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IS KANBAN AN AGILE TOOL ?

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Is KANBAN an Agile Tool ?

While Toyota developed KANBAN in 1947, we think it is part of the Agile world.

Why?

What is the motivation?

How does it fit into SCRUM besides using sticky notes on boards?

Agile Manifesto (from SCRUM): Where would KANBAN be sorted in?

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Satisfy
The Customer

Welcome Changing
Requirements

Deliver Working
Software Frequently

Collaborate
Daily

Motivated
Individuals

Face-to-face
Conversation

Measure Of Progress
Through Working Product

Promote Sustainable
Development

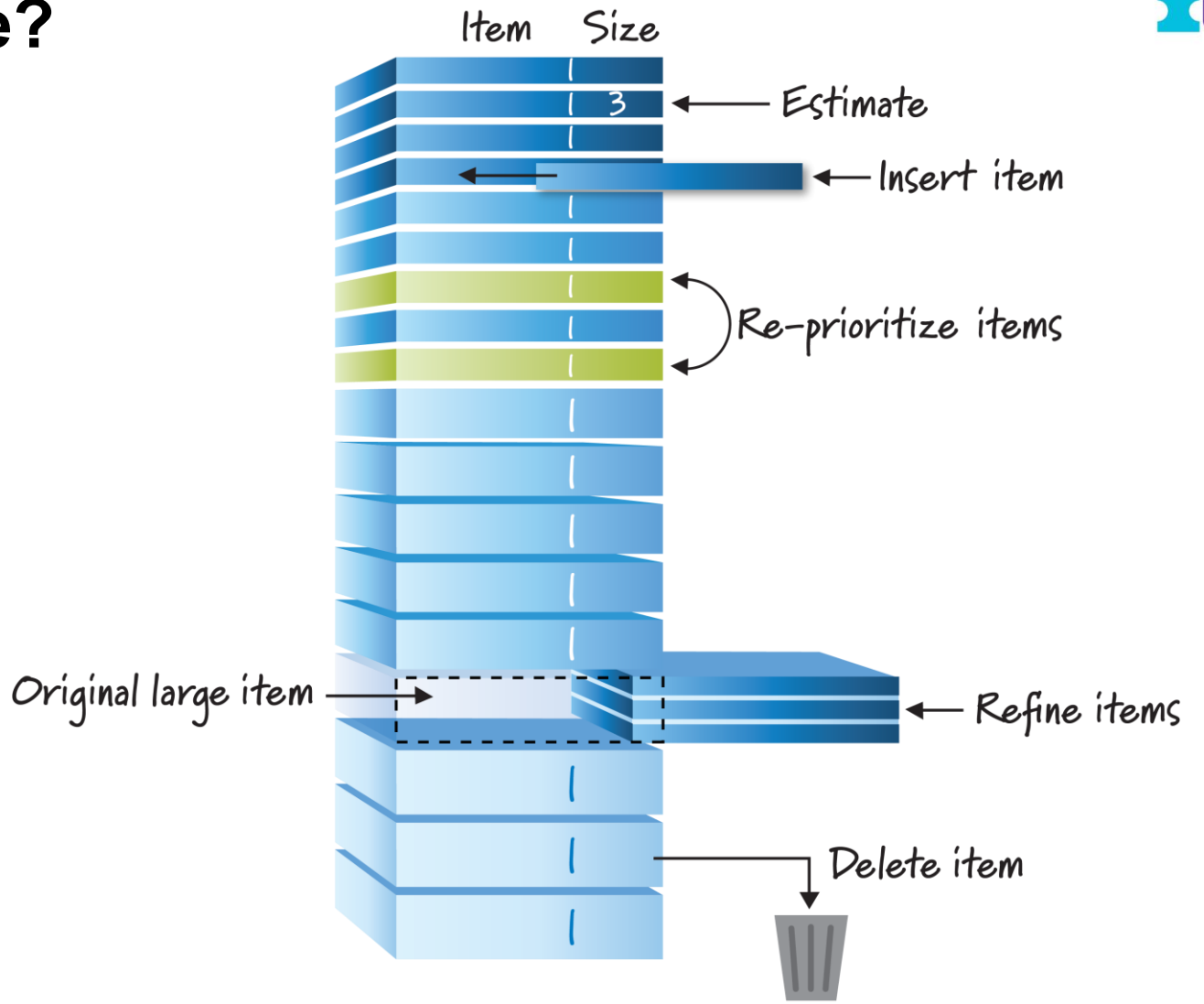
Continuous Attention To
Technical Excellence

Simplicity
Is Essential

Self-organizing
Teams

Regularity Reflect On
Continuously Improving

… or here?


