The Role of Architecture in a Scaled Agile Organization – A Case Study in the Insurance Industry

Christina Schimpfle, Master’s Thesis – Initial Presentation, 27.03.2017
Overview

1. Motivation and Problem Statement
   • “Old World” vs. “New World”
   • Research Questions & Research Design

2. Related Work
   • Scrum in Large Organizations (SAFe, LeSS) & Domain-Driven Design (DDD)
   • Domain-Driven Design: Strategic & Tactical Design

3. Current Results
   • How DDD supports SAFe & LeSS

4. Next steps
   • Development of a Framework for using DDD, SAFe & LeSS in our Context
   • Roadmap
1. Motivation and Problem Statement

„Old World“ and „New World“

„Old World“

• Focus on Standardization
• Process over Product
• Top-down & Governance
• Predefined Architecture

„New World“

• Focus on Innovation
• Product over Process
• Bottom-up
• Architecture emerges

What is the Role of Architecture in Scaled Agile Organizations?
1. Motivation and Problem Statement
Research Questions and Research Design

1. What is the Role of Architecture in Scaled Agile Organizations?

2. How can Domain-Driven Design be adopted in Agile Development Teams?

3. Which Roles, Artifacts, Tools and Processes are required for Scaled Domain-Driven Design?
2. Related Work
LeSS, SAFe and DDD

**Domain-Driven Design (DDD)**
Design and Development Approach
Collaboration of Domain experts & Developers
Common Language
Bounded Contexts determine Architecture & Team Organization

**Scaled Agile Framework (SAFe)**
Alignment, Collaboration & Delivery for many agile Teams
Many Scrum Teams, many Products
Emergent Design vs. Intentional Architecture

**Large-Scale Scrum (LeSS)**
Organizational Design Framework
Scrum applied to Development of a large Product
Agile Architecture

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2. Related Work

Domain-Driven Design: Strategic and Tactical Design

**Strategic Design**
- Every Business consists of Bounded Contexts
- Context Map to model Relationships between Bounded Contexts
- Goal: One Subdomain of the Business corresponds to a Bounded Context

**Tactical Design**
- Creating Effective Models of a Bounded Context
- One Team in each Bounded Context
- Creating and practicing an Ubiquitous Language in each Bounded Context
- Domain modeling Building Blocks

Image: https://dev.otto.de/2013/04/14/architekturprinzipien-2/
3. Current Results
How DDD supports SAFe and LeSS

**DDD**

- Cross-functional Teams & Customer Centric
- Creative Collaboration
- Models make Logic explicit
- Multiple Products
- Independency is desired
- Ubiquitous Language
- Focus on Business Logic
- Continuous Improvement

**SAFe**

- DDD can help
- DDD can help
- DDD can help
- DDD can help

**LeSS**

- One Product
- Collaboration between Teams is desired
- DDD can help
- DDD can help
- DDD can help

**Combination of the frameworks and DDD for the case study!**

5. https://less.works/less/technical-excellence/architecture-design.html
Which process steps need to be taken?

- Domain model definition
- Pre-study
- ...

Which artifacts can be helpful and have to be developed?

- Domain Model
- Sprint Backlog

Who takes part in the process with which role?

- Developer
- Enterprise Architect
- Project Manager
- Product Owner

Which tools should be used to support the process?

- iteraplan
- JIRA
- Excel
4. Next Steps

Roadmap

Registration 15.04.2017

Feb  Mar  Apr  May  Jun  Jul  Aug  Sep

Today

Submission 15.09.2017

Literature Research
Pre-Study
Framework Definition
Framework Evaluation
Writing
Any Questions?
Sources


http://www.scaledagileframework.com/agile-architecture/

https://less.works/less/technical-excellence/architecture-design.html