



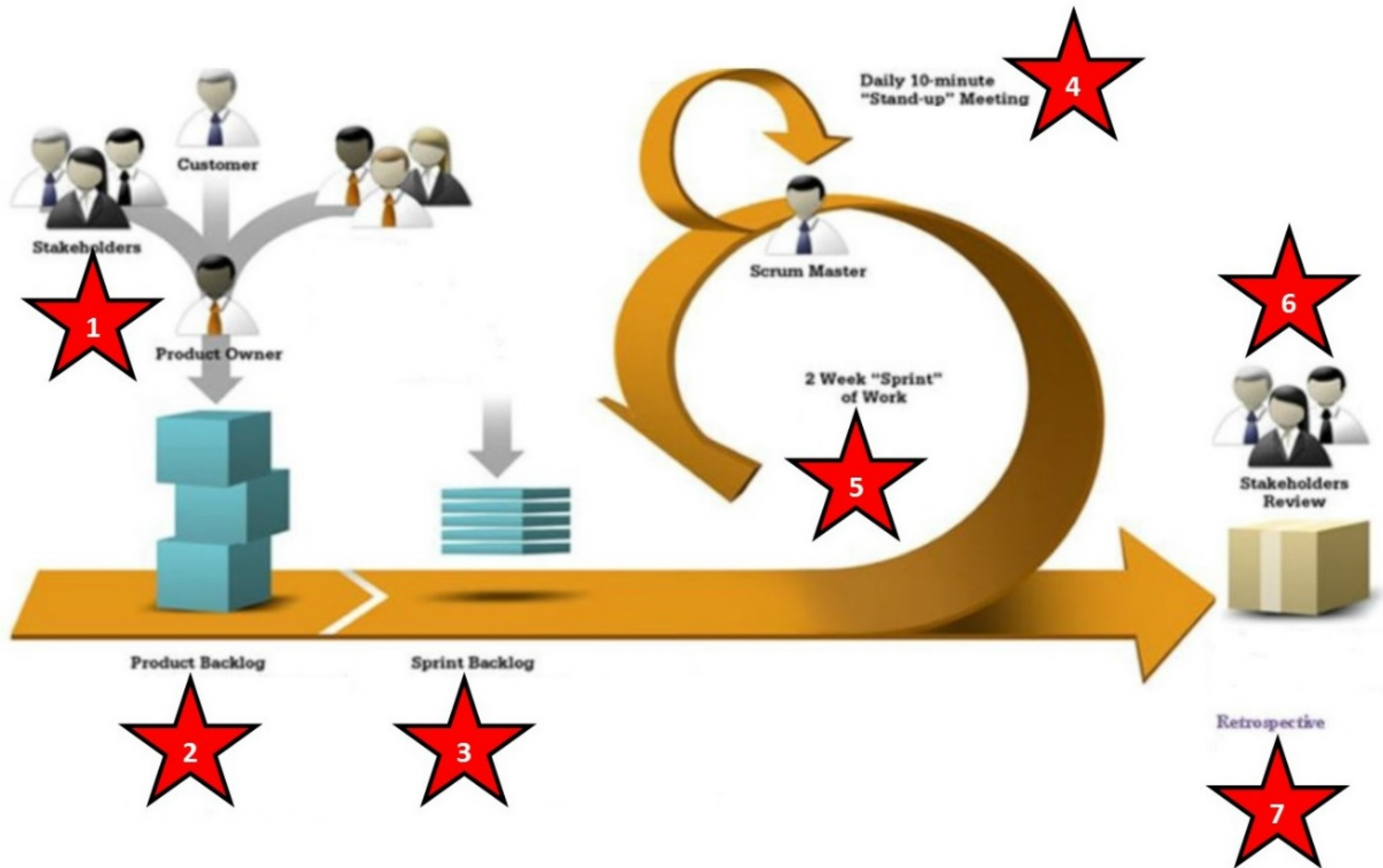
PROJECT MANAGEMENT  
CENTER FOR EXCELLENCE

