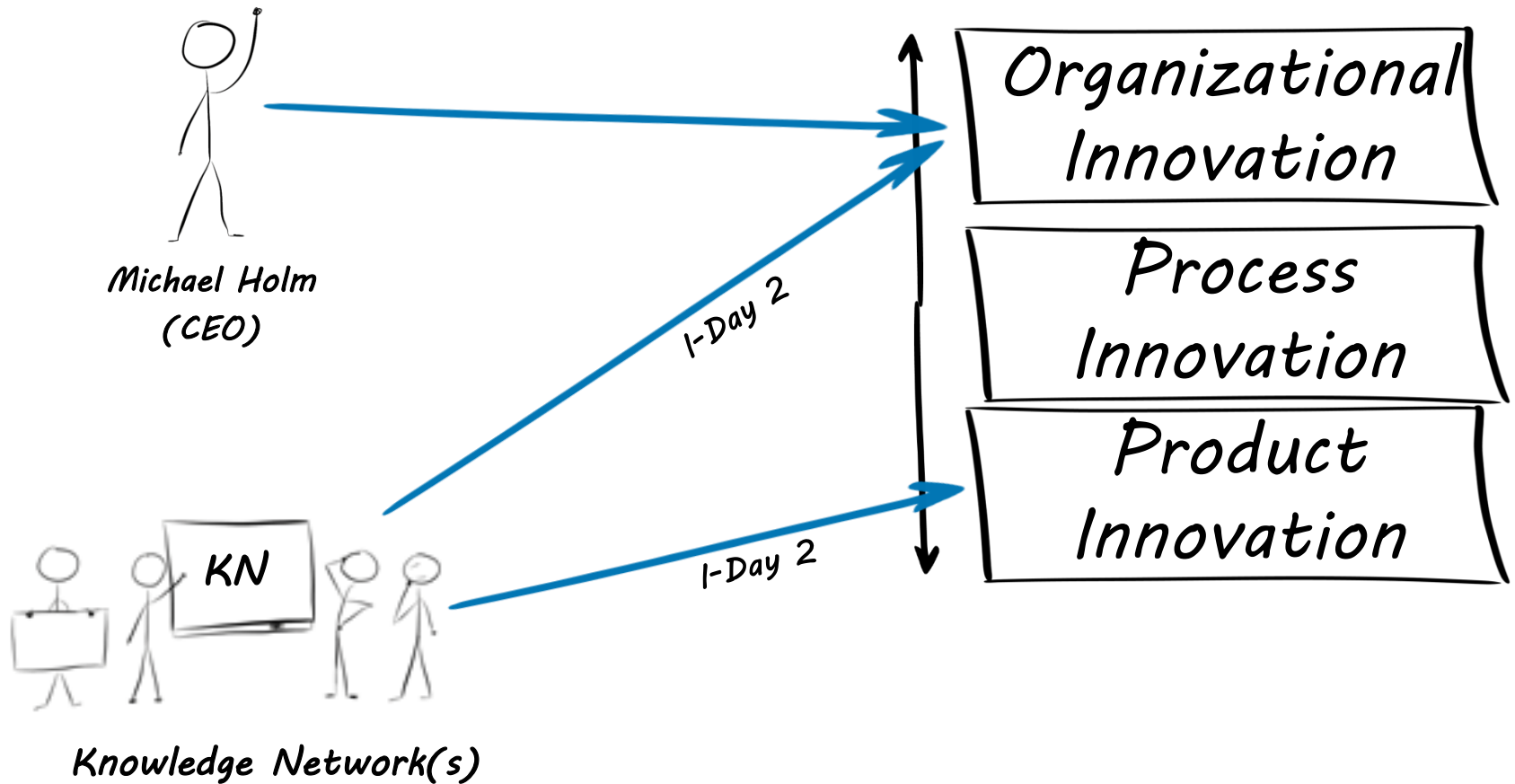


# Approaches to innovation





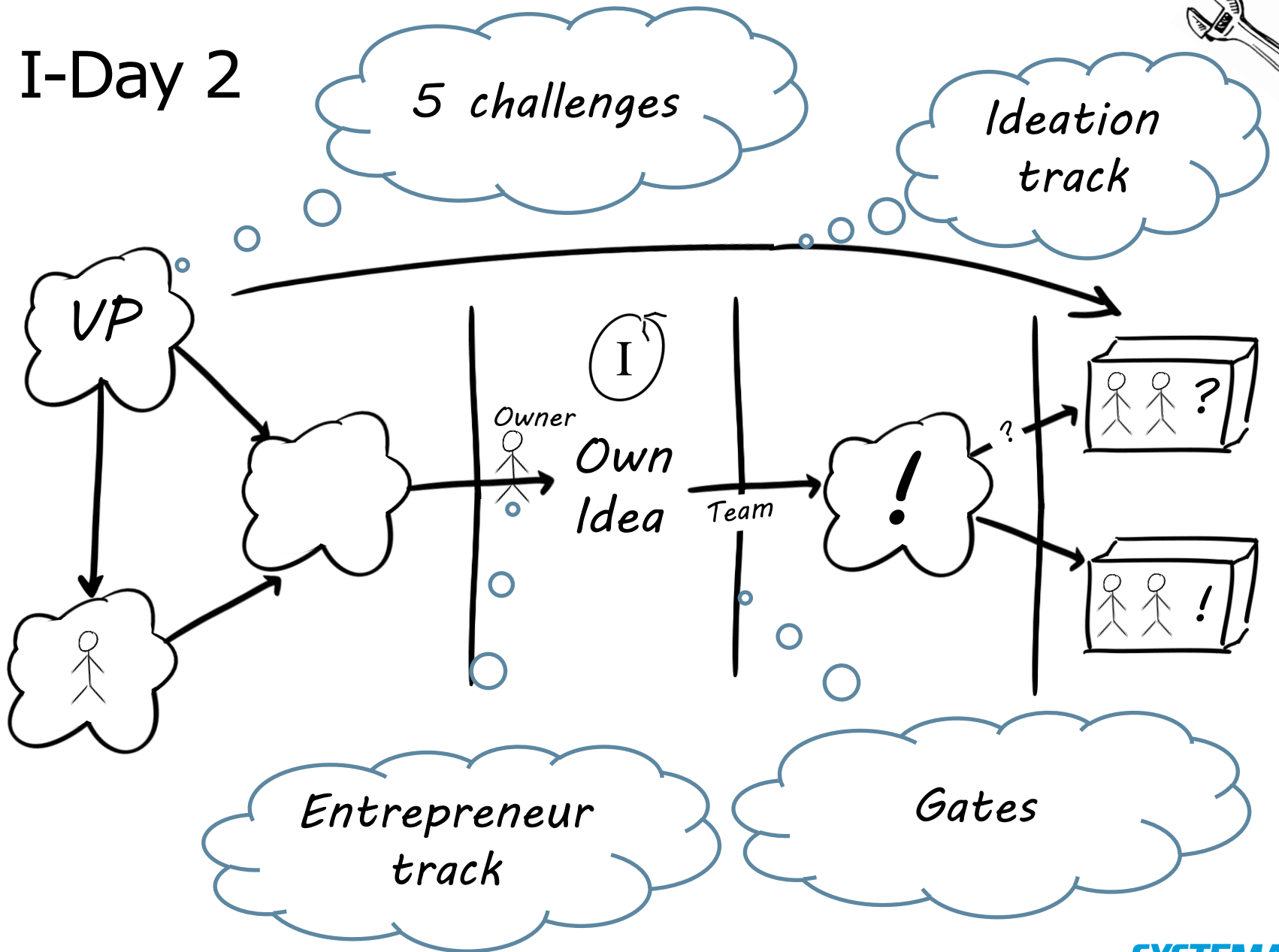
# Approaches to innovation







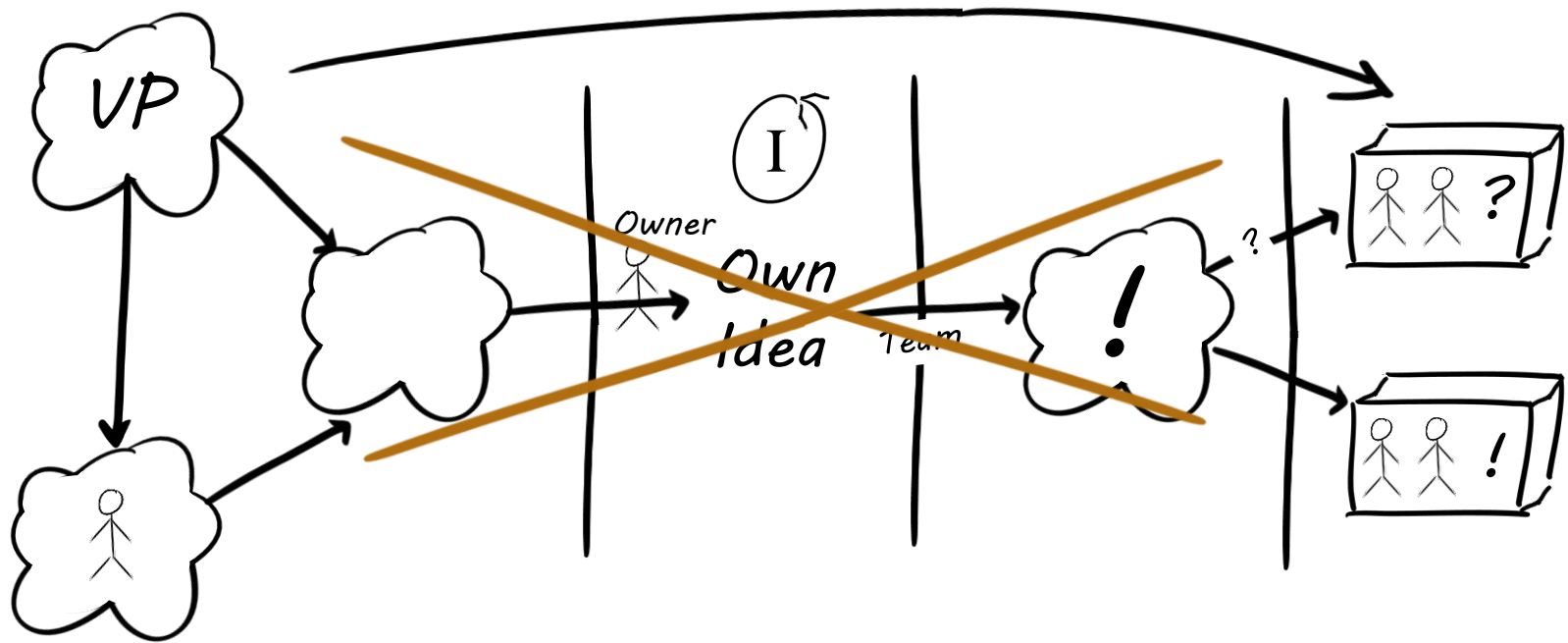
