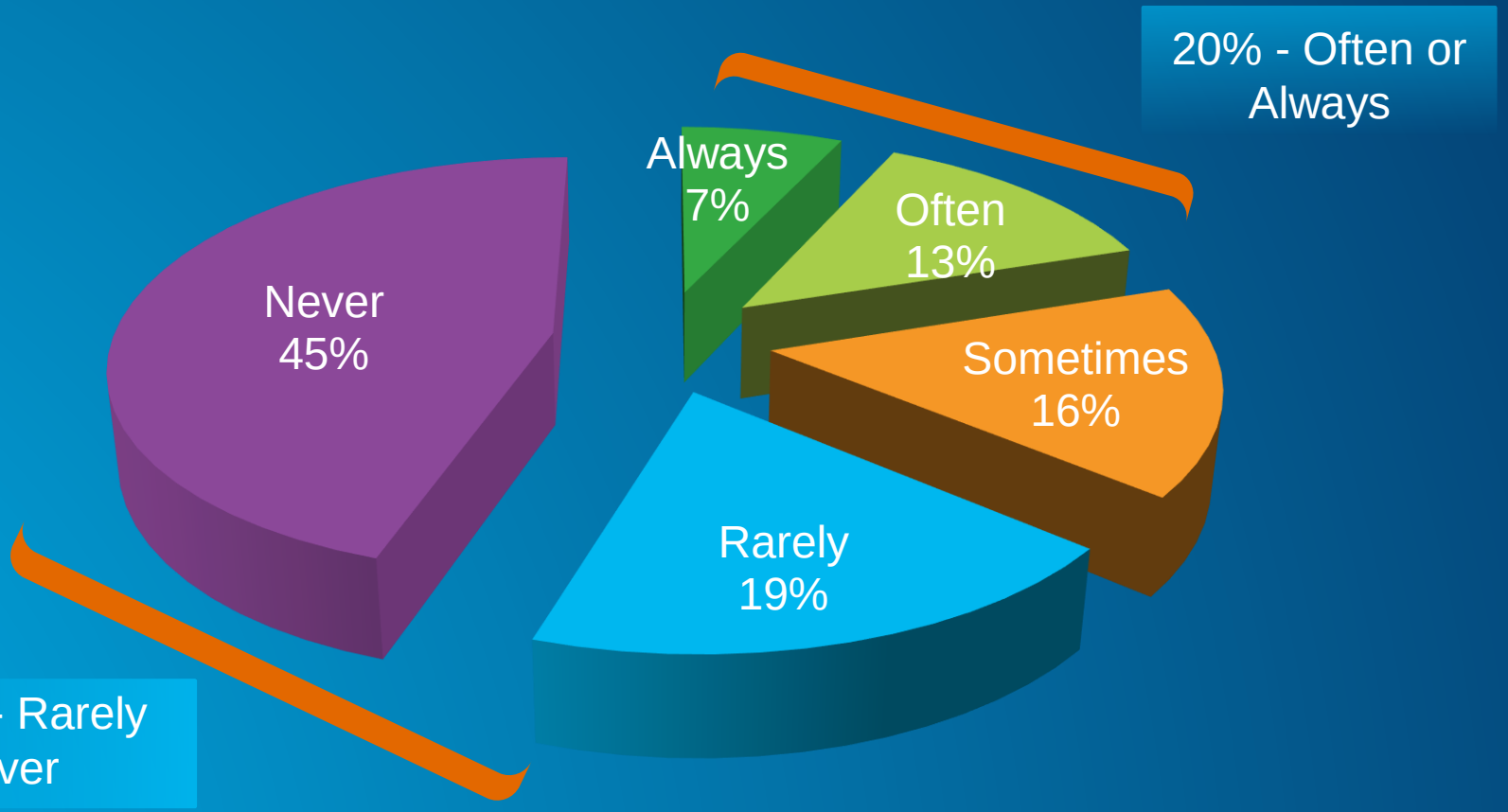
When is Agile the Best Project Management Methodology

