Mendix Application Test Suite

Expert Webinar - September 30 - 2016

Clyde Waal *- Expert Services Consultant*
Eduard de Bruijn *- Solution Consultant*

Agenda

- Introduction to ATS
- Demo ATS
- Adopting ATS
- Roadmap
- Q&A

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Introduction to ATS

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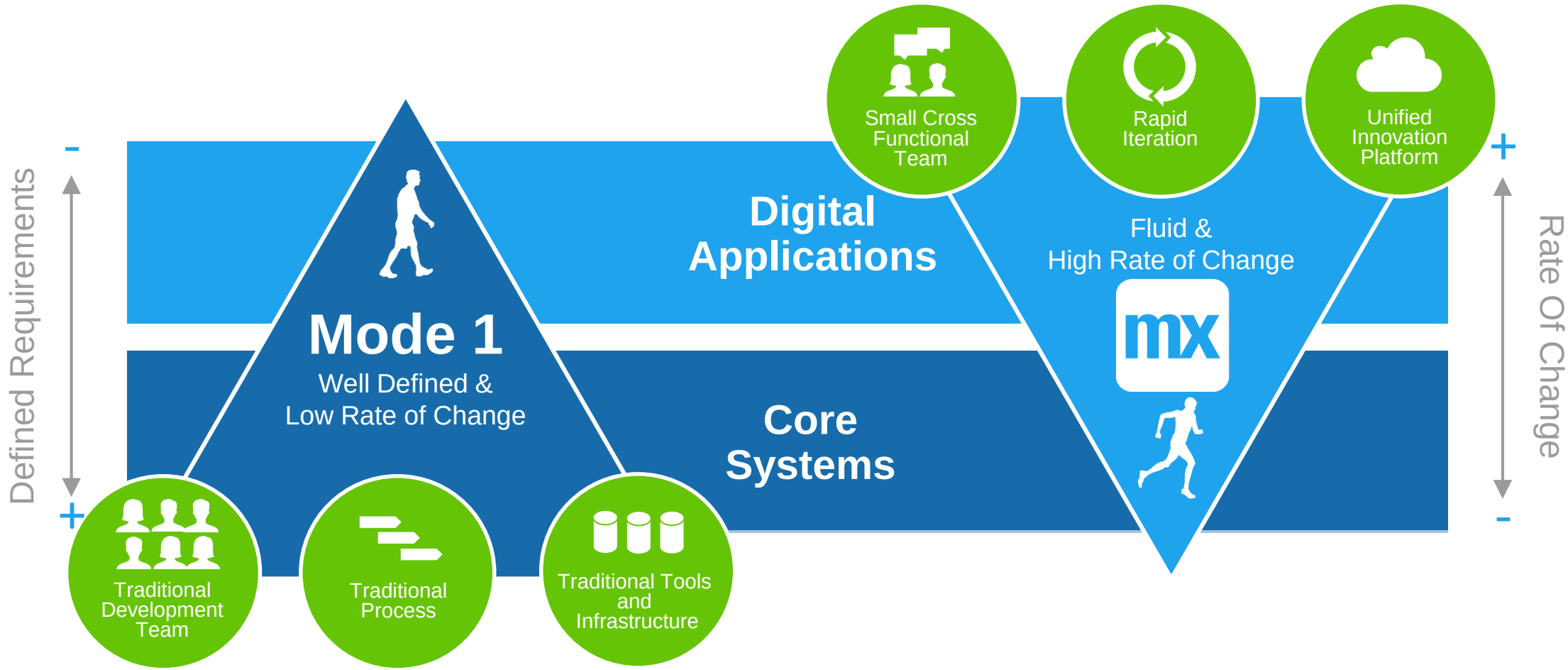
Mendix Provides the Fast Track for Digital Innovation



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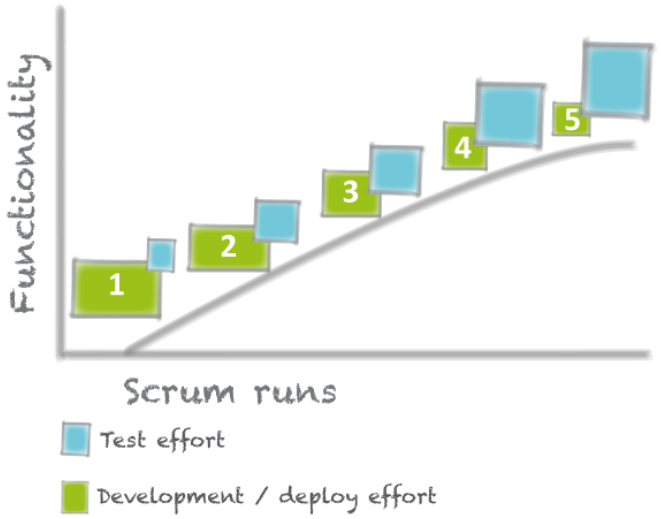
Testing in Mode 2

