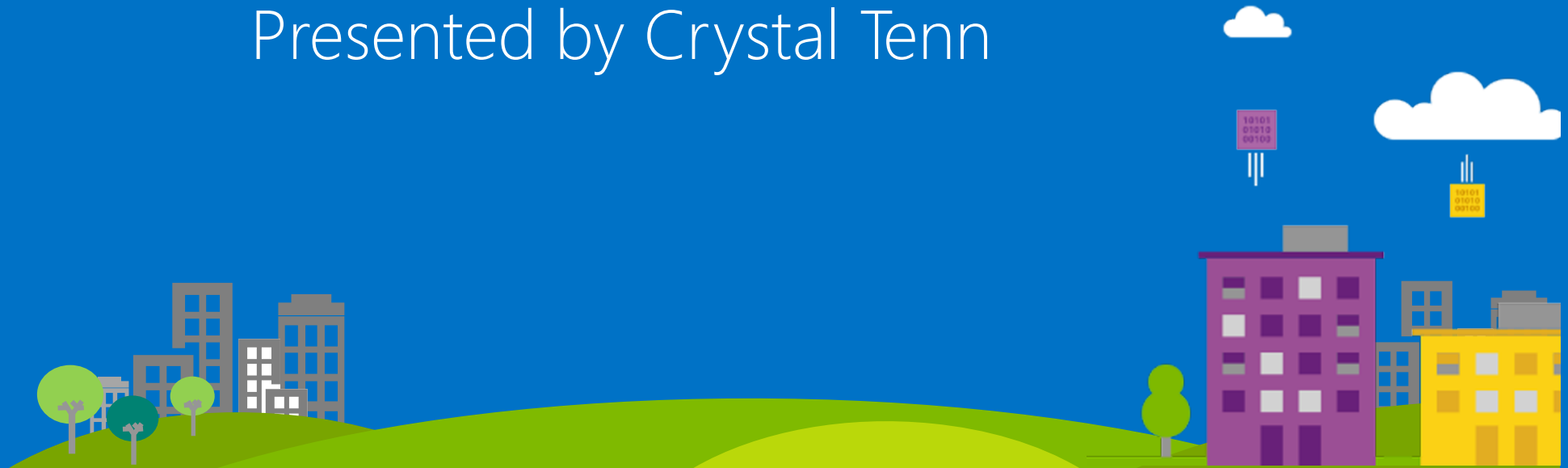
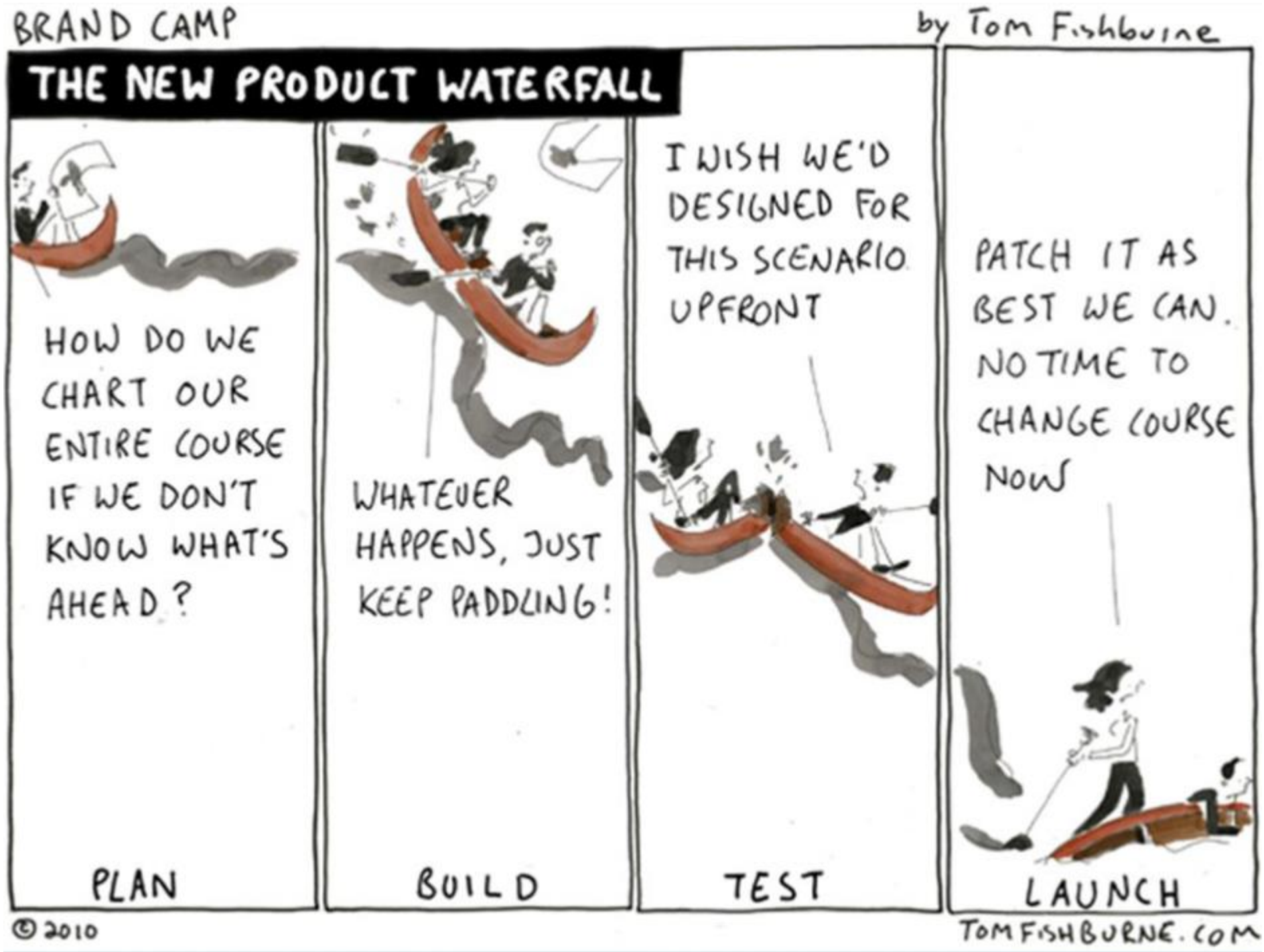
Agile and Azure DevOps (Tool)