# I-Day 2





# I-Day 2

## Executed for I-Day 2



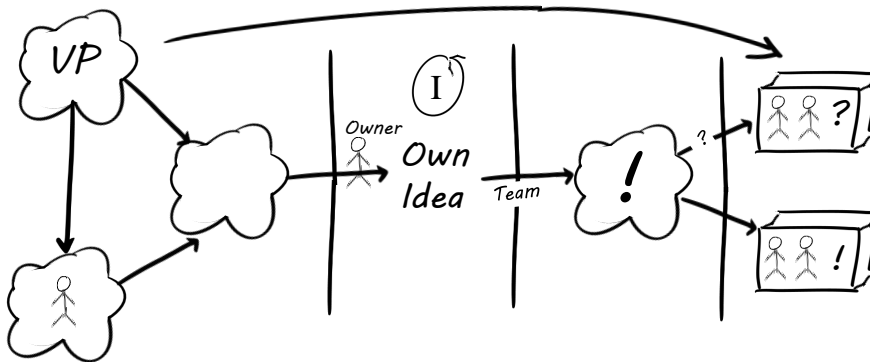




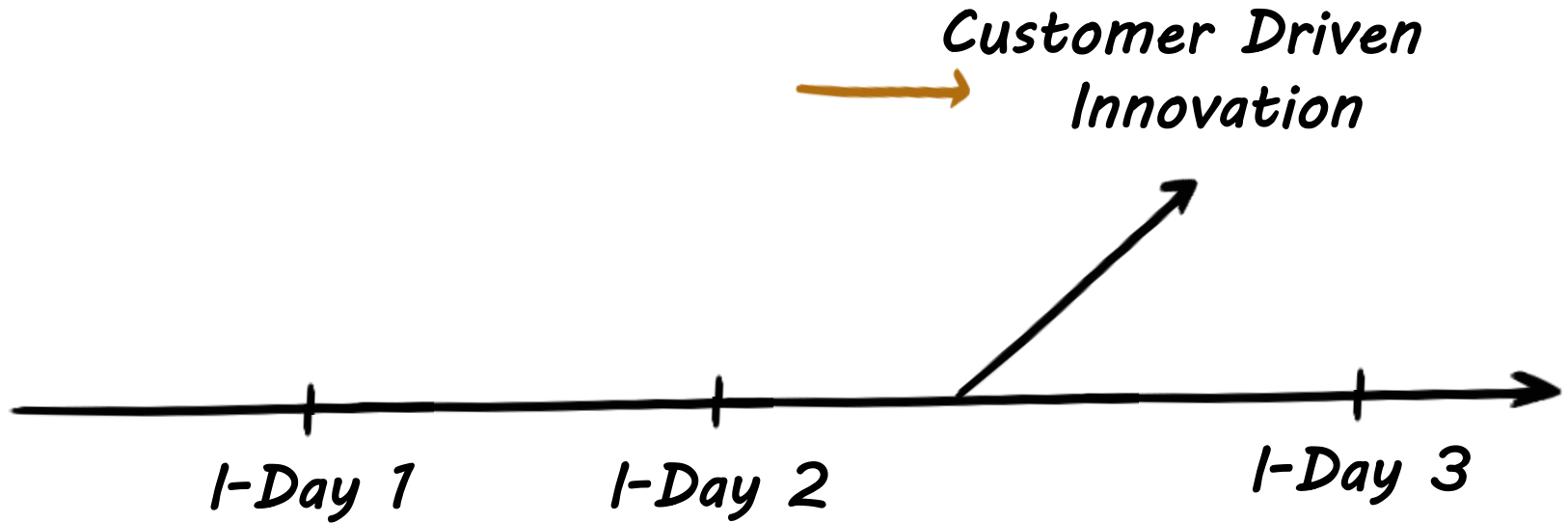
# I-Day 2

## Lessons learned

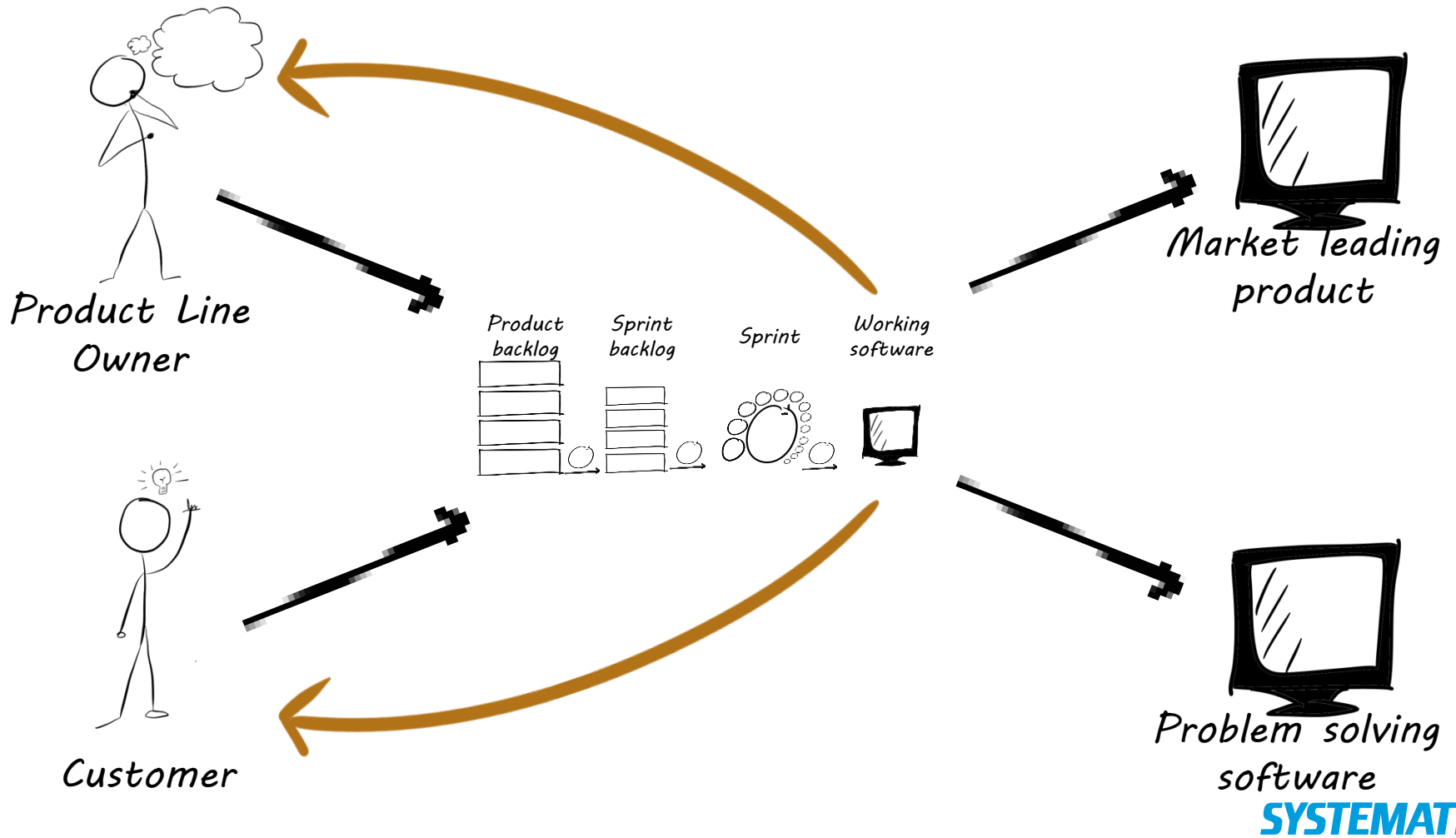
- *Involve management early*
  - *They must know the plan and have influence on it*
  - *Make clear what is in it for them*
- *Real sponsors must be present*
- *Challenges must be very good*
- *Ensure a shared vision by all organizers*