A.J. CLARK SCHOOL OF ENGINEERING  
Civil & Environmental Engineering Department

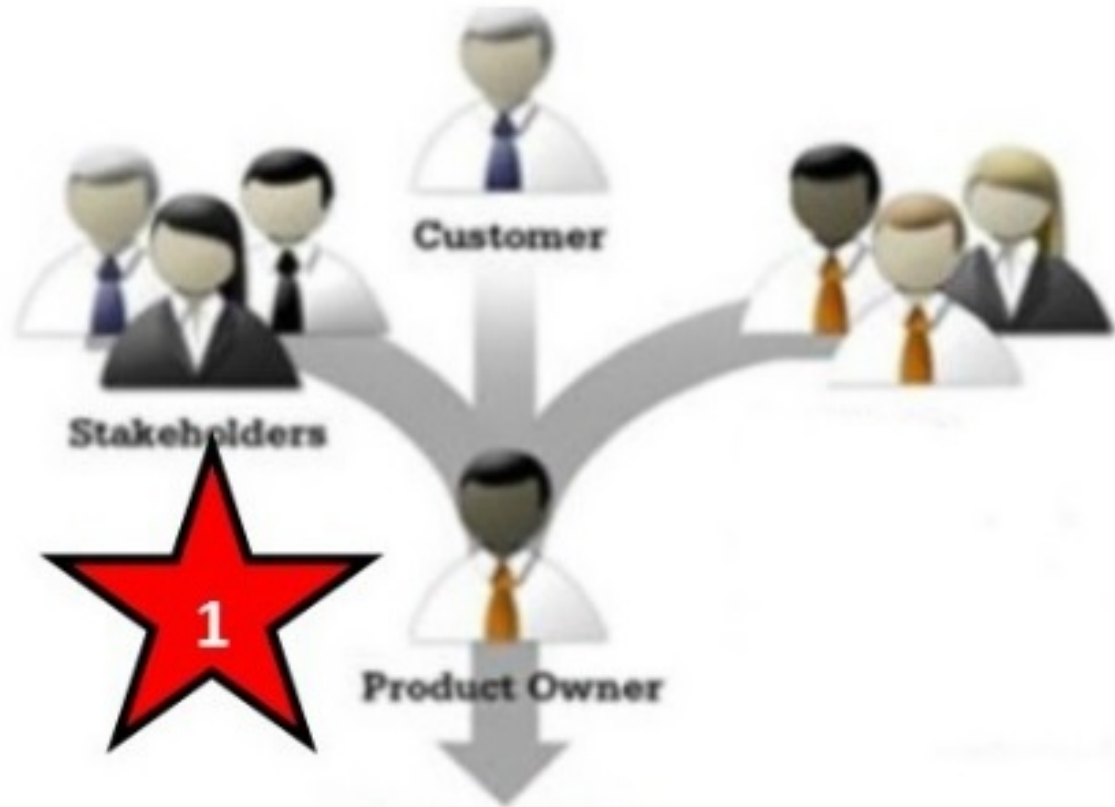


# RECONCILING DATA MANAGEMENT AND KNOWLEDGE MANAGEMENT WITH AGILE PROJECT MANAGEMENT

*Dr. Bill Brantley, PMI-ACP, PMP*  
*2020 Project Management Symposium*



## Initiating the Agile Project



### Knowledge Created

- Documents that led to project initiation and continuation
- Design thinking artifacts to help determine the project deliverables
- Project product features
- Capture meeting details



