Planning & Tracking Your Team's Work

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Overview

Scrum & Kanban Overview

TFS Process Templates

Demos

- Kanban with TFS
- Scrum with TFS
- Backlog Management
- Sprint Planning
- Sprint Management
- Work Item Queries
- Project Dashboards
- Follow Work Item
- Lead Time & Cycle Time with Excel
- Work Item Customization

In a DevOps world,
you want a comfortable
understanding of what's
happening for work.

Plans will change and mistakes are going to happen.

What’s your methology?

Scrum, Kanban, or a hybrid?
TFS can help.

Kanban or Scrum?

Kanban

Ticket-based?

Feels like manufacturing or assembly line?

Maintenance-oriented?

Limited knowledge of what's coming up?

Solid understanding of the what & how?

Scrum

Feature-oriented?

More work than you could ever dream of getting done?

Work needs prioritization by someone?

Kanban

Toyota

Taiichi Ohno

1950’s

Meaning: “billboard”

Kanban Board

To Do	Dev	Ready for Test	Testing	Done

Kanban Board

To Do	Dev	Ready for Test	Testing	Done
4	2	2	3	

Kanban Board

To Do	Dev	Ready for Test	Testing	Done
4	2	2	3	

Goldratt's Theory of Constraints
Step #3:
"Subordinate all other activities to the constraint"

Scrum

"Working software in 30 days or less"

Co-created by Ken Schwaber & Jeff Sutherland

1990's

Lightweight process

Scrum in the Pluralsight Library

Scrum Master Skills
Module 1 | Chapter 2 | Scrum Overview

6 min

Real World Scrum
With Team Foundation Server 2013
Module 1 | Chapter 2 | Scrum Overview

43 min

Scrum Fundamentals
by David Starr

3.5 hours

Scrum Master Skills
by Benjamin Day

4 hours

Basic Scrum Nouns

Roles

- Product Owner
- Scrum Master
- Development Team

Events

- Sprint Planning
- Daily Scrum
- Sprint Review
- Sprint Retrospective

Artifacts

- Product Backlog
- Sprint Backlog
- Increment

Scrum

Sprints

- Increments

Maximum of 30 days

Product Backlog is the wishlist for the future

Sprint Backlog is the planning & tracking related to Sprint

Scrum Board

Scrum Board

	TO DO	IN PROGRESS	DONE
PBI A			
PBI B			
PBI C			

In the rest of the module: Scrum, Kanban, and TFS to track/plan work in your DevOps flow.