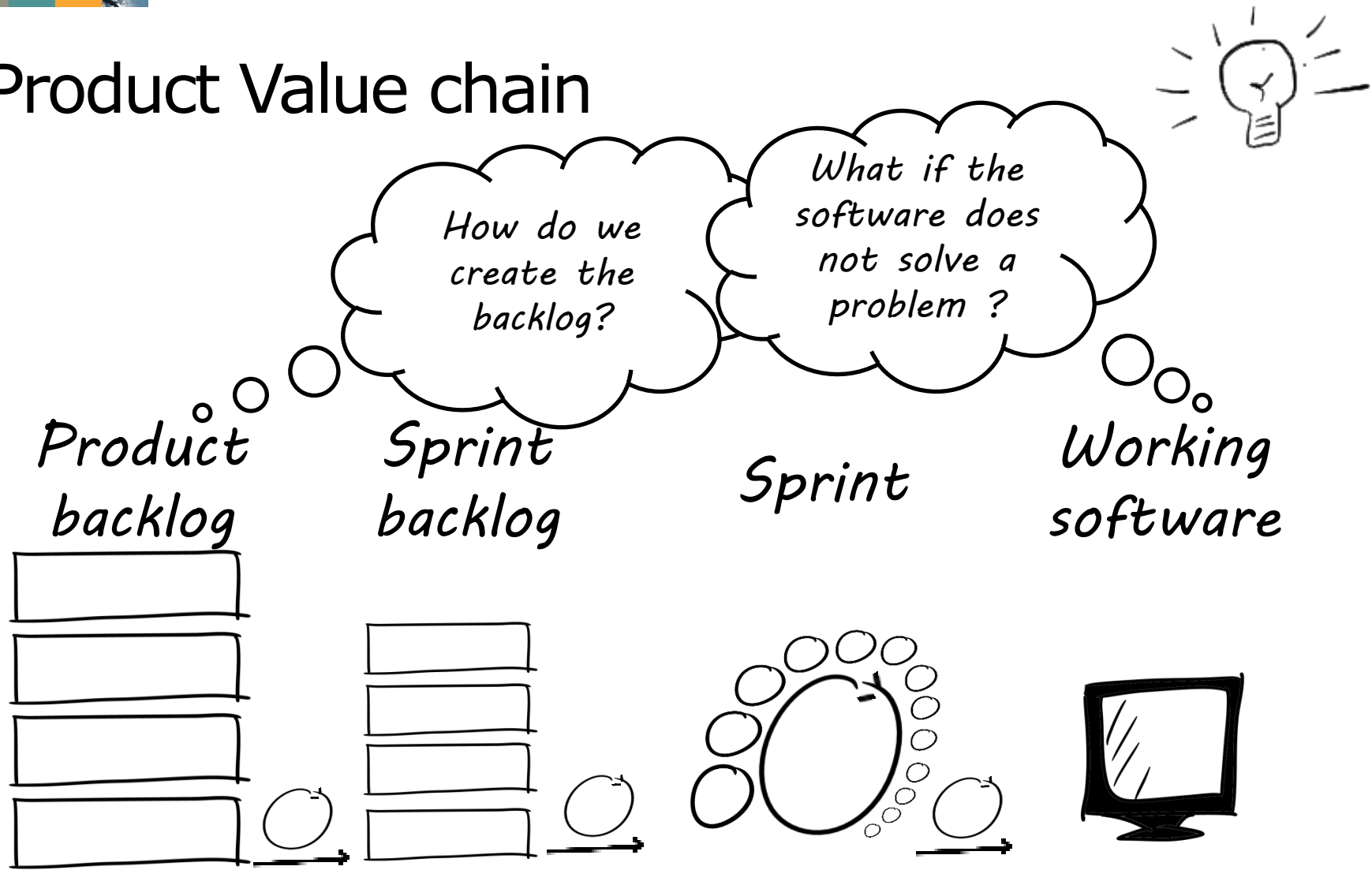
# The story



# Software value chain

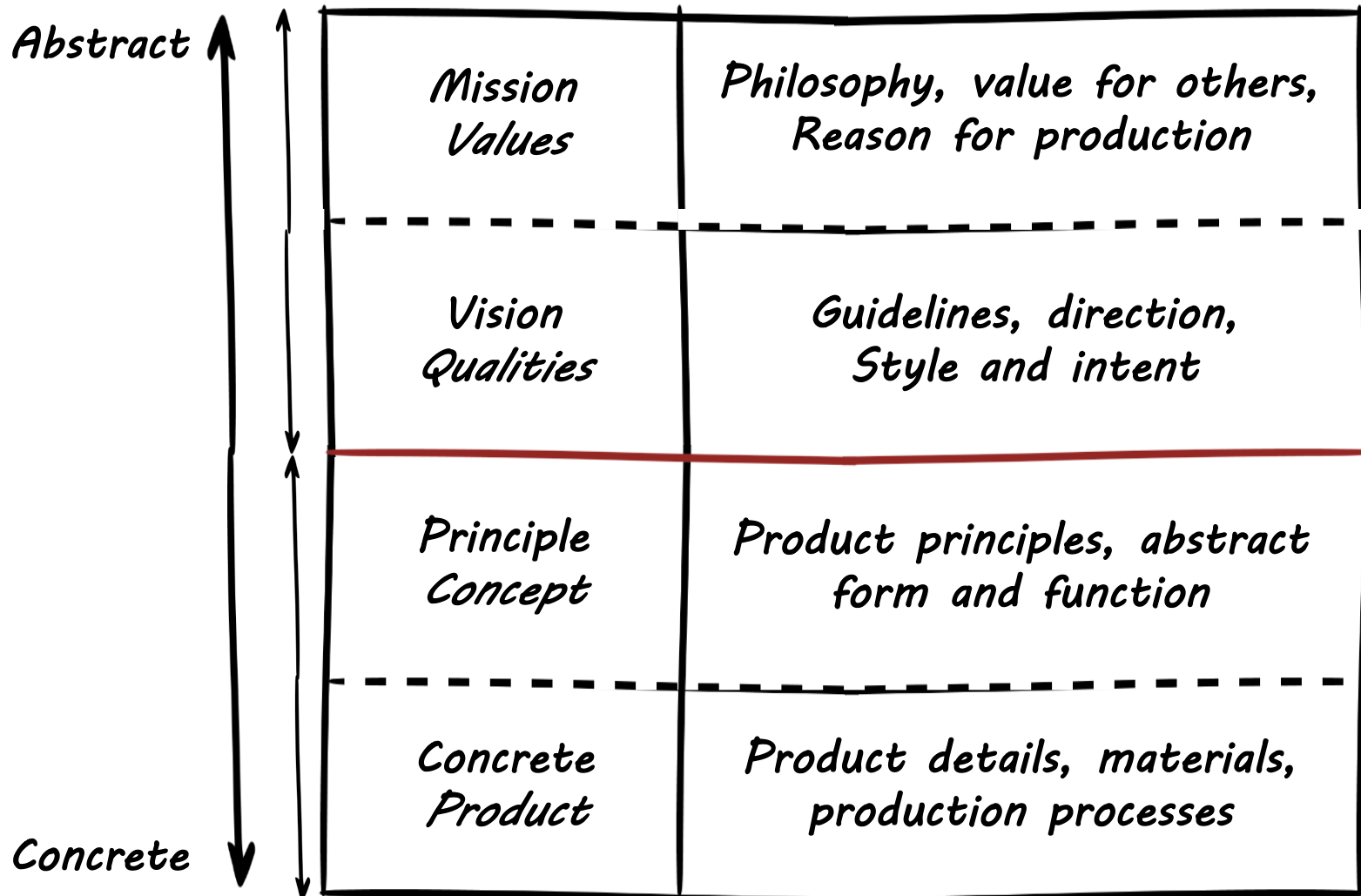


# Product Value chain



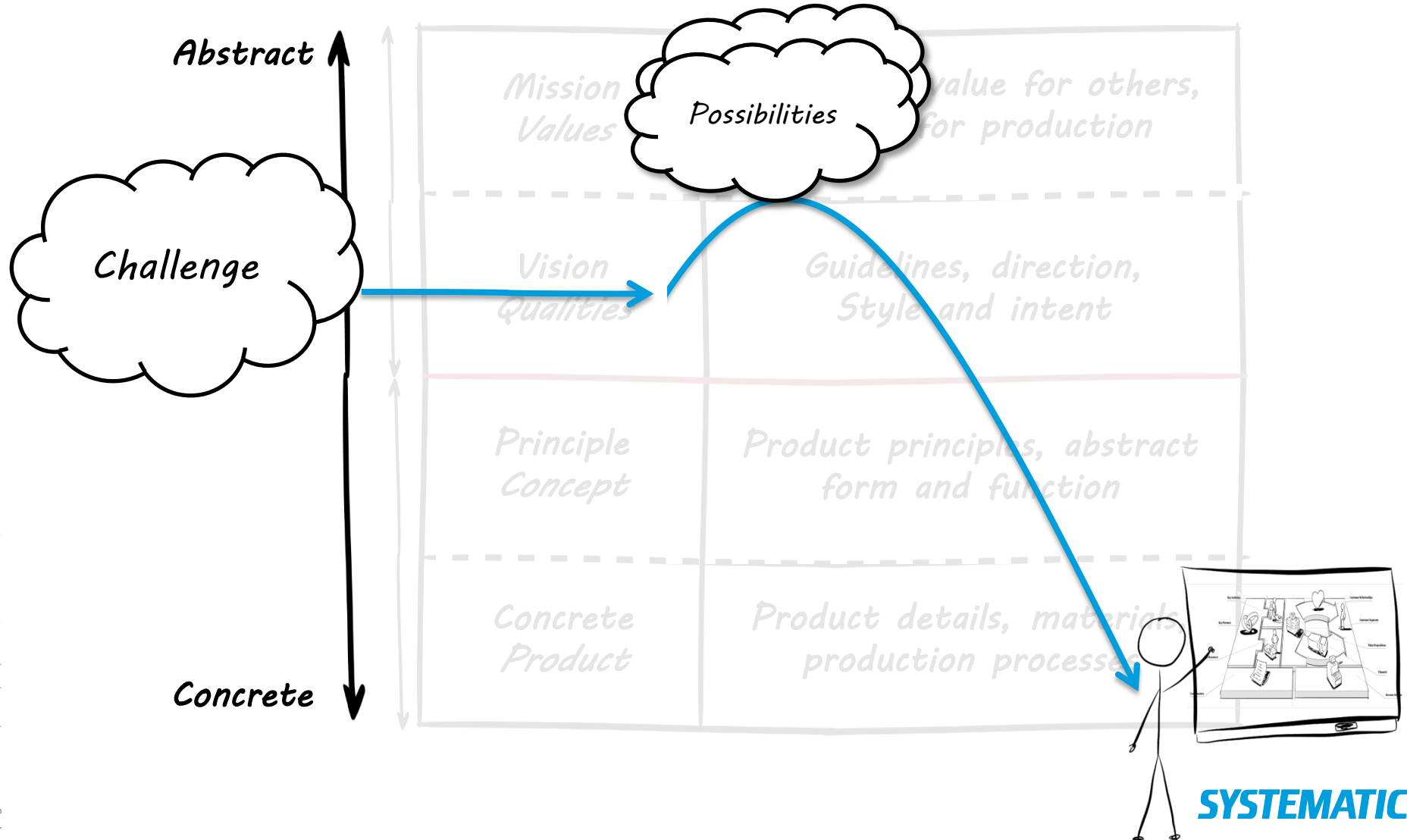


# Hierarchy of abstractions



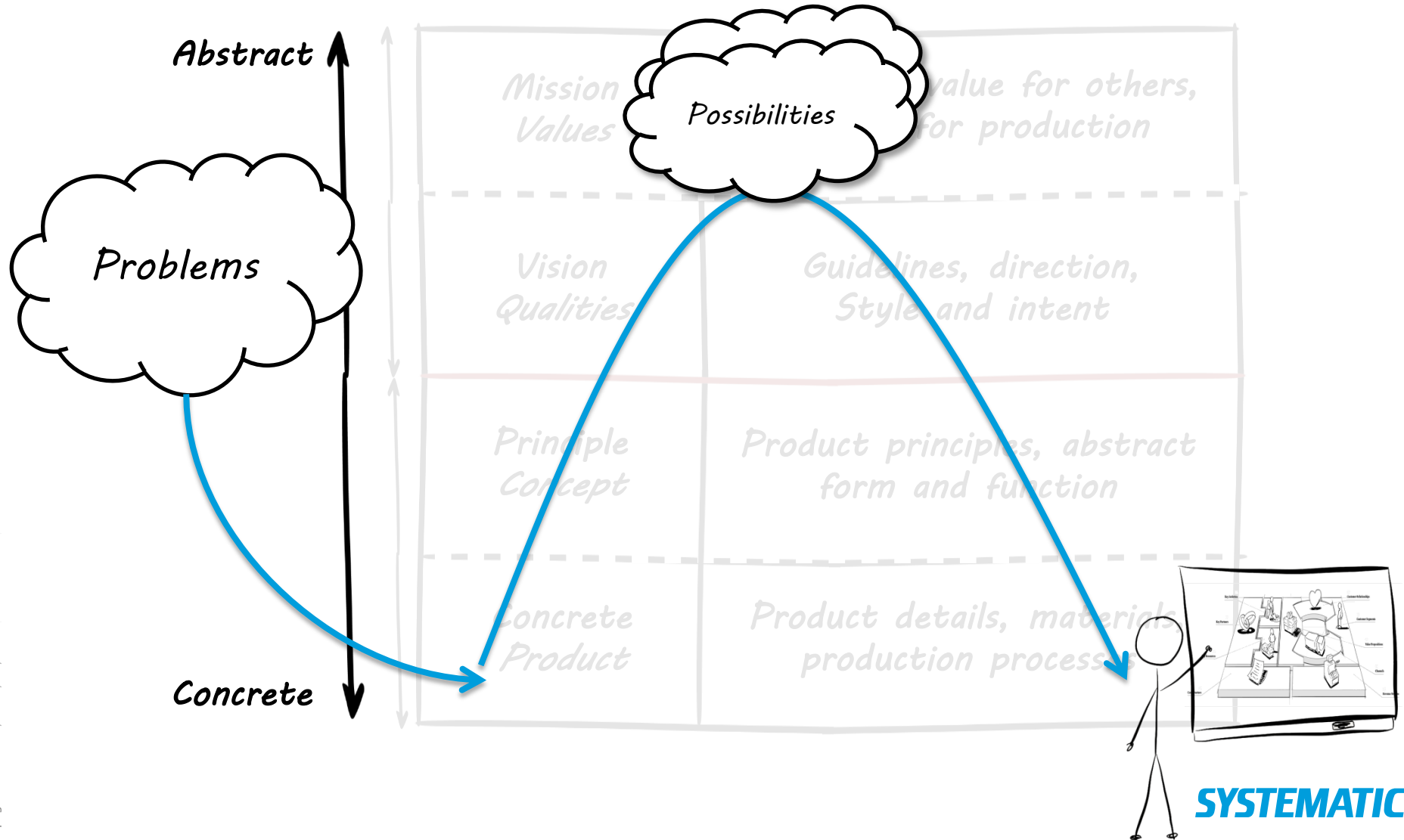


# Problem orientated innovation



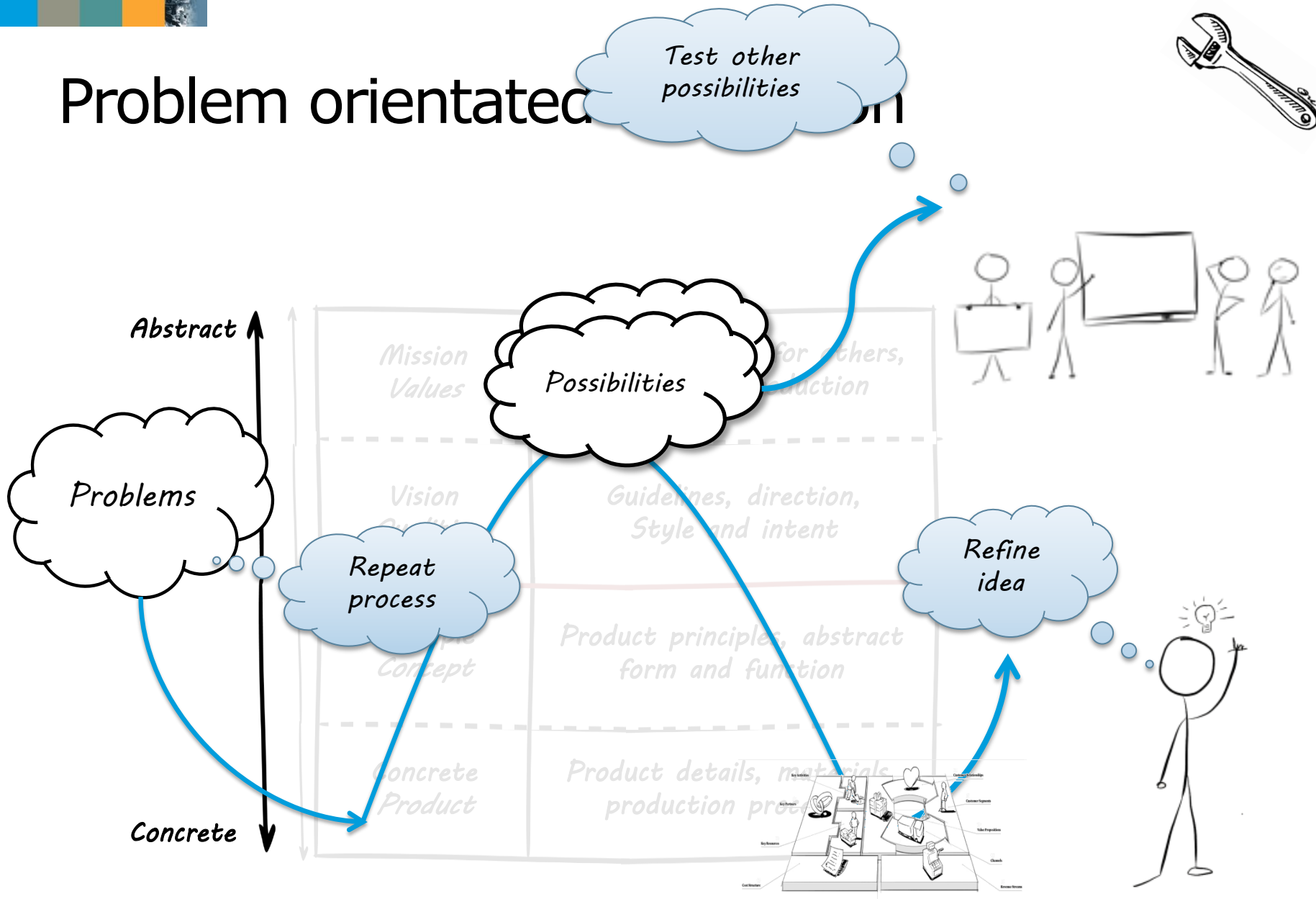


# Problem orientated innovation



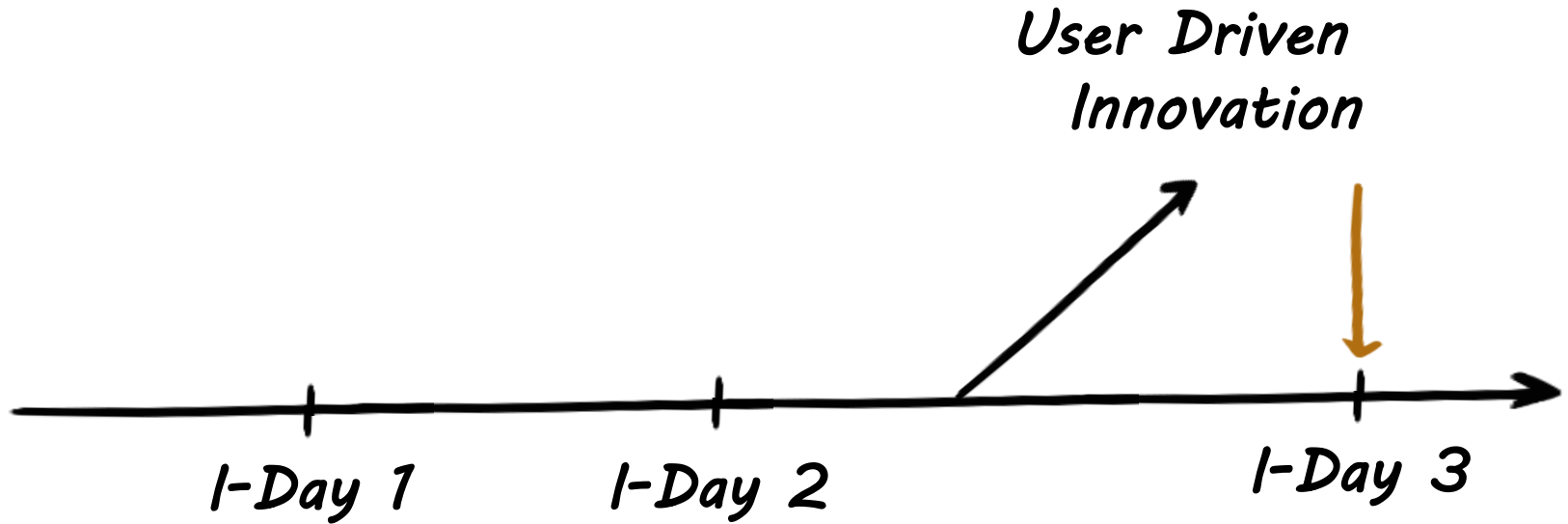