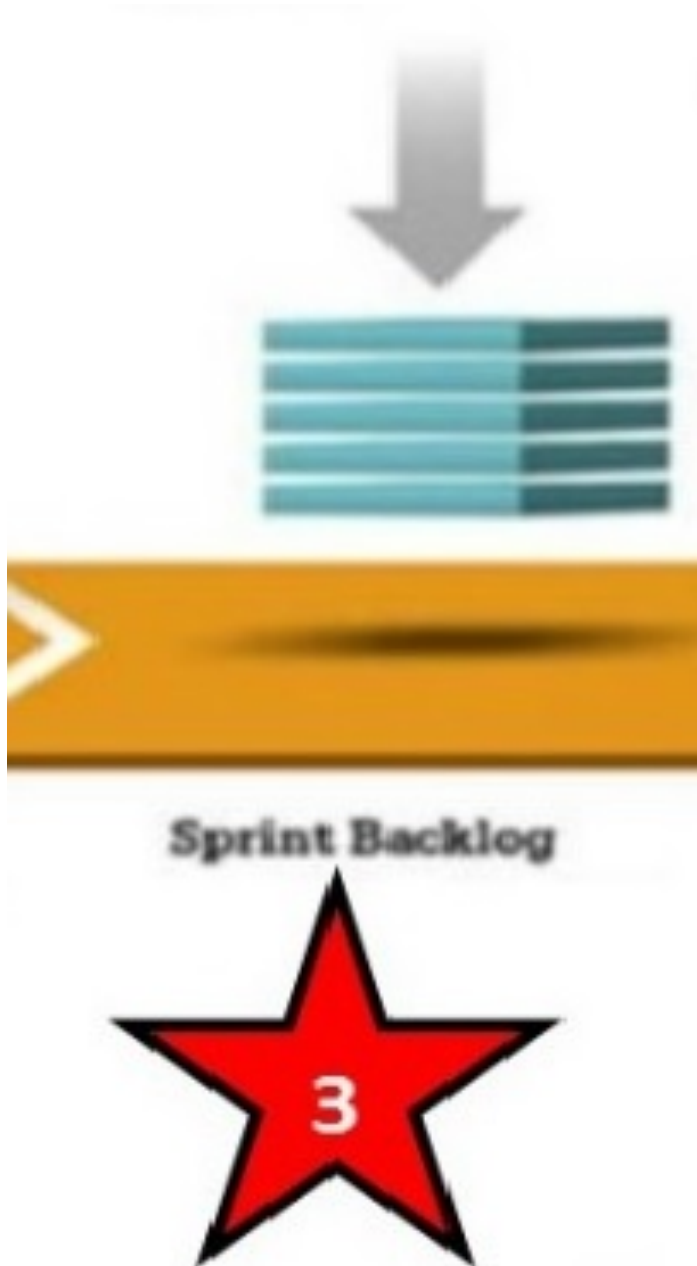
Product Backlog



## Agile Project Product Backlog

### Knowledge Created

- Meeting details between agile project team, scrum master, and product owner
- Capture documents and artifacts that led to product backlog decisions



## Agile Project Sprint Backlog

### Knowledge Created

- Meeting details between agile project team, scrum master, and product owner
- Capture documents and artifacts that led to sprint backlog decisions



## Agile Project Daily Stand-Ups

### Knowledge Created

- Capture daily stand-ups details between agile project team and scrum master

**2 Week “Sprint”  
of Work**



## Agile Project Sprints

### Knowledge Created

- Details and decisions from story planning sessions
- Capture the information radiators
- Record the minimal viable product decisions and iterations
- Changes to sprint backlog
- Document project team velocity and related statistics



Stakeholders  
Review



## Agile Project Stakeholders Review

### Knowledge Created

- Details from the planning for the stakeholders' review
- Comments and observations from the stakeholders during the review
- Decision details on how to proceed in the next iteration of the project



## Retrospective

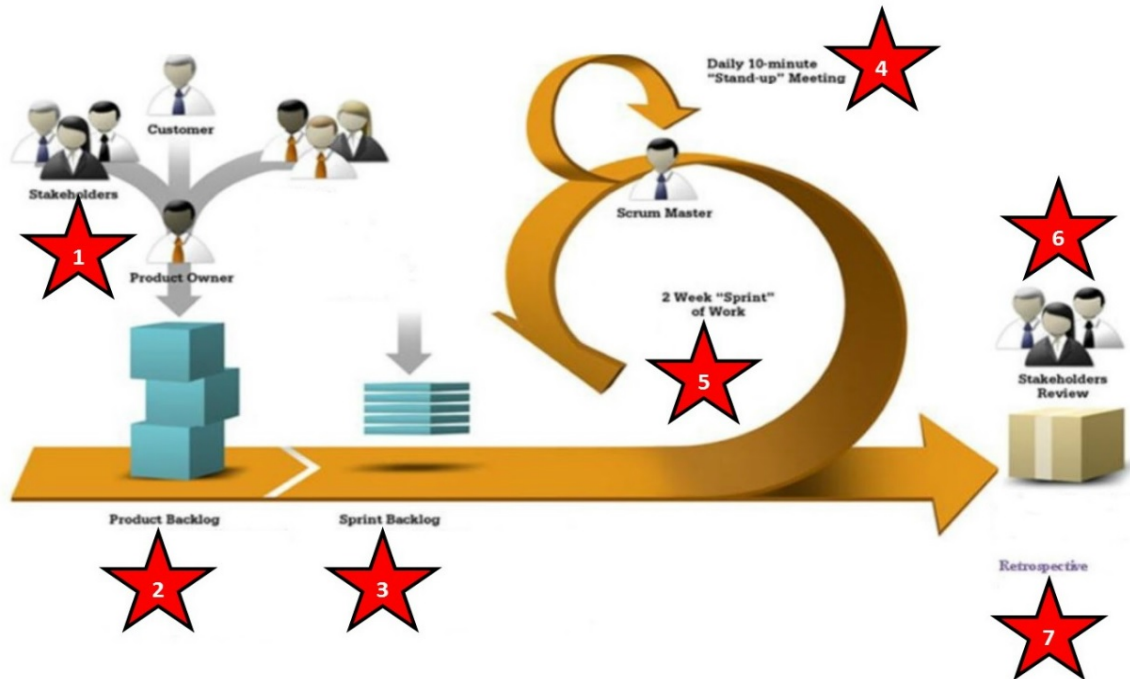


## Agile Project Retrospective

### Knowledge Created

- Preparations for the retrospective
- Comments and observations from the agile project team during the retrospective
- Decision details on how to improve the agile project process in the future

