Technische Universität München

sebis

Scenario-based Analysis of Collaborative Enterprise Architecture Management Tools

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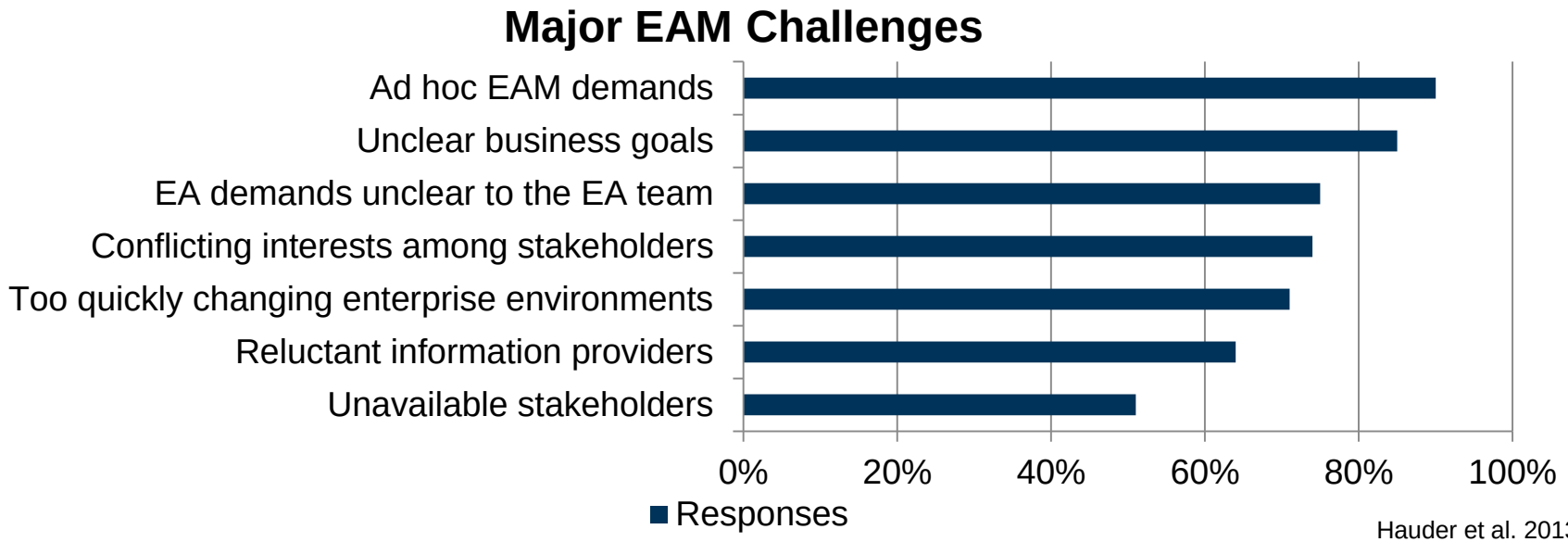
Agenda