Lana Tylka

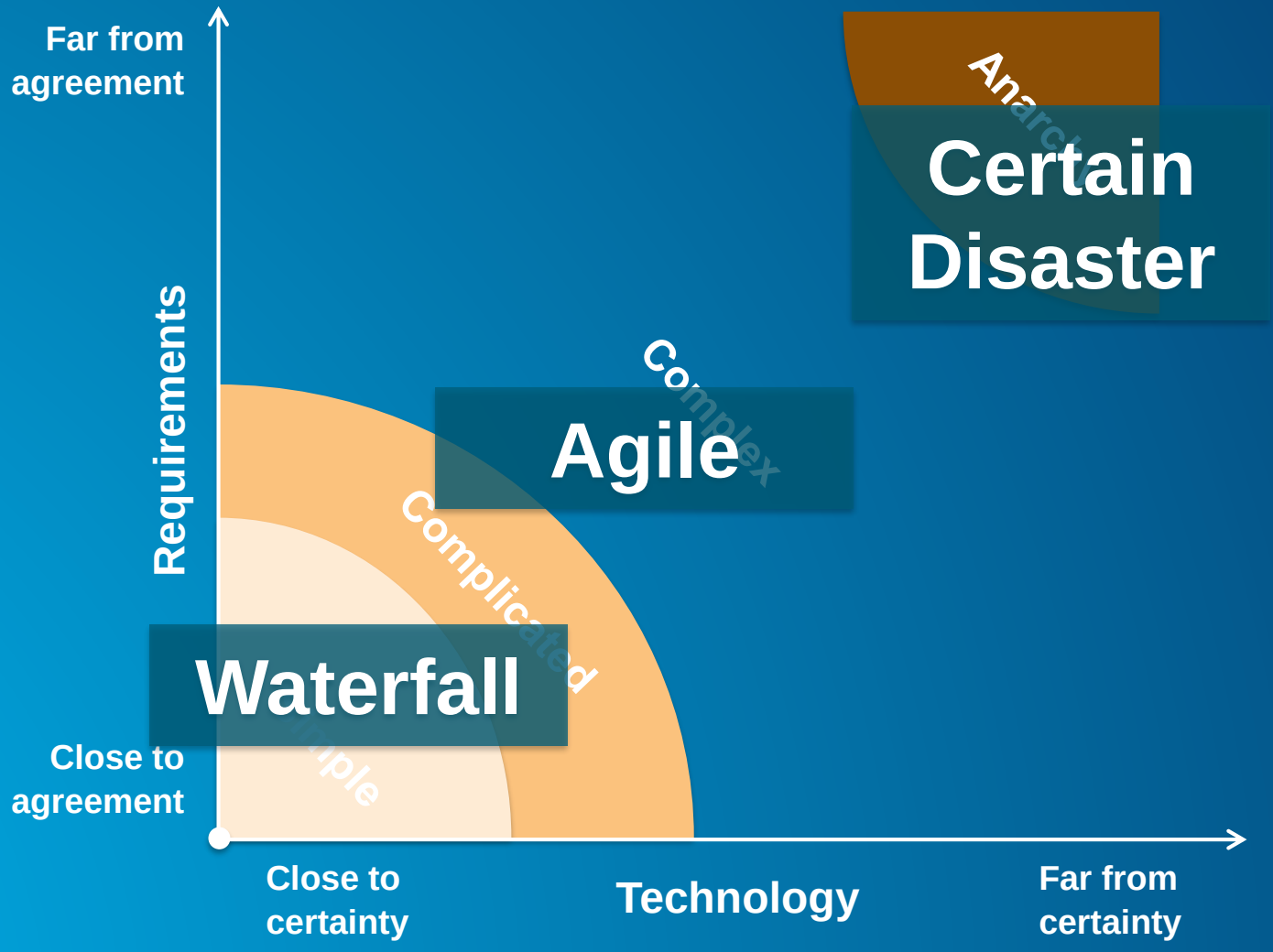
Build for Value

Requirements evolve over time



Standish Group Study Reported at XP2002 by Jim Johnson, Chairman

How Requirements, Technology Affect your Choice of Project Lifecycle



Waterfall

- Sequential Steps
- Single Release

Staged

- Upfront requirements, design
- Prototypes
- Incremental deliveries

Agile/Scrum

- Just in time requirements, design
- Short duration sprints
- Continued releasable product

When would you use Agile?