## Agile Project Knowledge Created



- Recording the decisions made during the project
- Changes made to the project product and the reasons why
- Improvements to the project process
- How well the agile team works with stakeholders, the scrum master, and each other
- Return on investment on the entire agile project process

# Agile Project Mgmt. and Knowledge/Data Mgmt. Synergy

## Agile Manifesto

Individuals and Interactions over  
process and tools

Working product over comprehensive  
documentation

Customer collaboration over  
negotiation

Responding to change over following a  
plan

## Knowledge/Data Management

Frequent Real time sharing and conversation  
/ Role-based sharing and security

Curated documentation saved in secured  
repositories / Version Control

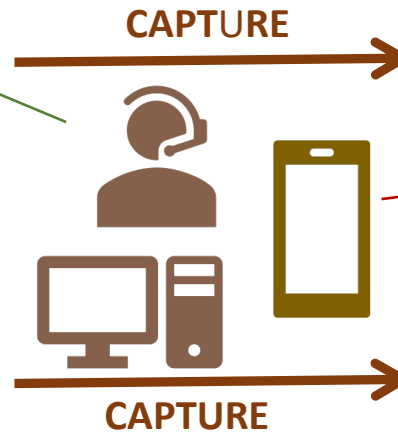
Collaboration /Communication/ After Action  
Reviews / Retention Schedule

