

Working BDD in an Agile Environment



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Overview



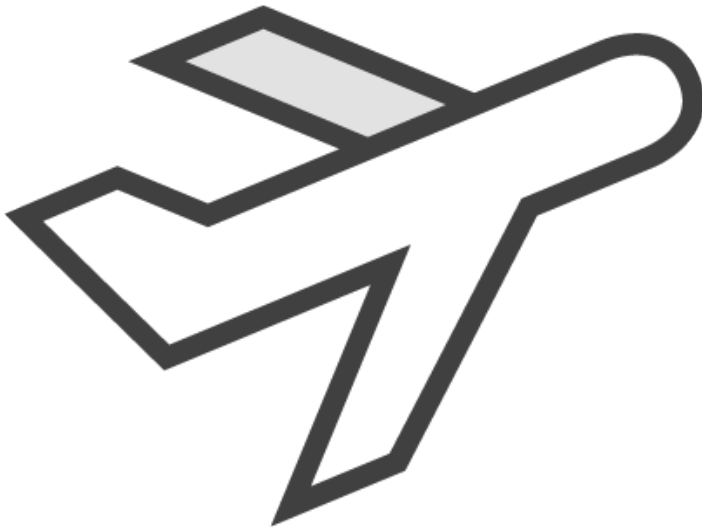
Simulate the BDD work in an Agile environment

Simulate the Agile workflow

Transpose the user stories into code working BDD with Cucumber



New Feature Agile Style



As a company

I want to build statistics about the flights

**So that I have information about the
passengers and the distances they travel**



User Story 1 - Scenario 1

Given there is a usual passenger

And there is a VIP passenger

When the usual passenger travels distances
<distance1> and <distance2> and
<distance3>

And the VIP passenger travels distances
<distance4> and <distance5> and
<distance6>

Then the total travel distance should
be <total_distance>



User Story 2 - Scenario 2

Given there is a usual passenger

And there is a VIP passenger

When the usual passenger travels distances
<distance1> and <distance2> and
<distance3> and <distance4>

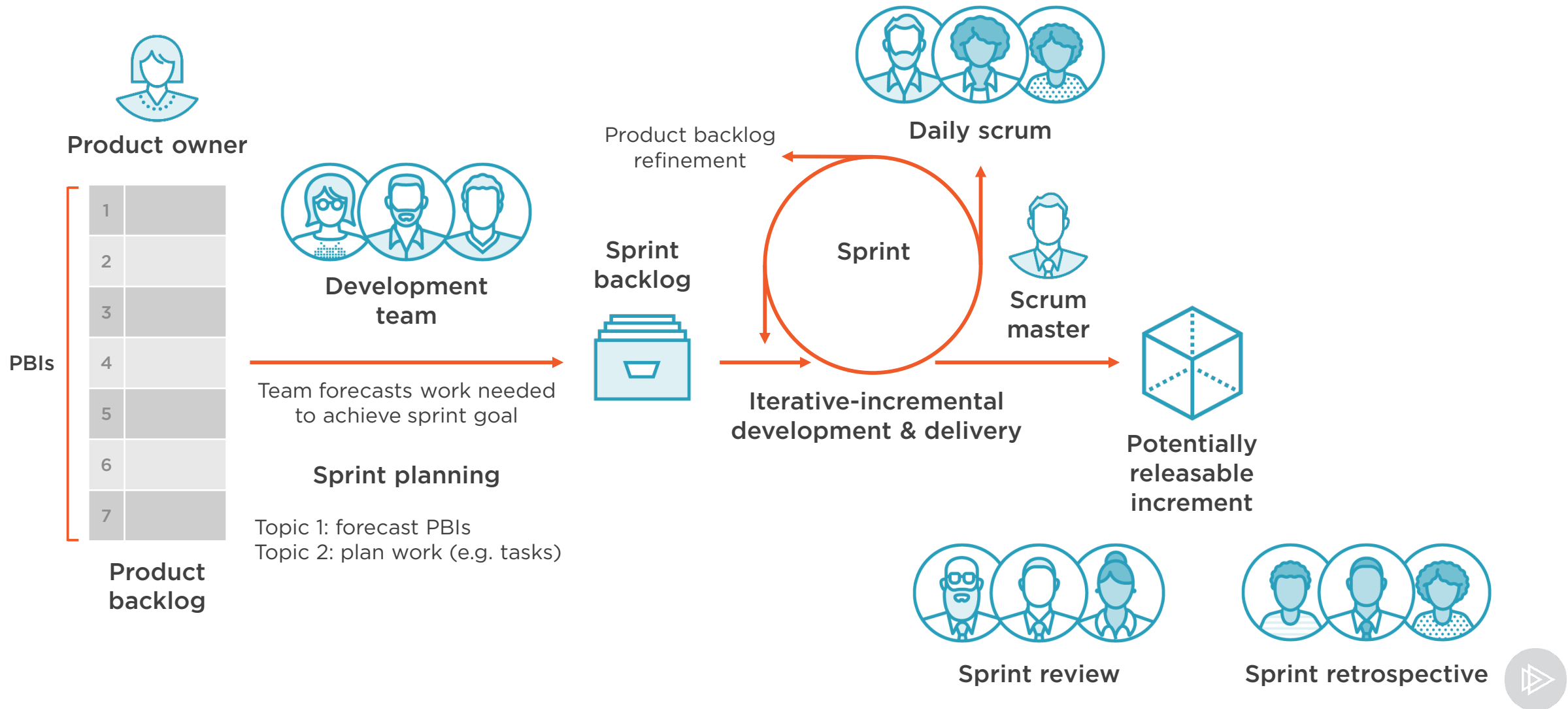
And the VIP passenger travels distances
<distance5> and <distance6>