Next up:
TFS Process Templates

TFS Process Templates

Process Templates

Out-of-the-box

- Agile
- Scrum
- CMMI

Determines initial contents/setup of your Team Project

Agile Development → Agile or Scrum

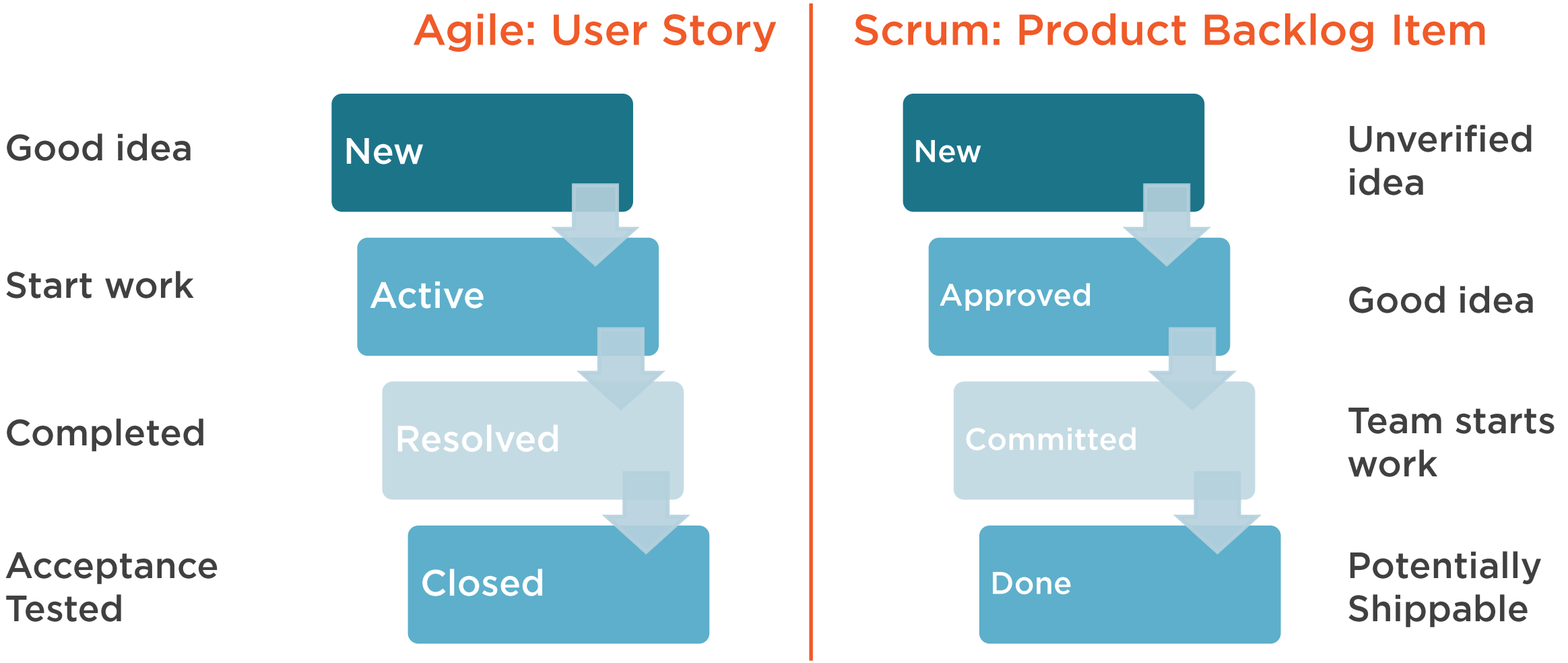
Work Items

- Project management
- Pieces of tracked work

Work Items

Agile	Scrum
User Story	Product Backlog Item
Task	Task
Bug	Bug
Issue	Impediment
Feature	Feature
Test Case	Test Case

