

Enterprise Platforms – CAI

What is Kanban?
Kanban for Software Development

July 2013 Brad Arlen

Agenda

- 1. What is Kanban
- 2. One Day In Kanban Land
- 3. LeanKit.com Demo

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What is Kanban

Kanban

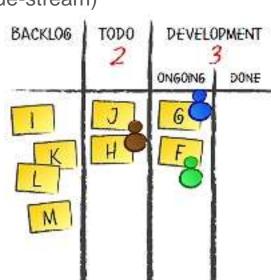
- Kanban is a method for just-in-time scheduling of work.
- Developed in Japan by Taiichi Onho for Toyota in the late 1940's and adapted for software development by David J. Anderson in the early 2000's.
- ☐ Leverages actual usage (pull) to drive work-load vs. forecasted usage (push).
- Objective is to have a steady and controlled flow of work, eliminate work wait times, disruptions, and distractions.

What is Kanban

Kanban

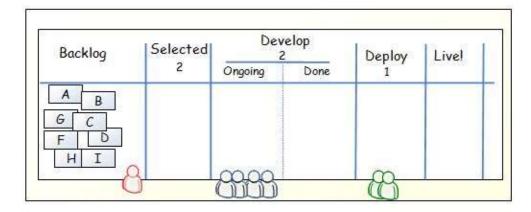
- Kanban is a Japanese word meaning sign-board.
- Three Essential Components of Kanban
 - 1. Visual Board to Represent Your Work Flow (value-stream)
 - 2. Pull System of Work
 - 3. Work-In-Process Limits

☐ Major Tenant is **Continuous Improvement**

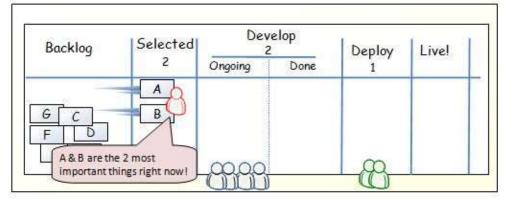


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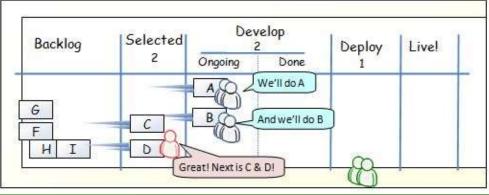
One Day in Kanban Land (1 of 4)



Simplified Team:
Product owner (red),
Developers (blue),
& Deployment (green).

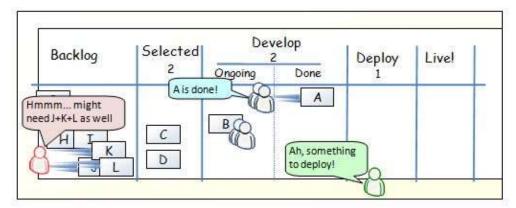


Product owner can only select 2 items based on WIP limit.

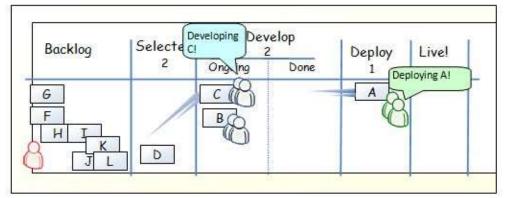


Developers PULL cards to work on.

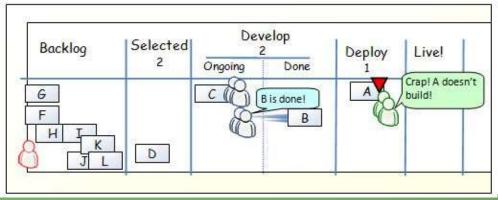
One Day in Kanban Land (2 of 4)



Developers move items to DONE when complete.

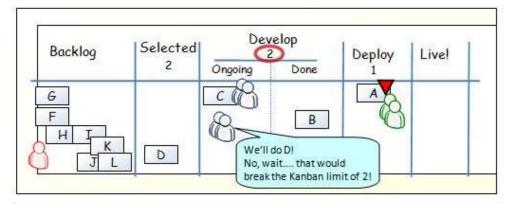


Deployment can only select 1 item to deploy based on WIP limit.

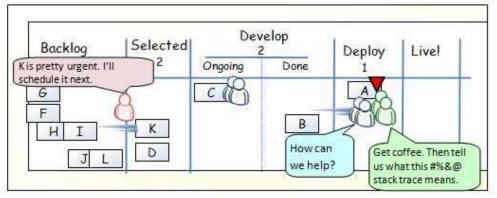


Deployment encounters problem and flags item as having a BLOCK.

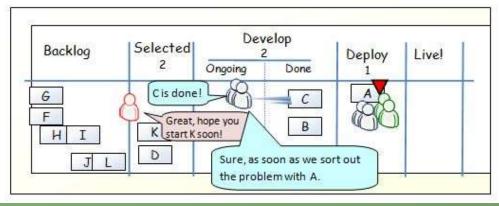
One Day in Kanban Land (3 of 4)



Meanwhile Developers are ready to PULL next task, but wait, WIP is 2.

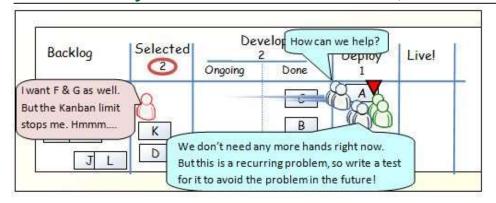


Developers see BLOCK on the board and try to help.

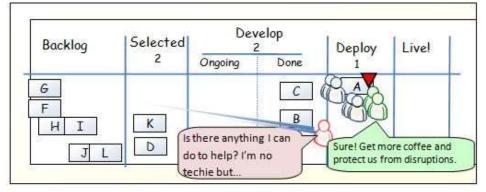


Product owner wants
Developers to work on
more but must wait.

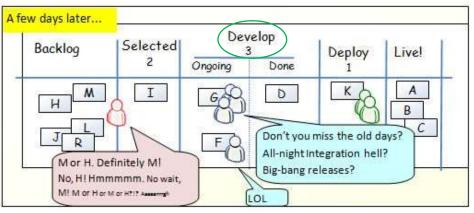
One Day in Kanban Land (4 of 4)



Developer come up with solution to prevent issue from happening again.



Product Owner sees blockage and notifies upstream management.



Item un-blocked and work-flow proceeds in improved system.

Enterprise Agile

Kanban creates a Pull System across the entire portfolio that is limited by your Actual Capacity

Live Demo

- ☐ Using a Kanban board for managing the People Data Program
 - Coinstar.LeanKit.com



QUESTIONS

Resources

- ☐ Leankit <u>www.Leankit.com</u>
- Agile consultant Henrik Kniberg's Blog http://blog.crisp.se/2009/06/26/henrikkniberg/1246053060000
- Kanban Cumulative Flow Diagrams

http://www.slideshare.net/yyeret/explaining-cumulative-flow-diagrams-cfd

Lean Kanban University Resource

http://leankanbanuniversity.com/what-lean-kanban-0

Kanban Tools Review

http://www.toolsjournal.com/tools-world/item/142-kanban-tools

■ Kanban Applied to Scrum

http://www.youtube.com/watch?v=0EIMxyFw9T8

☐ Kanban and Agile for Program and Portfolio Management

http://www.versionone.com/webcasts/AgileLIVE-Achieving-Business-Agility-at-The-Portfolio-Level.asp