

# Lessons in Leadership in Testing

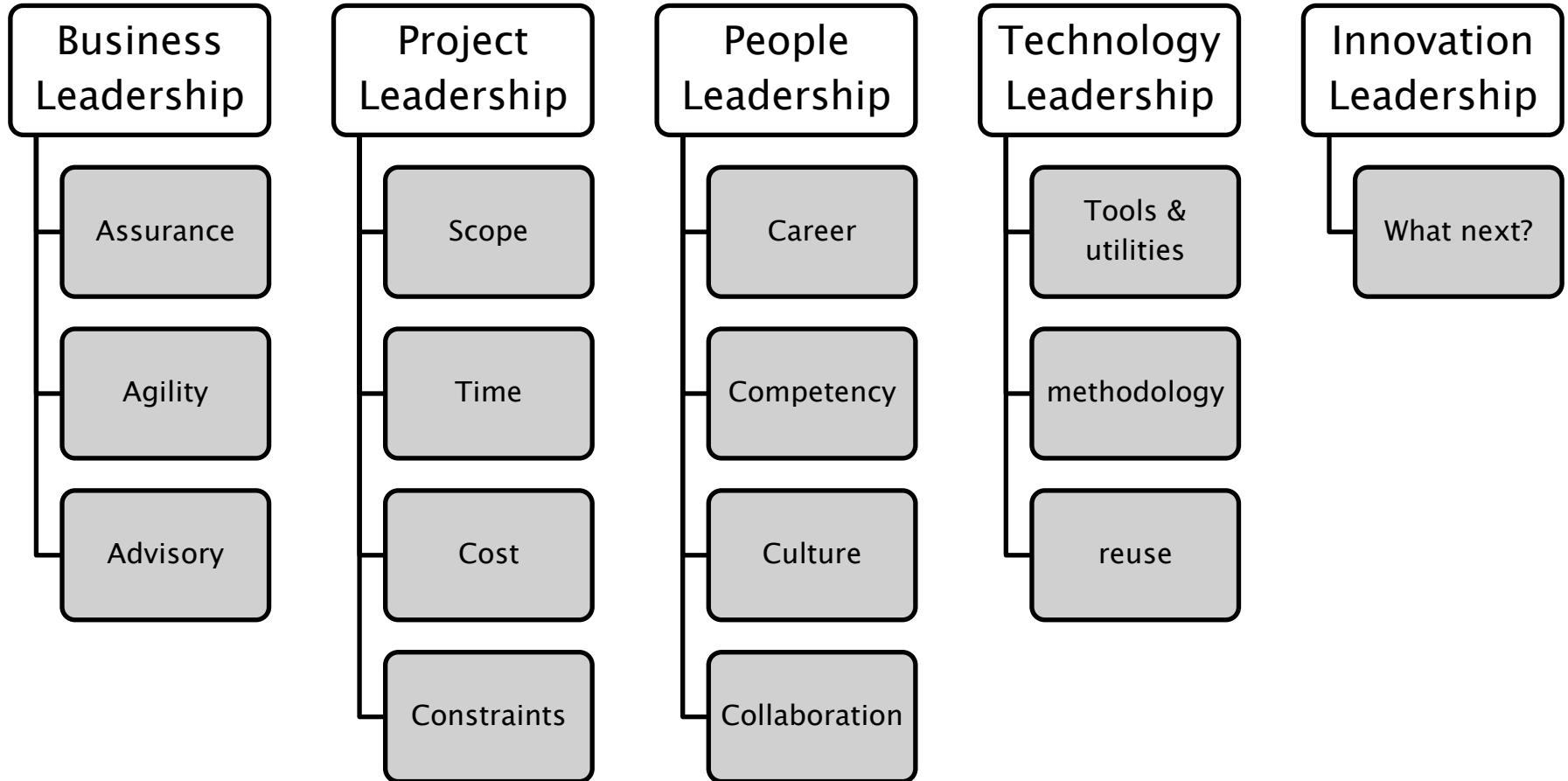
A multi-dimensional perspective

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# The changing face of testing

