

Leadership Dimensions in Testing

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Time for reflection...



- I. Testing a water sample
- Test drive a car at showroom
- 3. Test drive at factory
- 4. Tea tasting
- 5. Trekking in a marshy area
- 6. Soil testing before construction
- 7. Annual health check up
- 8. Questioning a suspect at a police station
- 9. TV interview of a celebrity
- 10. Sampling a delicacy while cooking
- 11. Watching a movie trailer
- 12. Tour of a model apartment

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Testing estimate is related to system <u>size</u>



Testing estimate is related to system quality



Testing estimate is related to system <u>purpose</u>



Testing is a process that <u>enhances</u> quality

OR

Testing is a process that <u>measures</u> quality



Testing is a process to prove the system is working correctly

OR

Testing is a process to prove the system has <u>defects</u>



Detection of initial defects imply more concealed defects

OR

The more defects you find, the less defects you are likely to find in future

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A tester's job is to design, execute test cases and find bugs as they occur



A tester's job is to seek and seize defects



Testing <u>assures</u> worthiness

OR

Testing certifies worthiness

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Measure Rol of Testing

OR

Measure business value of Testing

The Tester's Challenge



- I. Estimation
- 2. 'Early' involvement
- 3. Test worthiness of the build
- 4. Defects
 - I. Seek and seize
 - 2. On the beat
 - 3. Conviction & acquittal
 - 4. Corrective
- 5. Defect fix rate
- 6. Blowing the whistle
- 7. Worthiness Milestone

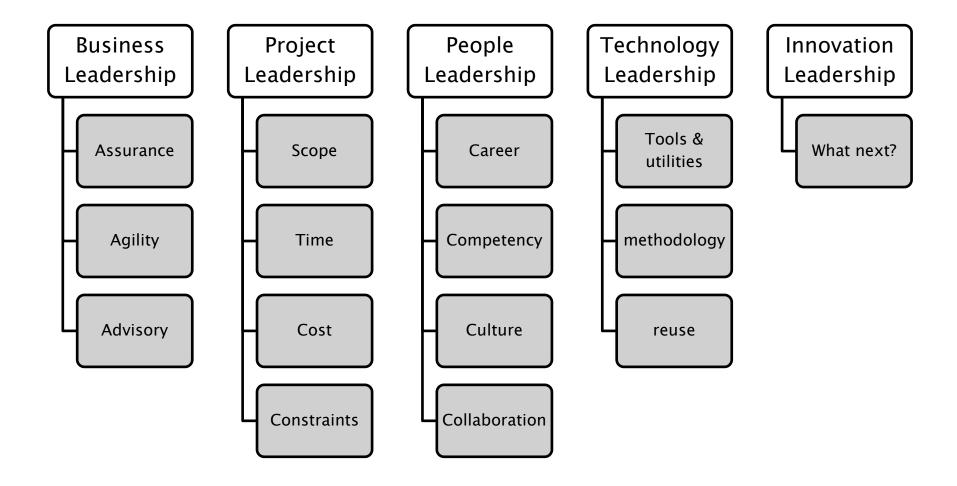




Then	Now
Testing	Assurance
A phased in lifecycle	Business Outcome
An activity	Business function
Process compliance	Business realistic
Defect analysis	Risk analysis
Test completion	Purpose readiness
Reporting	Advisory
Budget enabled	Constraints based trade offs
Size driven effort	Risk driven; accelerator
	powered
Productivity	'Directivity'

Leadership Dimensions





Assurance



- Scope definition
- Assurance of readiness
 - Market launch
 - Compliance
 - Regulatory
 - Production deployment
 - Service
- Risk based
- Business constraints bounded

Agility



- The reality
 - upstream delays
 - Compressed deadlines
 - Reduced budget
 - Re-runs
- Reduce size impact
 - Risk driven
 - Constraints based trade offs
 - Reuse
 - Accelerator powered

