Exploitable Results by Third Parties

12018 SCALARE

Scaling Software: Supporting Industry in Managing Software Scalability

Project details

<table>
<thead>
<tr>
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<tbody>
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<td>Website:</td>
<td><a href="http://www.scalare.org">http://www.scalare.org</a></td>
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## SMF Canvas tool

<table>
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<tr>
<th>Input(s):</th>
<th>Main feature(s)</th>
<th>Output(s):</th>
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</thead>
</table>
| ▪ Management team with growing pains and in a need of a software transformation  
▪ Team ready to work in workshop(s) to decide on the transitions needed. | ▪ Guides the workshop participants from defining drivers (vision/goal) to actual transitions needed to get there  
▪ Covers an analysis of the three domains organization, process, and product  
▪ Visualize measurable abilities and how they are positively affected by the transitions | ▪ A common strategy for how to change in order to meet the drivers for the software transformation  
▪ Visualization of high level transitions – listed as a to do list of actions. |

### Unique Selling Proposition(s):

- The SMF is the Map.
- The SMF Canvas tool supports you to:
  - define your Drivers – used as the Compass for how to find relevant Journeys to be inspired by (scenarios and case studies described in the book)
  - in a structured way analyze current situation in three domains (organization, process, product)
  - decide on and define needed transitions for a successful software transformation
  - use abilities to control and track

### Integration constraint(s):

- None

### Intended user(s):

- R&D managers, CIO, IT managers, Release managers

### Provider:

- The consortia

### Contact point:

- Ulf Asklund, ulf.asklund@cs.lth.se

### Condition(s) for reuse:

- The Canvas tool can be downloaded from the project home page, including a guide for how to use it
- Creative Commons license, “CC-BY-SA”

*Latest update: October 20, 2016*
# Scaling a software business - The Digitalization Journey

<table>
<thead>
<tr>
<th>Input(s):</th>
<th>Main feature(s):</th>
<th>Output(s):</th>
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</thead>
<tbody>
<tr>
<td>• Managers that lacks software knowledge</td>
<td>• An experience database of industrial best practices and tools to support enterprises in their digital transformations.</td>
<td>• Readers have a tool for driving a digitalization journey</td>
</tr>
<tr>
<td>• Managers that lacks knowledge regarding how to drive a digital business transformation</td>
<td>• The tools are the Map, the Compass, the Journeys including 5 Business Drivers, 8 Scenarios and 19 case studies</td>
<td>• Readers have awareness and inspiration from real cases</td>
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<td>• Understanding of topics to be considered for a successful transformation driven by software within organizations’ offers</td>
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**Unique Selling Proposition(s):**

- An experience database of industrial best practices and tools to support enterprises in their digital transformations when software is becoming a business differentiator factor.
- Learning from experiences documented on a standard way the digital transformation journey on the usage of the Map, the Compass, the Journeys including 8 Scenarios and 19 case studies

**Integration constraint(s):**

- None

**Intended user(s):**

- R&D managers, CIO, CTO, PMO Manager, IT managers, Release managers
- The consortia

**Provider:**

- Henrik Cosmo, [henrik.cosmo@gmail.com](mailto:henrik.cosmo@gmail.com)

**Contact point:**

- Henrik Cosmo, [henrik.cosmo@gmail.com](mailto:henrik.cosmo@gmail.com)

**Condition(s) for reuse:**

- Book can be downloaded from Vinnova web page
- The book can be bought from Springer

_Updated: October 10, 2016_
Open Source Maturity Model and Scenarios

<table>
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<tr>
<td>- Executives and their software organization whose drivers (business challenges) indicates that they have to address strategies which includes Open Source Software</td>
<td>- The Open Source Maturity Model is foremost a management communication tool in discussing the level of maturity (spanning from 1 to 5) in addressing the presence, management and direction of Open Source Software in an Organization.</td>
<td>- The first OSS Scenario (“Engineering driven”, level 1-3) results in an organization that is enabled to extract product value from Open Source communities to the offering.</td>
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<tr>
<td>- And / or have got Open Source Software, voluntary or not, introduced in their offering and/or market.</td>
<td>- From the Open Source Maturity Model two SMF Open Source Scenarios have been developed, explaining the patterns (transition activities) that have to be implemented in order to achieve higher maturity.</td>
<td>- The second OSS Scenario (“Business driven, level 3-5) guides in what to implement for developing an own orchestrated eco-system which allows for extracting alternative revenue streams.</td>
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Unique Selling Proposition(s):
- Its ease of use and understanding has been tried in the Open Source case studies conducted by SCALARE, with the corresponding Scenario patterns repeatedly confirmed.
- The Open Source Maturity Model is in active use at Sony Mobile. It was validated against similar models, with flagging colors, by an external party in 2014.

Integration constraint(s):
- None

Intended user(s):
- Executive management (CTO, CIO), including business development management, as well as R&D and IT managers.