	Agile	Staged Delivery	Waterfall
Scope, Technology, Contract	• Flexible scope, deliverables • One or several applications	• Several applications • Prototypes expected	• Clear requirements • Fixed deliverables • Single application
Size, Duration	• Any size or duration project	• Medium or large size, mid to long duration	• Small size, short duration project
Capacity, Capabilities, Environment	• Customer EXPECTS collaboration • Stable, experienced project team	• Capacity, resources, and environment to support multiple releases	• Limited capacity, resources, and environment • Frequent turnover on project team

Estimating

Big Picture

Epics

System Architecture

Database Design

Widget

Story point is a arbitrary measure used by Scrum teams. This is used to measure the effort required to implement a **story**. In simple terms its a number that tells the team how hard the **story** is. Hard could be related to complexity, Unknowns and effort. In most cases a **story point** range is1,2,3,5,8,13,21,34,45

Story Points

21

34

34

45

21

Story Points

21	34	34	55	21

x 8

Hours

168	272	272	440	168

Pricing Sheet

Activity	Scrum Master	Product Owner	Developer	Analyst	System Admin	Total
System Architecture	16	16	0	16	120	**168**
Geodatabase Design	24	24	0	184	40	**272**
Widget 1	24	24	176	48	0	**272**
Widget 2	40	40	280	80	0	**440**
Application Hardening	40	16	84	24	4	**168**

Work Breakdown Structure

Managing

As a [role], I can [feature] so that [benefit]

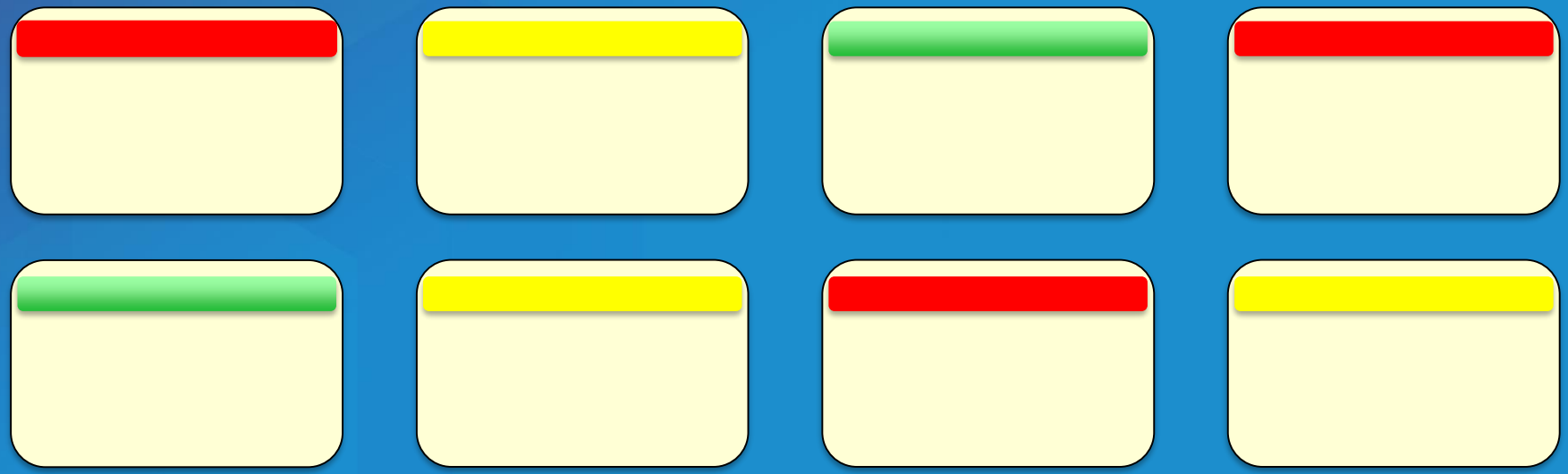
As a field representative,
I want to collect information offline
so that data can be collected
in remote locations.

