



Value-based Information Systems Planning

Value-based Business-IT Alignment (VITAL)

Subproject: VITAL/design

Aligning Information Systems to the business context is a difficult task, which got a new dimension with the advent of networked value constellations. This doctoral project aims at bringing the cross-organizational Information Systems landscape in line with value-based business requirements.

Research Problem

Planning the Information Systems landscape of cross-organizational settings, based on value-based requirements, is an unsolved research problem. Traditional planning methods are mostly data- and process-oriented, start from the 'scratch' and do not account for legacy systems.

The conceptualization of such an Information Systems landscape for a multi-actor network involves often design decisions to constitute the best architectural choice among conceivable alternatives.

Research Approach

Problem Investigation

- knowledge problems
- world problems

Solution Specification

- methodology development

Solution Validation

- internal validation
- external validation

Action Plan

Literature Review

Expert Talks

ISP Definition

Case Studies

Redefine ISP

Validation

Analysis and Summing up

Research/Design Questions

- How can we plan and design the Information Systems landscape of a networked value constellation?
 - *What are the relationships between value-based requirements and the Information Systems landscape?*
 - *How can consistency across requirements and landscape elements be achieved?*
- How are trade-offs balanced between the value network's services deliver and the costs incurred by the architecture as part of the planning process?
 - *How to decide between different alternatives?*
 - *How does the power of individual business actors impact planning and decision-making processes?*

Expected Results

- A validated Information Systems Planning methodology that takes value-based requirements into account is the primary result of our work, including:
 - *Guidelines for applying the methodology based on the driving force of the networked value constellation and the power of the participating (independent) business actors.*
 - *A cost-benefits assessment method for evaluation of architectural choices.*

Industrial Partners

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