Swiss Agile Study

A joint project of

In cooperation with

Funded by

Lean Agile Scrum Conference, Zurich, 12.09.2012  M. Kropp / A. Meier
Survey Setup Facts

• 2 Surveys:
  – IT-Companies directly contacted
    • 1469 contacted
    • 287 started (19.5%)
    • 140 finished (9.5%)
  – IT-Professionals anonymous
    • 493 on site
    • 408 started (83%)
    • 194 finished (39%)

• Each survey divided into two main categories:
  – Agile/Non-Agile
Industry Sectors

Item 8.2 Economic Branch of Participating Companies

- IT Services / IT Consulting
- Software Industry / Development
- Finance / Insurance
- Public Service
- Other
- Tele-Communication
- E-Commerce
- Medical and Health Care
- Transportation and Shipping
- Retail
- Energy and Water Supply
- Education
- Manufacturing
- Building / Construction
- Chemistry / Life Sciences

Legend:
- IT-Professionals
- Companies
Item 9.3 What is your current position in your company?

- CEO
- CTO
- Development Manager
- Other
- Team Leader
- CIO
- Project Manager
- Senior Software Developer
- Designer / Architect
- QA Tester
- Software Developer
- Product Manager

IT-Professionals vs Companies
Agile vs. Non-Agile

Item 1.1: Is your company currently practicing agile software development?

**Company Survey**
- **Agile**: 57%
- **Non-Agile**: 43%

**IT-Professional Survey**
- **Agile**: 68%
- **Non-Agile**: 32%
Agile Methodologies

Item 1.4: Which methodology does your company most closely follow?

- Scrum
- Other:
- RUP (Rational Unified Process)
- HERMES
- eXtreme Programming (XP)
- Lean / Kanban
- V-Model
- Open Unified Process (Eclipse)
- Scrumban
- Don’t know

Survey conducted at Lean Agile Scrum Conference, Zurich, 12.09.2012

M. Kropp / A. Meier
Non-Agile Methodologies

Item 1.4: Which methodology does your company most closely follow?

- V-Model
- HERMES
- Other:
- RUP (Rational Unified Process)
- Scrum
- Open Unified Process (Eclipse)
- Lean / Kanban
- eXtreme Programming (XP)
- Scrumban
- Don’t know

Legend:
- Non-Agile IT-Professionals
- Non-Agile Companies
Satisfaction

Item 1.5 : How satisfied are you with your current methodology?

- **Non Agile IT-Professionals**
  - Unsatisfied: 21%
  - Somewhat satisfied: 32%
  - Satisfied: 40%
  - Very satisfied: 7%

- **Agile IT-Professionals**
  - Unsatisfied: 2%
  - Somewhat satisfied: 25%
  - Satisfied: 53%
  - Very satisfied: 19%

- **Non-Agile Companies**
  - Unsatisfied: 6%
  - Somewhat satisfied: 31%
  - Satisfied: 52%
  - Very satisfied: 10%

- **Agile Companies**
  - Unsatisfied: 0%
  - Somewhat satisfied: 16%
  - Satisfied: 64%
  - Very satisfied: 20%
Engineering Practices

Item 3.1: Which of the following engineering practices could be observed by someone visiting your company in the next month?

- Unit testing
- Coding standards
- Automated builds
- Continuous integration
- Refactoring
- Test Driven Development (TDD)
- Pair programming
- Collective code ownership
- Continuous delivery
- Automated acceptance testing
- Acceptance Test Driven Development (ATDD)
- Behavior Driven Development (BDD)

Lean Agile Scrum Conference, Zurich, 12.09.2012
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Managing Practices

Item 3.2 Which of the following management practices could be observed by someone visiting your company in the next month?

- Release planning
- User stories
- Iteration planning
- Daily standup
- Taskboard
- Retrospective
- Burndown charts
- Story mapping
- Open work area
- Continuous delivery
- On-site customer
- Kanban Pull System/Limited WIP

**Bar Chart**

- **Agile IT-Professionals**
- **Agile Companies**

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Agile Influence – Company View

Item 5.7 How has agile software development influenced the following aspects?

<table>
<thead>
<tr>
<th>Aspect</th>
<th>Much worse</th>
<th>Worse</th>
<th>Unchanged</th>
<th>Improved</th>
<th>Significantly improved</th>
<th>Don't know</th>
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<tbody>
<tr>
<td>Requirements management</td>
<td>29%</td>
<td>51%</td>
<td>13%</td>
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<tr>
<td>Management of distributed teams</td>
<td>42%</td>
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<td>Engineering discipline</td>
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<td>Development cost</td>
<td>52%</td>
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<tr>
<td>Team morale</td>
<td>25%</td>
<td>42%</td>
<td>24%</td>
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<tr>
<td>Software maintainability / extensibility capability</td>
<td>55%</td>
<td>23%</td>
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<td>Development process</td>
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<td>Risk management</td>
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<td>Project visibility</td>
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<tr>
<td>Alignment between IT &amp; business objectives</td>
<td>25%</td>
<td>46%</td>
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<td>Software quality</td>
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<td>Productivity</td>
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<tr>
<td>Ability to manage changing priorities</td>
<td>9%</td>
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Agile Influence – Professionals View

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The Complete Survey

The complete study covers also

• Concerns
  – when introducing agile methodologies
  – about agile methodologies in non-agile companies

• Experience in agile development

• Detailed figures about individual agile practices

• Reasons for adopting agile

• Barriers / difficulties when / for adopting agile

• Most important practices for successful agile projects
  and more ...
Summary

- Agile companies are more satisfied with their methodology than non-agile companies.

- Both agile and non-agile companies are more satisfied with their methodologies than their employees.

- A quarter of all non-agile companies specified that they don’t know which methodology they follow.
Contact

- Martin Kropp
  Institut für Mobile und Verteilte Systeme
  Fachhochschule Nordwestschweiz
  martin.kropp@fhnw.ch

- Andreas Meier
  Institut für angewandte Informationstechnologie
  Zürcher Hochschule für Angewandte Wissenschaften
  mee@zhaw.ch