

Polarion Approach on Quality Assurance

Jiri Walek
VP Product Management



Three Tiers of QA

- 1. Process Quality
- 2. Continuous Validation & Verification
- 3. Release Testing

#1 Process Quality



What component of Polarion do you consider to be outstanding (features, quality, ease of use) compared to other technology/software you use?

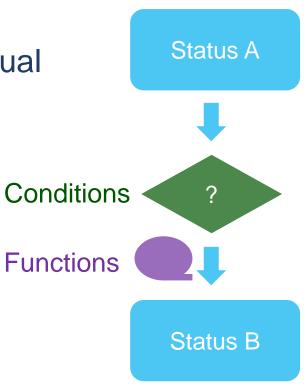
Customizable Workflow 69%



Workflow

 Automation reduces routine manual work and it prevents errors

 Guides users and ensures the process to be followed.



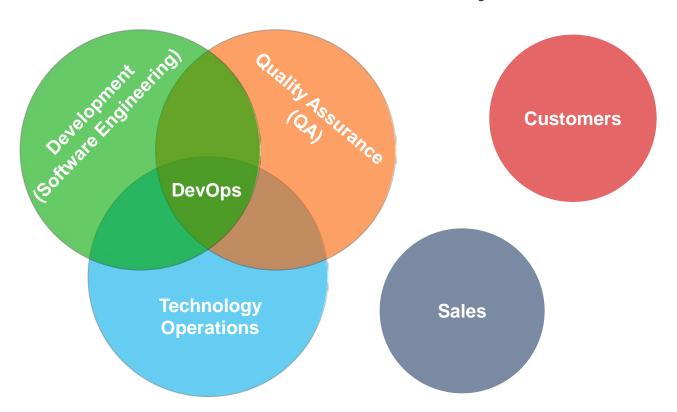


Secure Collaboration

- Because the data should be kept private, and/or...
- Because you want to ensure that information can be exposed or modified at the right time.



Think Widely

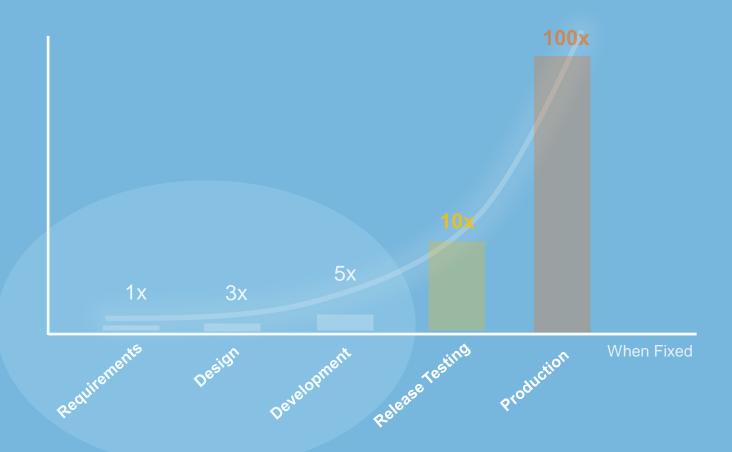




#2 Continuous Verification and Validation

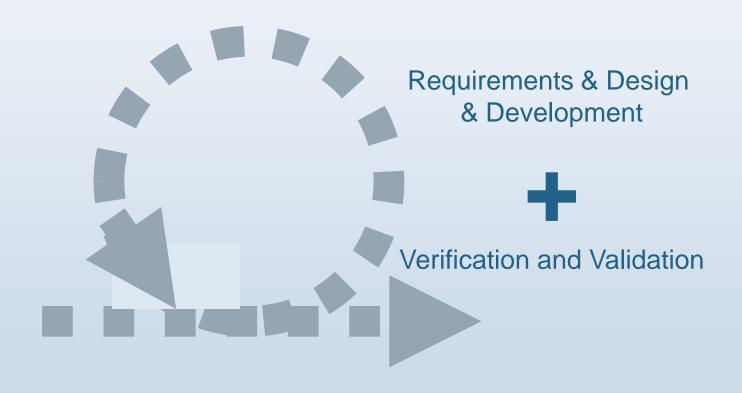


Cost of Defect





Iterative Development Process









Feature



User Story



Work Package



Product Increment

Continuously ...

Verify You built it **RIGHT**

Validate You built the **RIGHT THING**

🔀 DPP-89431 🕝 DPP-94175 💠

Created: 2015-09-23 15:38, Updated: 2015-09-25 14:01

t = DPP-94179 - Remove idgen files from repository

1 🙀 DPP-35232 💢 DPP-35534 🙀 DPP-44869 👩 DPP-90862 👩 DPP-94182 💠



0% Bug Policy

In Progress



Implemented



Verified

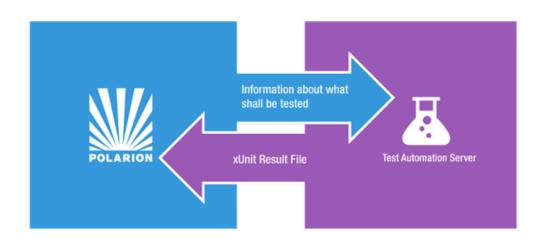
Exploratory Testing
Unit Testing

PI Acceptance Testing System Quality Testing



Test Automation

3.6 test tools / customer

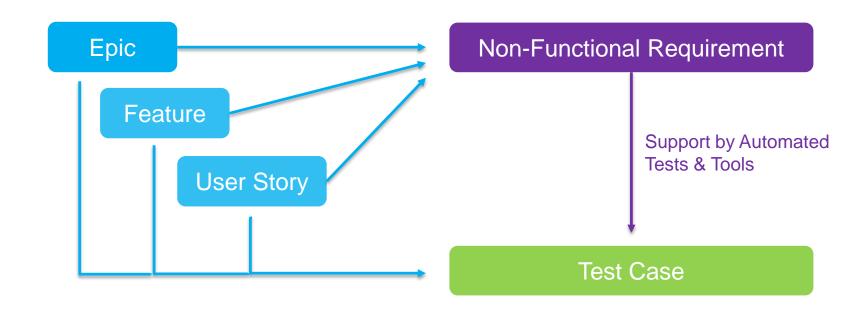


- Same process
- Same traceability
- Issue generated and assigned
- xUnit / API Import



