



RSM8432 Agile Workshop DRAFT

October 10, 2019

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Topic for this Workshop

- Introduction
- Agile Team
- Working Habits
- Wrap-up



Section 1

Introduction

What You Will Learn

- Describe the benefits of using agile project management framework to complete the course project
- Formulate an approach to work as an effective team to complete the course project
- Create key deliverables and plan sprints to complete the course project

Workshop Rules

- Participate
- Ask questions
- Be present - No devices



Introductions

- Joanna Tivig
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- Peter Monkhouse
 - peter.monkhouse@utoronto.ca



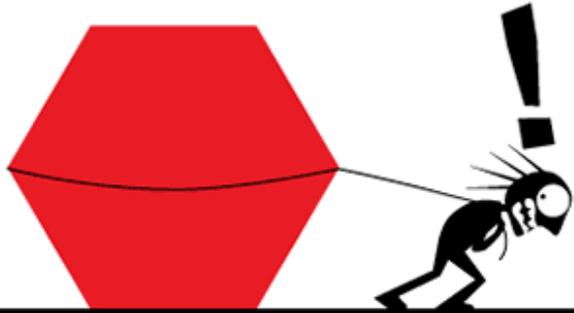
- You
 - What is the first word that comes to your mind when you hear Agile?

Agile Approach – Major Highlights

- Anchor foundational project management principles to discover better ways of doing everything with a growth mindset vs. a fixed mindset
- Think Client/ User first and always invite them to be part of the team; accept the product that is being built for them, with them
- Bring work to the team vs. team to the work; let the team choose the work they prefer to do and take accountability on it
- The goal is high performing organizations through the means of Agile; this will translate into speed, less waste and a delivery culture

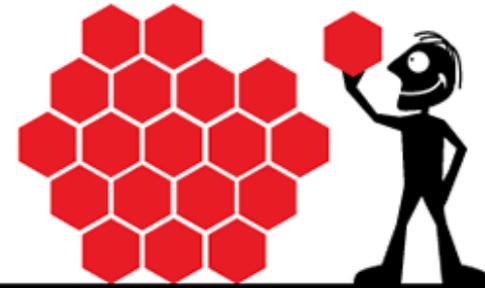
Traditional (Waterfall) vs Adaptive (Agile)

THE WATERFALL PROCESS



*'This project has got so big,
I'm not sure I'll be able to deliver it!'*

THE AGILE PROCESS



*'It's so much better delivering this
project in bite-sized sections'*

Core Characteristics of Agile

- The law of the small team
 - That is what you have
- The law of the customer
 - Focus is to deliver value to the customer
 - If work is not adding value, why is it being done?
 - For your project who is the customer? What value are you delivering to them?
- The law of the network
 - Work collaboratively towards the common goal of delivering value to your customers
 - Let your interactions help you deliver
 - How can you use the network in this course?

Agile Values

- Individuals and interactions over processes and tools
- Working software over comprehensive documentation
- Customer collaboration over contract negotiation
- Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more

What is a Sprint?

A time-boxed work cycle (1-4 weeks) during which a team creates a product increment that is intended to add value to the customer

- Has a defined overall goal that cannot be changed
- Has priorities and commitments
- Has four major events:
 - Sprint Planning
 - Daily Sprint Meeting
 - Sprint Review/ Demo
 - Sprint Retrospective
- Has a potential product increment release, only if agreed by project team and product owner/ customer

Why Work in Sprints?

