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Vivit Software Lifecycle Integration Special Interest Group (SIG)

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Hosted By



Adam Jones Sr. Presales Engineer Tasktop



Today's Presenter



Matt Angerer
Presales Solution Architect
Tasktop Technologies



House Keeping

This "LIVE" session is being recorded
 Recordings are available to all Vivit members

Session Q&A:

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Webinar Control Panel

Toggle View Window between Full screen/window mode.

Questions



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Today's Agenda



7 Reasons Why Value Stream Integration Improves Software Quality Assurance

- 1. Understanding Defect Detection Percentage (DDP)
 - ✓ How monitoring DDP can help improve your organization's software quality!
- 2. Why VSI eliminates QA as an 'afterthought' activity for software releases
 - ✓ QA needs line-of-sight visibility into requirements development
- 3. Driving Effective Change Impact Analysis, Control, and Management of Change Requests
 - ✓ SharePoint, ALM.Net, JIRA, ServiceNow, SAP Solution Manager! Change stems from everywhere.
- 4. How Cross-Platform Artifact Alerting Illuminates Redundancy and Inefficiency
 - ✓ Changes to Requirements should alert Test Automation Engineers
 - ✓ Over testing is a waste of time & money artifact alerting illuminates redundancy.
- 5. Why Shifting-Left Contains Costs While Also Aiding in Root Cause Analysis & Traceability
 - ✓ Swimming upstream and downstream across tools for better software quality
- 6. Reducing Ping-Ponging between Developer and Tester
 - ✓ Developer-Tester Alignment is achieved with Value Stream Integration
- 7. One-Size Does Not Fit All for Testing Centers of Excellence
 - ✓ The fallacy of a single source of truth for requirements, testing, and defect tracking.
 - ✓ How Testing Excellence Centers (TECs) are replacing Testing Centers of Excellence (TCoEs) **Know thy Difference!**

What is Value Stream Integration?

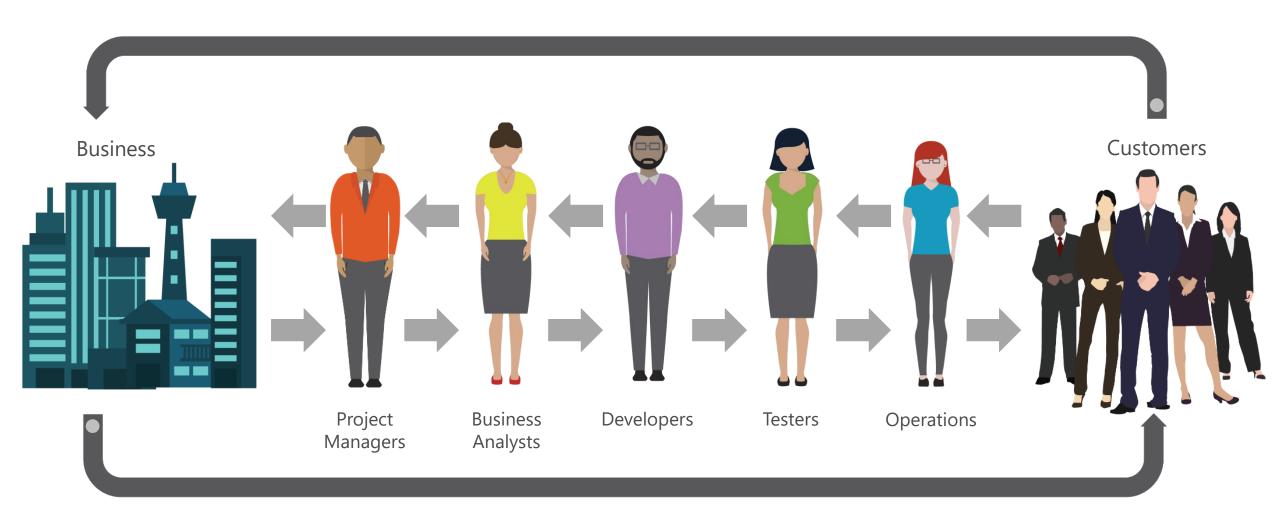
Connecting the people and activities in the software delivery toolchain by automating the flow of value from ideation to production.