1. Motivation
2. Research Approach
3. Collaborative EAM
4. Tool support for Collaborative EAM
5. Outlook

1. Motivation



Hauder et al. 2013

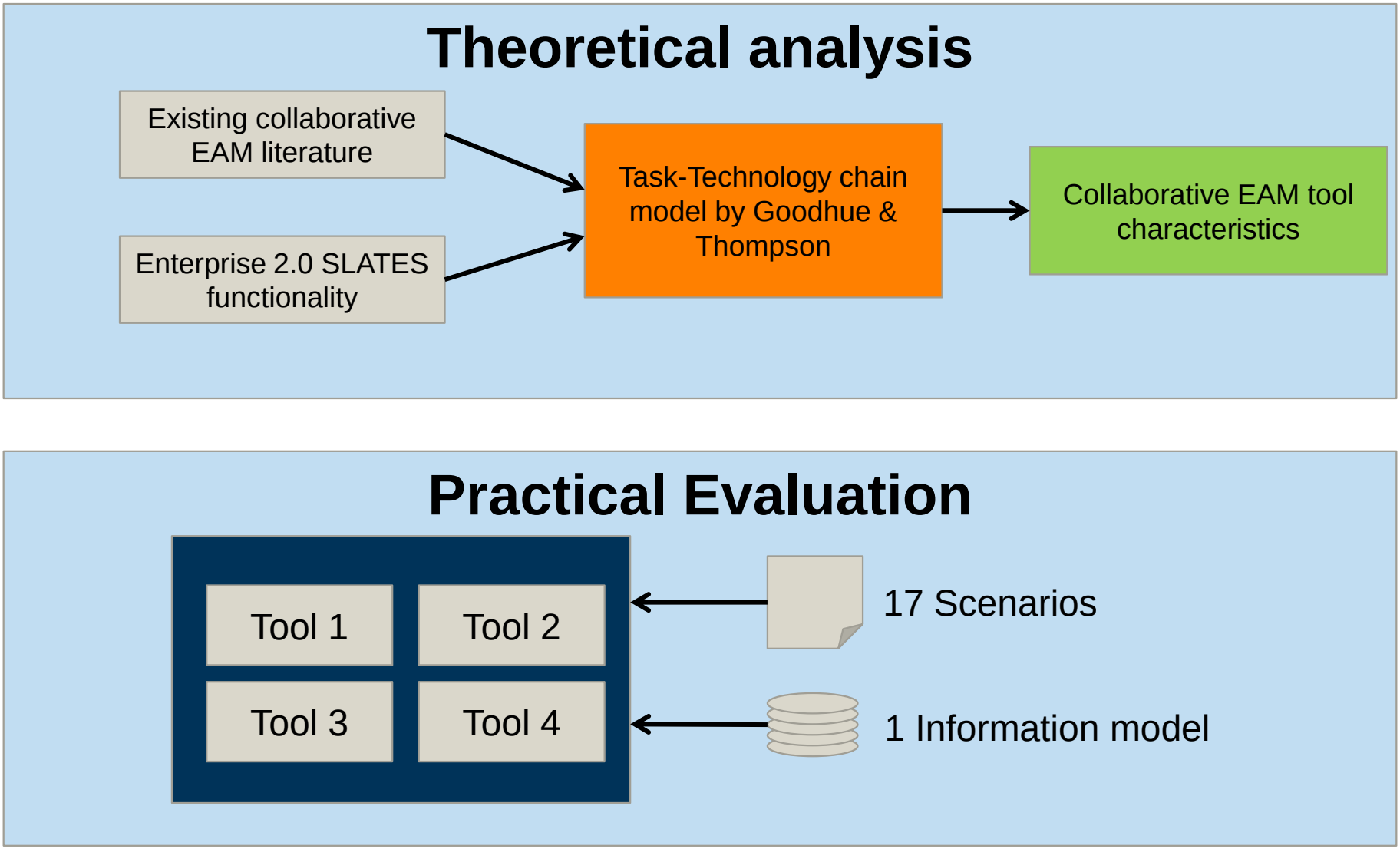
Major problems:

- Missing communication among stakeholders
- Unclear demands
- Changes occurring at high pace

Collaborative EAM

Tool support for collaborative EAM?

2. Research Approach



2. Research Approach – Scenario Overview

Specific Functionality Scenarios

- Importing, Editing, and Validating
- Creating Visualizations
- Interacting with, Editing of, and Annotating Visualizations
- Communication and Collaboration Support
- Flexibility of the Information Model
- Handling large scale Application Landscapes
- Reporting
- Usability