- QA critical success factor in Mode 2
  - Make quality an integral part of the development process
  - Minimize regressions
  - Provide feedback to developers as quickly as possible
  - Maximize efficiency
- This requires a test & performance management framework that is fully embedded in the ALM cycle
  - Simple, easy to use and highly automated
  - Fitted for small cross-functional teams (DIY, Do It Yourself)
  - Boosts the DevOps experience

The challenge of keeping test and development efforts in balance



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MANSYSTEMS

Mendix Application Test Suite

- A cloud service offered by Mendix in partnership with Mansystems to automate functional testing of Mendix applications.
- Built as add-on to Selenium (in Mendix):
  - Cross-browser functional testing based on keywords
  - Recording of test scenarios
  - Supports scheduling and parallel testing
  - Seamless compatibility with Mendix platform version

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MANSYSTEMS

Key Benefits

- Reduce cost & effort of testing
  - Less effort spent on testing thanks to automation
  - Less rework for developers thanks to testing early-on in the project
  - Less incidents / tickets after go-live
- Contributes to shorter Time to Market
- Contributes to ‘First Time Right’ delivery
- Leads to higher customer satisfaction

Demo

Adopting ATS in the enterprise

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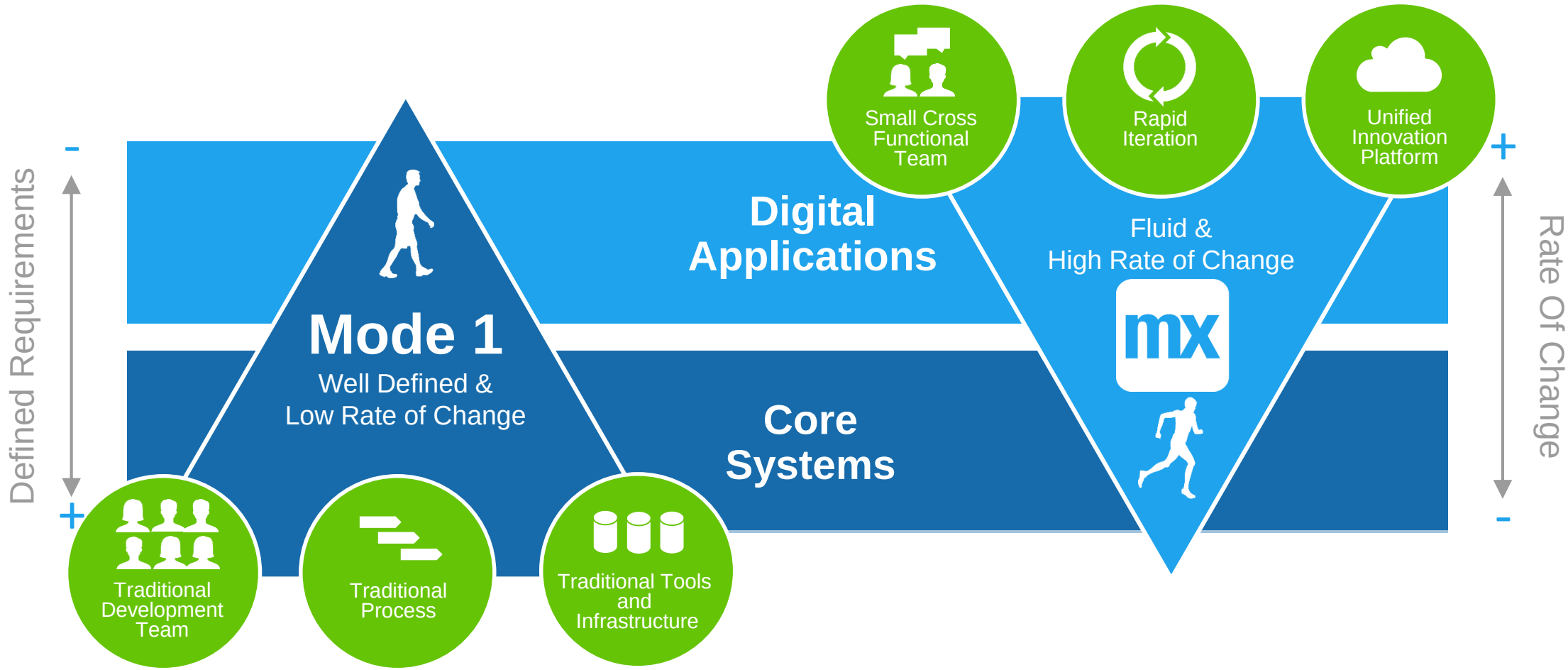
Mendix Provides the Fast Track for Digital Innovation