Item
Size
3
Estimate
Insert item
Re-prioritize items
Original large item
Refine items
Delete item

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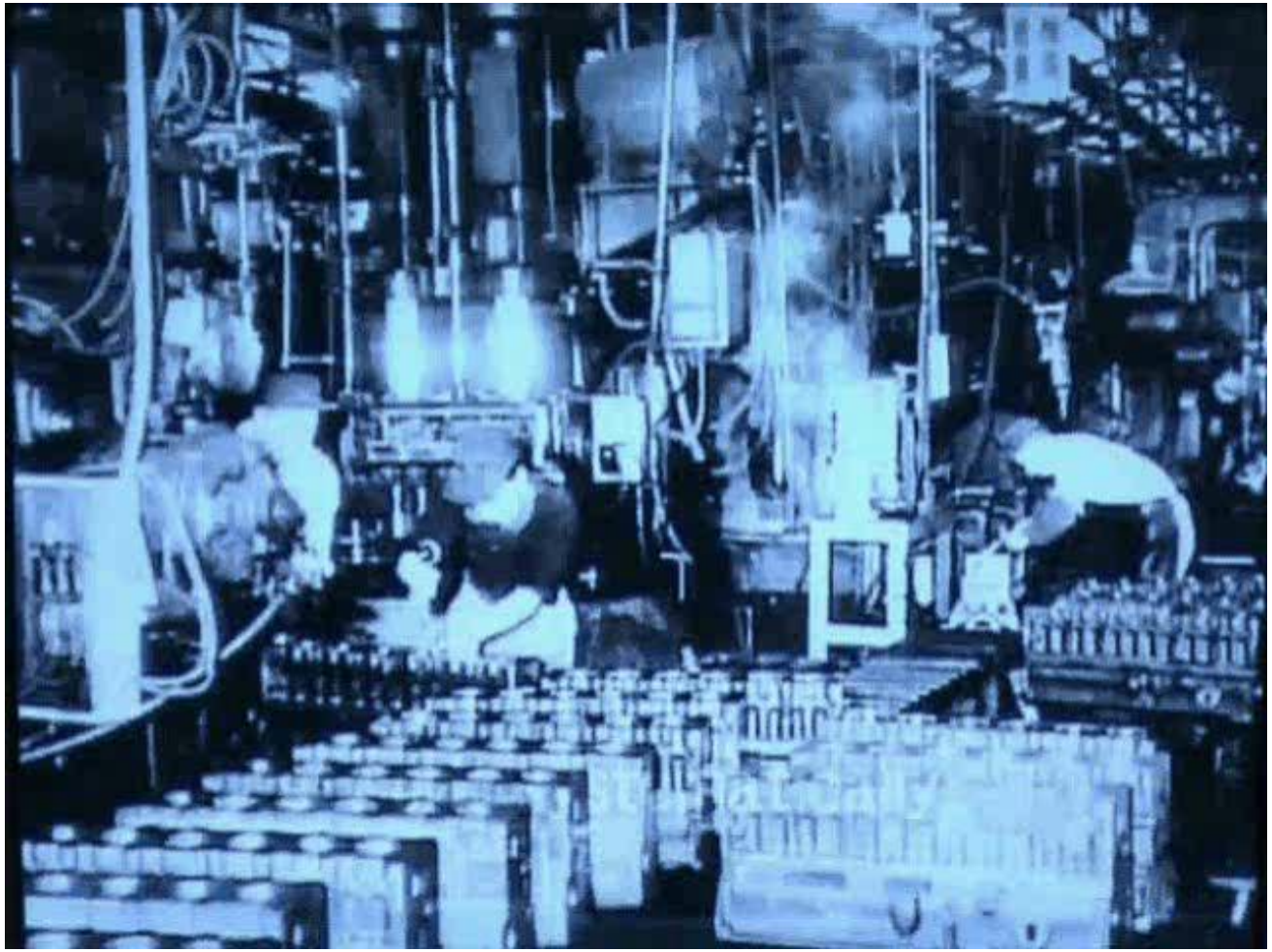
Origin of Kanban

Toyota Production System



Developed in 1947 by **Taiichi Ohno**, the inventor of the Toyota production system, Kanban is an implementation of the control process known as the pull or fetch principle in production.

Taiichi Ōno: The inventor of the Toyota production system („just in time“)

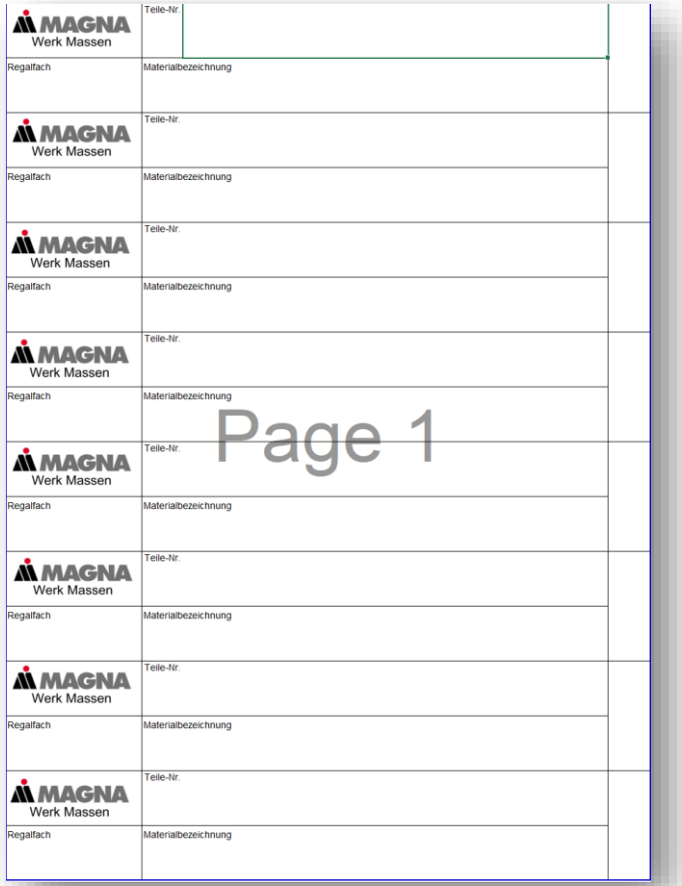
Taiichi Ōno (1912-1990)