Presented by Crystal Tenn

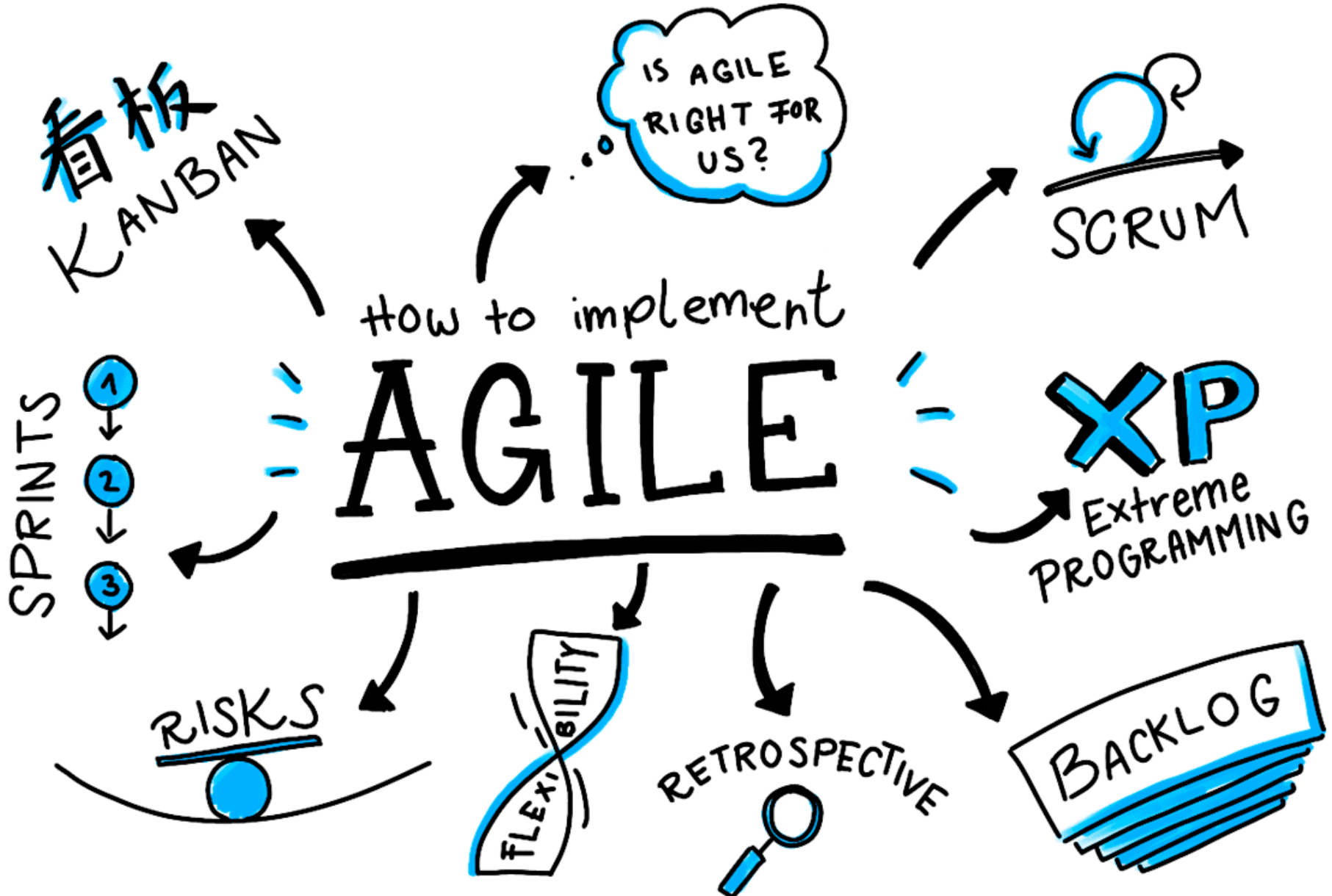


History Lesson: Waterfall



What is Agile?