Change management / Decision-critical  
knowledge / Data Sharing Principles

# Knowledge Capture Methods

Live Person(s)  
Taking Notes at  
all Meetings

Agile Software  
Team Members  
Add Notes from  
Meeting

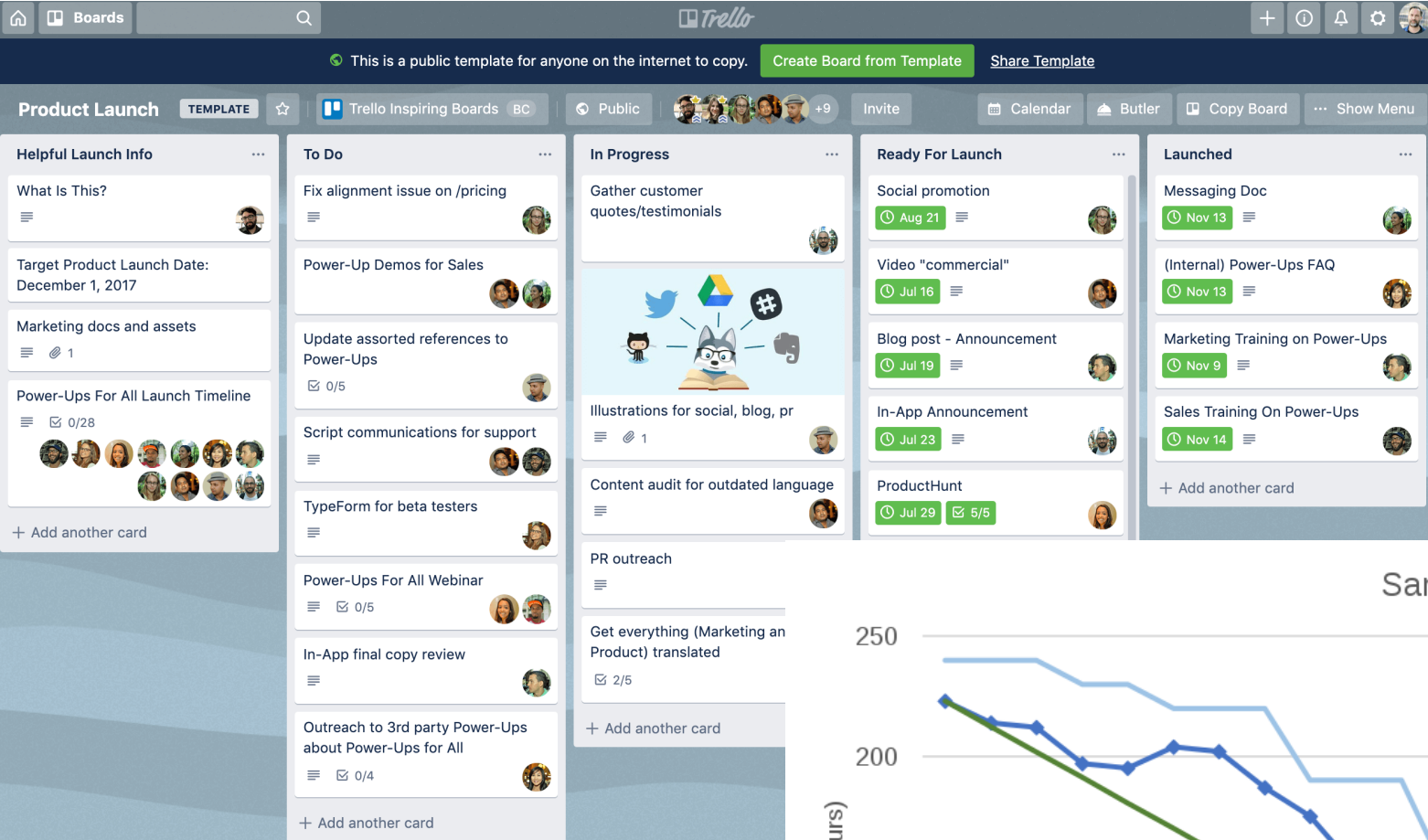


## A New Way

Record Audio at all Agile Meetings using an inexpensive, light-weight, easy-to-use (mobile) application.