- Help you start – create commitment to get the work done
- Move you from abstract to concrete – create concrete discussion on one topic at the time
- Keep you focus on what is important – create priority list
- Force crisp decision making – strive for consensus and be transparent about how choices are made
- Encourage fast follow-up – focus on getting things done and get frequent feedback



Benefits of Agile

- How can an agile approach help you complete the course project?
 - Identify three ways agile can help
 - Think about your experience on the Datathon



Section 2

Agile Team

Agile Team

FUNCTIONAL SILOS VS. CROSS-FUNCTIONAL TEAMS

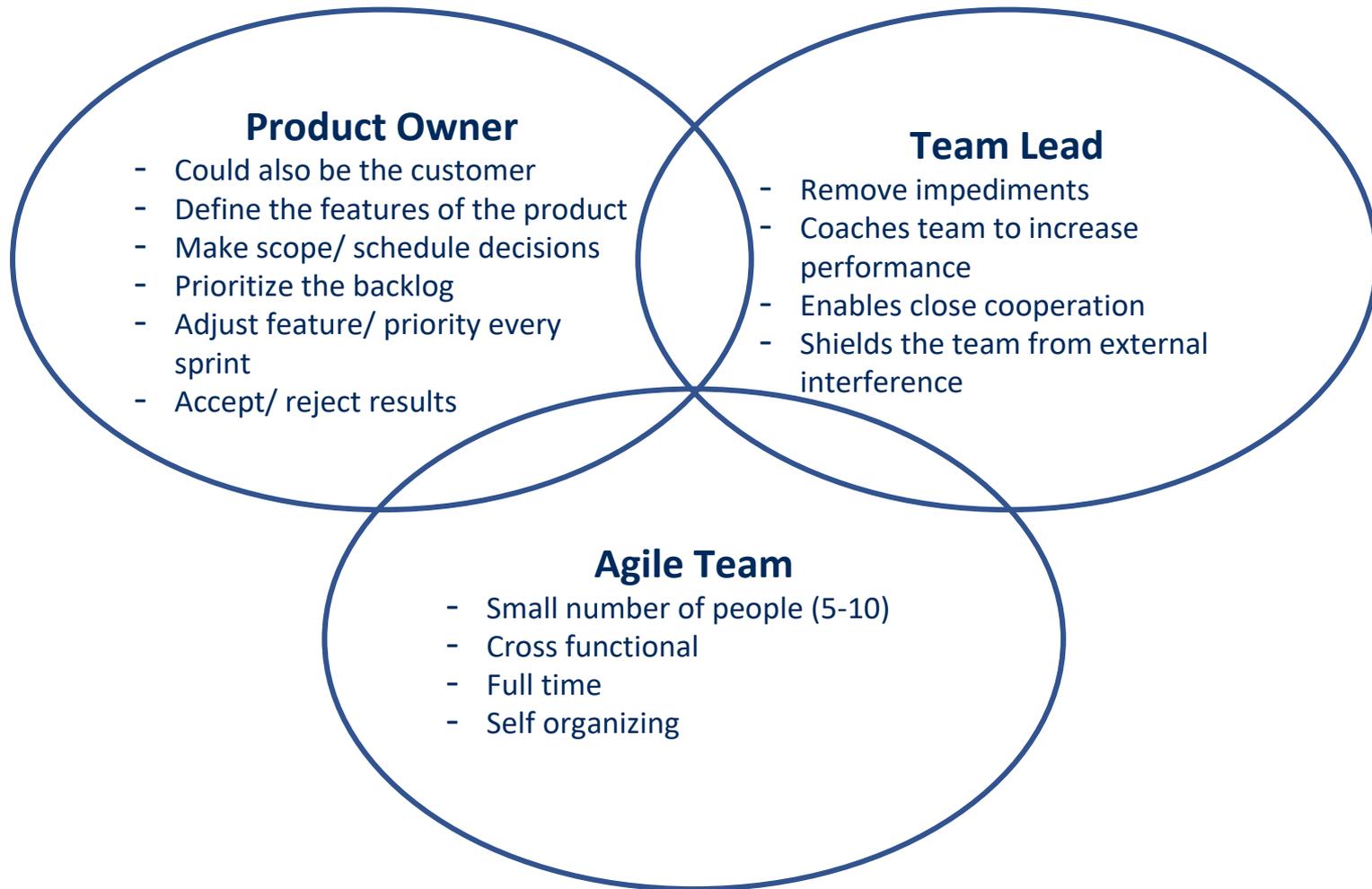
FUNCTIONAL SILOS



CROSS-FUNCTIONAL TEAMS



Agile Roles



If you want to know more about the role of Product Owner: <https://www.youtube.com/watch?v=502ILHjX9EE>