# Problem orientated design



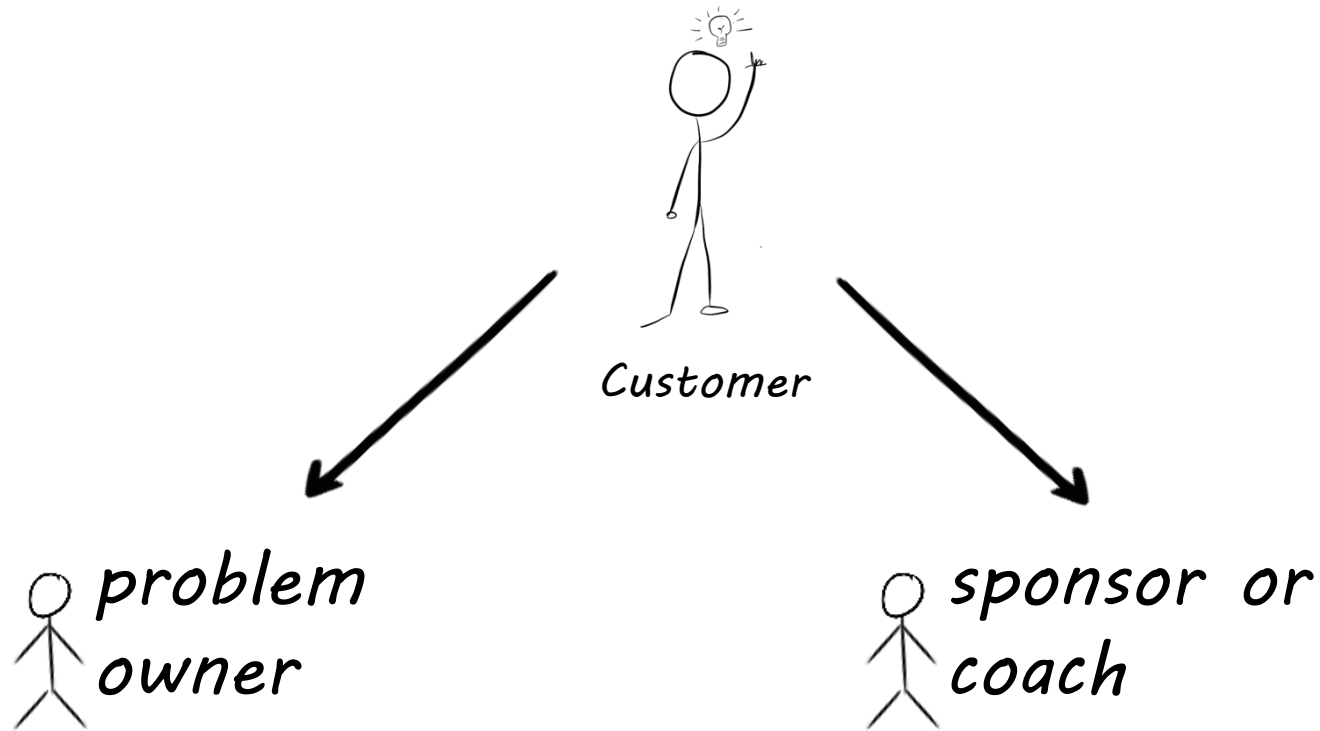


# The story



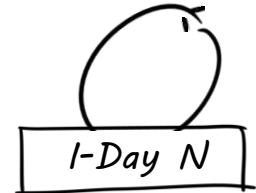
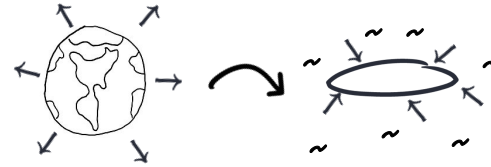


# Customer involvement

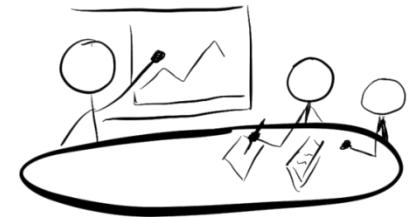


# Takeaway's

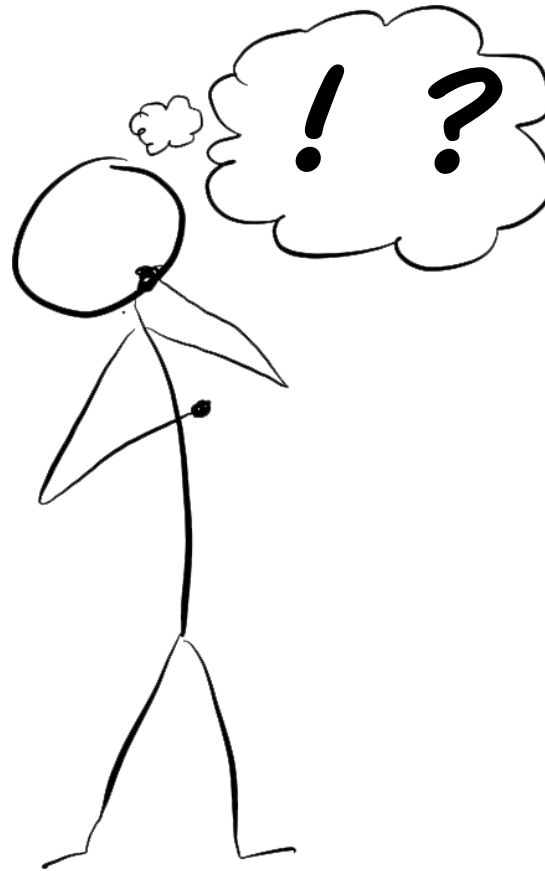
- *Innovation is important*
- *Innovation is difficult - it requires practice*