Term and Origin

> Kanban is Japanese and means:
"Signal Card“

> Originally from the Toyota production system:
Avoidance of:
  > Muda (= Resource-consuming tasks without added value)
  > Mura (= Irregularities in the process)
  > Muri (= Overload)

Toyota production system – in use worldwide



Kanban Board in Production

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Kanban Principles

The 4 Basic Principles (after David J. Anderson)

1. Kanban starts where a system is at the moment.
2. Kanban respects the existing order.
3. Kanban strives for incremental, evolutionary changes.
4. Kanban requires leadership at all levels of the organization.

What is agile here ?

Core Practices

1. Making work visible
2. Limit the work in progress
3. Manage the flow
4. Explicitly define and adhere to process rules
5. Enable feedback mechanisms
6. Making improvements collaboratively

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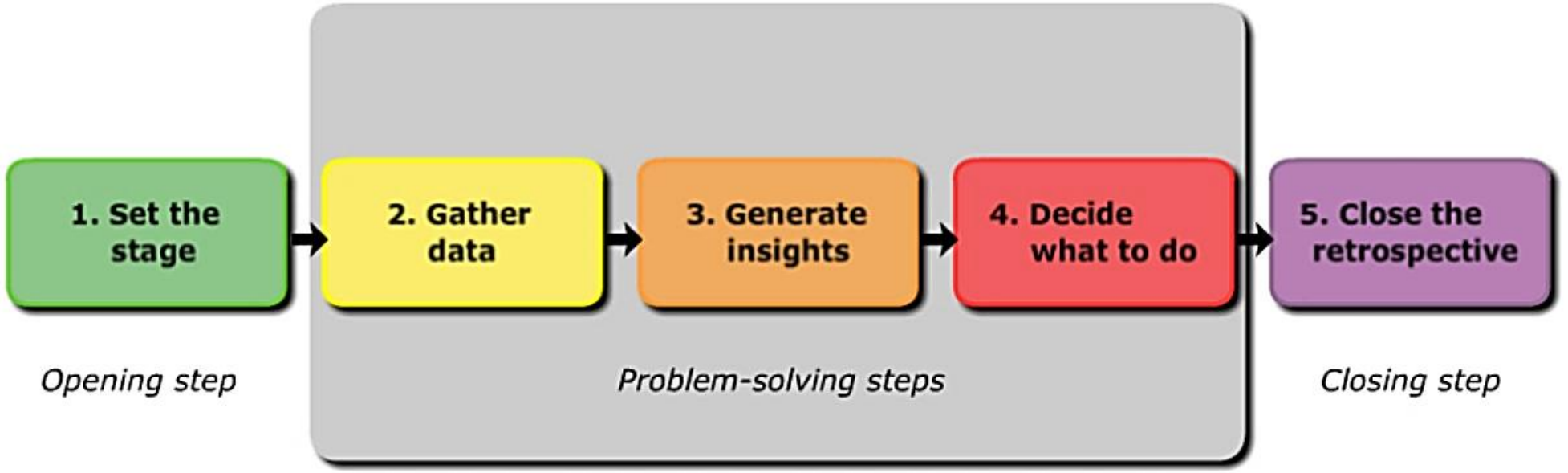
Continuous Improvement