Then the minimum travel distance should
be <minimum_distance>

And the maximum travel distance should
be <maximum_distance>



Scrum Workflow



How to Estimate Using Story Points?

Amount of work

Complexity

Risk/uncertainty



User Story Estimations

User Story 1

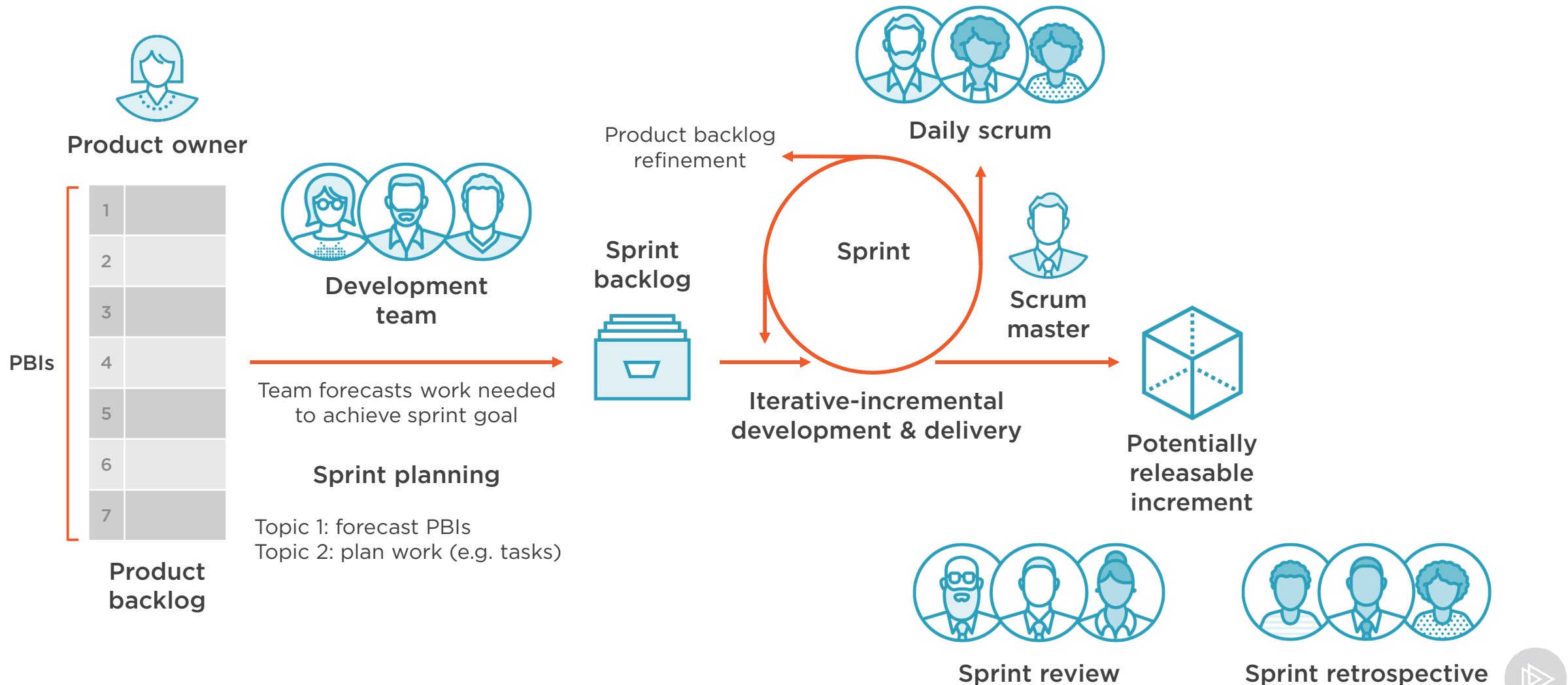
User Story 2



The Sprint, Day by Day



Sprint Day 1



Demo



Flights management application

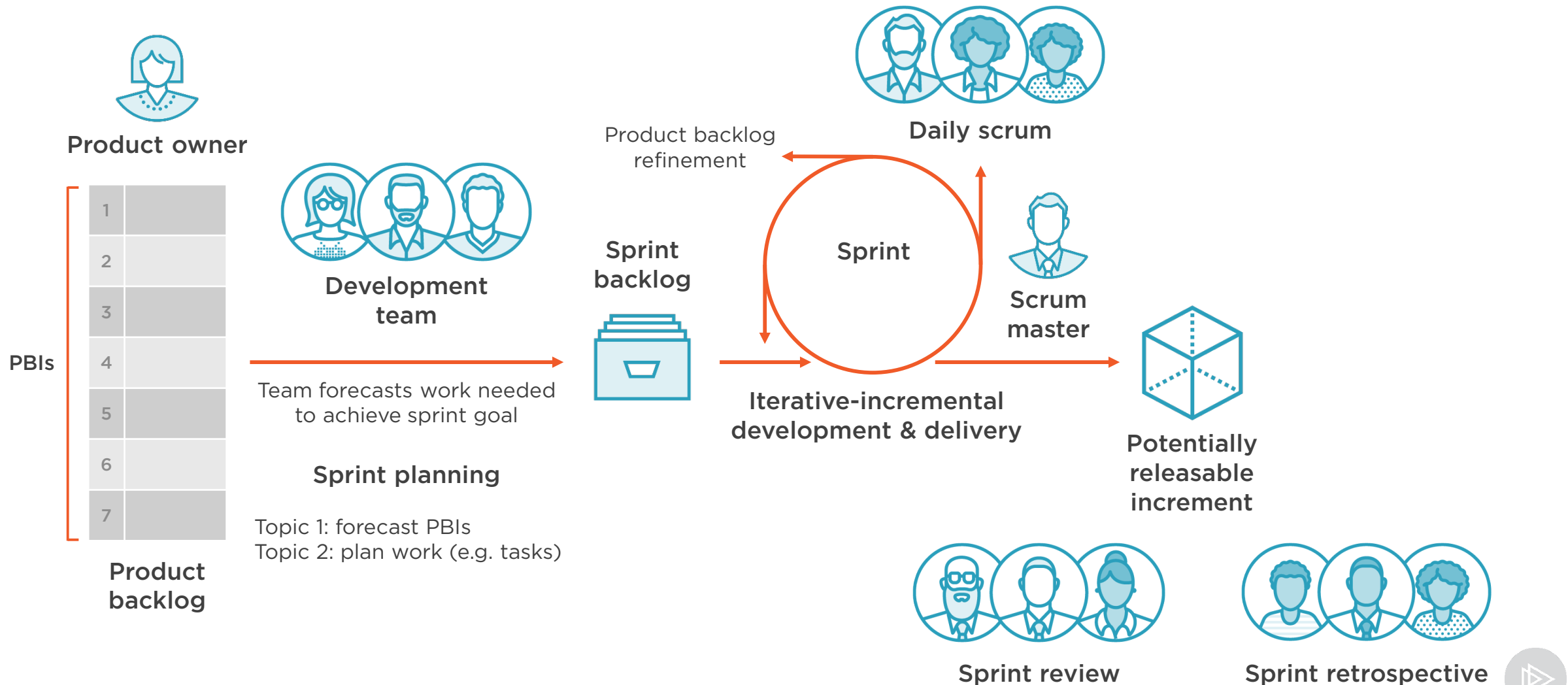
Continue the work on the previous
Cucumber version