- *Be sure to have the necessary commitment from management*
- *Have trained facilitators*
- *Be sure to have the real sponsors participating*



Michael Holm  
(CEO)



# Comments & questions



# Literature

## Bibliography

!WhatIf? *Sticky Wisdom: How to Start a Creative Revolution at Work*. Edited by Dave Allan, Matt Kingdon, Kris Murrin and Daz Rudkin. 2002.

Alexander Osterwalder, Yves Pigneur. *Business Model Generation*. 2010.

Boer, Harry, and Willem E. During. "Innovation, what innovation? : a comparison between product, process and organisational innovation." *International Journal of Technology Management*, 2001: 83-107.

Bono, Edward De. *Six Thinking Hats*. 1985.

Cheryl B Stetler, Marcia W Legro, Joanne Rycroft-Malone, Candice Bowman, Geoffrey Curran, Marylou Guihan, Hildi Hagedorn, Sandra Pineros, Carolyn M Wallace. "Role of "external facilitation" in implementation of research findings: a qualitative evaluation of facilitation experiences in the Veterans Health Administration." *Implementation Science*, 2006.

Dave Gray, Sunny Brown, James Macanufo. *Game storming*. O'Reilly Media, 2010.

Lerdahl, Erik. "Slagkraft." In *Slagkraft, håndbok i idéudvikling*, 268. Gyldendal Nordisk Forlag, 2007.

*Oxford Dictionaries*. n.d.