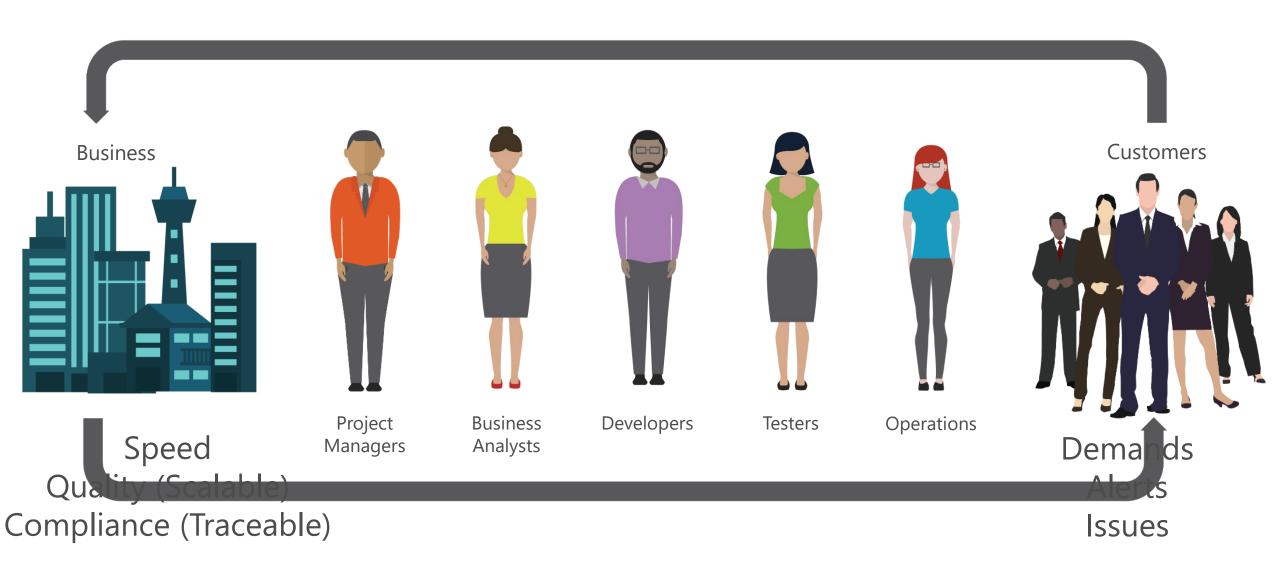


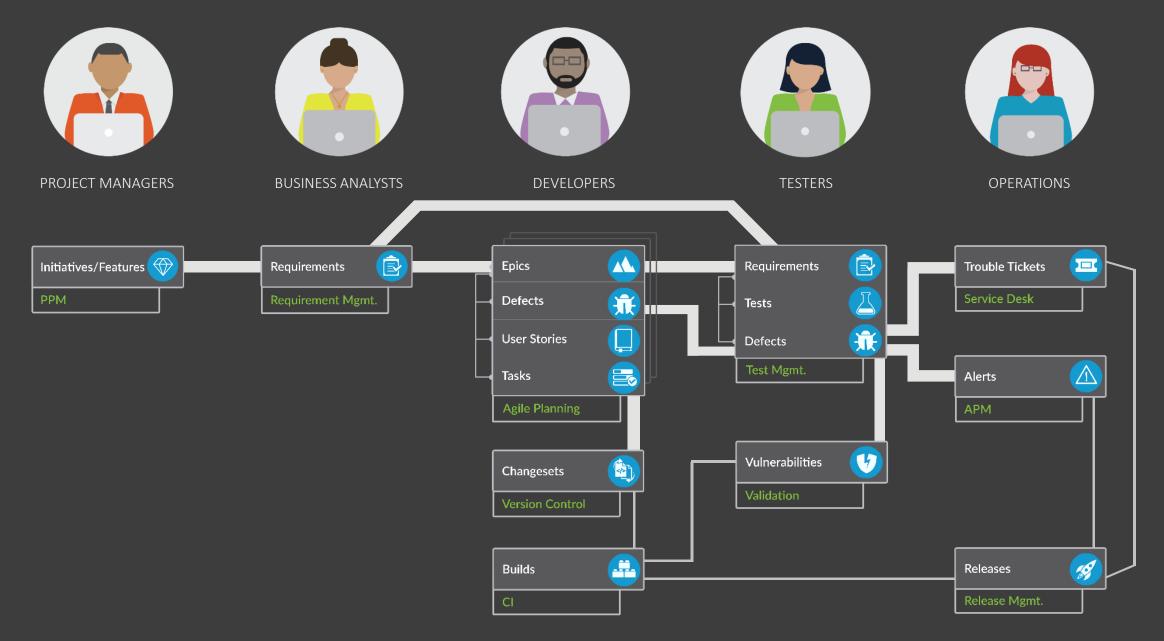
...is *everyone's* responsibility.