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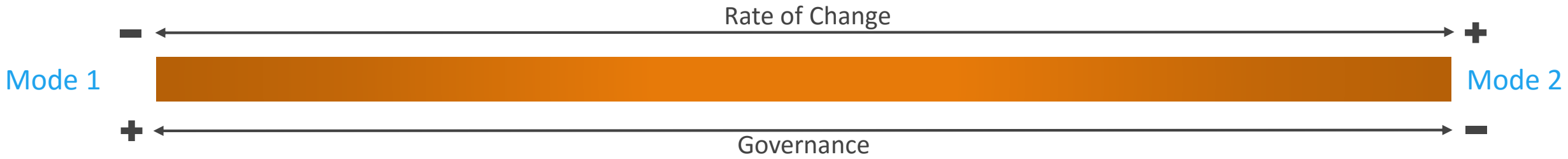
Preserving agility when adopting ATS



Mode 1 - Traditional:

- Emphasizing safety & accuracy
- Quality safeguarded by formal testing process
- Traditional testing stages (V-model)
- Developers & testers not in same team

Key success factor: well-implemented process

Mode 2 - Innovation:

- Emphasizing agility & speed
- Quality safeguarded by **active product owner**
- Development & testing done simultaneously
- Developers & testers in same (Scrum) team

Key success factor: effective day-to-day product ownership

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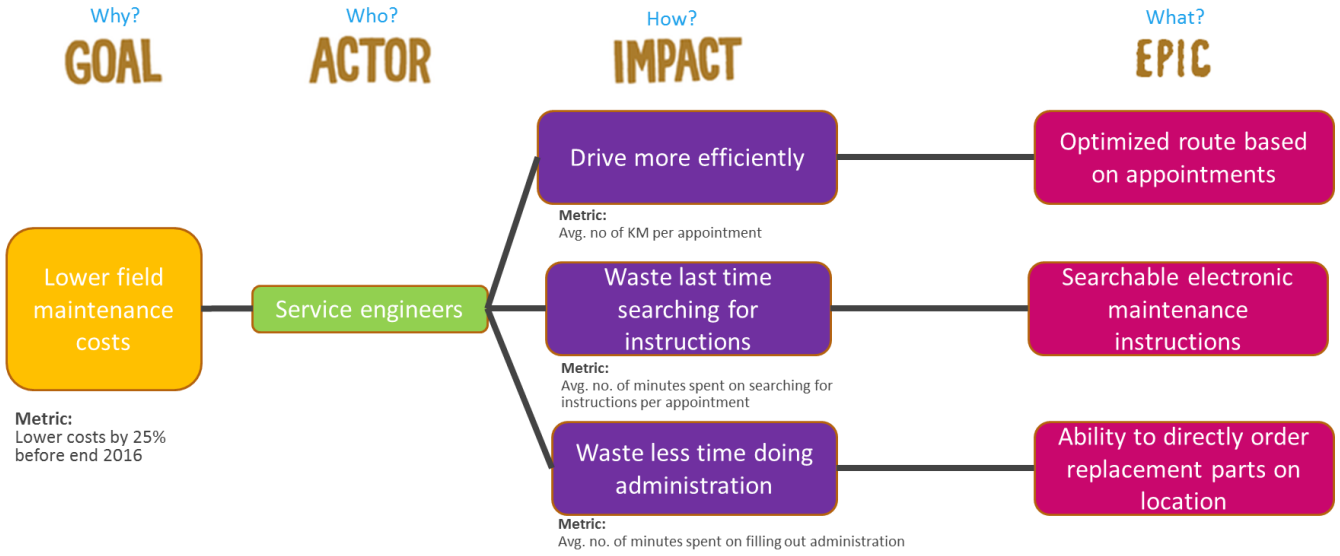
Although ATS supports both modes, you need the appropriate governance to achieve full benefits

