# Model Practices: The Testing Activity Landscape

Deliverable Candidate Front Door

**Backlog Management** 

Pan-Release / Pan Sprint Delivery Identification & Planning

until next end-of-sprint build.

**Essential fixes only** 

end-of-sprint build for evaluation.

ō

Release

Work in Progress Management

**Regular Evaluation of** 

**End of Sprint Builds** 

**General Operation Testing** 

Architectural & Implementation Policy / Constraints / Global Engineering

Pan-Sprint / Pan-Release Integration

**Extensive Evaluation of** 

**Stable Candidate** 

Pan-Release Trials

or-Com sembly / ntric Eva

Interface/ Distributed Func Centric Evaluation

# Collaboration

## Inherent test capability within the

Test oriented developers. Test Driven Development Dev Team Testers in the team Embedded Core Test Team Testers

### **Upfront Application of** Test Disciplines And Aptitude

Requirements clarity Requirement expression as tests. What-if mind-set How-could mind-set. How-to support for TDD.

Work In Progress **Engineering Artefacts** 

Work In Progress Software

Scenario Tests. Exploratory Testing. Usability.

Functional. **Usability** 

## **Engineering Sprint**

**Backlog Prioritsation** 

## Per Engineering E2E Team

Sprint Scoping and Capacity Management

Per Deliverable Item or Item Group

XC Requirements Engineering

**Design Engineering** 

Test Driven Development

Continuous Integrated Build

**Continuous Integration Test** 

Deliverable Feature & Operational Scenario Testing

Stakeholder Acceptance

### Aligned Core Test Team Resources

Core team resources aligned to each delivery. Participate throughout. Establish understanding. Ensure alignment

receive delivery. Interface for issues.

Work In Progress

Work In Progress

As-Built

Models

Fully Accepted

Feature Software

As-Built

Documentation

Updates

Software

Engineering Artefacts

Prepare Evaluation to

Technology Integration Integrity Testing

Error detection & tolerance

Browser compatibility

Localisation

Target platform compatibility

Alternative operating modes

Fransport compatibility

Data exchange State synchronisation Information synchronisation

Start-up / shutdown

Resource management

Monitoring /audit

Internal failures

Deploy & Upgrade Centric System Testing

### Holistic / Rigorous System Testing

Pre-existing Operation

Tight Operation Coupling Loose Operation Coupling Data Range Reslience User anomaly handling

Technology anomaly

nandlina

Historic data conversion Op on representative data Op on historic data

Long term customer activity Alternative operating modes

## **Expected Usage Centric Testing**

Prescribed Usage

Deeper exploratory progression testing

New feature functional security testing

Core regression suite execution

Systematic pre-defined progression testing

Automated/augmented one-shot behaviour testing

New feature device / browser compatibility testing

Standard Business

### Operational Simulation Testing

Configuration Testing

Alternate target platforms

System configurations

Alternate transport methods

Deployment System reactivation

unctional security olume operational cycle reacherous peers

Automated/augmented multi-shot reliability/

consistency behaviour testing

## Interworking Testing

Supplier systems Peer systems

Stress testing

## Availability

Penetration

Historic data conversion

Endurance Testing

Security Testing

ailure containment

## Operational process enactment testing Operational cycle enactment testing

Business cycle enactment testing Cradle to Grave business activity enactment Formal interworking certification testing

oad testing focussed on behaviour under load nterworking with the wider IT estate

Automated high volume one-shot behaviour testing

Load testing focussed on performance/efficiency

COPYRIGHT © 2012 SQC Technology Limited. All rights reserved

# **Evaluation**

## **Extended Evaluation of** Candidate Build(s)

## Deployment & Upgrade Centric Testing

Deployment process Pre-activation process Activation process

Historic data conversion

In-flight transactions

## Reliability / Consistency

Throughput Scalability

S E

## em Syst Eval

# IT Operation Process Testing

## Compatibility with pr-planned interaction sequences Compatibility with pre-planned process sequences

### Overall Solution Process Testing Compatibility with pre-planned interaction sequences

Compatibility with pre-planned process sequences Overall solution operation testing