Work Item States on Requirements

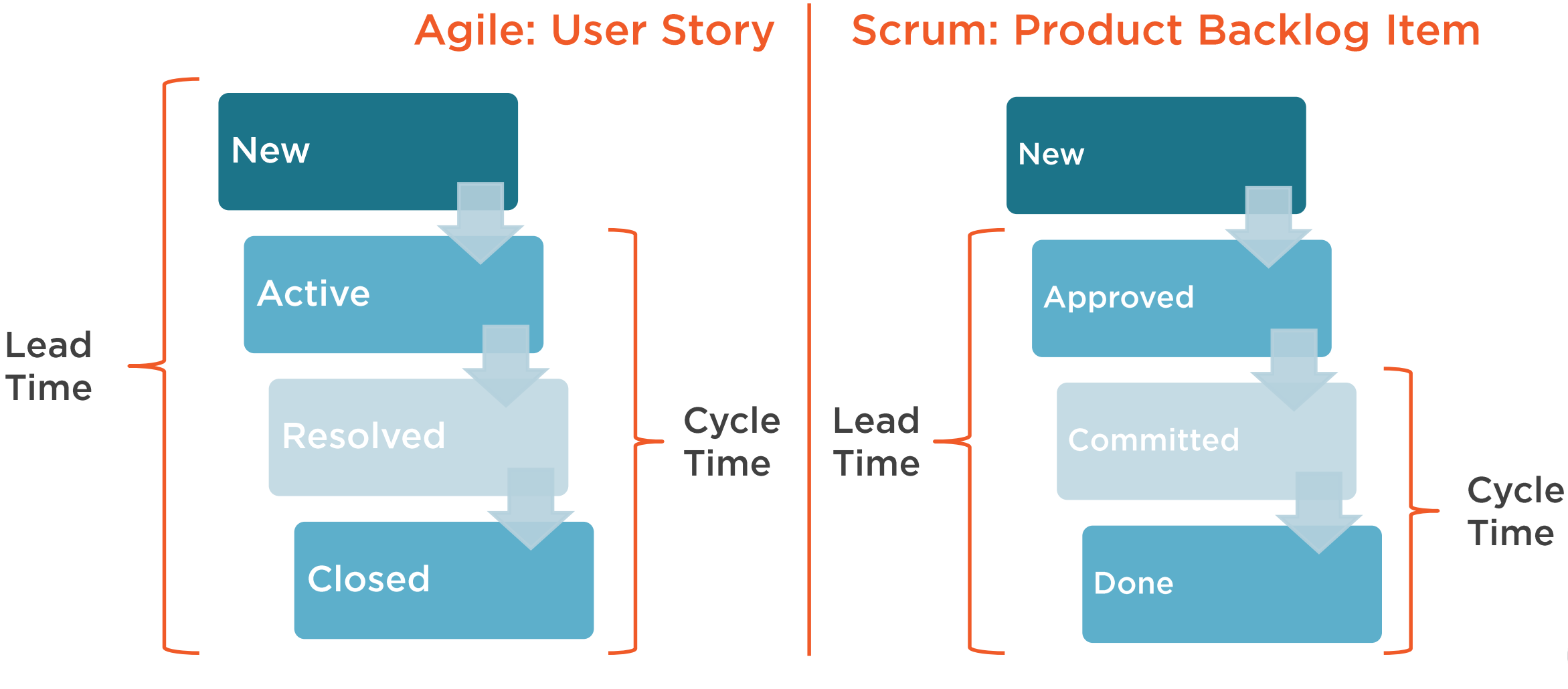


Lead Time &
Cycle Time

Lead Time:
Time from request to delivery

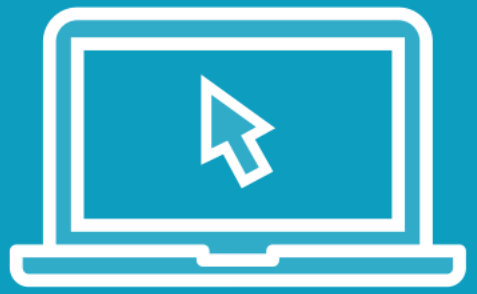
Cycle Time:
Team starts work to delivery