(Deming, W. Edwards)

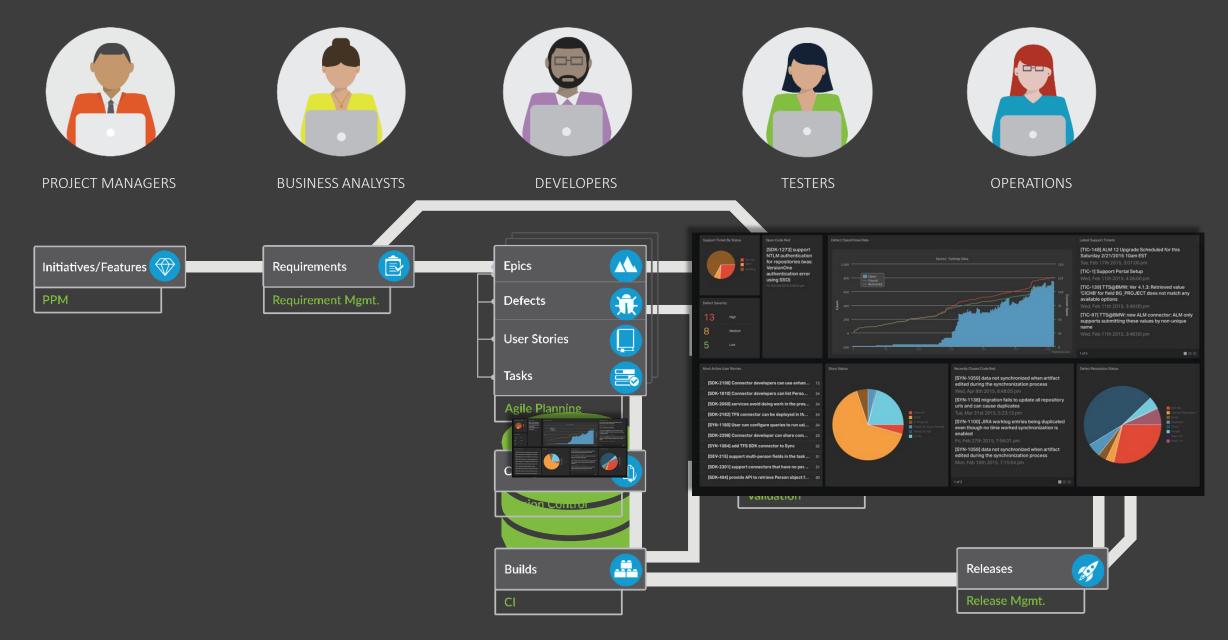














According to...



Current Trends in Software QA and Testing According to the World Quality Report

Survey results indicate that 'hybrid Agile' framework is the new norm, with organizations adopting a combination of SAFe, Scrum, Kanban, XP, DSDM, and Waterfall models in varying combinations.

99% of survey respondents say they have difficulties with testing in Agile development. This is extremely worrying, particularly as challenges persist across-the-board, with little change since last year's study.

A common challenge among practitioners are 'difficulties in identifying the right areas on which test should focus' and 'early involvement of testing team in inception phase or sprint planning.'

Research shows that there is a large proportion of Test Managers lacking skills in test strategy and design. This has has grown from 22% in 2016 to 32% in 2017. Many QA Leaders and Test Managers have difficulty with the Eagle's Eye View required to uncover inefficiencies in their end-to-end process.







Understanding Defect Detection Percentage (DDP)

Measuring Test Effectiveness



How often are you asked these same questions?

Q: How effective is our regression testing suite?

Q: What data do you have to support the effectiveness of your regression testing?

Q: Can you show me how regression test coverage has improved for this last release?

Q: Do we know what regression tests to improve based on bugs we missed?

Q: How many bugs have we missed?

Q: How are we doing as compared to other teams in the same industry?



Poll: How Do You Track Defects and Incidents?



Please take a moment to answer the poll questions

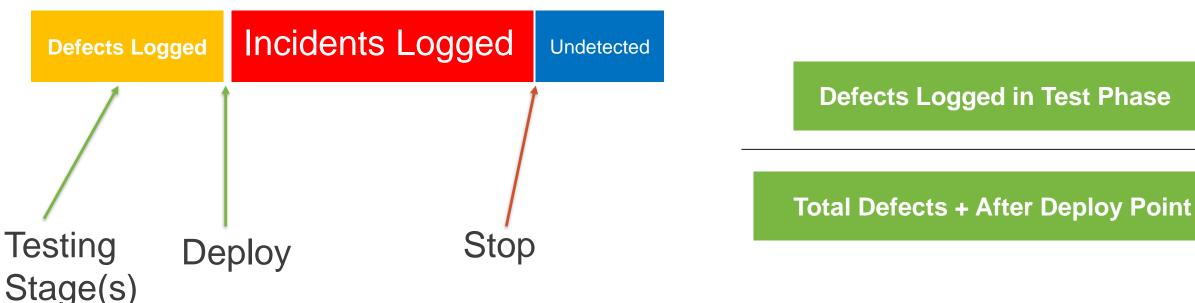
Q: Do you track defects and incidents in the same tool?