Kaizen: Continuous Improvement

Continuous Improvement: 5 Steps



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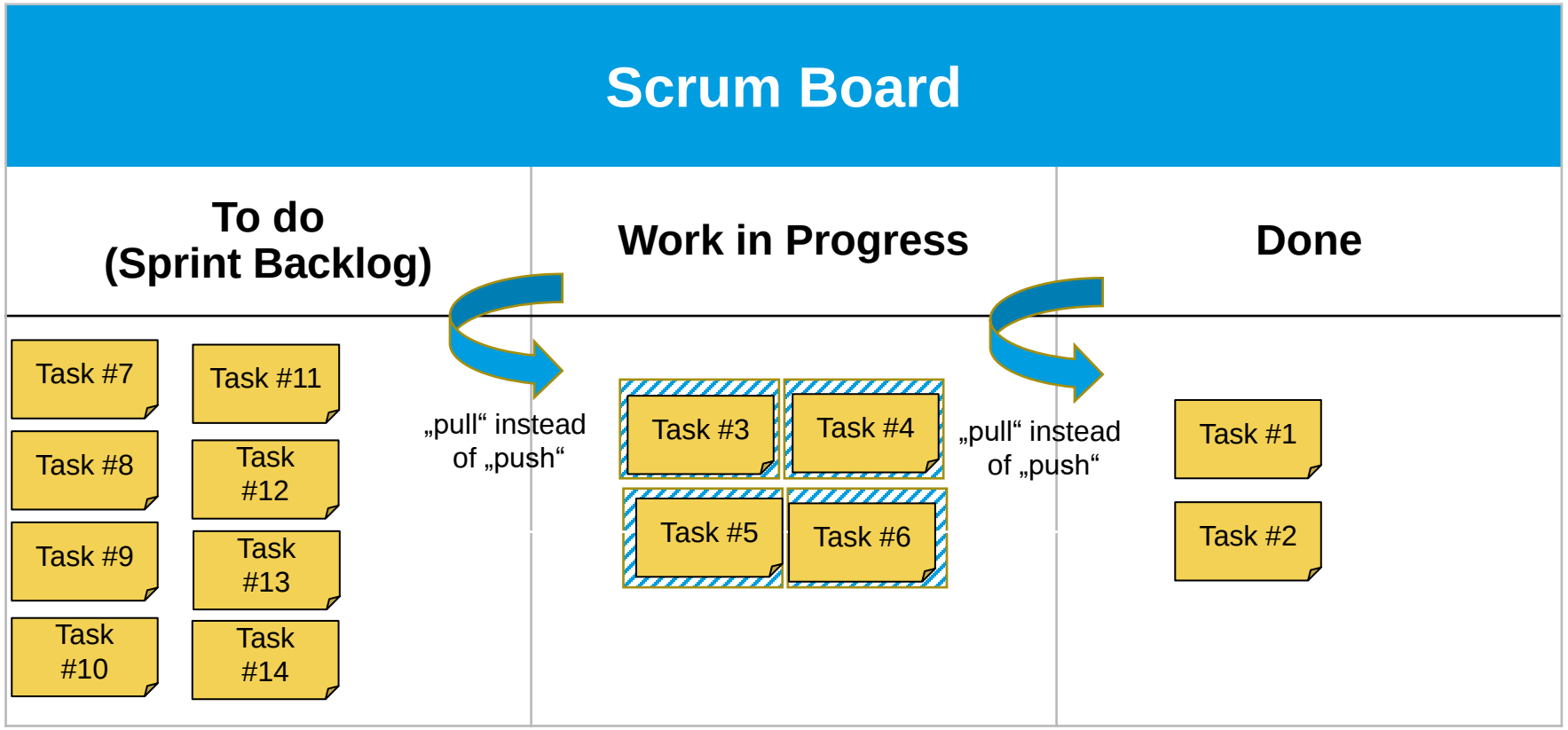
Visualization

Kanban Board

> The Scrum Board makes blockages visible and makes it easier to conduct the daily Scrum meeting.



Work in Progress - Motivation

> "Congested highway" does not allow for fast travel.

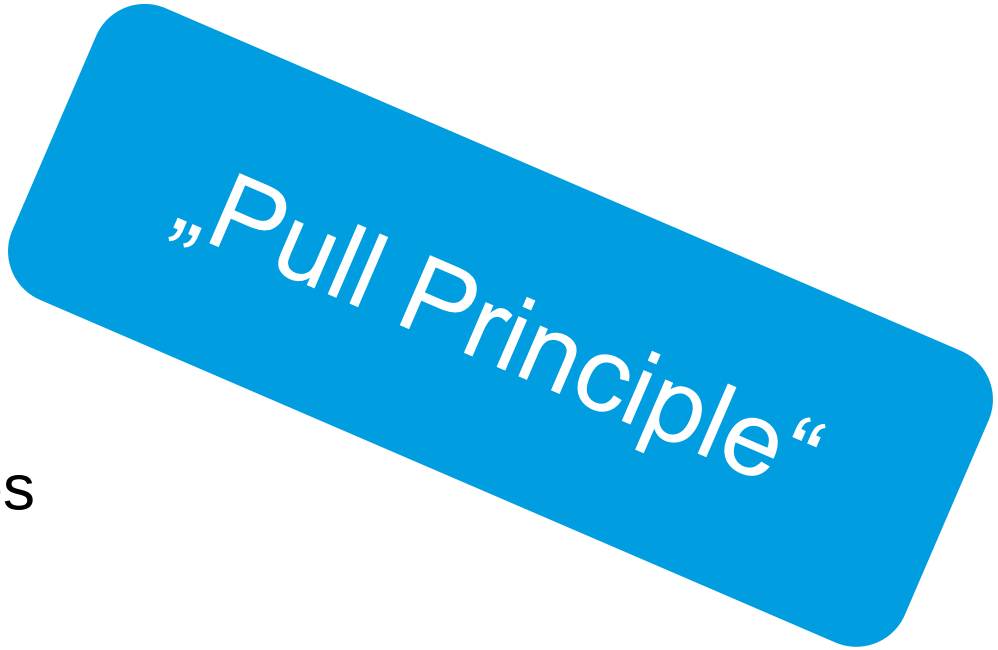
> WiP improves throughput, not utilization