EA Management Support Scenarios

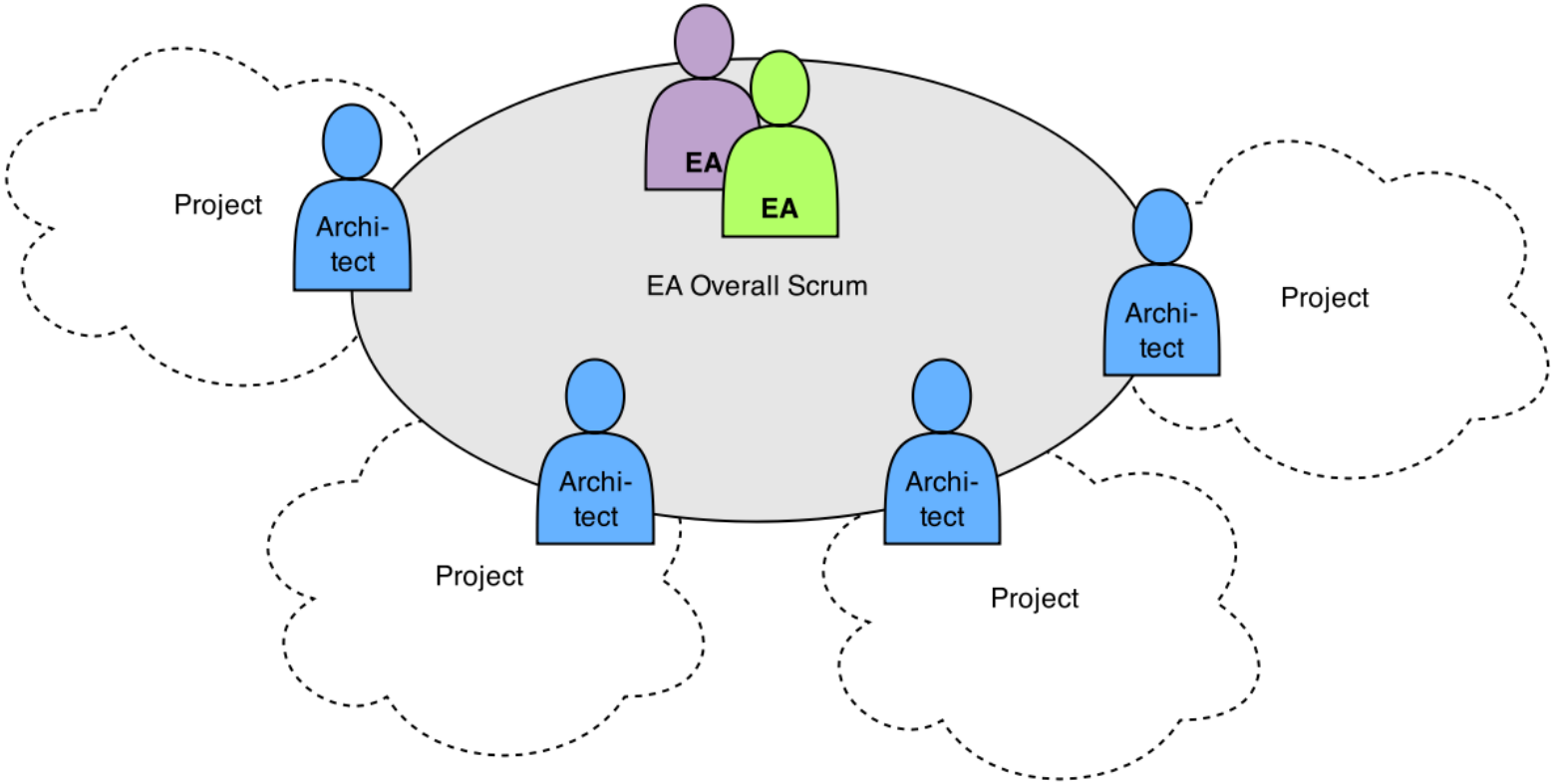
- Landscape Management
- Demand Management
- Project Portfolio Management
- Synchronization Management
- Strategies and Goals Management
- Business Object Management
- SOA Transformation
- IT Architecture Management
- Infrastructure Management