Q: Do you track defects by test stages? (e.g., unit, system, interface, UAT, regression)

Q: Do you track defects by target release? (e.g., service pack, project, etc.)



DDP is Simple, Yet Complex

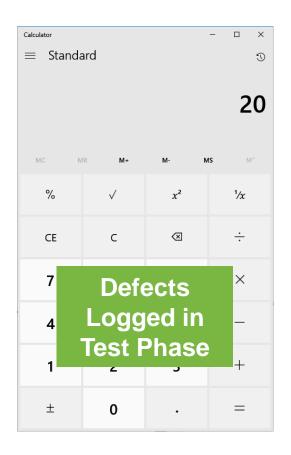


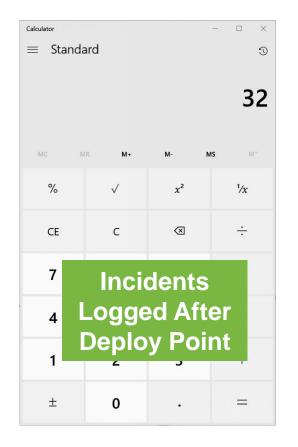
Defects Logged in Test Phase

The Complexity Stems from Multiple Testing Stages and Systems

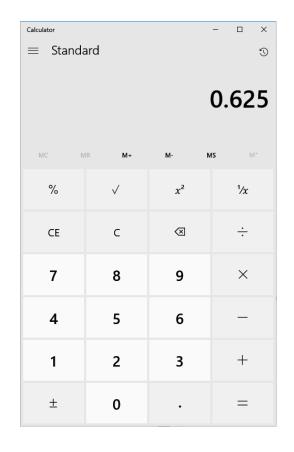


DDP is a Simple Calculation









20

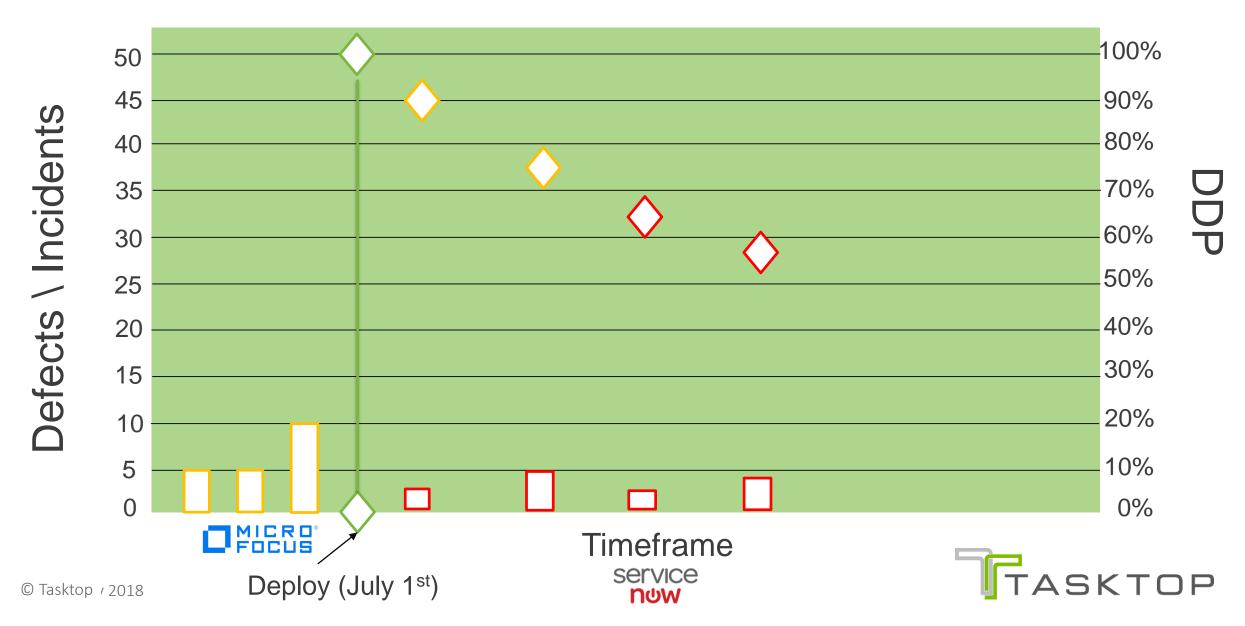
20 + 12

20 / 32

$$DDP = 63\%$$



Graphical Representation



Implications of DDP

High DDP of 90%+:

- Testing is outstanding!
- Limited Usage of the Application Under Test in a real-world scenario during your measurement period.
- Low DDP (< 65%):
 - Ambiguous Requirements resulting in Low Quality Tests?
 - Lack of QA & Testing Involvement Early-On in SDLC?
 - Limited use of Data Sets for Automated Regression Test Cycles?
 - Inexperienced Exploratory Testers?
 - Unstable Software with Not Enough Time to Test!



Incidents and Defects Converge



















Swimming Upstream like Salmon!

- RCA (Root Cause Analysis) on Incidents
- Many causes contribute to defects & incidents!

Leads to...

Identification of Inadequate Test Coverage (Not Enough)

Leads to...

Improvement in the Quality of Respective Test Cases

Leads to....

- Traceability back to Originating Requirement
- (Incident traced back to originating requirement)

Leads to....

More effective Risk-based Quality Management (Prediction)

Leads to....

 Increased Business Confidence in Service Packs, Releases, and Deployments (Better Control!)

Leads to...

Good Working Software!







Ready for a Deep Dive? Join us on August 22nd at 11am EST

FREE EBOOK



- Join us for a Deep Dive Webinar, hosted by Tasktop, in August 22nd at 11am EST
- See how MicroFocus ALM.Net integrates with ServiceNow to calculate DDP in real-time!
- Point your browser to <u>www.tasktop.com</u>
- and register for this deep dive webinar today.
 We will provide a live demonstration of Tasktop's Enterprise Data Stream and DDP.
- All registrants receive an exclusive insider's eBook on how to implement and measure Defect Detection Percentage (DDE).

https://webinars.devops.com/improving-regression-testing-effectiveness-with-defect-detection-percentage-ddp







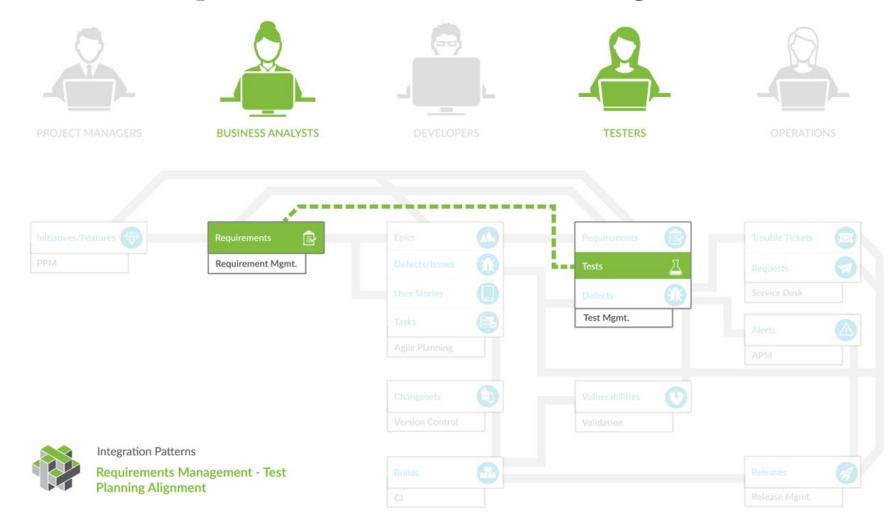
VSI eliminates QA as an 'afterthought' activity for software releases

Build Your QA and Testing Brand

- DDP is a building block to help <u>elevate your brand</u>.
 - Illuminates the need for test process improvements
 - Raises the Profile of QA & Testing
 - Helps Predict Future Defect Levels!
 - Allows you to spot trends and changes over time.
 - Provides Real-Time Monitoring of Test Effectiveness
- Provides a simple tracking KPI other than:
 - Test Execution Report
 - Bug Closure Reports, etc