A set of Values and Principles.

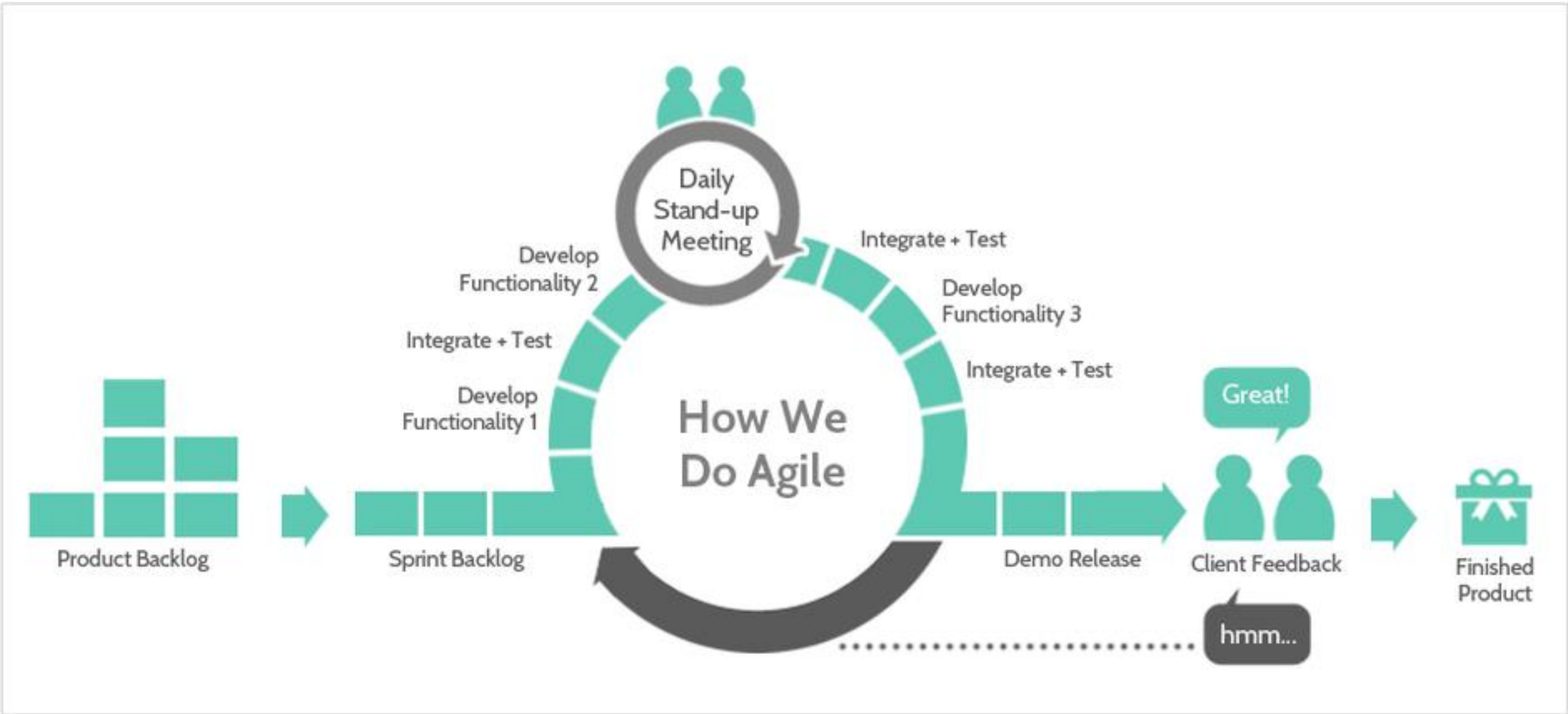


Agile Methodologies: Scrum and Kanban

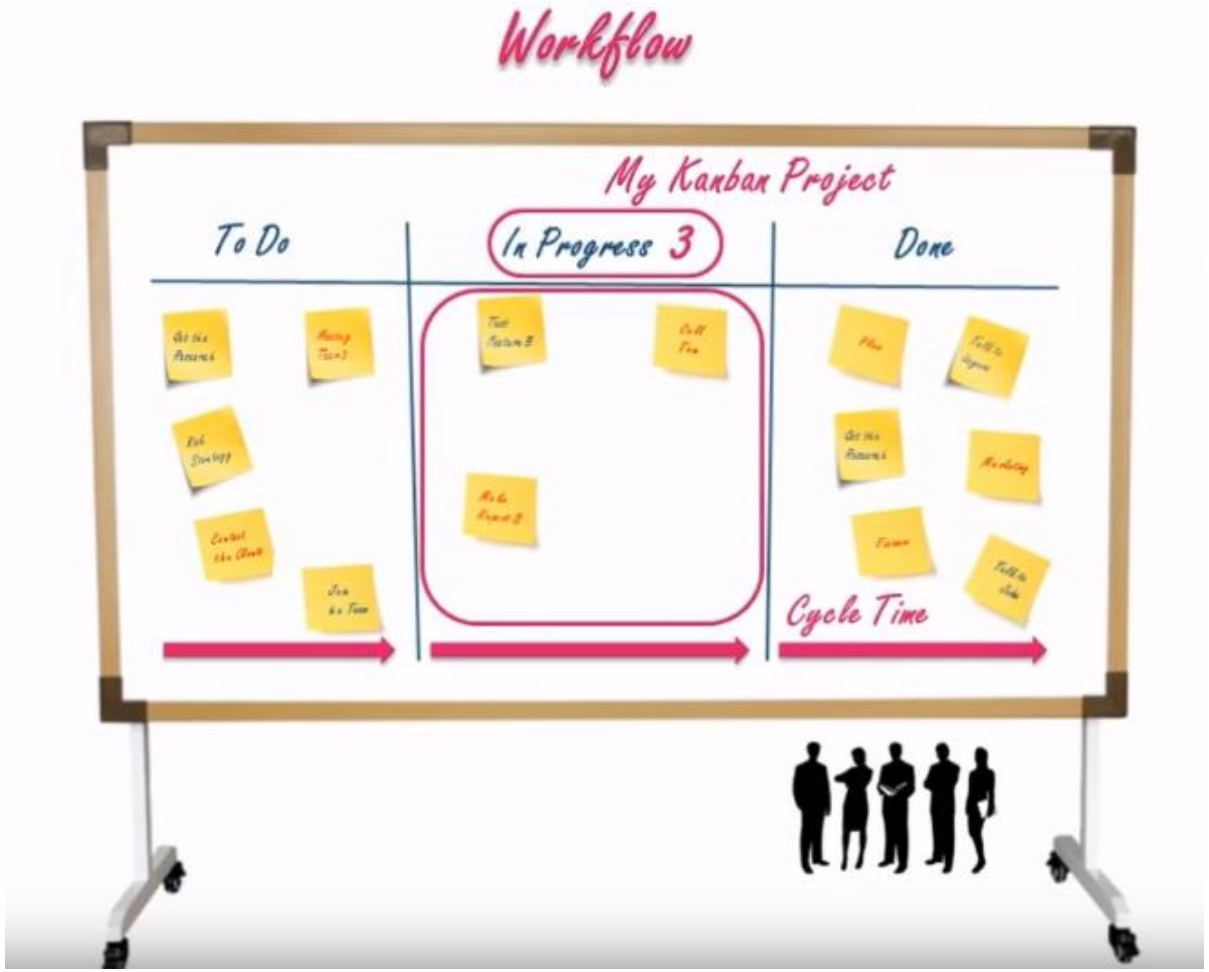
Scrum is an Agile framework for completing complex projects.

Scrum in 30 seconds

- First, create a prioritized list called a product backlog.
- During sprint planning, the team pulls a small chunk from the top of the sprint backlog, and decides how to implement those pieces.
- The team has a sprint (usually 2-4 weeks) — to complete its work, but meets daily to assess progress (daily Scrum standup).
- The ScrumMaster keeps the team focused.
- At the end of the sprint, the work should be potentially shippable: ready to hand to a customer or demo.
- The sprint ends with a sprint review and retrospective.


Daily
Stand-up
Meeting
Develop
Functionality 2
Integrate + Test
Develop
Functionality 1
Integrate + Test
Develop
Functionality 3
Integrate + Test
How We
Do Agile
Great!
Product Backlog
Sprint Backlog
Demo Release
Client Feedback
Finished
Product
hmm...

Kanban is another agile framework that requires real-time communication of capacity and full transparency of work.



- A project has a board that lives as long as the project.
- As new work is needed, it is added to the **to do** side and color prioritized.
- Limited work should be in progress at one time.
- Once work is completed it is moved to the done side.
- Work is completed based on priority and as team members get capacity.

Kanban in 30 seconds

Let’s compare Scrum and Kanban…

Differences between Scrum and Kanban: **Scheduling**

- Scrum processes place heavy emphasis on completing a shippable product within each 2-4 week sprint. Anything outside of the sprint must be pushed to a future sprint.
- On a Kanban team, there are no required time boxes or iterations. While the Kanban method is iterative in nature, the continual improvement is expected to occur as work is continually completed.