Team Dynamics - Concepts

- Conflict Management
- Emotional Intelligence
- Ethical Behaviour
- Servant Leadership

Team Charter

- How your group will communicate (i.e., use of technology, frequency, emergency contact)
- Meeting guidelines (schedule, roles, and responsibilities)
- Conflict resolution process
- Document management (where documents are stored)
- Team roles (leaders, document submission, etc.)



Sprint 1: Complete Team Charter

- Using the provided template, complete your team charter
- You have 10 minutes

What is a Retrospective?

- It is a mandatory event at the end of each sprint
- Done at the end of a release or at the end of an agile project
- Engage the team to answer questions of what went well in the release and what did not go
 - Use Start-Stop-Continue
- Focus on continuous improvement for process and team
- All team members participate

Retrospective - Best Practices

Do's

- Provide a “safe” environment to ensure active participation and honest feedback
- Attempt to use a different approach in every session
- Do retrospectives around the agile values

Don'ts

- Blame team members or foster a hostile environment in the team
- Allow participants to take over the meeting
- Select too many action items to try and focus on



Sprint 1: Retrospective

- Do a quick Start-Stop-Continue
- You have 5 minutes

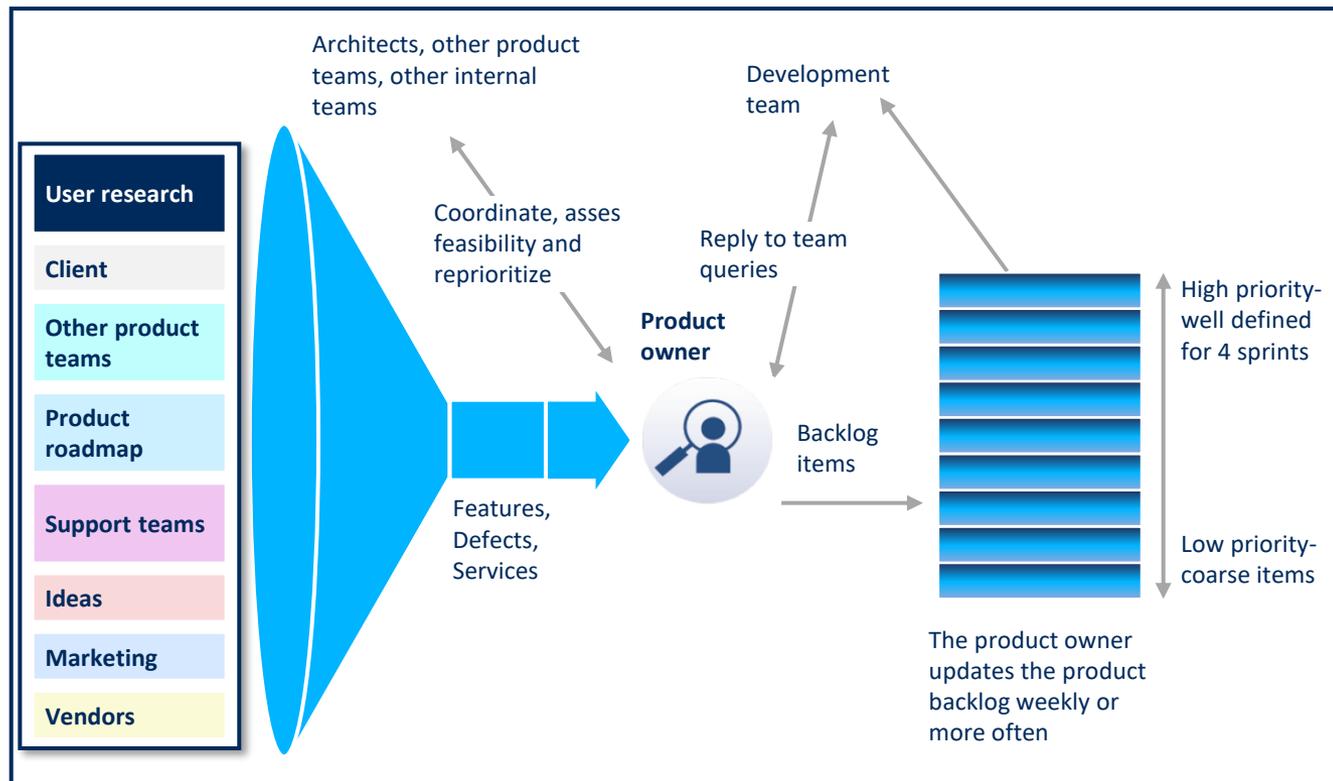


Section 3

Working Habits

What is Product Backlog?

- Every project needs a scope
- Every scope needs to be clearly understood by the team
- Prioritizing the scope is the responsibility of the Product Owner based on feedback from stakeholders, including the team



Product Backlog – Themes and Epics

- Backlog represents themes and epics
- For example, on your Project Proposal
 - Theme: Data sources
 - Epics
 - As a student, I need access to current data sources in order to assess the quality and appropriateness of the data
 - As a student, I need to develop a data model in order to analyze the data
 - As a client, I need to know the data sources in order to arrange for access



Sprint 2: Backlog

- Create a Backlog for your class project