Requirement States, Lead Time, & Cycle Time



Next up:
Planning & Tracking in TFS using Kanban

Demo



Kanban with Team Foundation Server

Next up:
Use TFS to Manage a Scrum Product Backlog

Demo

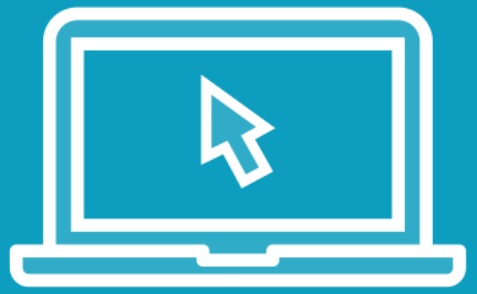
Manage a Scrum Product Backlog

Estimation in Scrum

Scrum Master Skills
Module 2 | Tighten up Your Scrum Process

Next up:
Forecasting & Velocity

Demo



Forecasting & Velocity

Velocity in Scrum

Scrum Master Skills
Module 2 | Tighten up Your Scrum Process

Next up:
Use TFS to Plan a Sprint Backlog

Demo

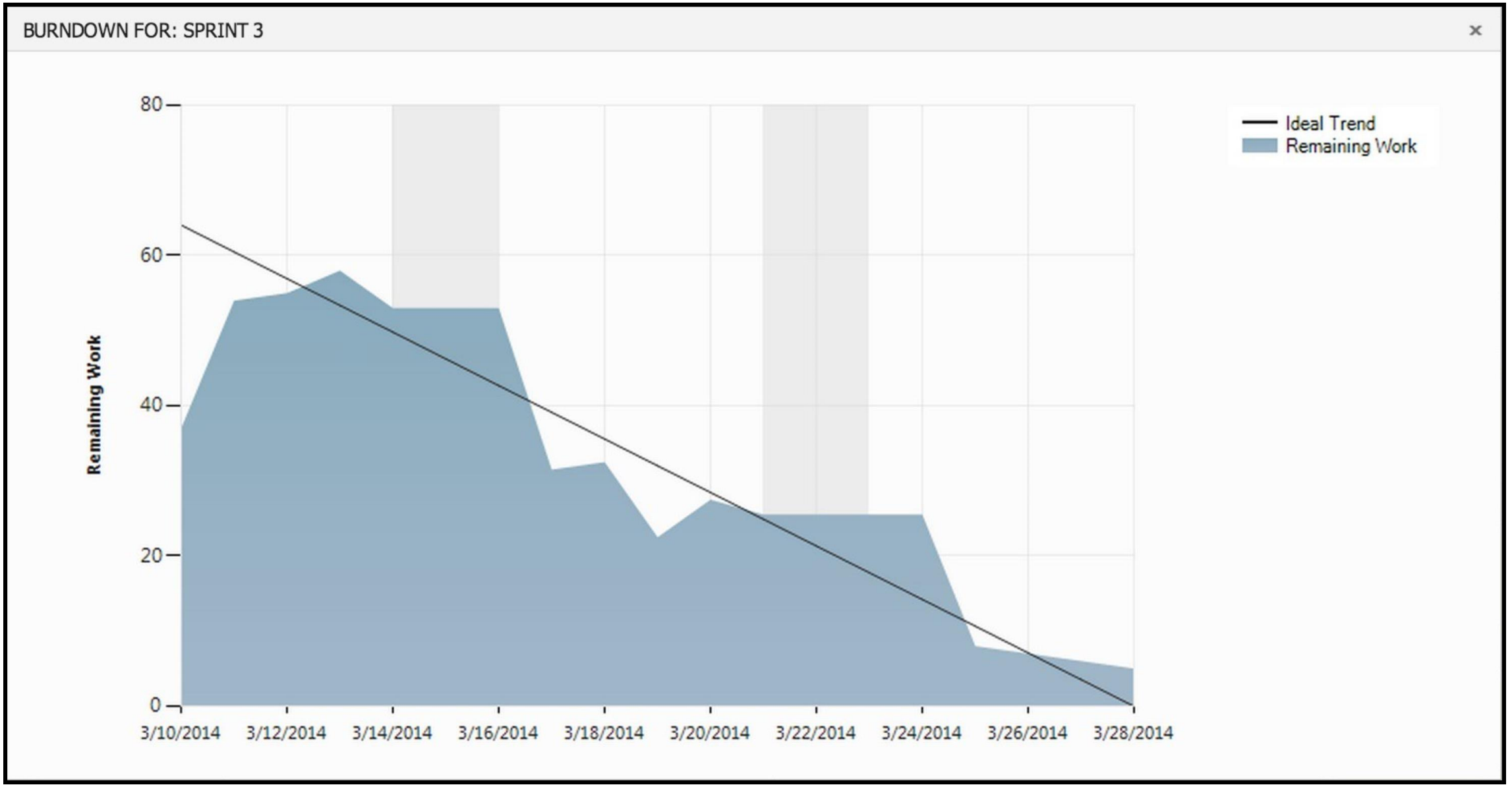
Plan a Scrum Sprint

Next up:
Use TFS to Facilitate Your Daily Scrum

Demo

Daily Scrum meeting

Plan, manage, & track day-to-day work


BURNDOWN FOR: SPRINT 3
Ideal Trend
Remaining Work
Remaining Work
80
60
40
20
0
3/10/2014
3/12/2014
3/14/2014
3/16/2014
3/18/2014
3/20/2014
3/22/2014
3/24/2014
3/26/2014
3/28/2014

Next up:
Use a TFS Dashboard to Visualize Progress

Demo

Use a dashboard to visualize status

Next up:
TFS Work Item Queries & Charts

Demo

TFS Work Item Queries

TFS Work Item Query Charts

Next up:
Follow Work Item

Demo

Follow Work Item

Next up:
Lead Time & Cycle Time using Excel

Calculate
Lead Time & Cycle Time
using Excel & TFS

Open a Work Item Query using Excel → Calculate in Excel

It works by default with the Agile process template.