Work in Progress Limits

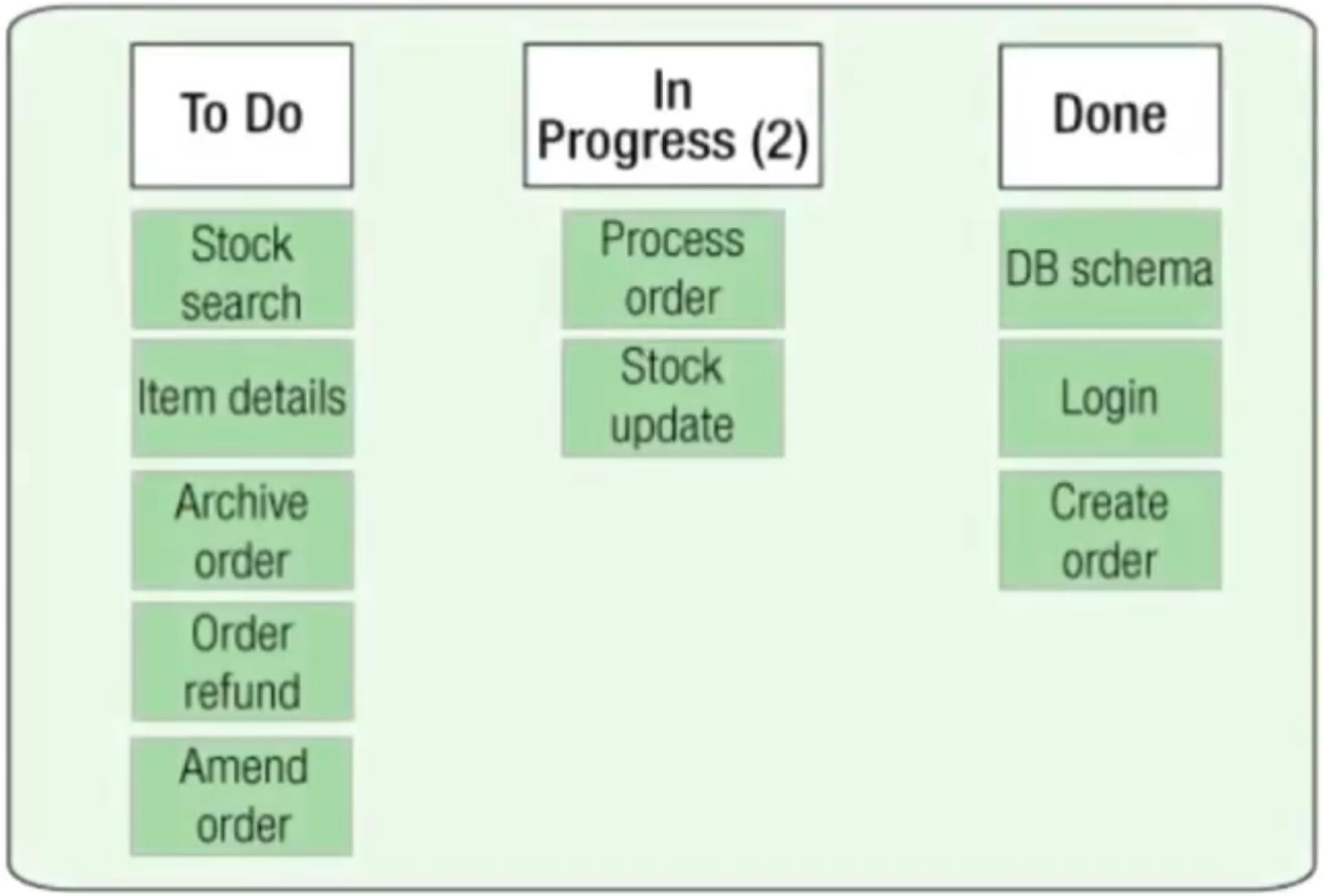
> The number of active works in the Kanban system is limited
> Limitation of active work per work step

ADVANTAGES

- > Task changes are avoided
- > Reduced throughput times
- > Higher quality
- > Better predictability / adherence to deadlines
- > Less disruption