Define the statistics scenario of
calculating the total distances

Write the Cucumber tests that describe
the scenario



Sprint Day 2



Demo



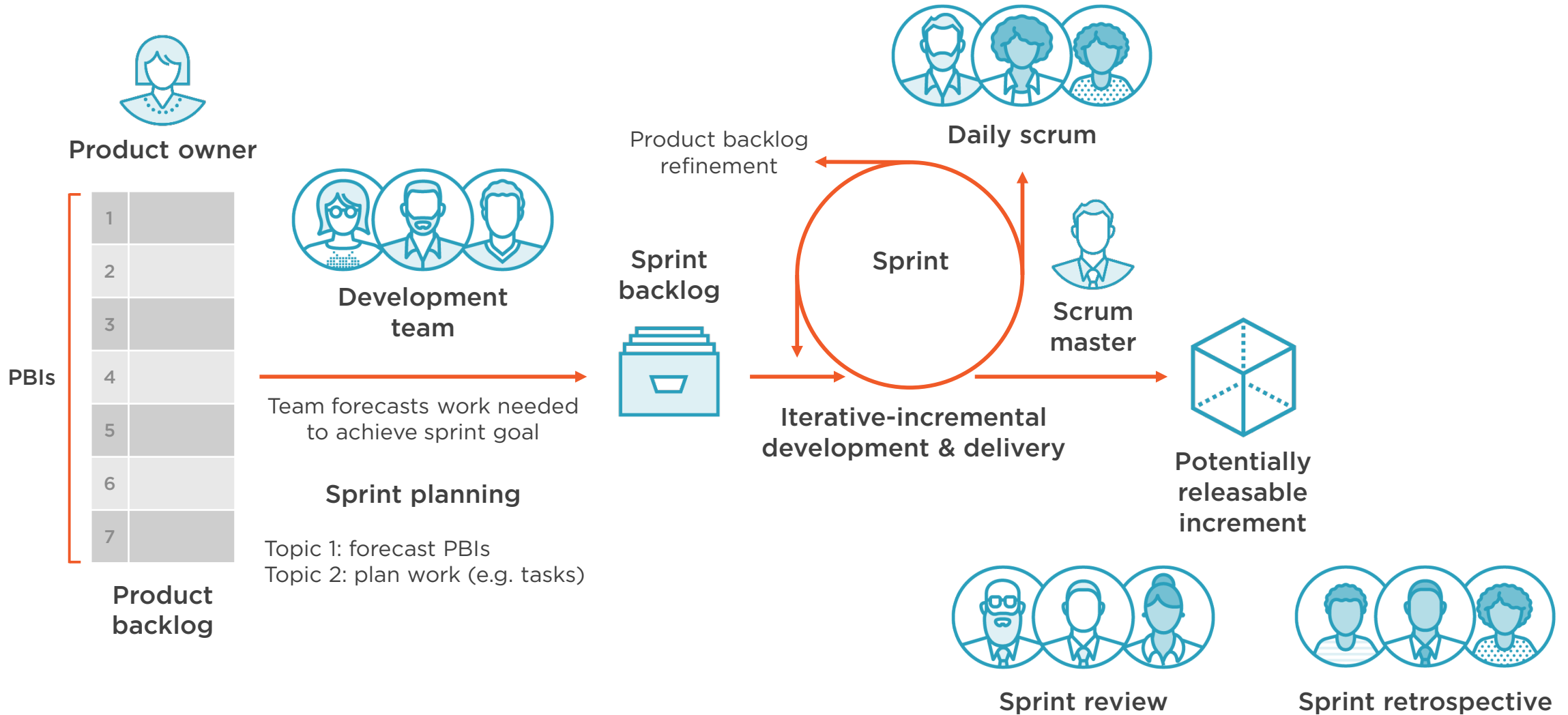
Work on the effective implementation of the feature functionality

Make sure the implemented code will fix the previously defined scenario

Measure the code coverage



Sprint Day 3



Demo



Write the Cucumber tests that describe the minimum and maximum distances scenario

Implement the code that will fix the previously defined scenario

Measure the code coverage



Summary



Implemented 2 user stories working BDD in an Agile environment

Estimated the user stories

Daily activities of the developer

- BDD style work on the user stories
- Daily Scrums

Focus on BDD and Agile processes



Conclusions and Related Courses



Course Summary



Origins in Test Driven Development

BDD advantages and shortcomings

Cucumber and JBehave

BDD in an Agile environment



Related Courses

“JUnit 5 Fundamentals” by Esteban Herrera

“TDD with JUnit 5” by Cătălin Tudose

