

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

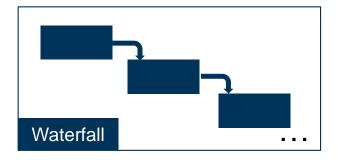
"Old World" and "New World"

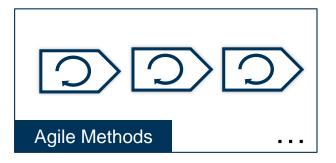


"Old World"

&

"New World"





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

Architecture

- 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



Literature



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

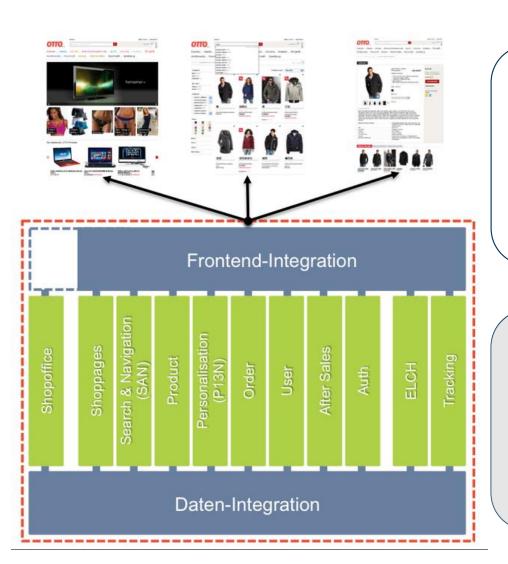
Scrum applied to Development of a large Product

Agile Architecture

2. Related Work

Domain-Driven Design: Strategic and Tactical Design



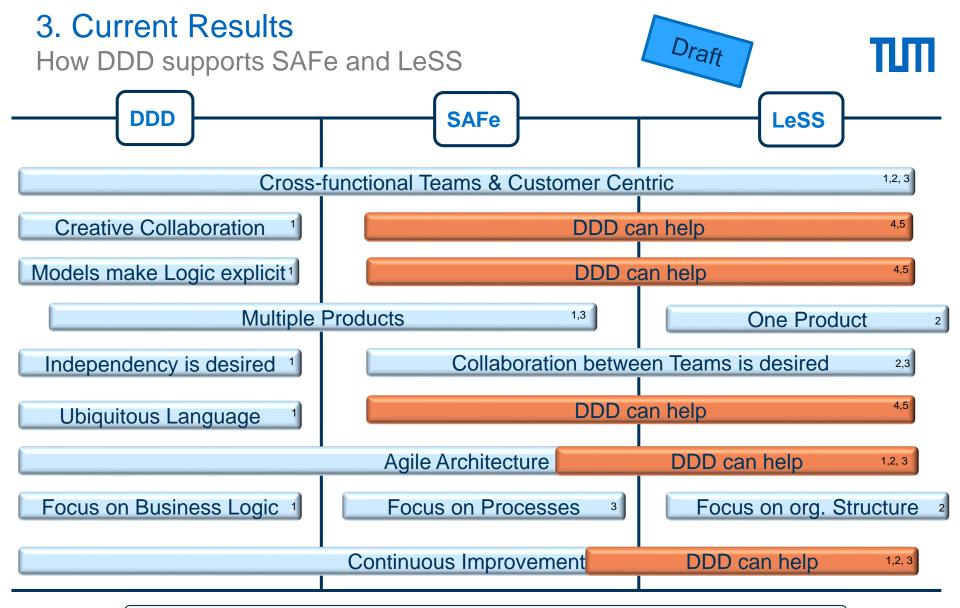


Strategic Design

- 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



Combination of the frameworks and DDD for the case study!

^{1.} Evans, E. (2003). . Domain-Driven Design: Tackling Complexity in the Heart of Software. 4. http://www.scaledagileframework.com/agile-architecture/

^{2.} Larman;, C. & Vodde, B. (2016). Large-Scale Scrum: More with LeSS.

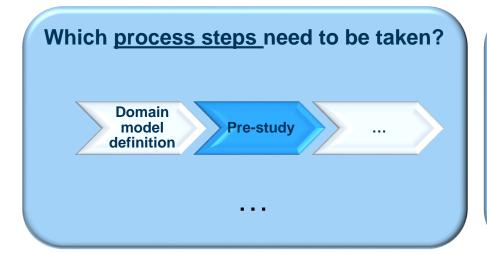
^{3.} Scaled Agile Inc., (2016). SAFe® 4.0 Introduction - Overview of the Scaled Agile

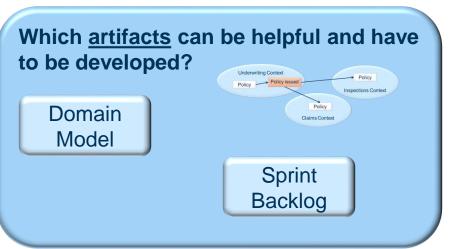
^{5.} https://less.works/less/technical-excellence/architecture-design.html

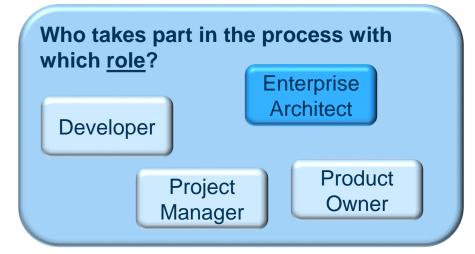
4. Next Steps

A framework for a large scale organization











4. Next Steps Roadmap







Any Questions?

Sources



Evans, E. (2003). . Domain-Driven Design: Tackling Complexity in the Heart of Software. Addison Wesley.

Evans, E. (2015). Domain-Driven Design Reference – Definitions and Pattern Summaries.

Larman;, C. & Vodde, B. (2016). Large-Scale Scrum: More with LeSS. Addison-Wesley Professional.

Millett, S. (2015). Patterns, Principles and Practices of Domain-Driven Design. John Wiley & Sons.

Scaled Agile Inc., (2016). SAFe® 4.0 Introduction - Overview of the Scaled Agile Framework for Lean Software and Systems Engineering (White Paper).

Vernon, V. (2013). *Implementing domain-driven design*. Addison-Wesley.

Vernon, V. (2016). Domain-driven design distilled. Addison-Wesley Professional.

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

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