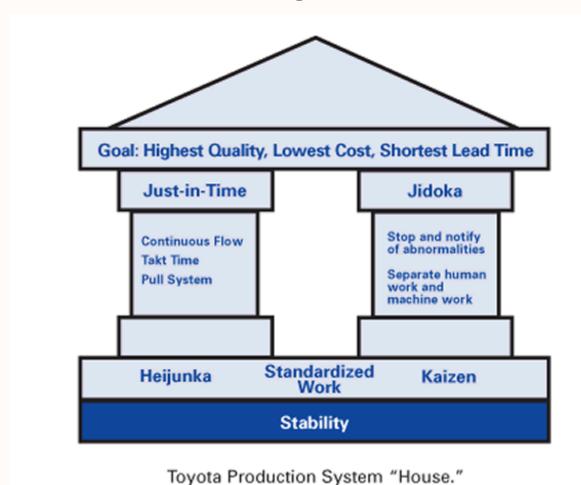
History

Lean

"Muda (waste), Muri (overburden), Mura (inconsistency)."

The production system developed by Toyota Motor Corporation to provide best quality, lowest cost, and shortest lead time through the elimination of waste.



"Visualize work, limit work in progress, and improve flow."

Kanban

Kanban displays can broadcast lots of different types of information, from stock levels to production volumes.



Source: https://mag.toyota.co.uk/kanban-toyota-production-system/

Source https://www.lean.org/lexicon-terms/toyota-production-system/

Keywords

customer focus

flow efficiency

Lean Kanban

waste identification

waste reduction

quality products

workflow visualization

continuous delivery

minimizing WIP

Flow vs Value - Planning Poker

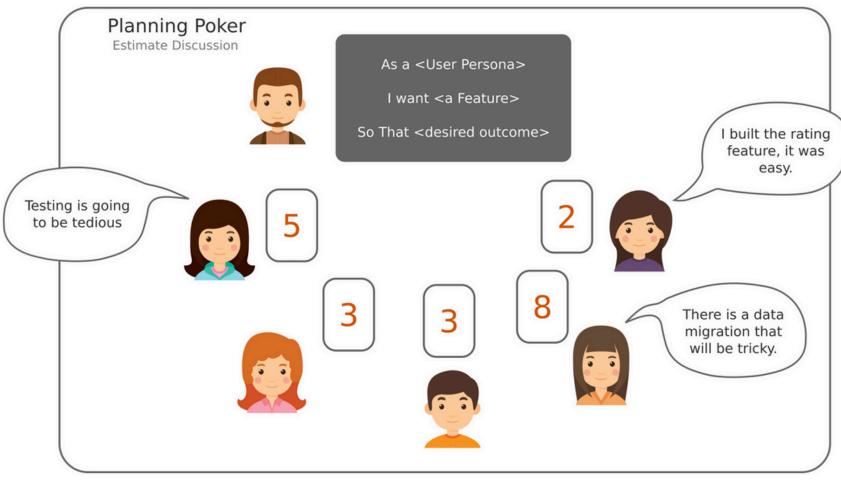
Kanban

Focuses on ensuring tasks are appropriately sized for flow and capacity to avoid bottlenecks.

Lean

Focuses on ensuring tasks deliver sufficient value relative to the effort, helping eliminate waste and optimize efficiency.

"Is this item small enough to fit into the system without causing a bottleneck?"