- Keep audio recordings on file for the project duration.
- Transcribe meetings where necessary
- Include in Information radiators

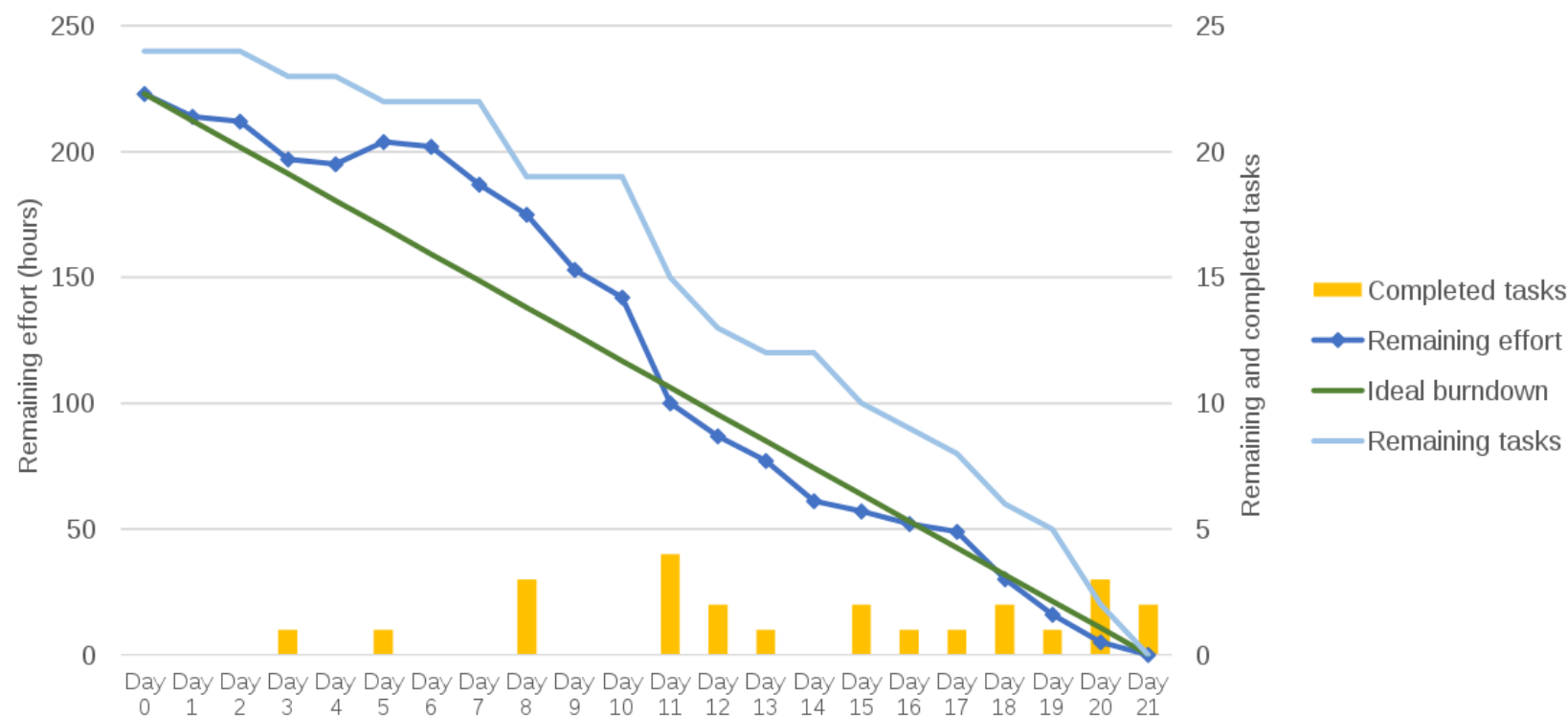
◆ VersionOne ◆ JIRA Software ◆ Active Collab ◆ Agilo for Scrum ◆ Atlassian Jira + Agile ◆  
◆ Cogi ◆ Voice Recorder ◆ Otter.ai ◆ Audacity ◆