Product Backlog

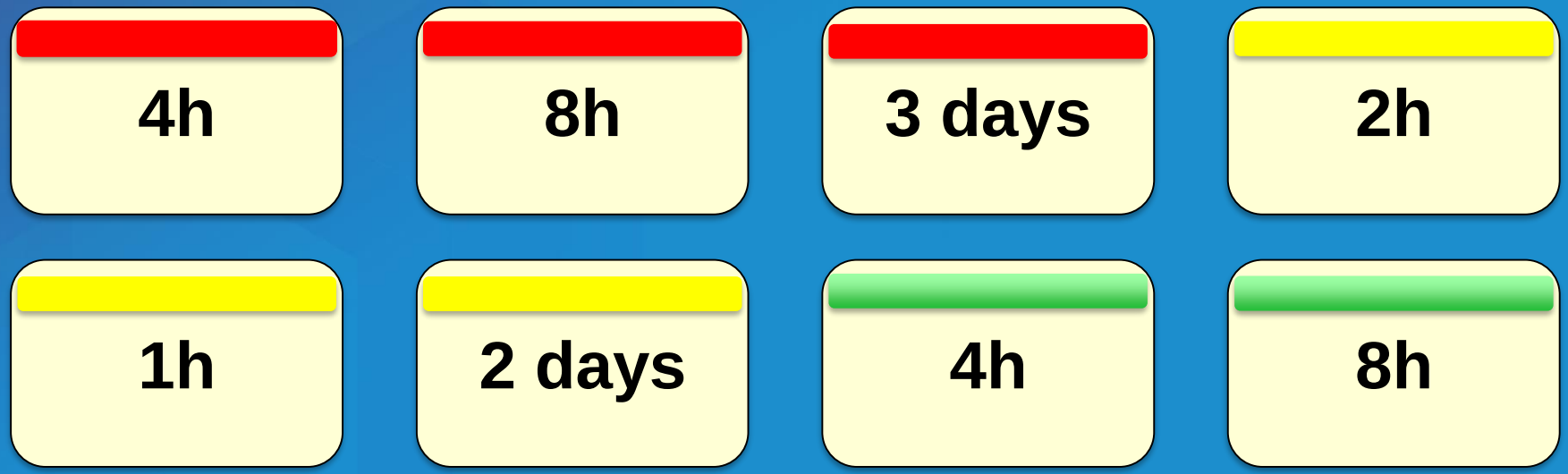
Wish List

Sprint Backlog

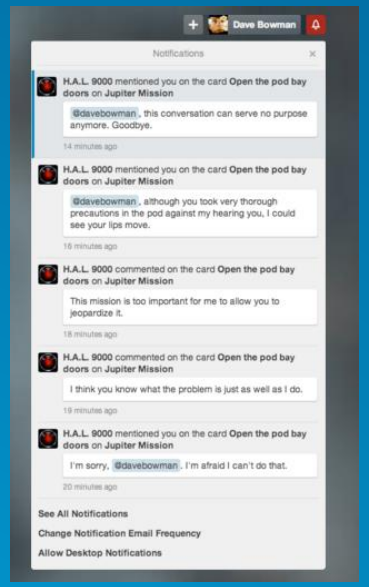
Sprint Backlog

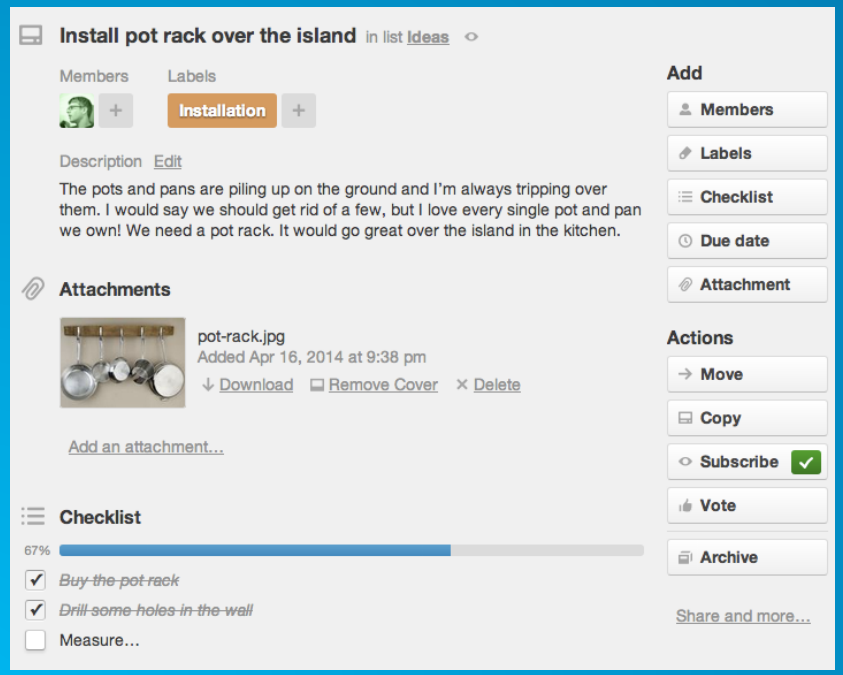


Sprint Backlog