<b>Then...</b>	<b>Now</b>
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

**Change Table**

<b>Then...</b>	<b>Now</b>
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Budget enabled...	Constraints based trade offs
Test completion...	Purpose readiness

# Agility

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

**Change Table**

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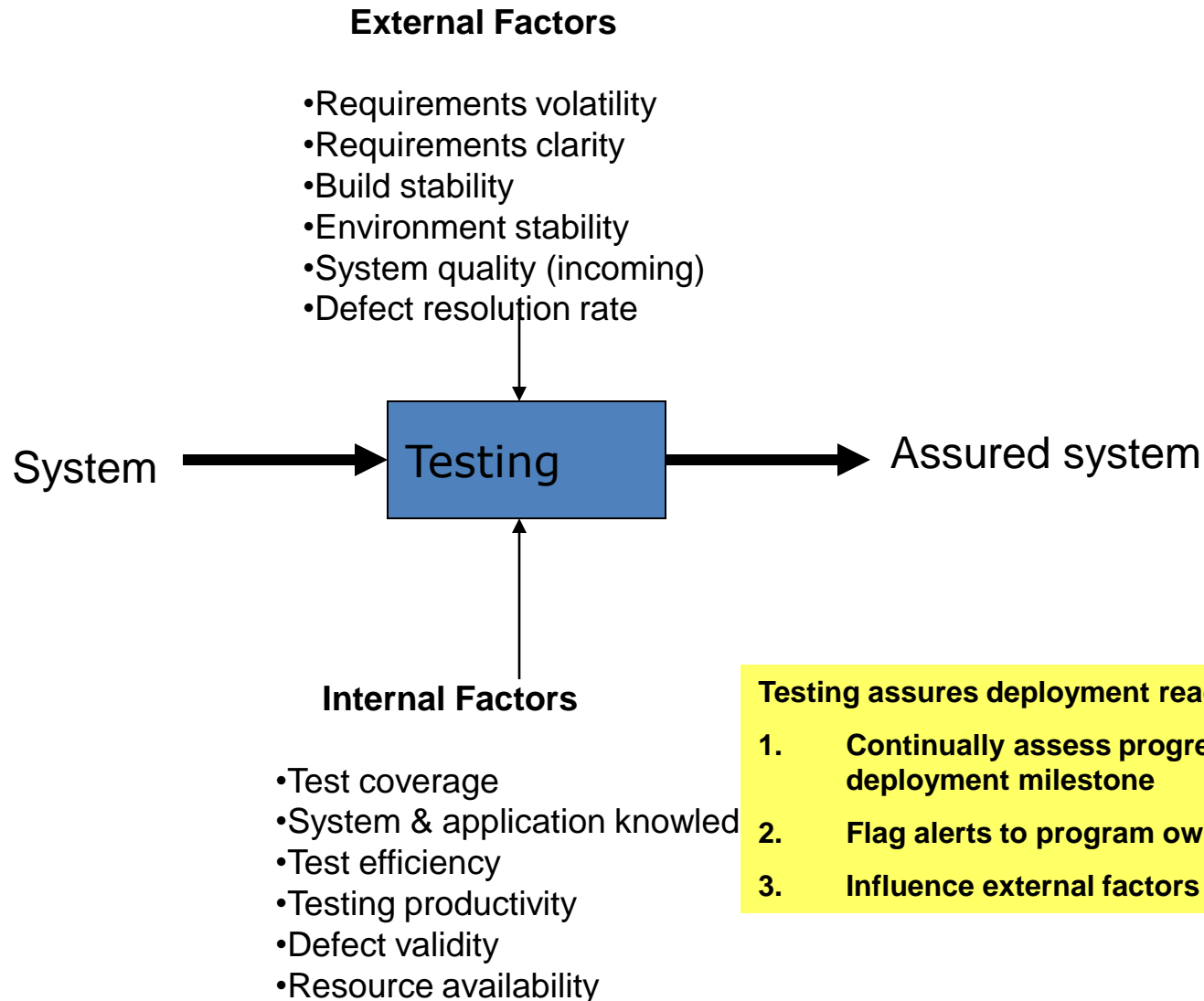
# Advisory