Upstream Visibility









Effective Change Impact Analysis, Control, and Management of Change Requests

Change Impact Analysis



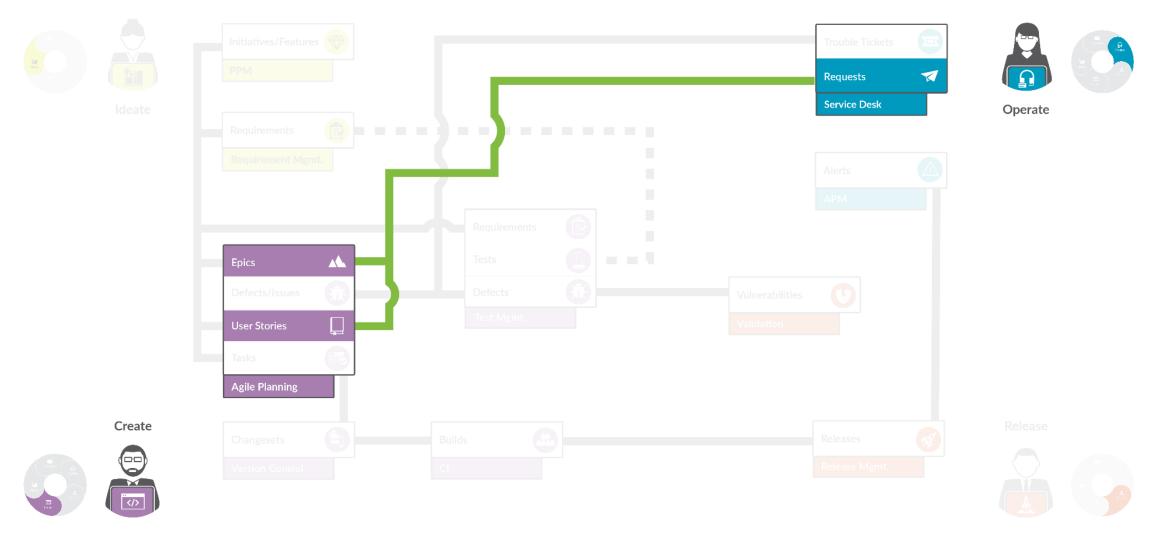
- Too many organizations track CRs separately from their primary work artifacts of the SDLC.
- Let's take a quick poll to see how you track CRs:

Q1: Where do you track Change Requests (CRs) today?

Q2: Do you trace your CRs back to the Originating Requirement?