Scrum template requires customization.

Work Items, Work Item Fields, & State Transitions

Work items are made up of Fields

Field = piece of data in a Work Item

Fields have a “refname”

- System.Id, System.Title
- Microsoft.VSTS.Common.*

System.State

- Agile: New, Active, Resolved, Closed
- Scrum: New, Approved, Committed, Done

States have Transitions

- Custom actions

Lead & Cycle Time Data in TFS

Tracking requirements

Agile Process Template

- User Story work item type

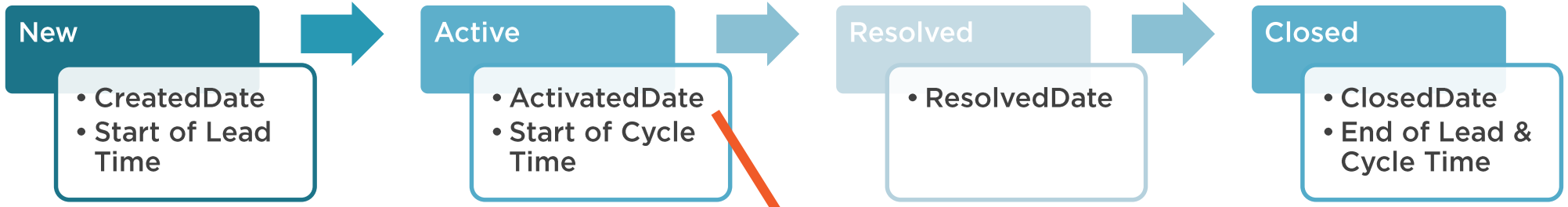
Scrum Process Template

- Product Backlog Item work item type

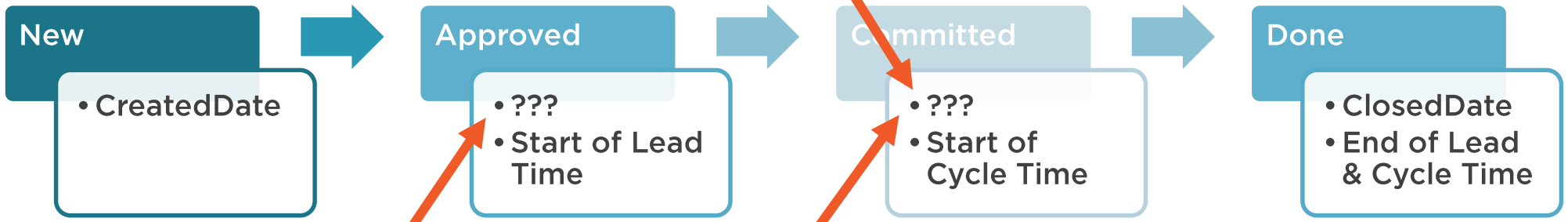
Required Data & State Transitions

Agile Process Template: User Story

Field “refnames” all start with Microsoft.VSTS.Common.*



Scrum Process Template: Product Backlog Item



Benday.Scrum.ApprovedDate

Microsoft.VSTS.Common.ActivatedDate

Customize TFS Work Items

Work items are XML

- Work Item Type Definition
- WITD

witadmin.exe

witadmin exportwitd

- Download WITD

Edit the WITD

witadmin importwitd

- Upload the customized WITD

Next up:
Customize TFS to get Lead & Cycle Time

Demo

Part 2

Customize Scrum Process Template

Lead Time

Cycle Time

Open a Work Item Query in Excel

Summary

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Next up:
Automating Builds