- Navigation towards readiness milestone
  - Risk analysis
  - Mitigation
  - Issue recovery
- Trade off assessments
- Business impact assessments
- Decision support

**Change Table**

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# 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



# Project Leadership

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

## Change Table

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# People Leadership

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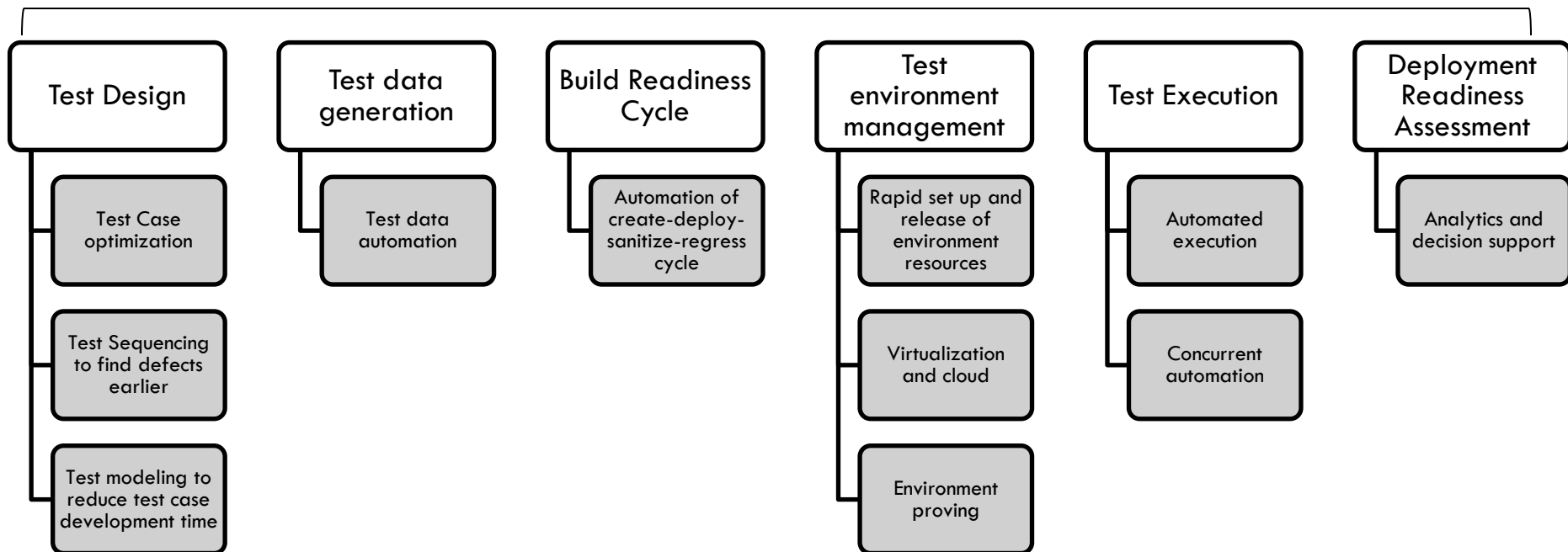
- Career
  - Path in
  - Path out
- Competency
- Culture
  - Curiosity, critical thinking & creativity
- Collaboration

# Technology Leadership

- Test lifecycle technologies
- Open source tools

Test Lifecycle Management

Rapid Transition and on-boarding

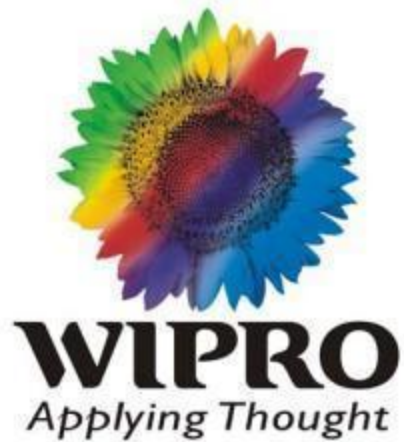


# Innovation Leadership

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## 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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