

# ITEA Technology Review 2011

## Panel 2: Agile IT

### “Three Agile IT Issues”

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# Three Agile IT Issues

1. Continuous Integration and the Business Team Member
2. Conflict Management Between Developers and Testers
3. Agile Techniques in the Traditional Development Environment



## Continuous Integration and the Business Team Member

- Integration in traditional development: Integrate code modules after independent development.
- Continuous Integration: Add new code to existing code on a short-term, often daily, basis, and test the result.



## Continuous Integration and the Business Team Member

- Business member of the agile development team:
  - Embedded in the agile team.
  - Helps interpret customer requirements.
  - Helps develop tests.
  - Interfaces with the customer department when necessary.



## Continuous Integration and the Business Team Member

- Role of the business team member in continuous integration:
  - Help prepare test cases based on requirements.
  - Provide continuous advice on the most likely application scenarios.
  - Continuous sensitivity towards usability.
  - Continuous focus on starting with the critical path requirements and building out.

# Conflict Management Between Developers and Testers

- Sources of conflict:
  - Lack of documentation or lack of following standardized procedures.
  - Development of negative attitudes towards each other.
  - Lack of effective or efficient communications.



## Conflict Management Between Developers and Testers

- Options for tester reporting path in the agile development environment:
  - Reports to testing department.
  - Reports to development department.
  - Reports to combined agile development organization.



# Conflict Management Between Developers and Testers

- Conflict management:
  - In the agile development environment it's a team effort; everyone is responsible for all aspects of development.
  - Specialized training.
  - Cross-training.
  - Testers involved at all levels of development since the agile environment compresses development stages.





## Agile Techniques in the Traditional Development Environment

- Some organizations that don't want to fully jump into agile can still benefit from agile techniques.
- The use of agile techniques in traditional development can be a lead-in to agile development.
- Some development projects that don't lend themselves to agile development can benefit from agile techniques.

# Agile Techniques in the Traditional Development Environment

- Agile techniques in traditional development:
  - Test-driven development (TDD).
  - Testers engaged earlier in the development cycle.
  - Continuous integration.
  - Customer personnel engaged on a continuous basis.
  - Pair programming.