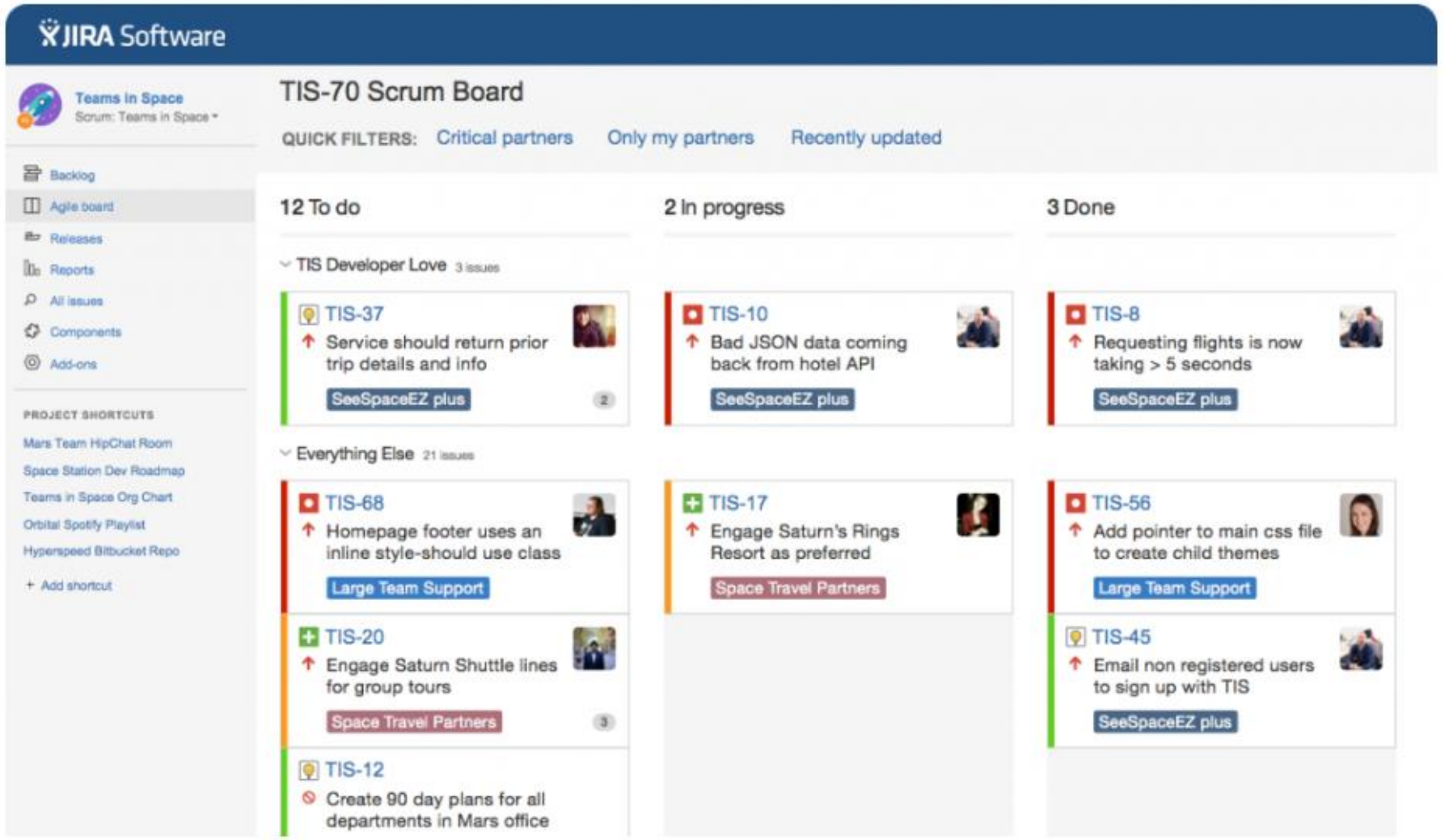


Example Kanban Board with WiP Limit

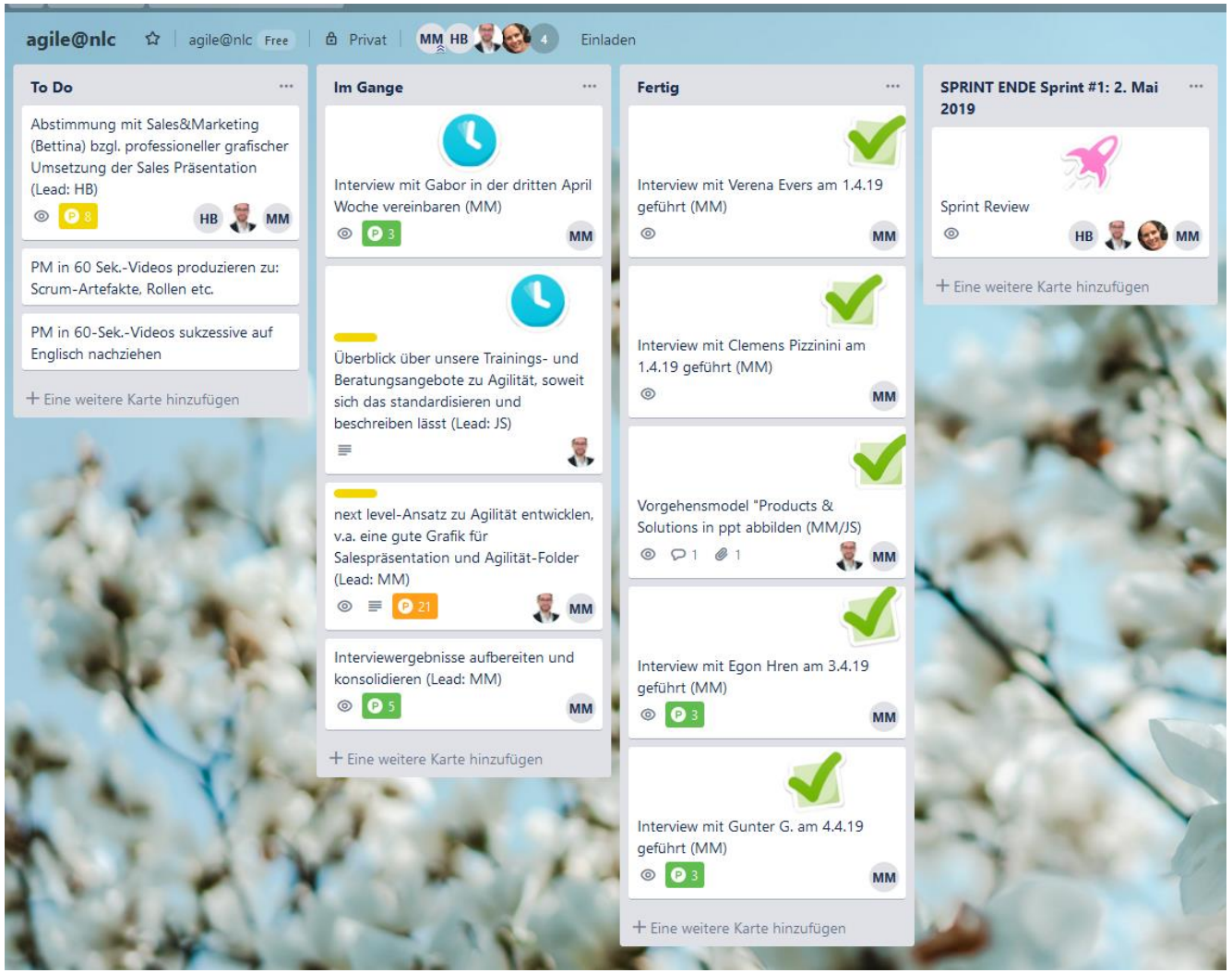


