Agilefant:
Open Source Tool Support for Managing an Agile Development Portfolio

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Software Process Research Group
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Agenda

- What is the "development portfolio"?
- What is Agilefant and what does it do?
- Who have adopted Agilefant?

- Questions and Comments
What is the “Development Portfolio”?

An example:

Product development and/or technical resources that require attention from the set of ongoing and upcoming activities.
#1: Agilefant 2.0 (major release)  

#2: HyperCalendar (minor release)  

#3: Solving a problem at customer A  

#4: Agilefant Roadmapping support for Customer B  

#6: Training at customer B  

#7: 2 lectures at the University (upcoming)  

On hold, inactive or waiting for launch:  

GUI facelift  

Advanced user mgmt for Customer C  

Warranty repairs for customer B  

In sales:
Vision

Agilefant Establishes a symbiotic relationship between industry and research

Industrial Mission
To provide a solid solution for planning, monitoring and controlling iterative and incremental software development

Research Mission
To support software engineering research in increasing understanding and knowledge of iterative & incremental software development
Vähäniitty, Lassenius, Rautiainen & Pekkanen: Long-term Planning of Development Efforts by Roadmapping - a Model and Experiences from a Small Software Company (PDF, presentation slides). In the proceedings of Euromicro 2009 Software Engineering and Advanced Applications (SEAA)


Lehtola, Kauppinen, Vähäniitty & Komssi: Linking business and requirements engineering: is solution planning a missing activity in software product companies? Requirements engineering journal, Special issue RE’07 best papers, Volume 14, Number 2 / June, Springer-Verlag 2009


Vähäniitty, J. "A Tentative Framework for Connecting Long-Term Business and Product Planning with Iterative & Incremental Software Product Development". In proceedings of the 7th International Workshop on Economic-Driven Software Engineering Research (EDSER-7) at ICSE 2005, St. Louis, USA, 2005


What does Agilefant do?

- Iteration management
- Release management
- Project portfolio management
- Daily work
- Timesheets

Let’s take a brief look at each
### Iteration management

#### Stats

- **Effort left:** 3h
- **Original estimate:** 7h 15min
- **Story points:** 51
- **Spent effort:** 4h 30min
- **Velocity:** 1h 49min / day
- **Stories done:** 100% (9 / 9)
- **Tasks done:** 93% (42 / 44)

### Stories

<table>
<thead>
<tr>
<th>Name</th>
<th>Points</th>
<th>State</th>
<th>Responsibilities</th>
<th>EL</th>
<th>OE</th>
<th>ES</th>
<th>Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITECH Focus issue on autoloc</td>
<td>4</td>
<td>Done</td>
<td>Paci</td>
<td></td>
<td></td>
<td></td>
<td>Edit</td>
</tr>
<tr>
<td>Removing backlogs</td>
<td>1</td>
<td>Done</td>
<td>Reko</td>
<td></td>
<td></td>
<td></td>
<td>Edit</td>
</tr>
</tbody>
</table>

### Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>State</th>
<th>Responsibilities</th>
<th>EL</th>
<th>OE</th>
<th>ES</th>
<th>Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removing iterations @ project page</td>
<td>Done</td>
<td>Reko</td>
<td>0h</td>
<td>1h</td>
<td></td>
<td>Edit</td>
</tr>
<tr>
<td>Removing projects @ project page</td>
<td>Done</td>
<td>Reko</td>
<td>0h</td>
<td>0.5h</td>
<td></td>
<td>Edit</td>
</tr>
<tr>
<td>ITECH Overall structural html rewrite</td>
<td>8</td>
<td>Done</td>
<td>Reko</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Story splitting</td>
<td>16</td>
<td>Done</td>
<td>Paci, Reko</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITECH BUG: Story sorting issues</td>
<td>3</td>
<td>Done</td>
<td>Paci</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Improving the user selector</td>
<td>10</td>
<td>Done</td>
<td>Reko</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITECH Remove the old js validation plugin / rewrite the create dialog</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Menu improvements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Logging effort for stories (a sample for team fiorano)</td>
<td>Done</td>
<td>Paci</td>
<td></td>
<td></td>
<td></td>
<td>Edit</td>
</tr>
</tbody>
</table>

### Tasks without a story

- Removing iterations @ project page
- Removing projects @ project page
- ITECH Overall structural html rewrite
- Story splitting
- ITECH BUG: Story sorting issues
- Improving the user selector
- ITECH Remove the old js validation plugin / rewrite the create dialog
- Menu improvements
- Logging effort for stories (a sample for team fiorano)
A closer look at the burndown

Scope changes

The burndown

Reference velocity

Predicted velocity
Release management

Under work in ongoing sprint(s)

To be split and worked on in upcoming sprint(s)

Done

Ongoing iterations

Upcoming iterations

Past iterations

A closer look at the burn-up...
Planned scope

Release management

Project burnup

Story points

Date

Work planned  Work done
- Unlimited story hierarchy
- Working on...
  - Visualising the hierarchy
  - Re-structuring the hierarchy