- You are identifying features that are required for your project
- You have 10 minutes

Sprint Planning Worksheet

Backlog	Initial Sprint Plan				
	Sprint 0 – Oct 18	Sprint 1 – Nov 15	Sprint 2 – Dec 15	Sprint 3 – Jan 6	After Sprint 3
	User Story Tasks • • •				
	User Story Tasks • • •				
	User Story Tasks • • •				

Decomposition

- Review the backlog and group related features
- From the group of features create themes and then within the theme create epics
- For each epic, create user stories
- Once you have the user stories, prioritize them
 - Focus on customer value

Decomposition of Work

Level	Theory Example	Class Project
Theme	<ul style="list-style-type: none"> Wish list 	<ul style="list-style-type: none"> <i>Data sources</i>
Epic	<ul style="list-style-type: none"> As a customer, I need to be able to have wish lists so that I can come back to buy products 	<ul style="list-style-type: none"> <i>As a student, I need access to current data sources in order to assess the quality and appropriateness of the data</i>
Stories	<ul style="list-style-type: none"> As a customer, I need to be able to save a product in my wish list so that I can view it again later As a customer, I need to be able to view my wish list so that I can buy items from it 	<ul style="list-style-type: none"> As a student, I need access to the Canadian census data by 3 digit postal code in order to view customer demographics
Tasks	<ul style="list-style-type: none"> Put 'Add to wish list' button on each product page Create new database to store wish list items Create page to display user's wish list Add 'View wish list' link to homepage 	<ul style="list-style-type: none"> Submit request for access to census data Obtain access Test access Extract sample data
Acceptance Criteria	<ul style="list-style-type: none"> Able to save a product to a wish list View products saved on the wish list Purchase products from the wish list 	<ul style="list-style-type: none"> Success access of required data View census data for customer demographics

User Stories - CUTFIT

Example: As a <**Who:** Manager> I need to <**What:** view orders submitted to me> So that <**Why:** I can take action on those very fast>.