IT Tools for Kanban

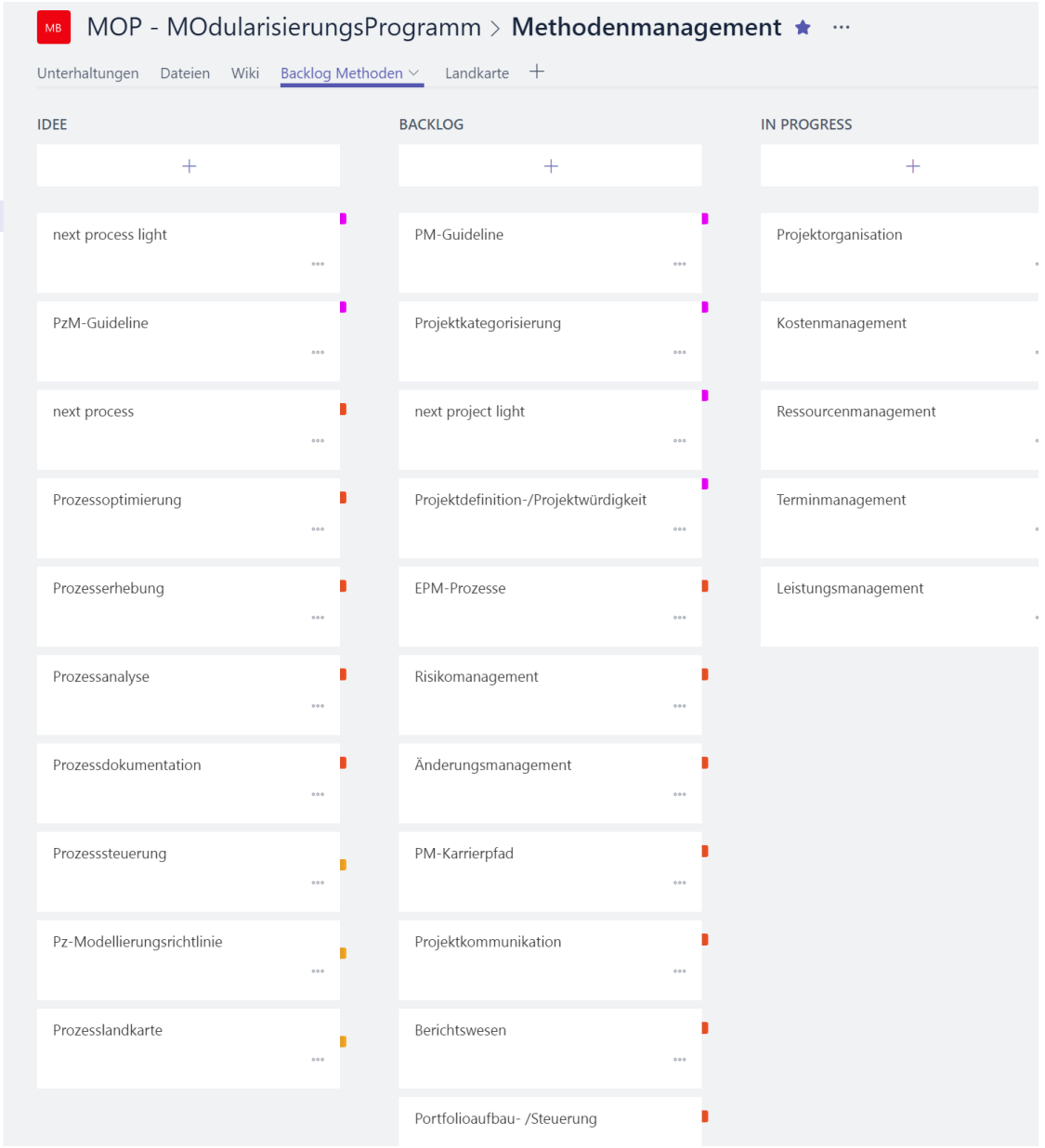
JIRA (Atlassian)



