

Nokia Networks and Agile Development

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Currently in Nokia Networks



15 projects use Scrum

Projects range from:

Environments: Java
Size: 10 150

• Development sites: 1

• Products: New Old

• Countries: Finland China

Support from a centralized project -> Flexible R&D project



History



- Project "Flexible R&D" started in beginning 2005.
- One of the goals:
 "Find 1 or 2 projects to pilot "Agile development"".
- Result:

April 2005: 4 projects

July 2005;
 6 projects

• December 2005: 9 projects

March 2006: 13 projects

- Original target failed.
 - Reason: Too much interest.

Constant growing of interest made only "minimal support" possible.



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Flexible R&D project



• Jan 2005 now Flexible R&D project x4

What does Flexible R&D do:

Give trainings: Introduction, Scrum, TDD, A-TDD, CI, Retrospectives

Facilitation: Retrospectives, Requirement workshops, Iteration planning

• Share Information: Wiki, newsgroups, newsletter

Organize gatherings: Scrum

Create communities

and user groups: CI, TDD, Scrum

Coaching: Test-driven-development

Project support: Problem solving, discussions

No enforcement, just optional support.



Process



- Projects select their own process
 - Scrum been selected almost everywhere
 - Team gradually took more agile practices in use
 - Process was adapted over time
- No company-wide agile process defined
 - **values, principles** and some **interfaces** defined.
- Two musts:
 - Short iterations
 - Retrospectives
- Important: Not iterative when slide





Success

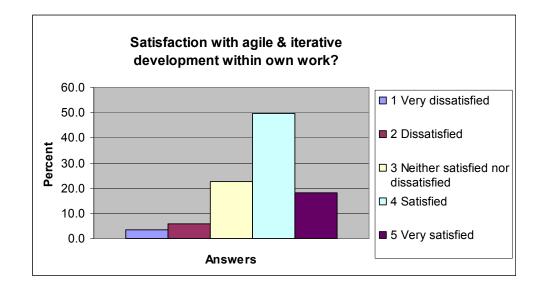


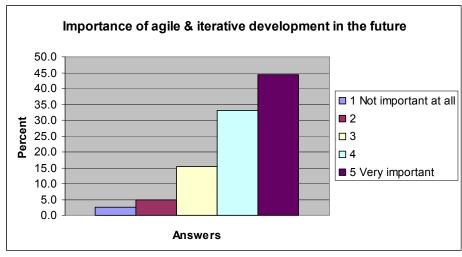
- **No enforcement**: let the projects chose
- Usage of external consultants
- Much open information
- Linking people together, communities
- Provide the support for projects when they need
- Focus on both technical and people/organizational issues
- The two musts
 - Iterations -> Quick feedback
 - Retrospectives -> Inspect and adapt

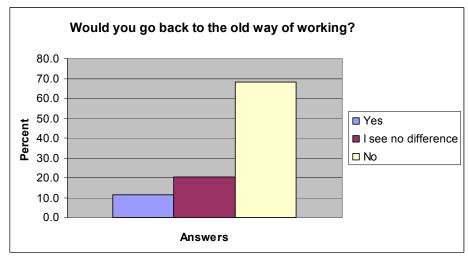


Survey for people in projects















Background info





No Agile & Iterative when:



- You know when you are not doing iterative development when:
 - Iterations are longer than 2-6 weeks
 - Team tries to complete specifications before programming
 - An iteration does not include testing
 - Iteration does not produce workable code
 - Detailed (task level) plans and accurate estimates are expected at the beginning of a project
 - The iteration plan doesn't reflect what team is doing
- You know when you are not doing agile development when:
 - There is little co-operation within the team
 - Design and code is produced in individual effort
 - Progress is measured by hours spend or documents created instead of working code
 - Builds are done once in three weeks.