Change Requests



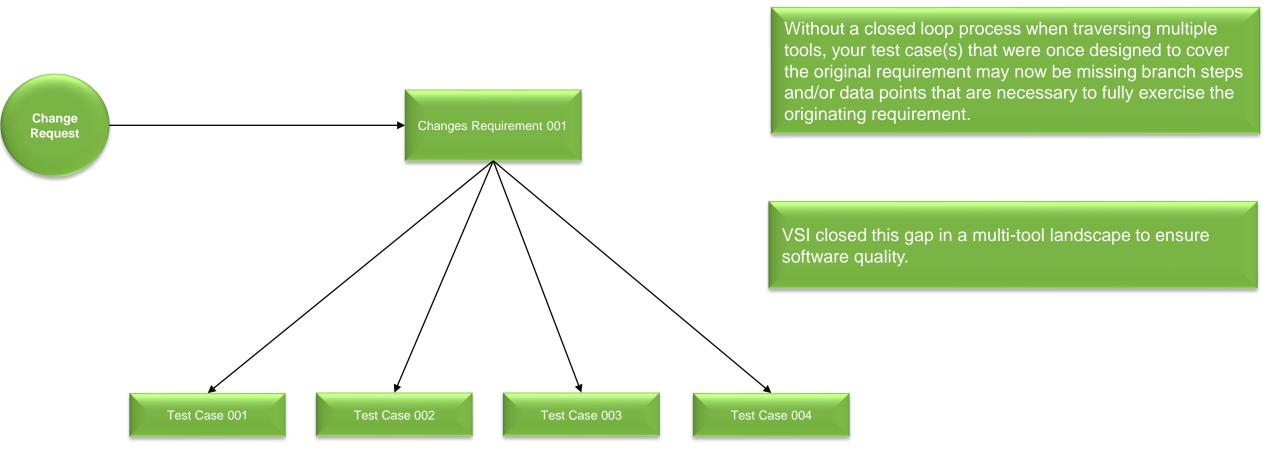




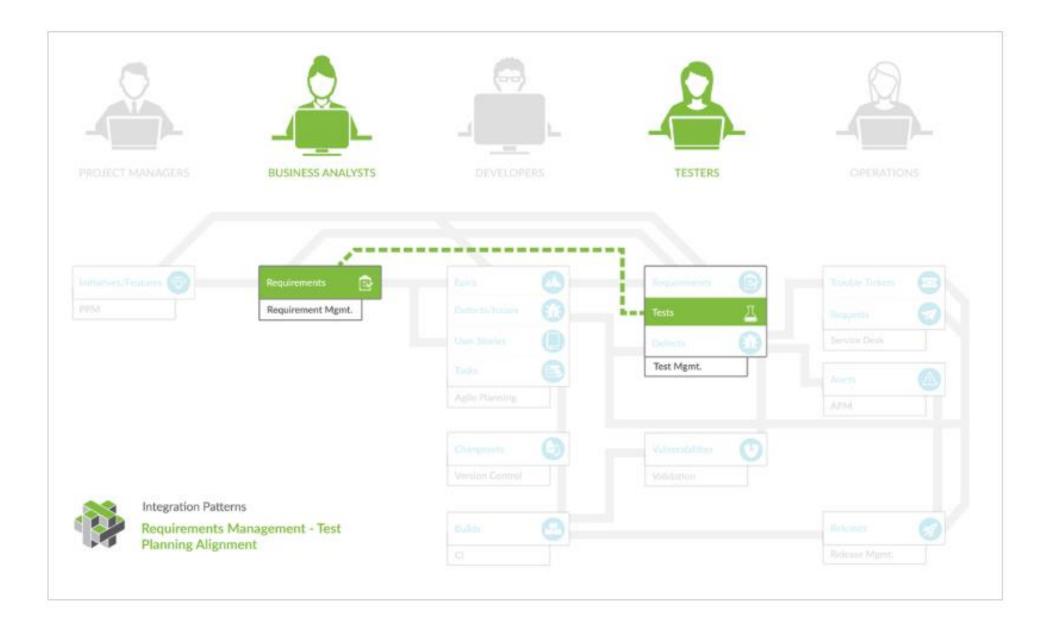


Cross-Platform Artifact Alerting Illuminates Redundancy and Inefficiency

Ripple Affect of Changes Required









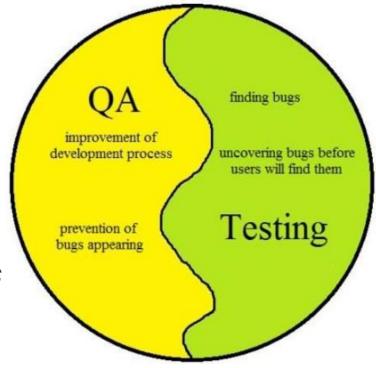




Shifting-Left Contains Costs While Also Aiding in Root Cause Analysis

Prevention (QA) vs. Detection (Testing)

- The Yin and Yang of Software Quality
- Organizations tend to focus more on Detection Techniques
 - Automated Vulnerability Scanning
 - Exploratory Manual Testing
 - Scripted Manual Testing
 - Automated Regression Testing
 - System Integration Testing, User Acceptance Testing
- Shifting-Left balances the focus with Preventative Techniques
 - Value Stream Integration Mindset
 - Line of Sight Upstream to Prevent Ambiguity of Requirements
 - RCA from Incidents to Requirements for RBQM



Communication Failures (People, Process, or Tooling) are the Root Cause of Defects



Value Stream Thinking as Prevention

- Failure in Communication
 - Most common direct cause of ambiguous requirements
 - Developer-to-Developer
 - Manager-to-Developer
 - Developer-to-Tester
 - Executive-to-Department Head
 - Communication breakdowns result in:
 - Missing business needs in User Stories
 - Incorrect specifications for a critical component







