Slide 1

March 9, 2016

Testing Role in an Agile World

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Slide 2

Welcome!

JP Beaudry

<u>Vistaprint</u>

    Head of Lean/Agile

<u>Cisco</u>

    Engineering Manager
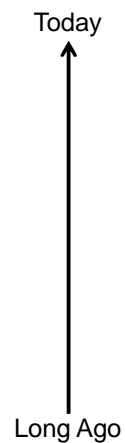
    Software Engineer

<u>Nortel/BayNetworks</u>

    QA engineer

<u>NEC/Eicon</u>

    System Integrator

Today

Long Ago

What We Will Cover Today

- QA Involvement
- QA in an Agile World
- QA Role in an Agile Process
- Wrap-up

A collaboration by Mario Moreira and JP Beaudry

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Your Role

❏ Mature Agile Environment – Contribute

❏ Agile Aspirations – Challenge

❏ Agile Education – Clarify

Maximize your return on your time investment

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Where is QA Involved?

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Everywhere!

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Early and Often

- **QA people need to be scheduled throughout the project, not just toward the end**

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Quality is embraced at the Beginning

- **Quality includes verification all along the way**
- **Quality is more than just "defects"**
- **Much more focus on building the right thing**
  - aka, validation along verification

Build it Right
Build the Right Thing

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QA in an Agile World

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QA is part of the Agile Team

- **Agile Team**
  - Cross functional
  - Scrum Master, Product Owner, Development Team
  - <u>QA is part</u> of the Development team
- **100% dedicated**

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On a Scrum Team, what is a good ratio
of developers to tester? Why?

Pair up to discuss

1:2?   1:5?

1:9?

1:4?   2:1?

1:3?   1:1?

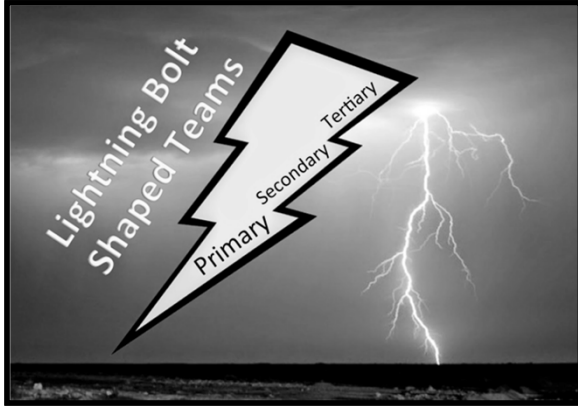# QA as part of the Agile Team

- **Developers and QA engineers volunteer for each user story**
- **Collaborate with each other**
  o No more "over the wall" mentality
  o No more "I can't test until the whole spec is ready"

QA augments the Agile Team

- **QA role expands to help others**
  - Developer
  - Tech writing
  - Config Mgmt
  - Product Owner

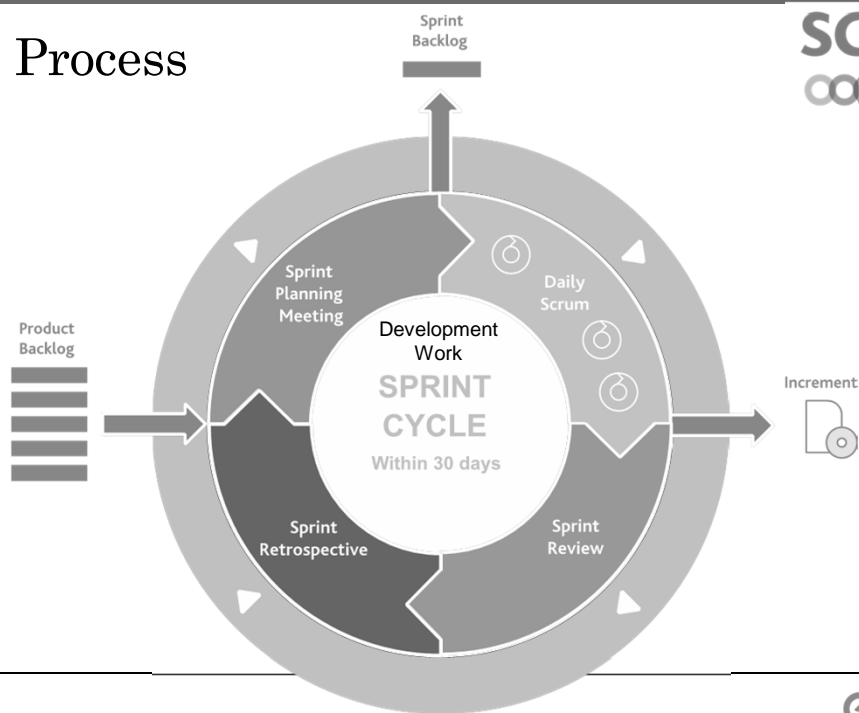13   Agile - Testing Role in an Agile World   emergn

