Julie VanWiel
Merging onto the Agile Highway – Overcoming Speed Bumps to Become an Agile Enterprise
Background

Julie VanWiel, DuPont IT Agile Scrum Leader

- Quality Assurance Analyst
- Requirements Analyst
- Scrum Master
- Delivery Lead
Telling the real story, dents and all
Session objectives

• Identify steps you can take to start your agile transformation
• Develop a maturity model to drive your transformation
• Learn activities you can use in your agile trainings
• Align pilot projects to your maturity model
• Discover how Agile can be applied to non-software projects
DuPont: A history of innovation

Water
- Filmtec™
- Taptec™
- Amberlite™

Shelter
- Tyvek®
- Styrofoam™
- Great Stuff™
- Corian® Design

Safety
- Kevlar®
- Nomex®
- Tyvek®
- Typar®
Safety first & risk averse
Missing parts
Before putting your car in gear

Steps you can take to start your agile transformation:

• Assess readiness
• Understand organization structure
• Uncover processes & pains
• Plan your journey
• Identify sponsors
• Build your team
Planning the journey

Scale Level

Pilot

Train

Assess
Maturity matrix

<table>
<thead>
<tr>
<th>Four Levels</th>
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<tbody>
<tr>
<td>0 = Waterfall</td>
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<tr>
<td>1 = Scrum ceremonies</td>
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<tr>
<td>2 = All SDLC phases within a sprint, dedicated roles</td>
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<td>3 = Continuous improvement</td>
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Setting the pace
Pilot projects

Set a goal

- Match the targeted maturity-model level

Establish entry criteria

- What are the necessary roles?
- What are the processes that will be followed?
- What are the tools that will be used?

Measurement

- Conduct a survey
  - How satisfied are you with speed?
  - How satisfied are you with quality?
Maintenance required

Flat tire?
Unexpected detour?

Follow your agile values and principles:
• Fail fast
• Conduct a retro
• Learn from your mistakes
• Adapt and change
Activity #1

Paper Airplane Production Line

Instructions:

• No communication
• Each person is allowed to make one fold
• The plane is finished when a person making a fold says that the plane is finished
Activity #2

Minimum Viable Product (MVP)

Instructions:

• As a team, using one post-it note per task, write down each task you complete in the morning before going to work.
• Tasks should include everything you do from the moment your alarm goes off until you open the door to leave.
• Write on the post-it note how much time it takes to complete the task.
• Put the tasks in sequential order; in a horizontal line on a white board.
• Draw a line above the line of post-it notes.
Activity #2

Minimum Viable Product (MVP)

Instructions:

• Scenario:
• You woke up late and only have 15 minutes to get out of the door.
• As a team, agree on the items you will complete (put above the line) in order to get out the door in 15 minutes.

Congratulations, you have an MVP!
Activity #3

Sizing Features

Instructions:

• Identify a project
• Write all the project features on separate post-it notes
• Put five columns on a white board (XS, S, M, L, XL)
• Have team members take turns putting features in a column and have them explain their rationale for the column they put the feature in
• When all features are on the board, have the team work together to put the features in columns until they all agree on placement
Agile for non-software projects

- Time boxing and defining work objectives
- Defining, prioritizing and committing to critical tasks
- Partnering with customers and stakeholders to get feedback
- Pivoting based on learnings or changes
- Increasing frequency and focus of communication
- Clear definition of roles and responsibilities for ownership
Current state

- Defining our DevOps model
- Redefining solution delivery structure and staffing
- Defining our QA Organization
- Working toward Agile Maturity Level 1 – January 1, 2020
- Preparing to pilot Agile Maturity Level 2
- Aligning Agile coaches with solution delivery organizations
- And, more!
Reaching our final destination
Thank you!