Non Functional Requirements

security, reliability, maintainability, scalability, usability and other *ilities





NFR Testing

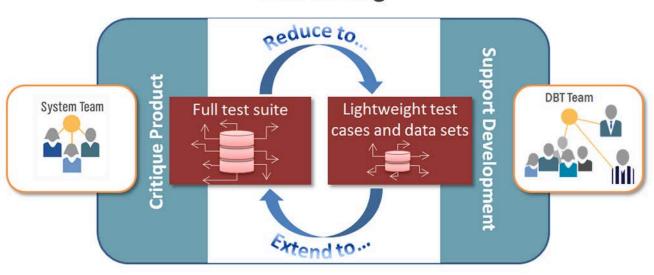


Figure 7. Collaboration of the System Team and Agile Teams to create a more practical NFR testing strategy

Validation

\$\$ QA Verification \$\$

In Progress

Implemented

Verified



Validation

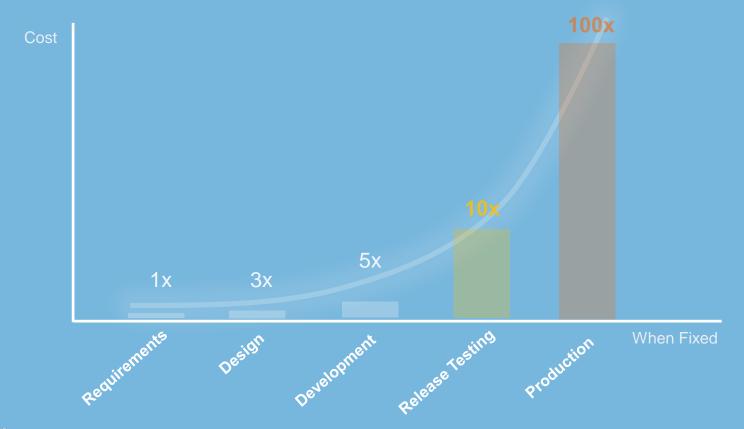
Validation Implemented In Progress Done Verified **\$\$** QA Verification **\$\$**



#3 Release Testing

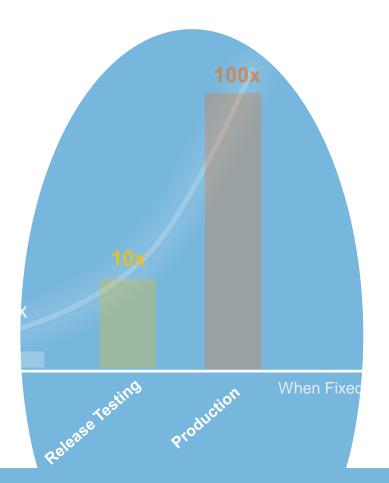


Cost of Defect





Prevent Production Defects with Acceptable Release Testing Cost







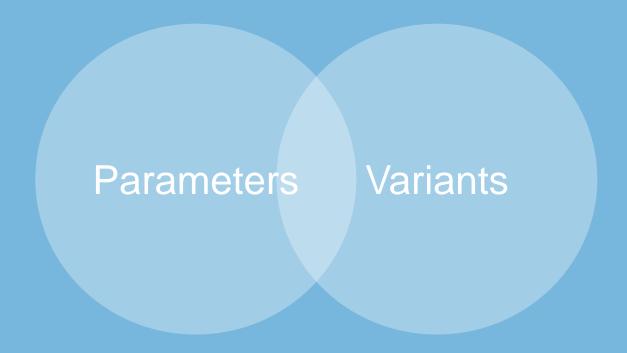


Scope



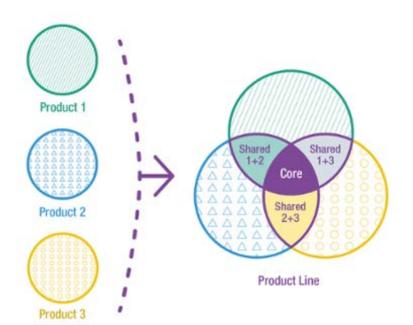


Reuse





Variants

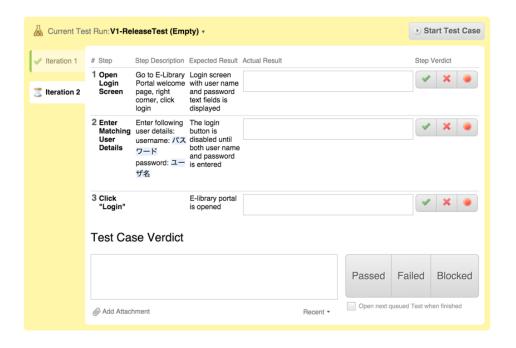


Manageable Test Library

- Feature Model
- Requirements / Test Case Restriction



Parameterization



Reuse Test Scenarios

- Test Step Parameters
- Manage Input Values
- Test Case Iterarions





Three Tiers of QA

- 1. Process Quality
- 2. Continuous Validation & Verification
- 3. Release Testing

Questions?





Thank you.