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What other tasks beyond QA tasks can a QA person handle?

- Simple scripting tasks
- Technical writing
- Helping POs with acceptance criteria writing
- Other?

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QA – Part of the Everyday Process

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Scrum Process

SCRUM

Value, Flow, Quality ®

Sprint
Backlog

Sprint
Planning
Meeting

Daily
Scrum

Product
Backlog

Development
Work

SPRINT
CYCLE

Within 30 days

Increment

Sprint
Retrospective

Sprint
Review

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Before The Action Starts:
Agile Release Planning

- **QA Visioning should occur during Sprint 0**
    - o QA process direction, QA technical direction
- **QA must be involved in Agile Release Planning**
    - o Intense session to get a big view of the work ahead
- **QA involved in scrubbing stories**
    - o Agile Team scrubs the Product backlog to gain an understanding of the work and provide a level of confidence and feasibility
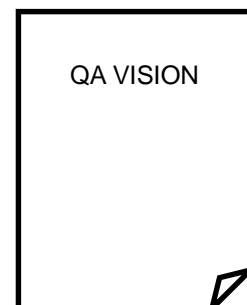
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Document a QA Vision for the next 6 months. Include:

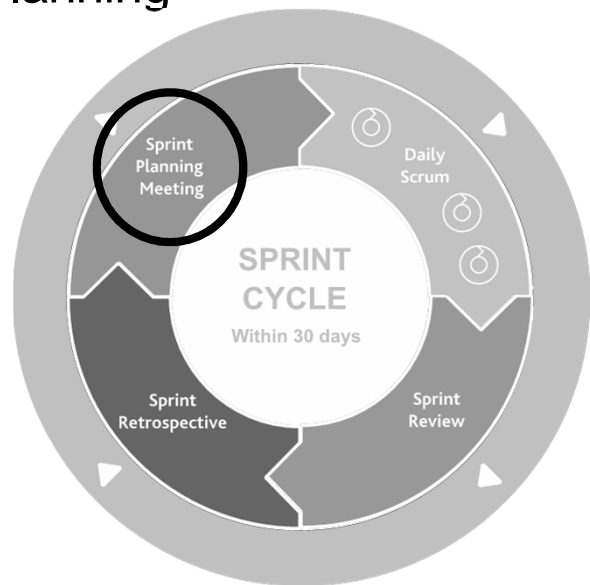- Technical direction
- Process direction
- Improvement opportunities

QA VISION

Be prepared to share

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Sprint Planning

- **A collaborative team meeting at the beginning of each sprint**
- **Establish sprint goal(s) and understand, prioritize, and size stories**
- **Outcome is Sprint Backlog of work**
- **Team self-organizes around work**
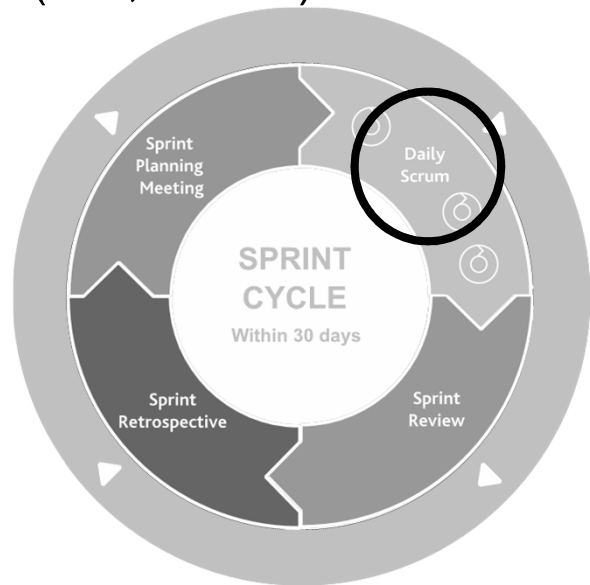 - QA volunteers for testing user stories (pairs with developer)