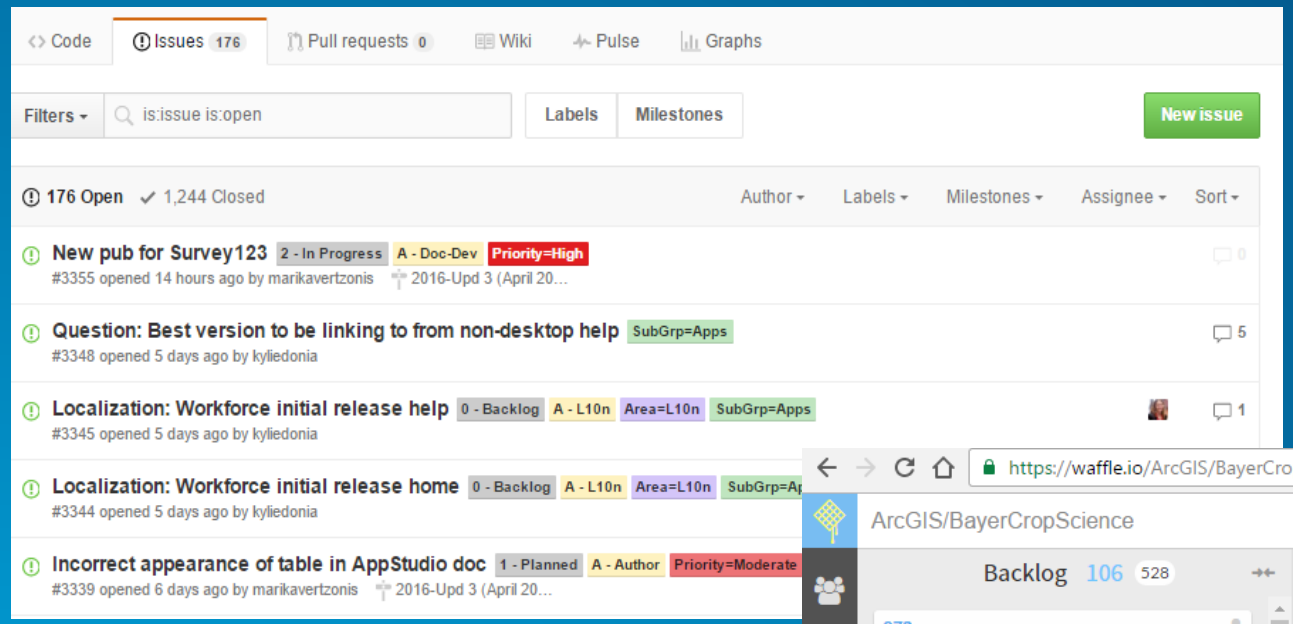
Using Trello

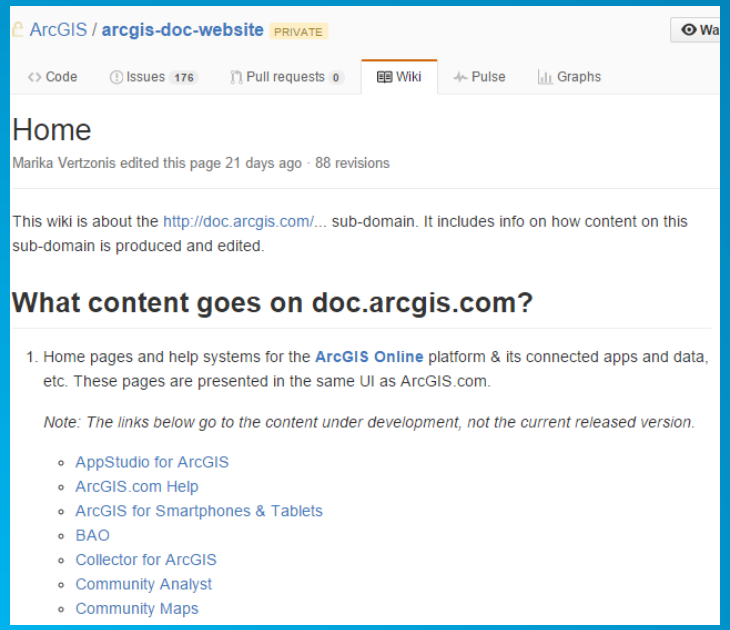


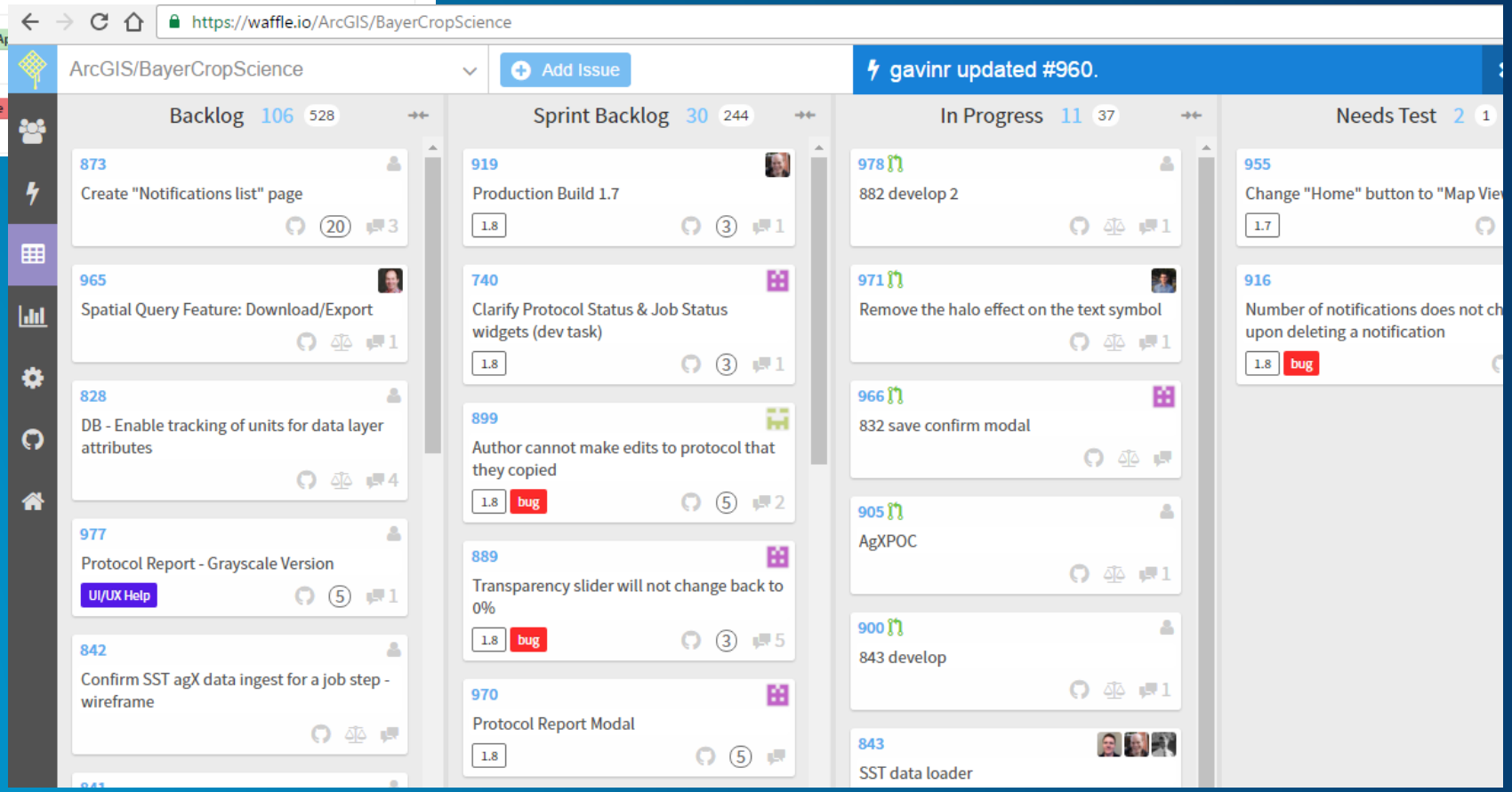


https://www.rallydev.com/

Using GitHub

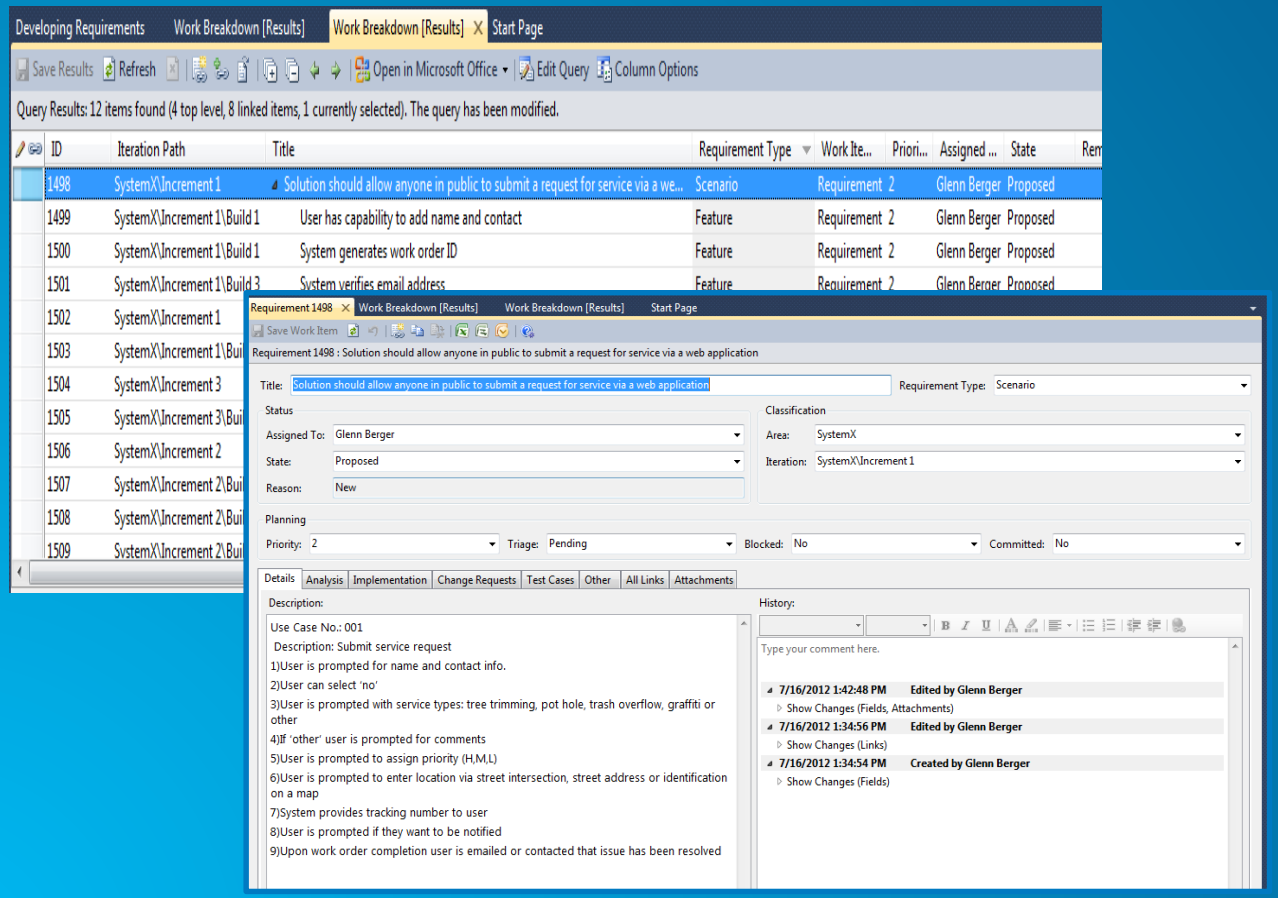