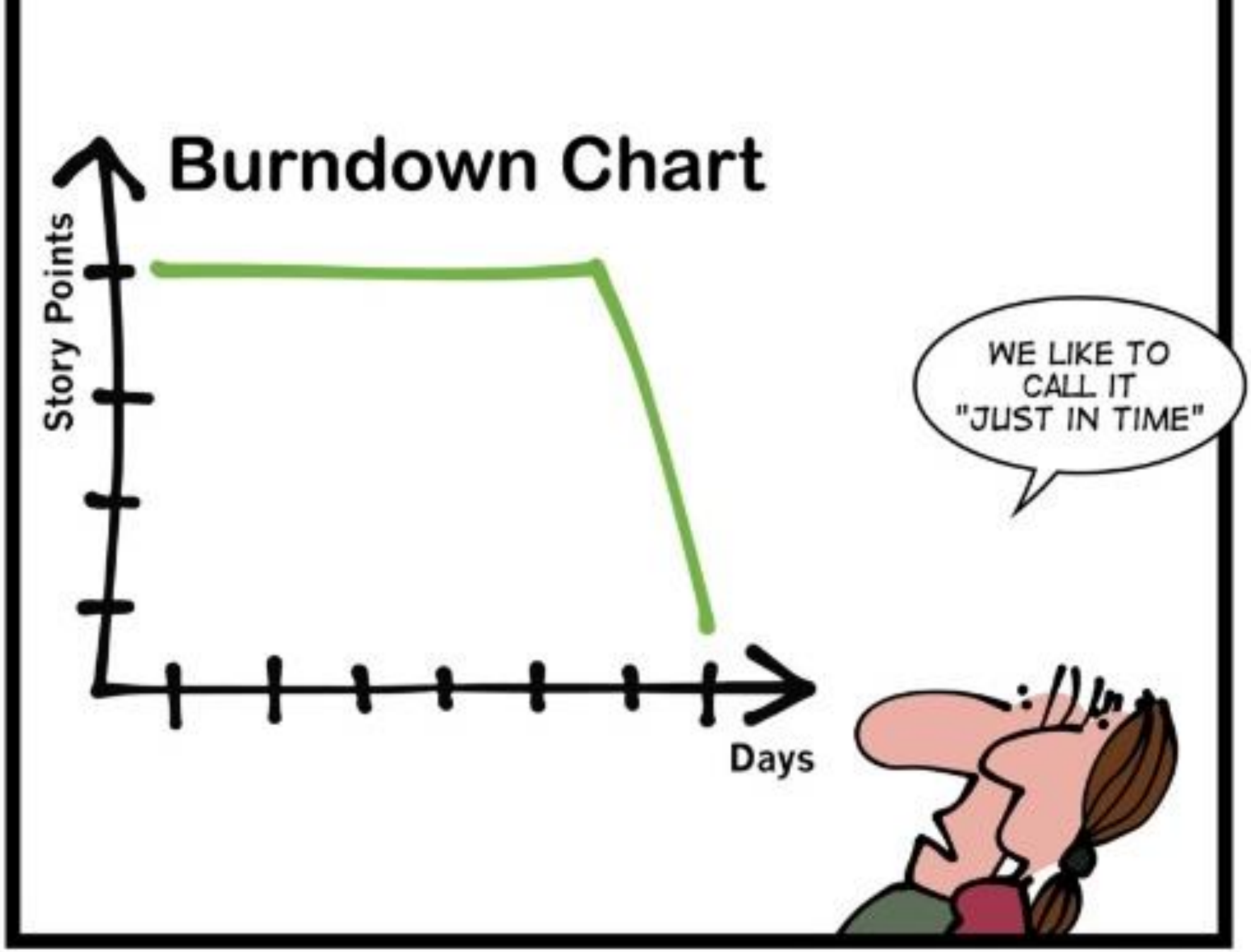
Differences between Scrum and Kanban: **Team Members**

- On scrum teams, 3 roles must exist: the Product Owner, Scrum Master, and Team Members. A team must have all the resources necessary to complete the entire sprint's work on their own.
- Under Kanban, no set roles are prescribed. Teams can share resources. Members can fulfill multiple roles.