Effective agile product ownership

- Takes active responsibility for testing based on business goals
  - Is in close dialogue with business stakeholder that has a stake in app quality
- Uses agile requirements and specification practices
  - E.g. impact mapping, specification-by-example

Impact mapping:

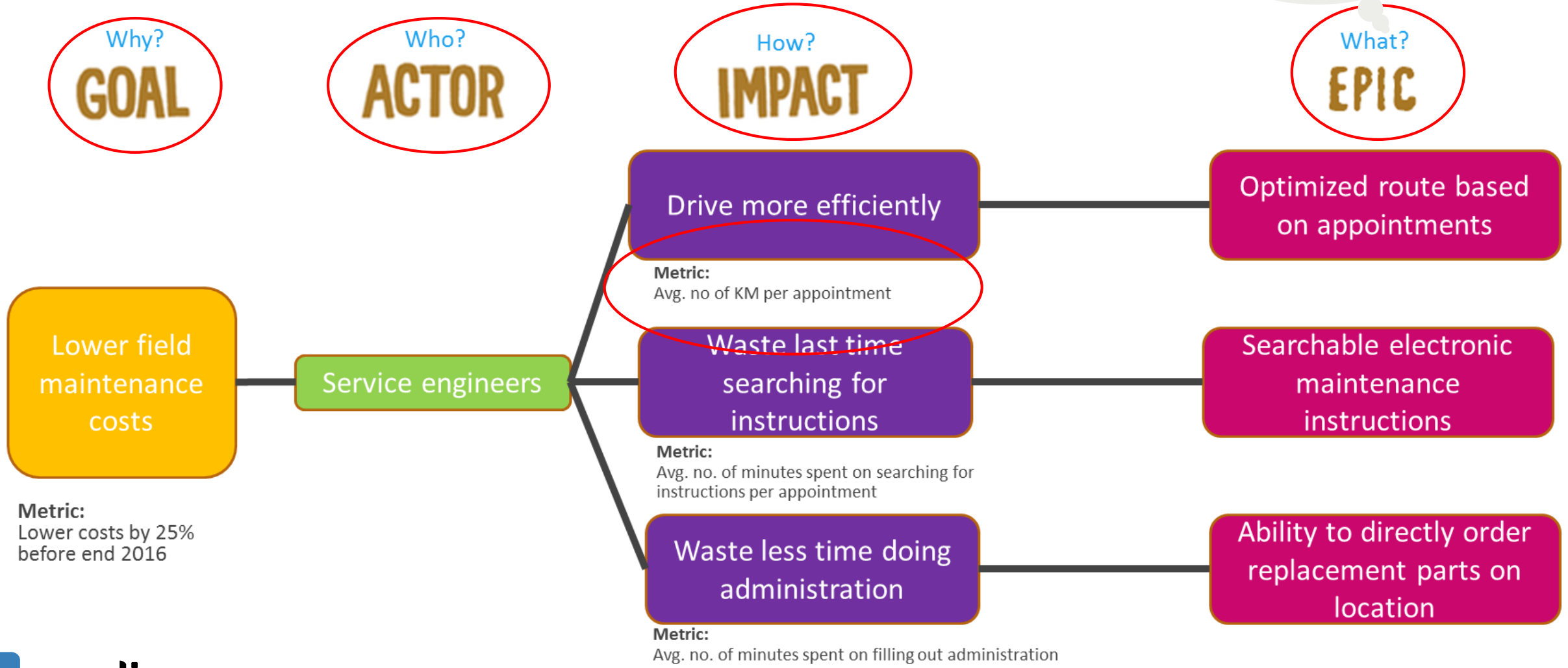


Specification-by-example:

Given (precondition)	field service engineer is viewing the list of scheduled service locations
When (actor+action)	field service engineer clicks on one of the service locations
Then (observable result)	field service engineer will be able to see the service location on a map