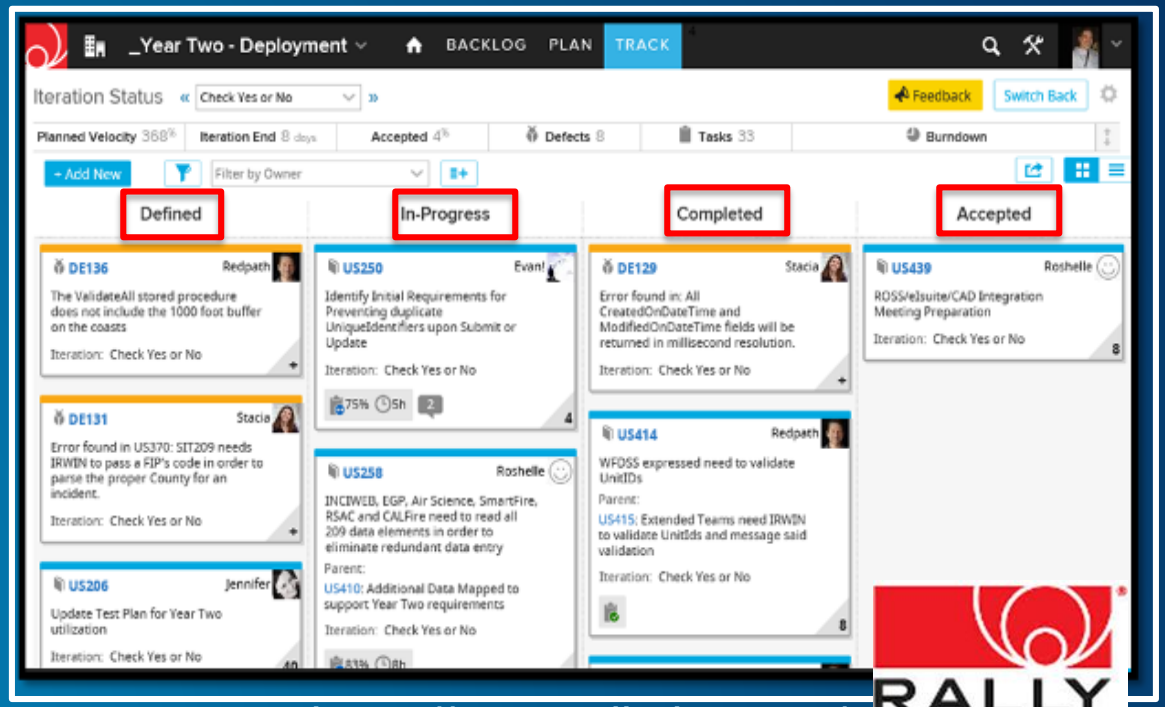


Use Tools to Manage Requirements

Microsoft Team Foundation Server (TFS)



Rally Agile Implementation Tool



https://www.rallydev.com/

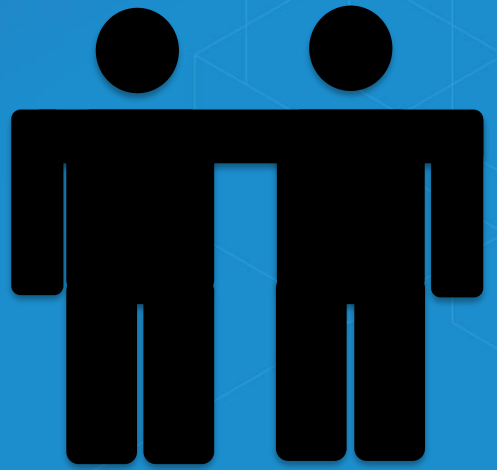
Making a Decision

Project Considerations	Trello	GitHub	TFS
Requirements are Proprietary			
Mobile App			
Easy to setup			
Estimation tools			
Scheduling tools			
Automated Burndown chart			
Easily integrated with Visual Studio for Code Repository			
Capacity Planning			
Exports to MPP and Excel			

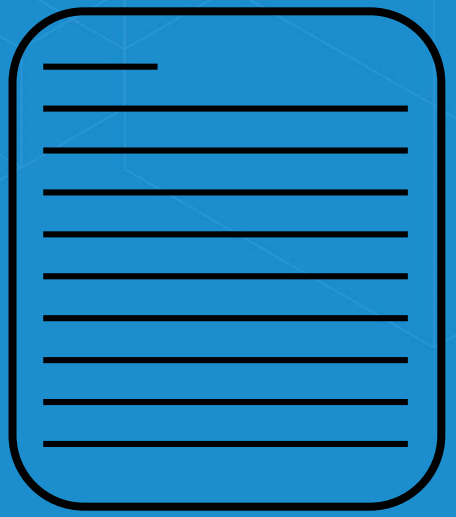
Keys to Successful Sprinting!

Communication

Trusted Partnerships



Transparency



Questions?