**Release management**

**Leffingwell’s model for scaling agile**

- Theme 5: 29%
- Theme 4: 9%
- Theme 3: 10%
- Theme 2: 23%
- Theme 1: 29%

**Beta Q1/2010**

**Coming soon: Agilefant**
### Project Portfolio Management

#### Development Projects Portfolio

<table>
<thead>
<tr>
<th>Rank</th>
<th>St.</th>
<th>Deadline</th>
<th>Project Name</th>
<th>Assignees</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>2008-12-31</td>
<td>Connect (Ylläpito)</td>
<td>TNc, CST, JLj, JHe, Kla</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>2008-10-31</td>
<td>Terveyskuntayhtymä 2009</td>
<td>HMa, VV, VMa, HWa, PHe, KV, SHa, VLö, MPl, RLI, TLj, SBr, CST, HHa, JLj, PkA, JHe, Kla, HKo</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>2008-12-31</td>
<td>Support (Ylläpito)</td>
<td>JLj, VSp, SHa</td>
</tr>
<tr>
<td>4</td>
<td>2008-10-31</td>
<td>Data Collector</td>
<td>KVi</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>2013-11-30</td>
<td>CRM-rakaisu</td>
<td>VV, HWa, LLe</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2008-12-31</td>
<td>Projects (Ylläpito)</td>
<td>JLj, VV, PHe, KV, CST, MPi, VLI, RLI, TLj, SBr, SSt, SHa, HHa, JHe, JLj, PkA, JHe, Kla, HKo</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>2008-10-30</td>
<td>Data Collector II (Rakaisun jatkokehitys / pienkehitys)</td>
<td>PTö, VLo, MPl, TAs, SBr, VHe, PHe, FLi, SHa</td>
<td></td>
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<tr>
<td>8</td>
<td>2008-10-29</td>
<td>Project II</td>
<td>Jka, RLI, SBr, Pka, 3Da</td>
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<tr>
<td>9</td>
<td>2008-12-11</td>
<td>Support (Ylläpito)</td>
<td>JLj, VSp, SHa</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>2008-10-22</td>
<td>Project II</td>
<td>JLj, VSp, SHa</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>2012-12-31</td>
<td>Data Collector</td>
<td>KVi</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>2008-12-31</td>
<td>Projects (Ylläpito)</td>
<td>JLj, VV, PHe, KV, CST, MPi, VLI, RLI, TLj, SBr, SSt, SHa, HHa, JHe, JLj, PkA, JHe, Kla, HKo</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>2012-12-31</td>
<td>Projects (Ylläpito)</td>
<td>JLj, VV, PHe, KV, CST, MPi, VLI, RLI, TLj, SBr, SSt, SHa, HHa, JHe, JLj, PkA, JHe, Kla, HKo</td>
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<tr>
<td>14</td>
<td>2008-10-30</td>
<td>Siebel-konsultointi (Rakaisu ja pienkehitys)</td>
<td>PTo, VSp, KVi, SÖa</td>
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<tr>
<td>15</td>
<td>2012-06-31</td>
<td>Asiakastuki</td>
<td>VLo, VSp, PHe</td>
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<tr>
<td>16</td>
<td>2008-12-31</td>
<td>El Support (Rakaisun jatkokehitys / pienkehitys)</td>
<td>PTo, TAs, VSp, APa, SHa</td>
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<tr>
<td>17</td>
<td>2008-12-30</td>
<td>D2W &amp; RO Jaktakkehitys (Rakaisun jatkokehitys / pienkehitys)</td>
<td>PTo, TAs, VSp, APa</td>
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<tr>
<td>18</td>
<td>2008-10-30</td>
<td>Arc - Graduiat Demo (Ylläpito) (Rakaisu ja pienkehitys)</td>
<td>PTo, APa</td>
<td></td>
</tr>
</tbody>
</table>

#### Unranked Projects

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Assignees</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFSS Internet: Knowledge development</td>
<td>PTo, VSp, HKo, VV, VMa, HWa, PHe, FLi, MHe, TNo, MPl, TAs, TLj, JHe, KLa, SBr, MSp, Jka, HKo, KVi, VLo, HHa, CST, SHa, JLj, PkA,</td>
</tr>
<tr>
<td>IFSS Internet: Administration</td>
<td>PTo, VSp, HKo, VV, VMa, HWa, PHe, FLi, MHe, TiRli, TAs, TLj, JHe, KLa, SBr, MSp, Jka, HKo, APa,</td>
</tr>
</tbody>
</table>
### Daily work

**My workload**

**My work queue**

**Zoom to Work queue...**

**Tasks assigned to me from all ongoing iterations**
The trip to Paris...
Effort can be logged to:
- Tasks
- Stories
- Projects
- Iterations
- Products

Report generation & export to excel
Who have adopted Agilefant?
Adopters that we know of (10/2009)

- 5 teams in 5 organizations, 37 users
- 10 teams in 9 organizations, 73 users
- 15 teams in 9 organizations, 92+ users
- 4+ teams in 4 organizations, 62+ users

Estimated total:
- 100-120 teams
- 50-70 organizations
- 500-800 users
Some indicators...

- Visitors @ Agilefant.org

![Visitors Graph]

- Downloads

![Downloads Graph]
Positive Feedback from Reviews

- 9/2009: Joint 1st place w/IceScrum

- 2008: Joint 1st place w/Xplanner (???)
Thank You!

Questions & Comments?

http://www.agilefant.org

team@agilefant.org