# Kanban Boards

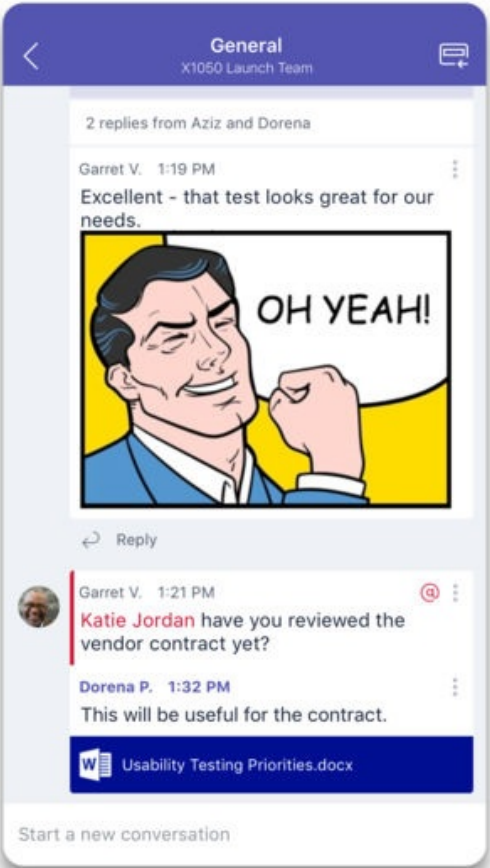
# Information Radiators

Sample Burndown Chart

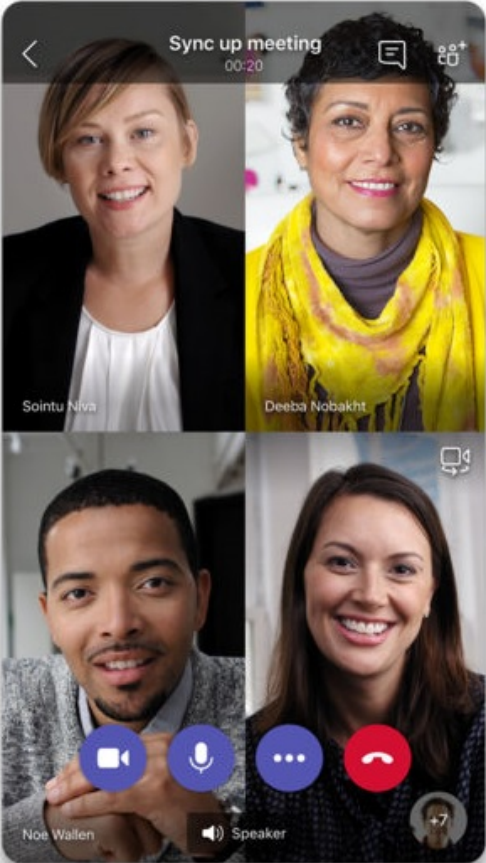


# Microsoft Teams – All-In-One Collaboration and Documentation Tool

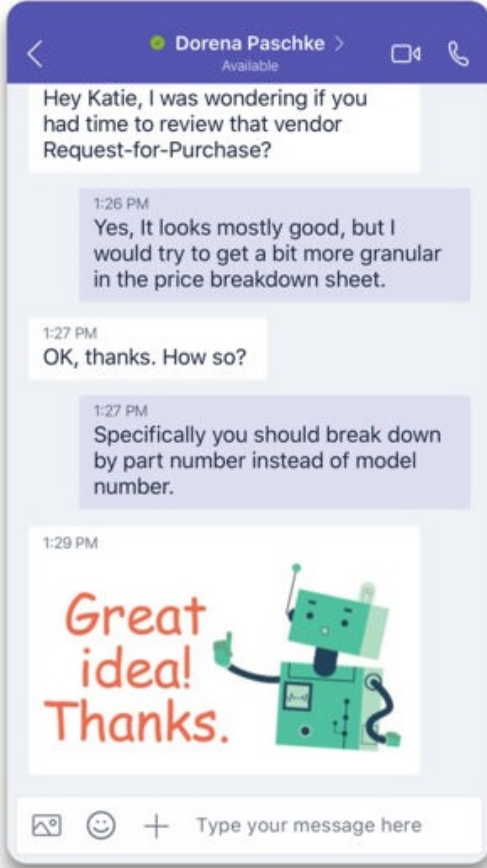
One place for your team's  
conversations and content