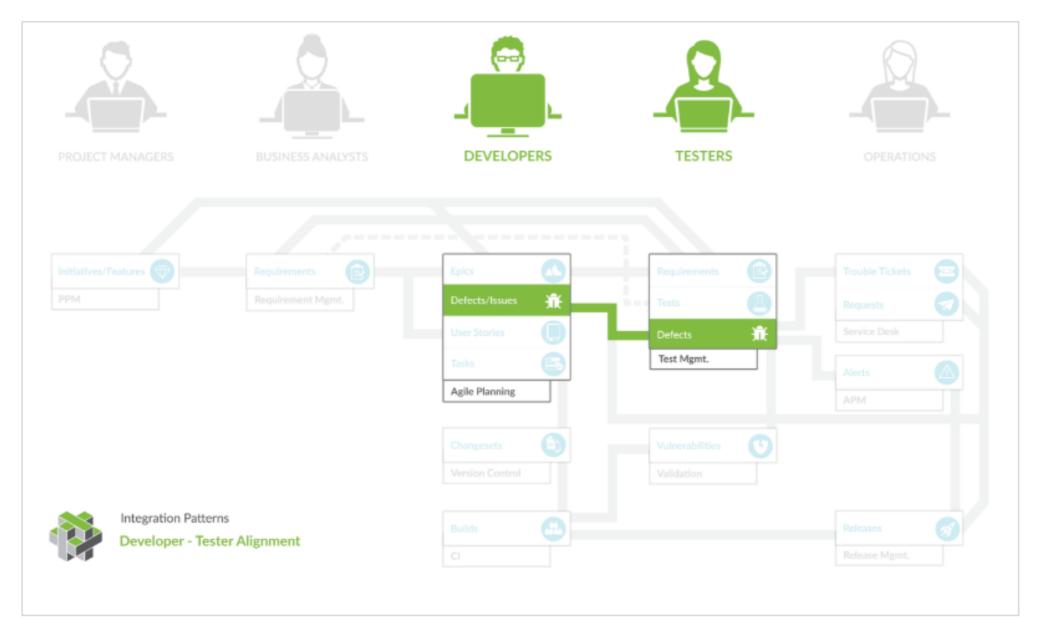
Reduce Ping-Ponging between Developer and Tester

The Burden of Proof is Real!

- Manual and Automated Testing Generates Evidence:
 - Inputs, Outputs (Data Sets, Parameters)
 - Screenshots, Videos of the Application Under Test
 - System Log Files
- Developers Require Evidence for:
 - Re-create defects and incidents
 - Root cause analysis of an incident
 - To understand how to fix a defect or issue identified!
- Best-of-Breed Add-on Manual Test Tools Abound
 - Micro Focus Sprinter
 - Visual Studio Team Services Chrome Extension
 - qTest Explorer for QA Symphony











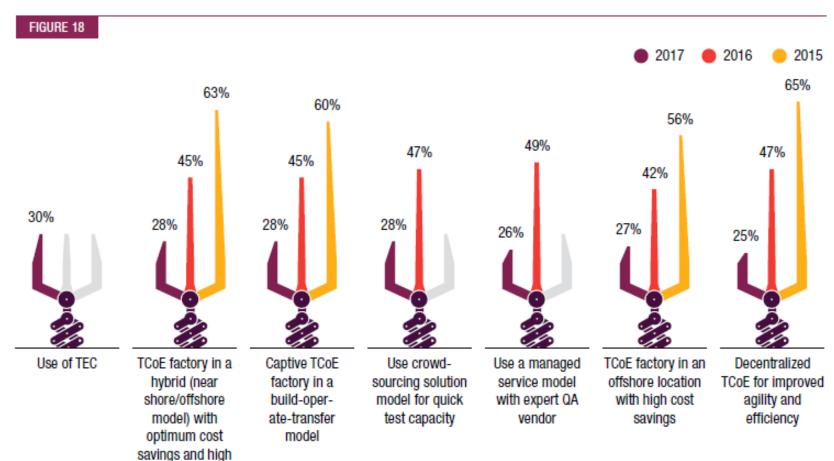


One Size Does Not Fit All for Testing Centers of Excellence

Industrialization

How Test Centers of Excellence Adapt to the Digital Era

Approaches to Test Centers of Excellence



- "Test Factory" models of the past were centralized and undertook testing across multiple programs, domains, and lines of business.
- "Testing Excellence Centers" (TECs) are replacing TCoEs as the authority in test tool selection and integration.
- The Use of TECs, as opposed to TCoEs, is enabling a bestof-breed tool selection approach for organizational teams. VSI ensures the continuity of each best-ofbreed tool across your organization.

Source: Pg. 32, World Quality Report

speed to market







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Any Questions?

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Upcoming Vivit Webinars

August 6, 2018

SIG Talk: OpenStack Cloud and SUSE Integration

8:00 - 9:00 AM PDT (Los Angeles), 11:00 AM- 12:00 PM EDT (New York), 17:00 - 18:00 CET

(Frankfurt)

https://www.vivit-worldwide.org/events/EventDetails.aspx?id=1123094&group=

September 13, 2018

4 Steps to Achieve a Data Driven Culture using TotalView Analytics for ALM 8:00 - 9:00 AM PDT (Los Angeles), 11:00 AM- 12:00 PM EDT (New York), 17:00 - 18:00 CET (Frankfurt)

https://www.vivit-worldwide.org/events/EventDetails.aspx?id=1123536&group=



Thank You

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