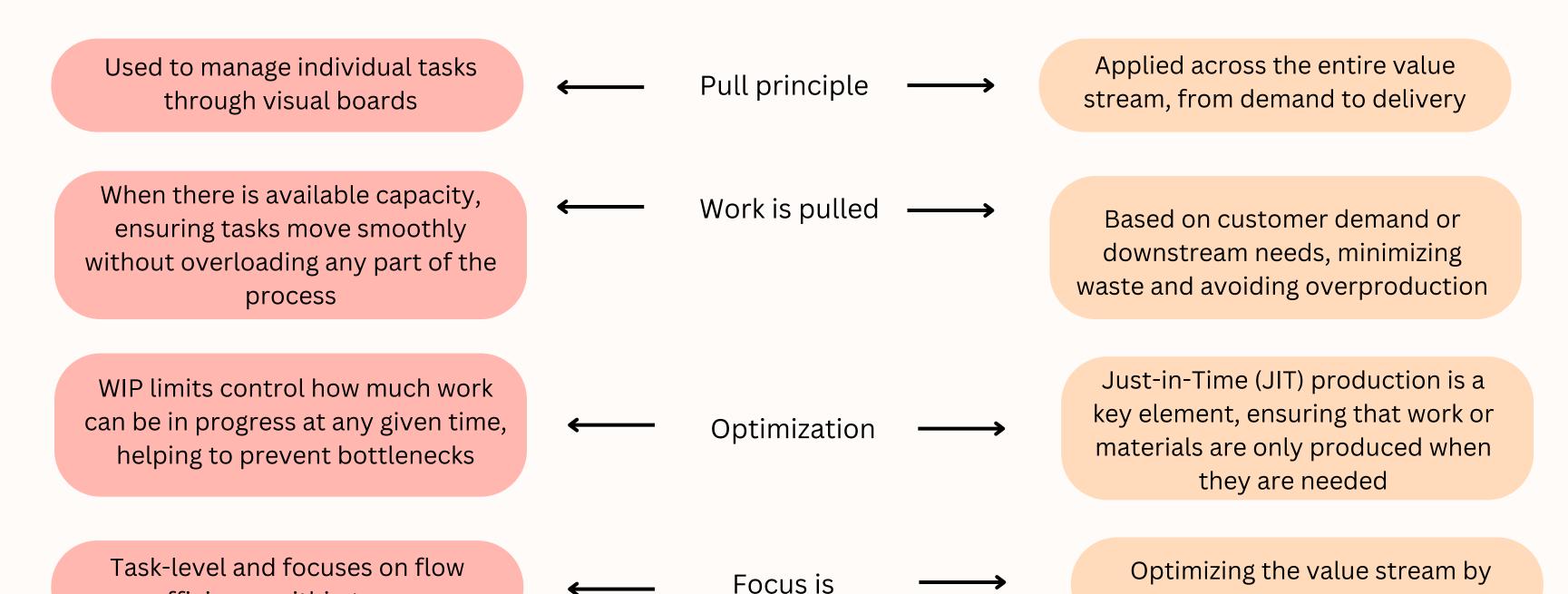


"Does this task contribute sufficient value relative to its effort, ensuring it integrates smoothly into the flow without introducing inefficiency or waste?"

Both approaches use Planning Poker to support efficient decision-making but with different lenses: one on optimizing flow (Kanban) and the other on maximizing value with minimal waste (Lean).

Flow vs Value - Pull principle

Kanban



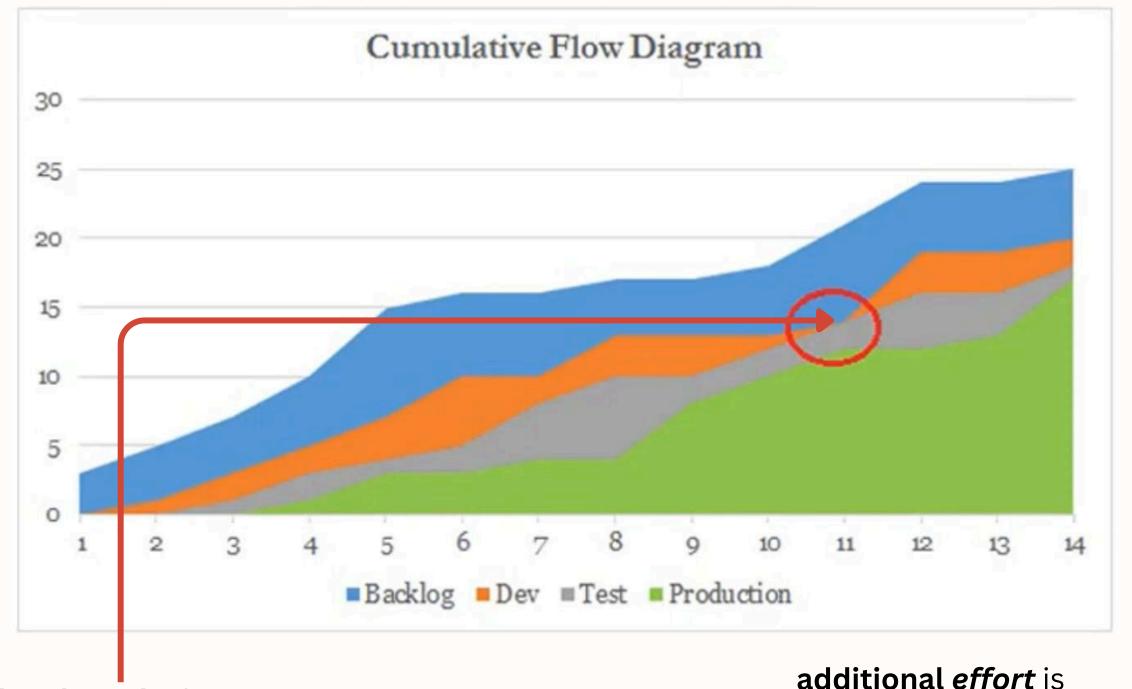
Both Kanban and Lean utilize the pull principle to optimize flow and reduce waste. However, Kanban is focused on managing work at the task level within teams, while Lean applies pull to the broader value stream, optimizing the entire production or delivery process based on customer demand.

delivering work only as it is needed

efficiency within teams

Cumulative Flow Diagram (CFD) tool for Kanban

tracking the movement of work items through the stages of the workflow



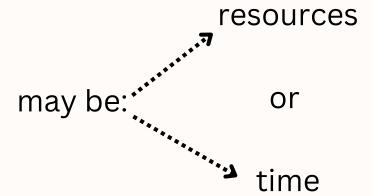
Analyzing cycle time helps estimate the effort of how long it will take to complete similar tasks in the future

Use case example:

bottleneck where the orange
Development area is reduced

team is **unable** to **keep up** with the **workload**

needed to
strategy: complete tasks
within acceptable
timeframes



Value Stream Mapping (VSM) tool for Lean

Map the Current
State of every
step in all stages

Analyze the flow to identify waste

Design a **Future** State **Map** proposing changes

to **reduce** the waste

identified

Feature A request waits in the **backlog** for 4 days before being prioritized

Waste Type: waiting time where the work is stuck

Improving **prioritization**

The feature B is pending the handoff between Development Team to Testing Team

Other types: Non-Adding-Value activities, rework, underutilization of resources

Streamlining handoffs between departments and improving communication