Advisory

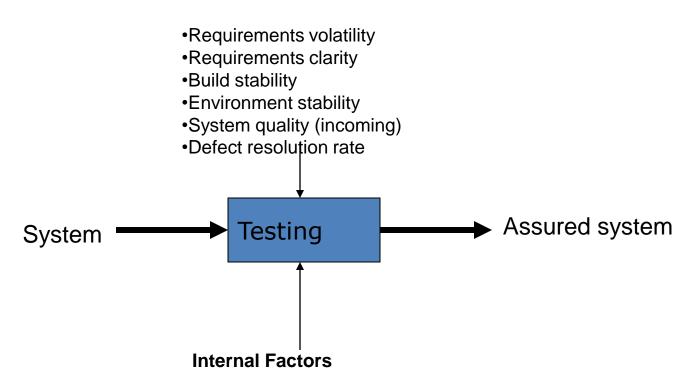


- Navigation towards GO LIVEmilestone
 - Risk analysis
 - Mitigation
 - Issue recovery
- Trade off assessments
- Business impact assessments
- Decision support

Project Leadership



External Factors



- Test coverage
- System & application knowledge
- Test efficiency
- Testing productivity
- Defect validity
- Resource availability

Project Leadership



Sizing considerations

System size

- No. of applications to be tested
- Business processes
- No. of interfaces
- Application sizing
 - Number of screens
 - Business functions
 - Modules
 - Use cases
- Testing types
- Test artifact definition

Test size

- No of test cases
- Type of testing
- Retest/ rerun %
- Test artifact definition

System Purpose

System Quality

Project Leadership



- Trade off negotiation
- Constraints management
- Progress management
- Regression suite selection
- Metrics correlation
- Rule based program alerts
- Dependency analysis

People Leadership

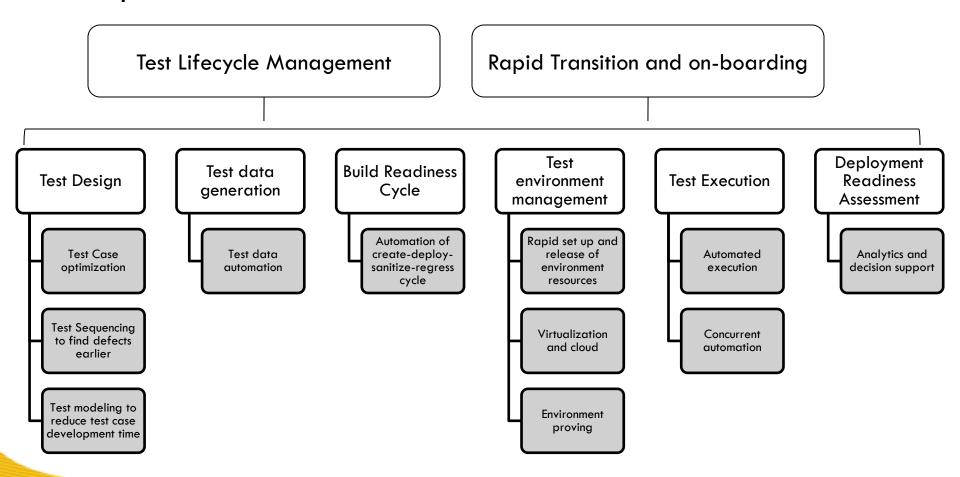


- Career
 - Path in
 - Path out
- Competency
- Culture
 - Curiosity, critical thinking & creativity
- Collaboration

Technology Leadership



- Test lifecycle technologies
- Open source tools



Innovation Leadership



What next in testing?

- Model driven test design behavior, component, architecture...
- Policy driven test strategy and management
- Algorithmic testing
- Agile /Concurrent automation
- Platform independent automation
- Automated Rule Based Testing
- Business driven test analytics
- Hosted services
- Testing for cloud services
- Offering on-demand, high available test infrastructure on cloud
- Collaborative and concurrent testing powered by social media
- Business Process testing
- Architecture and design validation
- Domain specific Test Description Language
- Domain specific test case generators



Thank You

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