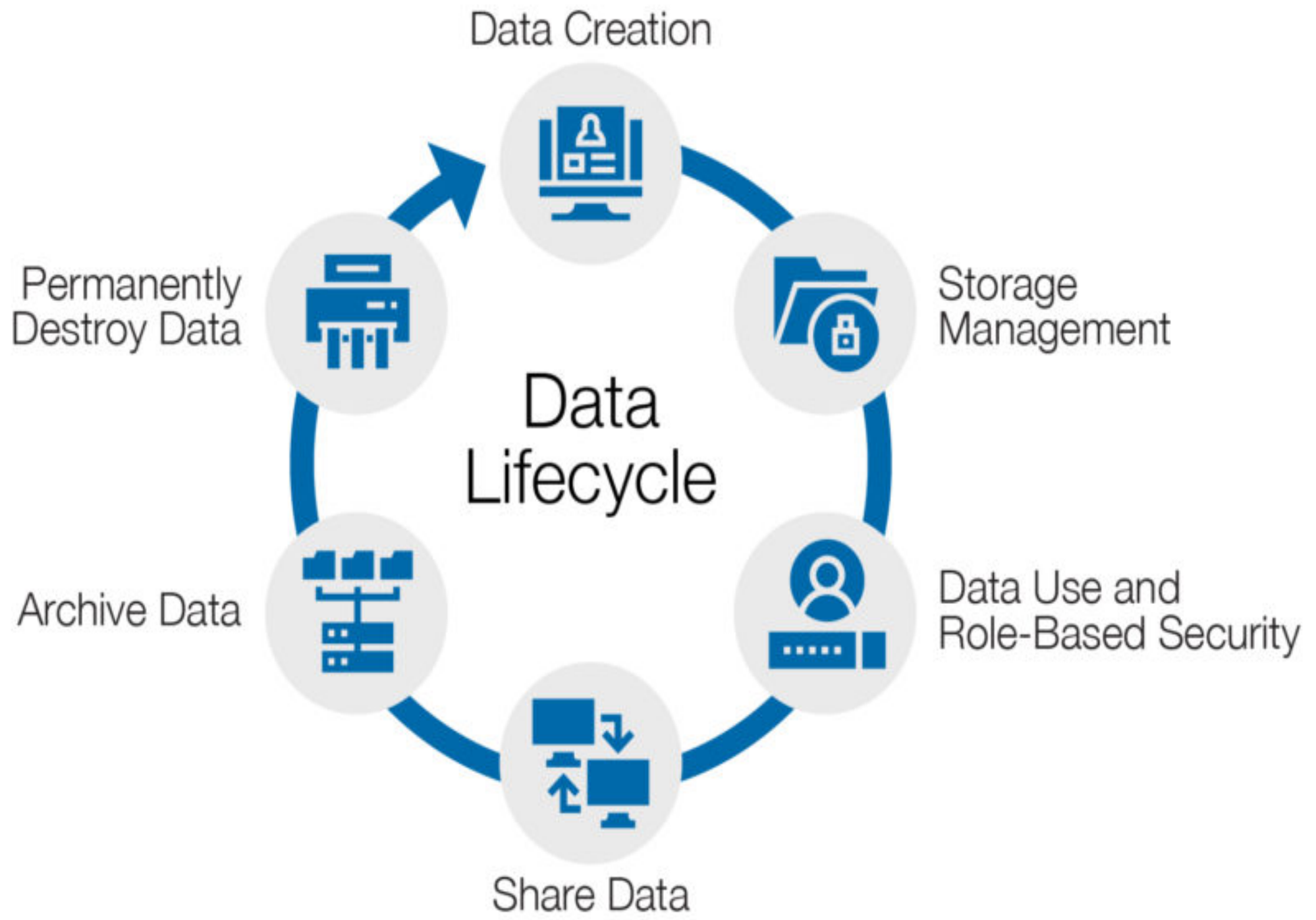
Connect  
face to face



Chat privately with one  
or more people

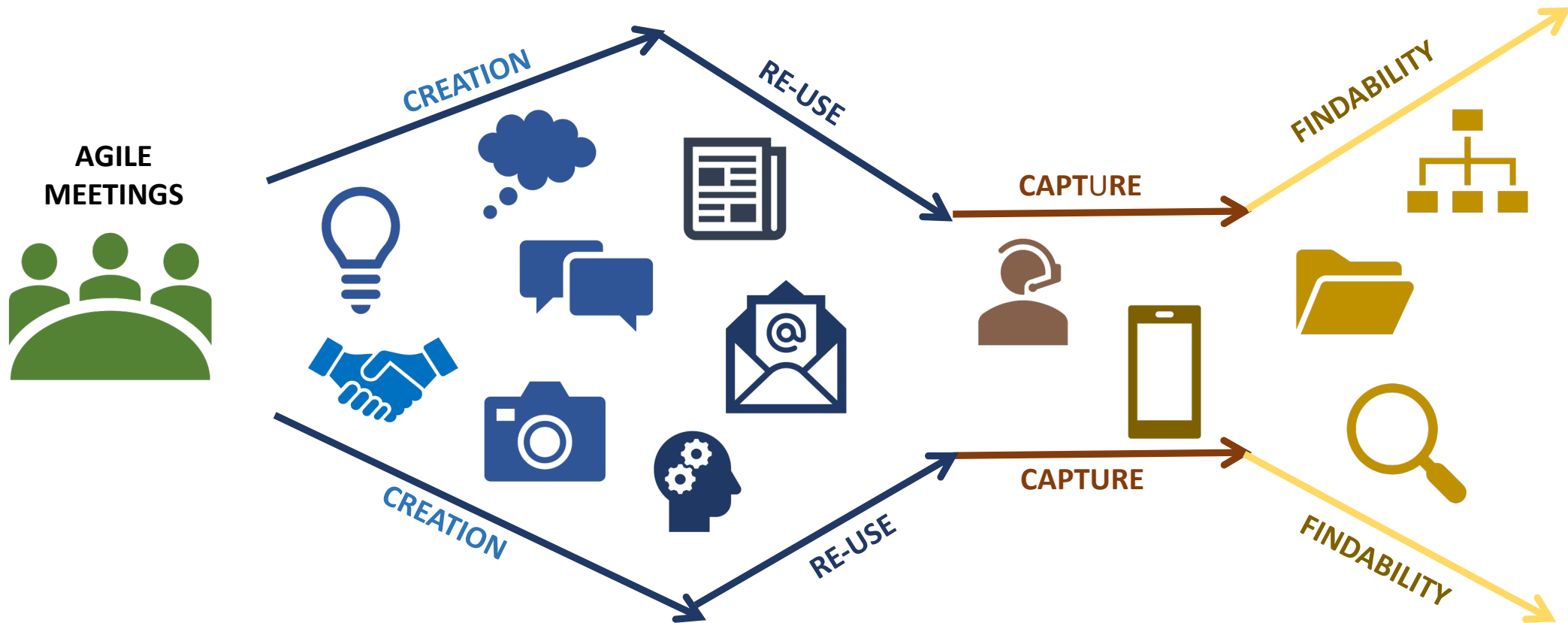






# Agile Knowledge

Creation/ Re-use / Capture / Findability





# Reconciling Knowledge/Data Mgmt. with Agile Project Mgmt. = **Value Multiplied**

Capture valuable lessons learned

Justify and understand decisions

Feedback into process for continuous improvement

Understand why some agile projects did not meet expectations

Improve the knowledge and skills of team, product owner, and scrum master

Capture ideas for future projects

Comply with record management regulations without weighing down the agile project management





# Knowledge Management Community of DC

Washington, DC  
637 members · Public group  
Organized by Tara Mohn and 4 others

Share:

Manage group Create event

About Events Members Photos Discussions More

## What we're about

Welcome to the Knowledge Management Community of DC!  
...

## Organizers

Tara Mohn and 4 others  
[Message](#)

# Thank you!

# Dr. Bill Brantley, PMP, PMI-ACP, CDA

[bill@billbrantley.com](mailto:bill@billbrantley.com)

<https://www.linkedin.com/in/billbrantley/>