Example Impact map

Broken up into user stories



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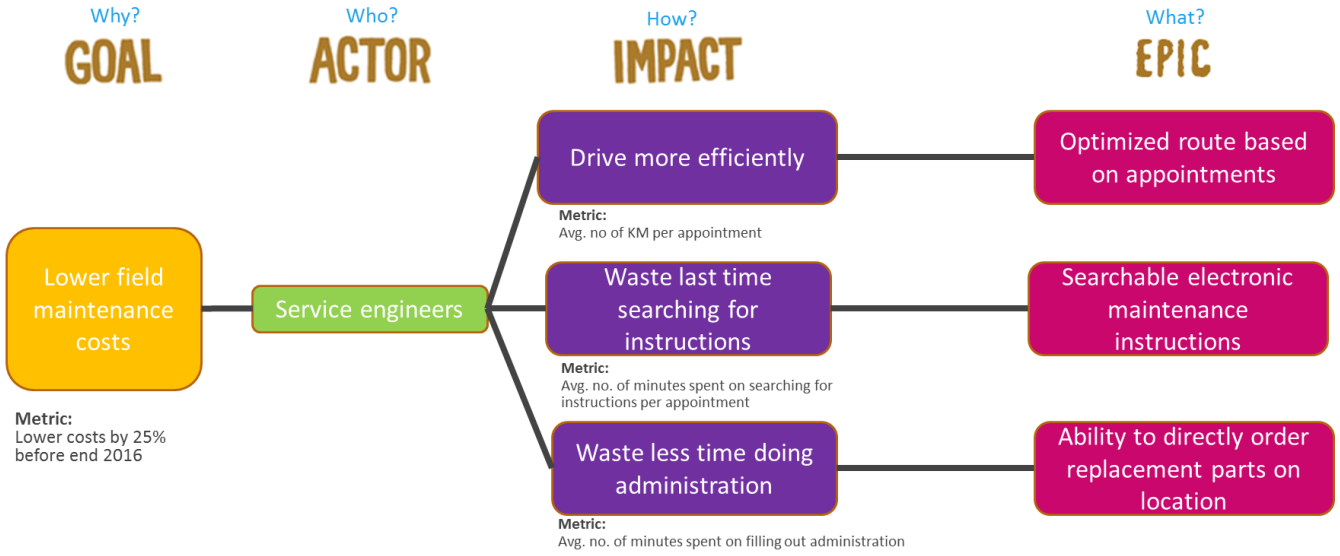

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Example Specification

User story:

As a field service engineer I want to view my scheduled service locations on a map

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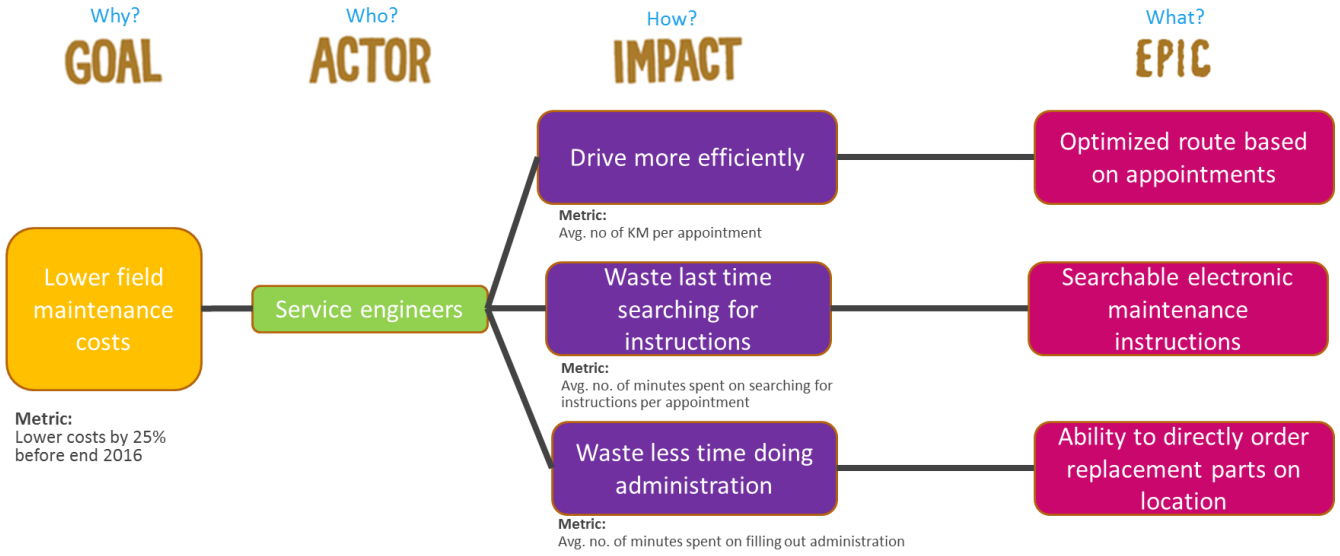

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Getting started with testing your app