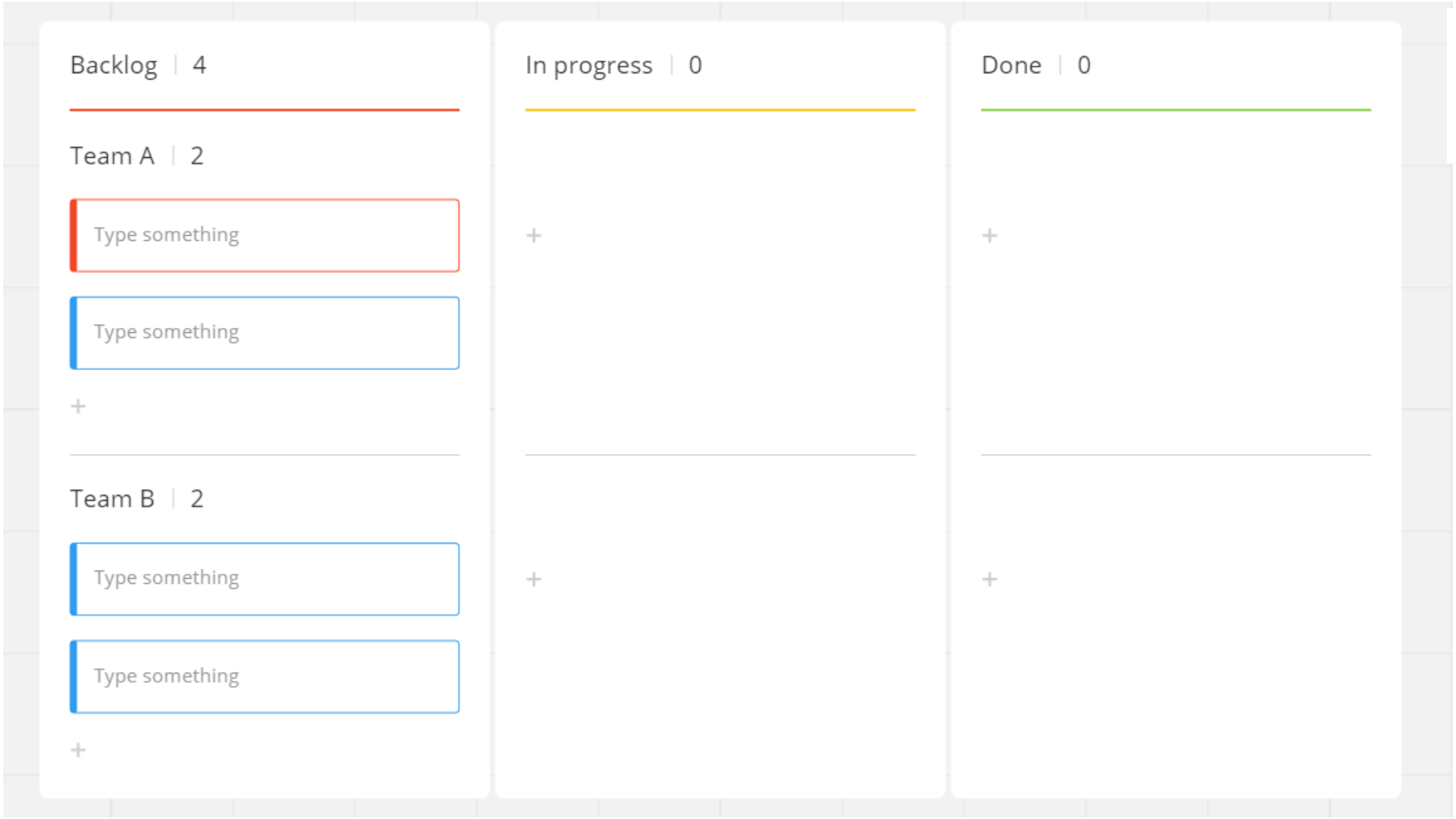
Trello (Atlassian)



Teams (Microsoft)



Miro


Backlog | 4
In progress | 0
Done | 0
Team A | 2
Type something
Type something
Team B | 2
Type something
Type something

Lean (also part of Toyota Production System) and the 7 Wastes

Lean: 7 Wastes

7 Wastes Example

LeanSmarts: https://www.youtube.com/watch?v=jPp_3-zfPaQ&ab_channel=LeanSmarts

Question from the beginning

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