# Quality Street: from the fancy to the mundane



Nederlandse Testdag 2015

Oktober 2015



# Quality Street: from the fancy to the mundane ???

Nederlandse Testdag 2015







#### History - still found today



This does not work for software, even though people still try.

Disadvantages:

-Complete requirements up front

-Everything in discrete phases-Past phases become 'stale' quickly

Project Engineering Processes and QA Milestones still use this! We think like this!

Recognise and understand it.

### History



Iterative Development Business value is delivered incrementally in time-boxed cross-discipline iterations.



Getting more cyclic,
lightweight and adaptive
After requirements
elaboration is still a fairly
traditional development
model

- Testing is still a separate phase

### Today

Move a largely creative, "in-head" profession into tangible results with the possibility of fast feedback: Agile





### Testing activities

Testing has become integrated with development.



#### Testing activities

Automate everything: enter the Quality Street.











## Green-field vs. Legacy

Green-field: new development Legacy: existing code base

Where to start?

- -Building the code is not a big problem
- Static analysis is quickly automated
- For the tests:
  - Use the existing code base as information source:
    - Forensic analysis
    - Risk assessment
    - Field/end user/complaints data



altrar



# Today

**SAFe**° Scaled Agile Framework® PORTFOLIO VISION Epics span YV4 Business Epic Business Epic releases Strategic Epic Owners Program Arch. Epic Portfolio Kanban Themes Portfolio PORTFOLIO Architecture -Management NFRs evolves Enterprise continuously AGILE RELEASE TRAIN Architect Portfolio Coordination Metrics AGILE RELEASE TRAIN 2 - -B Content **0**00  $\mathbf{\Sigma}$ gets Integration AGILE RELEASE TRAIN Lean Releasing Lean-Agile Value Streams deliver solutions Leaders **ART Metrics** AGILE RELEASE TRAIN 0.000 0.0 Shared UX System RTE DevOps **Release on Demand** Release Architect Business Owners Program Management Epics PROGRAM 1aA (IsA) Backlog Program Feature Feature YY WSJF WSJF Features  $\bigcirc$ **PI Objectives** WSJF fit in Product Vision Program Management System Demo Arch releases Program 'ogram ase Pla lase PI Feature Feature Architectural Roadmap NFRs Runway System Team **Develop on Cadence** Team Pl Team Backlog Sprint Goals Stories Product Team PI Objectives Plan Owner fit in iterations TEAM p **Code Quality** Scrum AGILE Sprint Goals Master TEAMS Agile Architecture Team PI Spikes, Team PI Objectives Plan Demo & R Team Backlog Continuous Integration Refactors, ✓ Test-First Other III **Developers & Testers** Leffingwell, et al. Iterations Iterations v 3.0 © 2008-2015 Scaled Agile, Inc.

# Today - tomorrow

**SAFe**° Scaled Agile Framework® PORTFOLIO VISION Epics span Y VA Business Epic Business Epic releases Strategic Epic Owners Program Arch. Epic Themes PORTFOLIO Portfolio Architecture Management evolves NFRs Enterprise continuously AGILE RELEASE TRAIN Architect Portfolio Coordination Metrics AGILE RELEASE TRAIN 2 - - Content **W** Integration gets AGILE RELEASE TRAIL Lean Releasing Lean-Agile Value Streams deliver solutions Leaders **ART Metrics** AGILE RELEASE TRAIN Shared DevOps UX System RTE **Release on Demand** Release Architect Management Program Business Epics PROGRAM Program Featur Back Features **PI Objectives** WSJF Product Vision fit in Quality street? Management releases Architectural Roadmap Runway System Team **Develop on Cadence** Team Pl 1 Backlog Sprint Stories Product Owner fit in Quality street Object iterations EAM Code Quality Scrum AGILE Sprint Master TEAMS Agile Architecture Spikes, Backlog Continuous Integration Quality street Refactors, Team P Test-First Other Objective 11 **Developers & Testers** Leffingwell, et al. Iterations Iterations v 3.0 © 2008-2015 Scaled Agile, Inc.

What happens to testing?

Bottom layer covered, but...

What about systems? How to synchronise <u>in-</u> <u>between</u> releases?

How to enable early/daily testing?



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When can the "system team" actually test?

Alignment required between program increments...

I want daily insight at system level!

# **INNOVATION MAKERS**