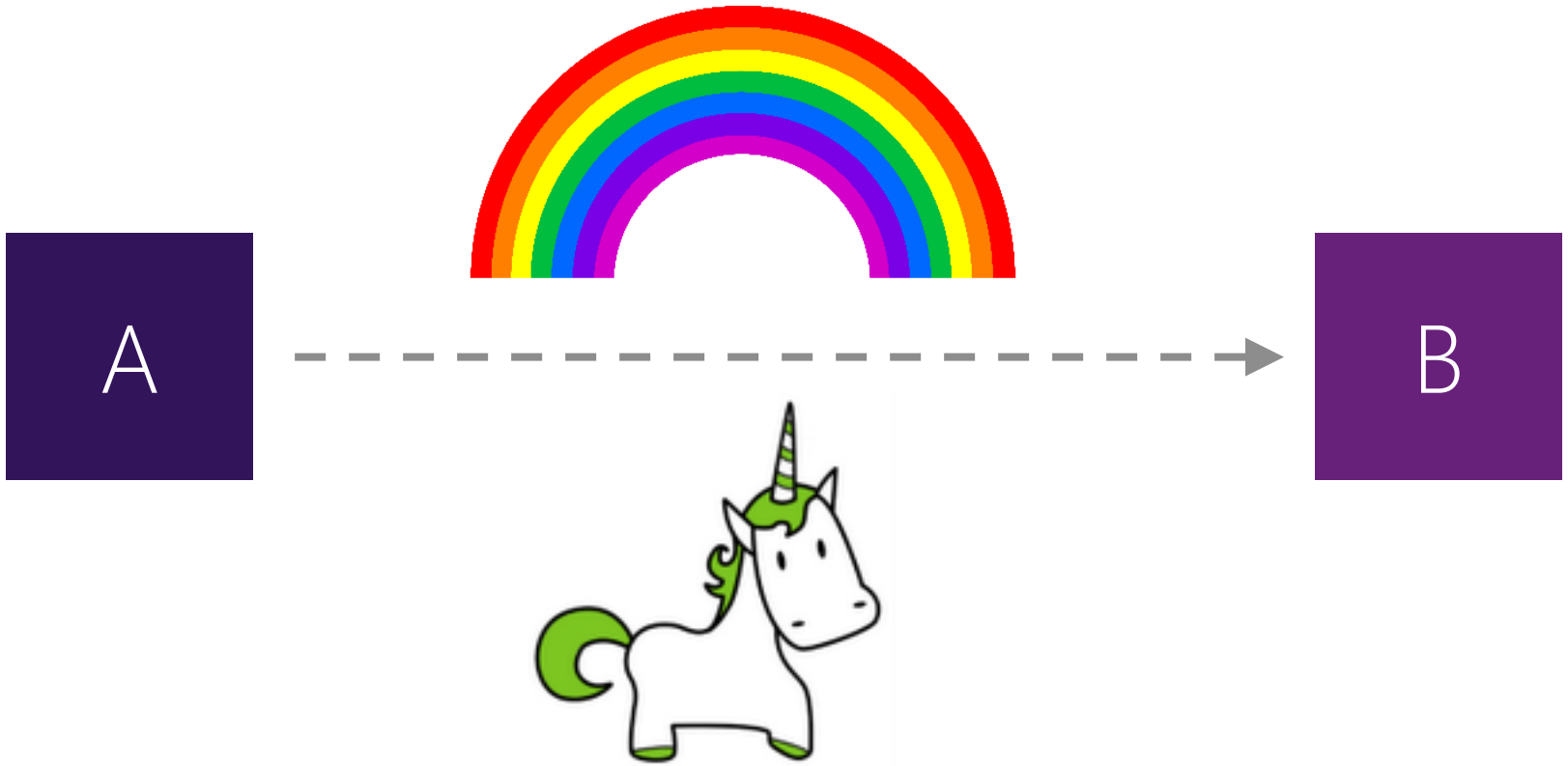
Differences between Scrum and Kanban: **Boards**

- In Scrum, columns are labeled to reflect periods in the work flow. All the stories added to the board at the beginning of each sprint should be found in the final column at the end of that sprint or the sprint was unsuccessful. Board is reset for each new sprint.
- On a Kanban board, the columns show work flow states and a maximum value for the In Progress state. No reason to reset the Kanban board as work progresses. It will continue to flow for as long as the project continues, with new stories being added as the need arises.

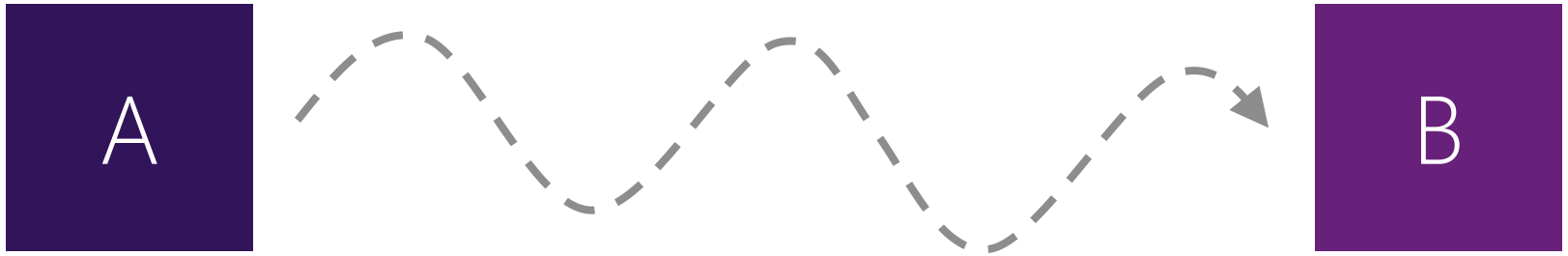
Flashbacks


Burndown Chart
Story Points
Days
WE LIKE TO CALL IT "JUST IN TIME"
WATERFALL IS BACK