Sprint Planning Meeting

Daily Scrum

SPRINT CYCLE
Within 30 days

Sprint Review

Sprint Retrospective

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Document Acceptance Criteria for the following User Story

<As a consumer, I want to login to my account,
in order to learn my account balance>

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Daily Stand-up (aka, Scrum)

- **Short session (10-15 minutes) held every day**

- **Participants include: ScrumMaster and Team**
  - QA participates

- **Every team member should answer 3 questions**
  - What did you do yesterday?
  - What will you do today?
  - Do you have any impediments?

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Participate in the Daily Stand-up

By table:

What did you do yesterday?
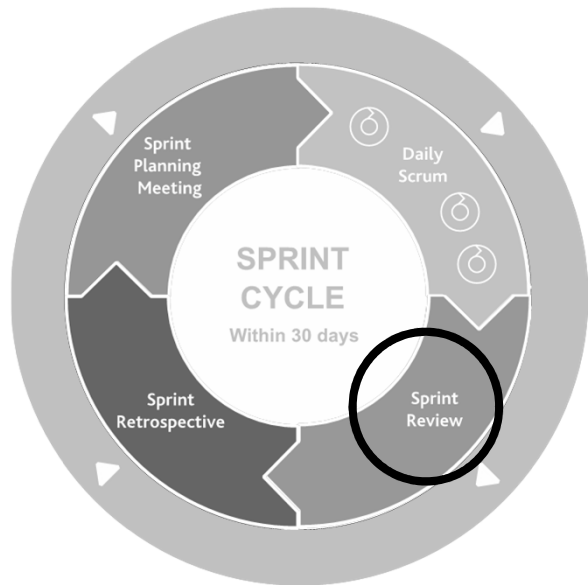
What will you do today?

Do you have any impediments?

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Sprint Review

- **Demo of new features or underlying architecture**
- **Team "demos" what it accomplished during the sprint**
  o Target audience is Product Owner and customers (as available)
  o No software should be shown to the Product Owner that is not "done"
- **Gather feedback on demonstrated features**
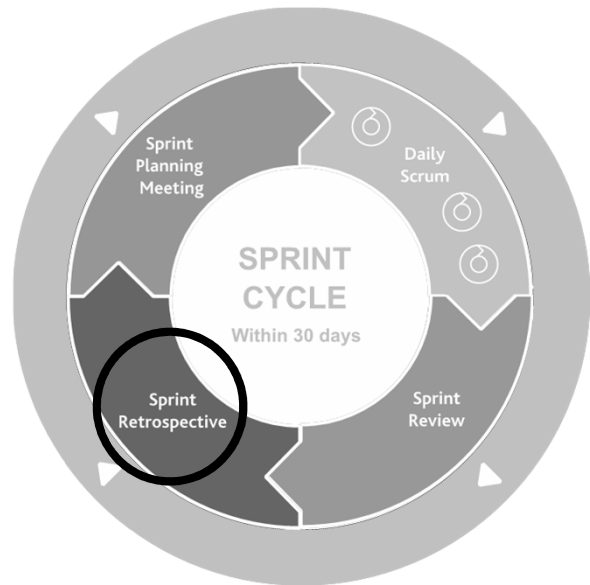- **Validate readiness for release**

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Demo the Story

<As a consumer, I want to login to my account,
in order to learn my account balance>

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Retrospective

- **A private team session to determine:**
  - What went well
  - What can be improved
- **A continuous process improvement loop**
- **Select one or two high value priority items from "improvement" list**

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Contribute to the Sprint Retrospective

Basic practice:

- What went well in this session?

- What would you like to hear more about?

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Wrap-up

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Summarizing

- QA Involvement
- QA in an Agile World
- QA Role in an Agile Process
- Wrap-up

Summary ✓

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Tomorrow, You Will…

Which concept can you borrow from?

What actions can you take?

Write it down

2 min

Remaining Questions, Thoughts, and Ideas

Thank You!

Mario Moreira