Provider:
- Sony Mobile Communications AB

Contact point:
- Carl-Eric Mols, carl-eric.mols@sonymobile.com

Condition(s) for reuse:
- Full Scenarios, Canvas and Patterns descriptions will be included in the SCALARE Report
- Creative Commons license, “CC-BY-SA”

Latest update: October 10, 2016
### Continuous Delivery Assessment Model

<table>
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<tbody>
<tr>
<td>▪ SW organizational capability to release SW&lt;br&gt;▪ Infrastructure and processes for supporting SW development and product/service release cycle</td>
<td>Continuous Delivery (CD) is a collective term for a range of methods that make it possible to deploy and provision new SW product versions automatically&lt;br&gt;  ▪ The CD Assessment model defines different maturity levels for various disciplines within the software development life cycle (SDLC) (code, build, test, deliver) necessary to deliver SW fast with good quality&lt;br&gt;  ▪ The model can be used to visualize and assess the initial maturity but also to define a stepwise roadmap and plan for how to increase the maturity&lt;br&gt;  ▪ An assessment process is defined describing how to use the model and what workshops etc. needed to come up with a result</td>
<td>▪ The model will show initial maturity and a plan for how to increase your maturity&lt;br&gt; ▪ Overall objective is a quicker and more automatic release of new features in a SW product/service by enhancing the delivering of business value</td>
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| Unique Selling Proposition(s): | ▪ A standardised CD assessment can be done in 1-2 weeks with the right experts<br> ▪ The visualization of the result is a powerful tool for managers and decisions makers to identify organizational improvements |
| Integration constraint(s): | ▪ None |
| Intended user(s): | ▪ R&D managers, CIO, CTO, Portfolio managers, IT managers, Release managers |
| Provider: | ▪ Softhouse Consulting |
| Contact point: | ▪ Anders Sixtensson, asi@softhouse.se |
| Condition(s) for reuse: | ▪ A free license to use the model and the assessment process will be provided if contacting Softhouse. |

*Latest update: October 3, 2016*
# Pattern Tool

<table>
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<th>Input(s):</th>
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<th>Output(s):</th>
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</table>
| - Case study tool template for documenting and sharing experiences | - Software patterns in 3 scaling domains by providing common details for comparison  
  o Problem: brief description of the problem being addressed in the pattern  
  o Solution: brief description of the proposed solution  
  o Picture (optional): this is a graphical representation of the problem/solution context  
  o Metadata: This provides further detail on how the pattern was derived using characteristics such as the following: type, strength and source of evidence, domain, which of the three SCALARE dimensions to which it applies  
  o Related Patterns: Any relevant patterns that should also be considered in addition to the present one  
  o References: Reference to further detail explaining the source of the pattern | - A web based documented case study with searchable metadata to easily identify solutions for common scenarios |

### Unique Selling Proposition(s):
- To serve as a decision support system (DSS) that would be used by a software project manager to gain insights to inform decision making in relation to various software scaling scenarios  
- The case studies in each of the three scaling domains (1. Organization, 2. Products and Services, 3 Processes and Methods) researched over the course of the SCALARE project have been converted into scenario patterns  
- Patterns are condensed two-page descriptions of a particular scenario and follow a standard format  
- Over 50 patterns have been added to the SCALARE tool

### Integration constraint(s):
- GITIT Wiki  
- HASKELL  
- PROLOG  
- GIT

### Intended user(s):
- MsC and PhD students for tool evolution
### Pattern Tool

<table>
<thead>
<tr>
<th>Provider:</th>
<th>Limerick University - Lero - Irish Software Research Centre</th>
</tr>
</thead>
</table>
| Contact point: | Brian Fitzgerald, [Brian.Fitzgerald@ul.ie](mailto:Brian.Fitzgerald@ul.ie)  
Klaas Jan Stol, [Klaas-Jan.Stol@ul.ie](mailto:Klaas-Jan.Stol@ul.ie) |
| Condition(s) for reuse: | In addition to the SCALARE project, the Aspire tool has also been drawn on in the EU FP7 project, FESTA (Female Empowerment in Science and Technology Academia)\(^1\)  
- Many of the underpinning components are already open source  
- A decision has been taken to make the tool available under an open source license |

\(^1\) [http://www.festa-europa.eu/](http://www.festa-europa.eu/)
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<tr>
<td>Organization where software has become a strategic enabler</td>
<td>The consultancy services are divided into three blocks – Awareness, Assessment and Transformation. These services are provided by SCALARE teams of typical 2-4 senior consultants with different skills and background</td>
<td>Improved business performance as defined by business drivers and wanted position</td>
</tr>
</tbody>
</table>
| A decisive management team wanting guidelines and support for a software scaling journey | - Awareness. Different workshops and training material to understand possibilities and challenges. Topics could be Basic Software engineering, Digitalization, Open source, Scaling Agile, etc.  
- Assessment. Workshops(s) with decisions makers using SMF Canvas to agreeing on Business drivers, As-is, Wanted position and defining a transformation roadmap  
- Transformation. Training material, process/methods, guidelines and coaching on what has been identified in the Assessment  
  - Digitally enabled business models  
  - Scaling Agile  
  - Open source – technical and business  
  - Continuous delivery  
  - Servitization  
  - etc | |

**Unique Selling Proposition(s):**
- SCALARE Consultancy is based on a holistic view covering aspects of business, organization, product/service and process/methods.
- Every organization is unique with their as-is situation and top-3 business drivers. SCALARE assessments using the Canvas handle this uniqueness without having predefined solutions.

**Integration constraint(s):**
- None

**Intended user(s):**
- Management team, R&D managers, CIO, IT managers

**Provider:**
- Softhouse Consulting
- Addalot

**Contact point:**
- Anders Sixtensson, asi@softhouse.se
### SCALARE Consultancy Services

<table>
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</tbody>
</table>

*Latest update: October 25, 2016*