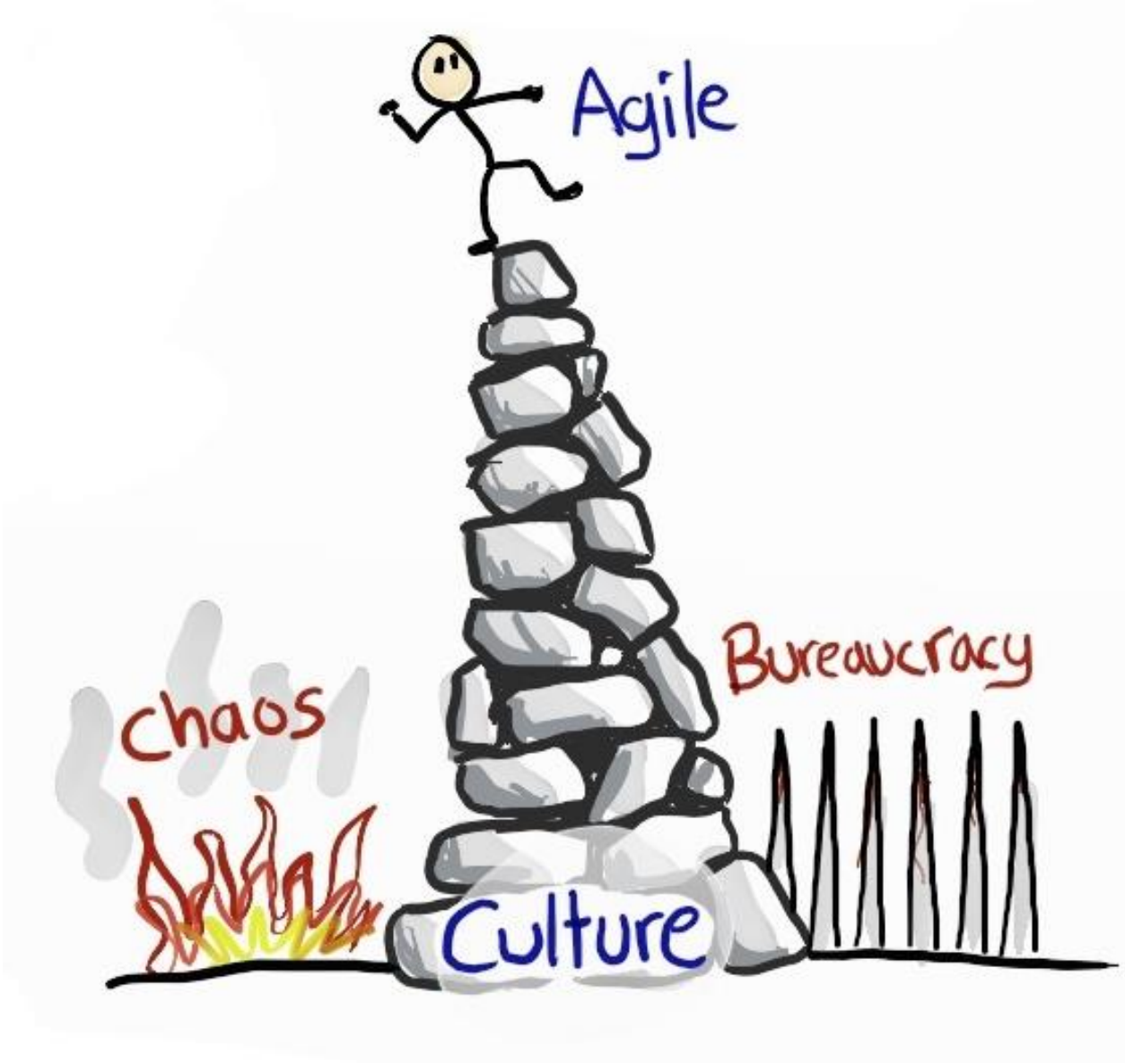
Too good to be true?



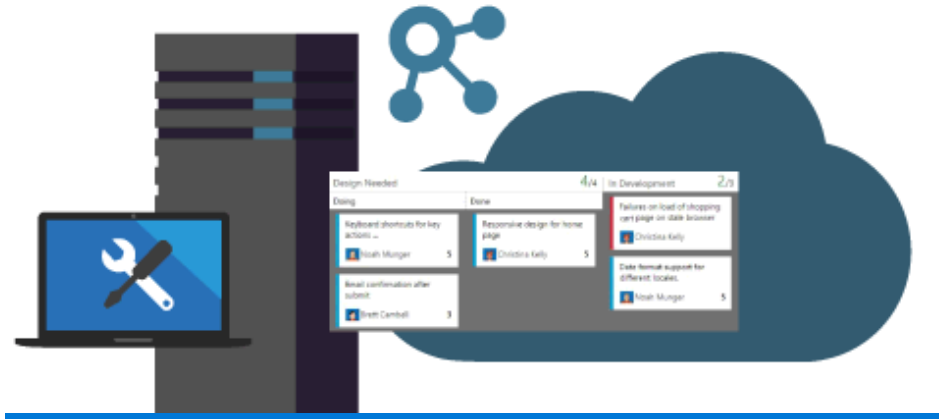
… a journey of continued improvement.



Build and Protect the Culture!