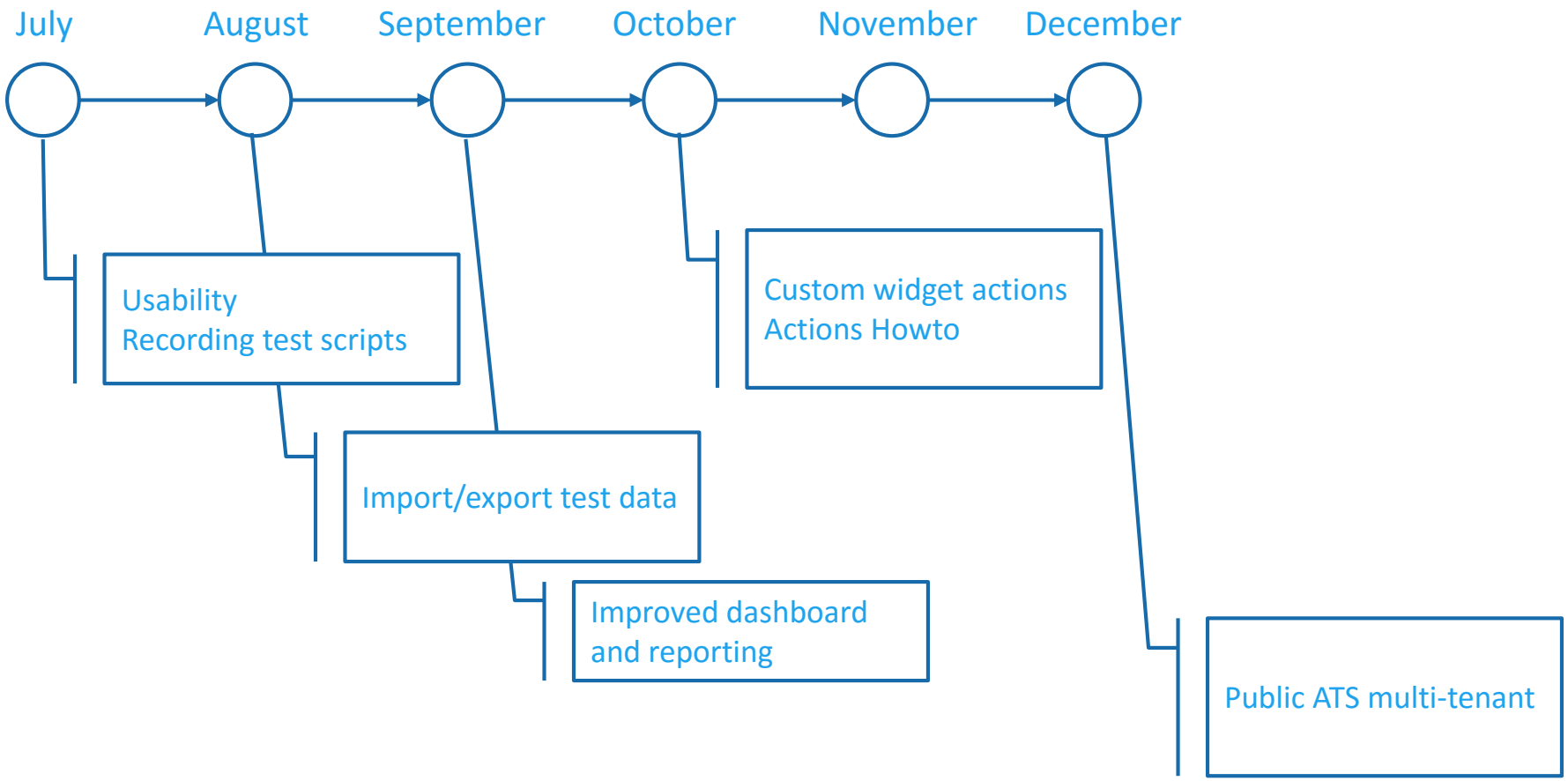
1. Define main functional flow
2. For this flow, create a test script
3. Duplicate this test script for re-use
4. Modify these duplications, as needed, by:
    1. Inserting new steps in these duplications
    2. Modify test data used in these duplications
5. Execute test scripts
6. Examine failed test scripts

Organizing your team for testing

SCRUM role	Testing responsibilities
Scrum Master	• Ensure registration of the project in ATS • ATS account management
Product Owner	• Define hierarchy for test scripts • Examine test outcomes with business • Schedule automatic execution of test scripts for regression purposes
Team member (junior)	• Define individual test scripts • Manual test execution • Evaluate test results and report to product owner
Team member (senior)	• All responsibilities of a junior member defined above • Create actions for custom widgets

Roadmap

ATS roadmap



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Thank You