- **Consistent:** A consistent requirement does not conflict with another requirement
- **Unambiguous:** The reviewers of a requirement statement should be able to draw only one interpretation of it, regardless of their role
- **Testable:** We should be able to create test cases for a requirement. If a requirement is not testable, trying to determine whether it is correctly implemented is a matter of opinion
- **Feasible:** It must be possible to implement each requirement within the known capabilities and limitations of the system environment
- **Independent:** No “user story” should be dependent on another “user story” with a sprint
- **Traceable:** You should be able to link each requirement to a user and to goals

KANBAN Boards - Trello

Due Date

Rotman Agile Workshop

Backlog

Selected

- Set up Quercus (Due Oct 8)
- Deliver Workshop (Due Oct 10, 1/3)

In Progress

- Practice Run (Due Oct 8)
- Build template for project proposal backlog and user story (Due Oct 6)

Review

- Create exercise (Due Oct 6)
- Suggested submission and evaluation guidelines (Due Oct 4)
- Pre workshop preparation document (Due Oct 4)
- Send Logistics request (Due Oct 4)

Done

- Develop schedule for development of content (Sep 13)
- Build slides - Draft (Sep 22)
- Update Slide deck (Due Oct 6)

Accepted

- Decide on ice breaker/exercise
- Send email to Audbrae
- Review Forbes
- Email Aubrae to confirm compensation
- Agile workshop Framework Development (Sep 11)
- Review slides (Sep 23)

Deliver Workshop

MEMBERS: J, [Avatar]

DUE DATE: Oct 10 at 12:00 PM

Description: Add a more detailed description...

Checklist: 33%
[x] Room-setup
[] Technology working
[] Material printed

Activity: [Avatar]

Tasks

Responsible



Sprint 2: User Story

- Create three user stories using CUTFIT
- Prioritize your user stories into 5 buckets:
 - User stories required for Sprint 0 due October 18
 - User stories required for Sprint 1 due November 15
 - User stories required for Sprint 2 due December 15
 - User stories required for Sprint 3 due January 6 – Detail Proposal
 - User stories required after Sprint 3
- For the user stories in Sprint 1, identify the tasks required to complete the user story
- Document the task, assign the owner, start and completion date. User story number, and any dependencies with other tasks
- Complete the retrospective for this sprint
- You have 20 minutes
- If you have time, input Sprint 1 in Trello and work on Sprint 2

Agile Development Process



At the end of each sprint/ iteration there is a:

- Review or prototype demo
- Reflection on where the team is in completing the deliverables (analyze the speed of work and any remaining items)
- Adjustment or improvement for next sprint/ iteration
- Decision on whether there is a 'shippable product'
- Planning for the next sprint/ iteration

DoD (Definition of Done)

- For you team, what does done mean?
 - Designed
 - Developed
 - Tested
 - Integrated
 - **Accepted**



Section 4

Wrap Up



Reflection

- Plan next activities
 - Review your backlog
 - What should be added
 - What is not required
 - What has to be clarified
 - Update your themes and epics
 - Sprint 0 to complete your Sprint Plan to delivery your Project Proposal on January 6
 - Due October 18

What You Will Learn - Review

- Describe the benefits of using agile project management framework to complete the course project
- Formulate an approach to work as an effective team to complete the course project
- Create key deliverables and plan sprints to complete the course project



Any questions?



Thank You

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Section 5

Appendix

High-performing Teams

Self-organizing	<ul style="list-style-type: none">▪ Team decides how to best organize themselves to meet the goals.
Self-managing	<ul style="list-style-type: none">▪ Every member of the team is responsible for 'managing' the team. They hold each other accountable for practicing agile principles in spirit and action.
Co-located	<ul style="list-style-type: none">▪ Ideally co-located in a single room to shorten feedback loops, reduce communication overheads and foster team spirit.
Cross functional	<ul style="list-style-type: none">▪ Have all skills necessary to go from product backlog to production ready solution.
Well-sized	<ul style="list-style-type: none">▪ 10 +/- 2 team members.
Accountable	<ul style="list-style-type: none">▪ Accountable for delivering features agreed upon at the beginning of every sprint.
Empowered	<ul style="list-style-type: none">▪ Authority to do whatever is needed to meet the commitment.
Focused	<ul style="list-style-type: none">▪ Members should be dedicated or at least not spread too thin.
Fixed	<ul style="list-style-type: none">▪ While in a sprint: team structure and sprint scope does not change.