



Kanban Primer

Scalable Software Engineering
WS 2022/23

Enterprise Platform and Integration Concepts

SSE Software Development Project



The Project is nearing a major milestone

- After Intermediate Presentations: **Final Project Presentation**
 - **Initial release** of software, end of lecture
 - **Feb 2nd 2023**
 - Teams have gathered experience
 - with the technologies
 - working together
- ➔ It might be time to shift gears and focus on **shorter iterations**, **responding to issues** even faster and **on-demand planning**!



Kanban Principles

Software Engineering – Kanban

HPI

Principles

- Visualize the Workflow
- Limit work in progress (WIP)
- Measure and manage cycle time
- Make process policies explicit
- Implement feedback loops
- Improve collaboratively, evolve experimentally (using models and the scientific method)

Software Architecture Group (www.hpi.uni-potsdam.de/swa) 2006-present

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HPI

Kanban requires knowledge and personal responsibility

Kanban in Practice



Consider Agile Approaches as Toolboxes

- **Keep what worked well** from Scrum, **adapt new things** to try from Kanban
- Focus shift
 - **Scrum: Iteration-based**, nothing disturbs devs during Sprint
 - **Kanban: Flow-based**, nothing disturbs devs during ticket work

Prioritization

- Which things should be worked on first to enable product delivery?
- Which features have to be cut?
- What's most important for the customer? the devs? for management?



Adapt Workflows

- POs continue working with customer and managing requirements
 - Others should be enabled to contribute bugs & user stories
 - PMs continue working with management
 - SMs may keep facilitation role → Kanban Master?
 - Increased importance of product backlog as central coordination point
 - **Work item boards for teams**, establish process for moving tickets into them
 - **Establish WIP Limits** for board columns
 - **Definition of Done & Definition of Ready** are crucial
 - Cadences for feedback and planning/sync sessions
- ➡ **Establish your process and inform your tutor!**

More on WIP Limits in SWA slides and in next week's lecture