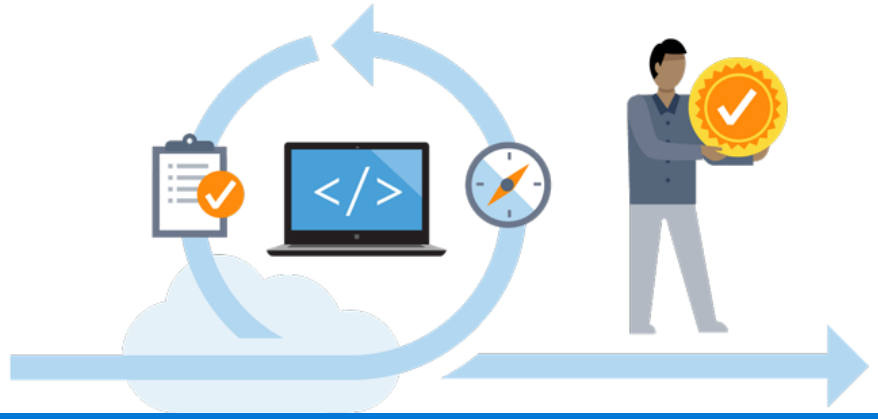
The Tools



Azure DevOps Server (2019+)

Previously known as
Team Foundation Server (TFS) –
(2018, 2017, 2015, 2013, 2012, 2010)

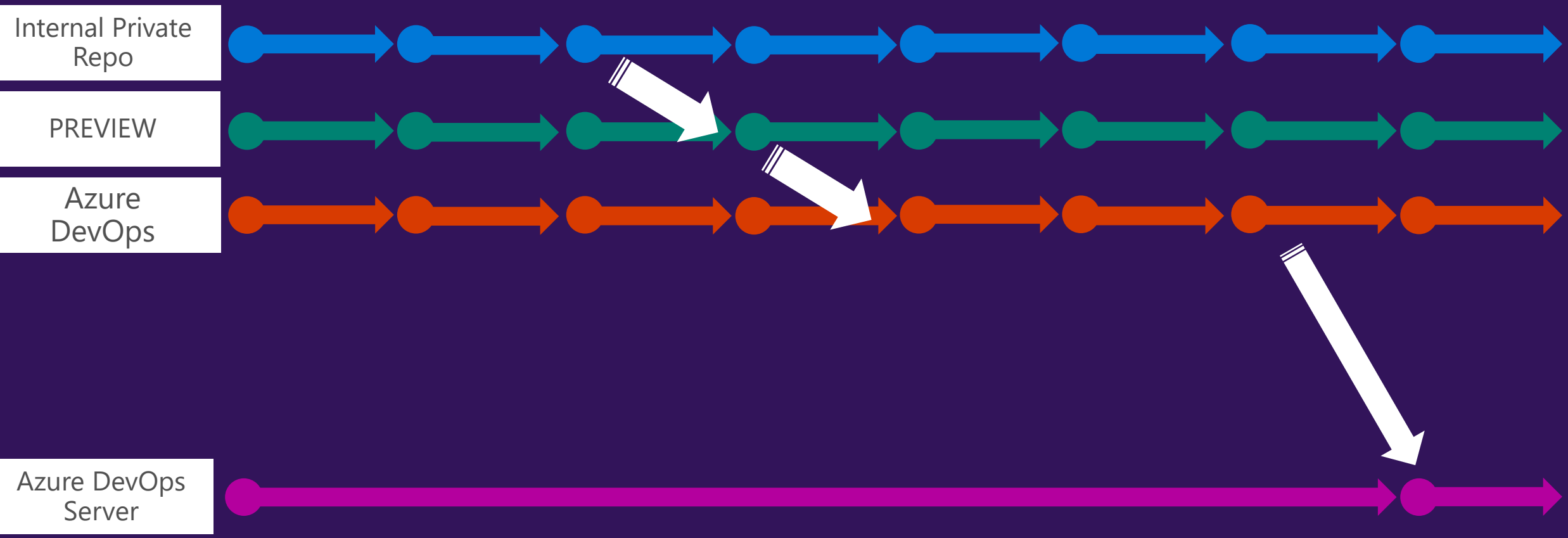
Previously, previously..
known as Visual Studio Team System 2008, 2005



Azure DevOps (Cloud offering)

Previously known as Visual Studio Team Services (VSTS)
Previously, previously known as Visual Studio Online (VSO)

Frequent Updates – 3 week sprints



References

Coming Soon! (Roadmap):
https://docs.microsoft.com/en-us/azure/devops/release-notes/

Latest updates!
https://docs.microsoft.com/en-us/tfs/server/whats-new
https://docs.microsoft.com/en-us/visualstudio/releasenotes/tfs2018-relnotes

Delivery Plans Extension:
https://marketplace.visualstudio.com/items?itemName=ms.vss-plans

Analytics Extension:
https://marketplace.visualstudio.com/items?itemName=ms.vss-analytics

Visualization Extension:
https://marketplace.visualstudio.com/items?itemName=ms-devlabs.WorkItemVisualization