EAMTS 2008

3. Collaborative EAM Guidelines

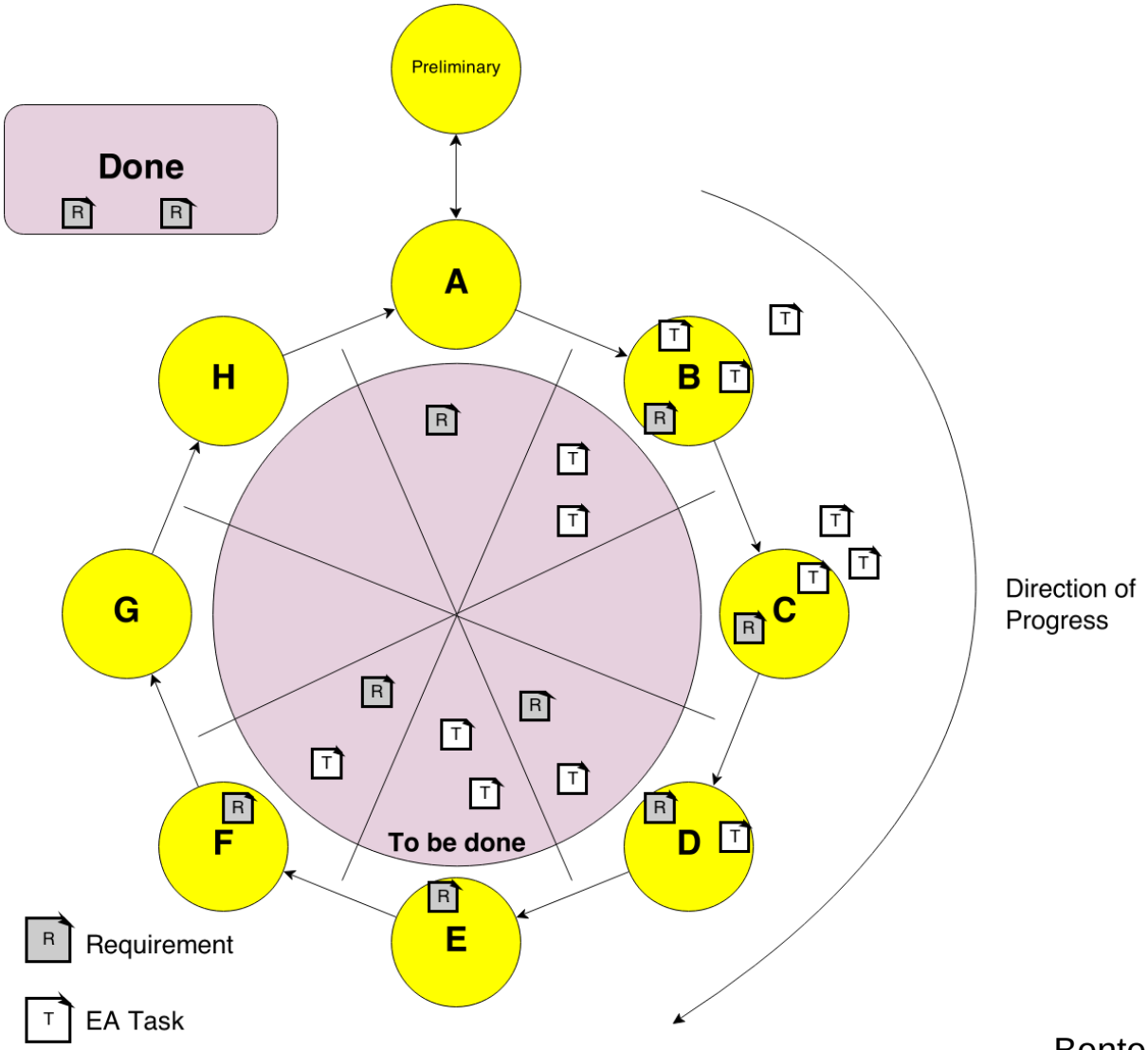
Bente et al. 2012

3. Collaborative EAM – Example: EA Overall Scrum



Bente et al. 2012

3. Collaborative EAM – Example: EA Kanban Board



Bente et al. 2012

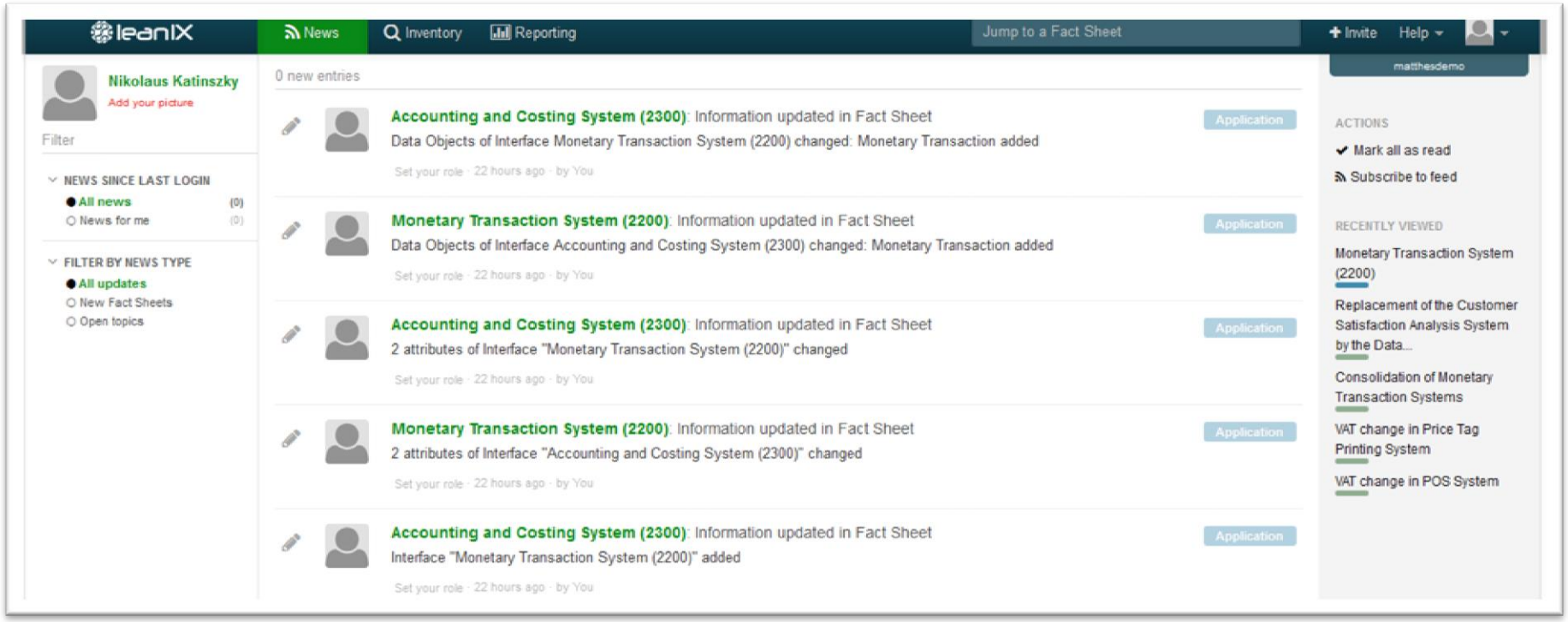
4. Collaborative EAM Tools – Characteristics

Characteristic	Purpose	Implementation options
Search	Quick and easy content access	Well-positioned search bar
Links	Links Interconnection of architectures and objects	Linked objects provided through drop-down lists, social bookmarks
Authoring possibility	User-based knowledge gathering	Comment and feedback functionality, blogs
Tag feature	Structured content	Tagging service
Signal feature	Notifications on EAM updates	Feeds, subscriptions, user notifications
Lean User Interface	Effective and easy to use EAM tool	Simple user interface with good usability and reduced complexity

4. Collaborative EAM Tools – Evaluation results

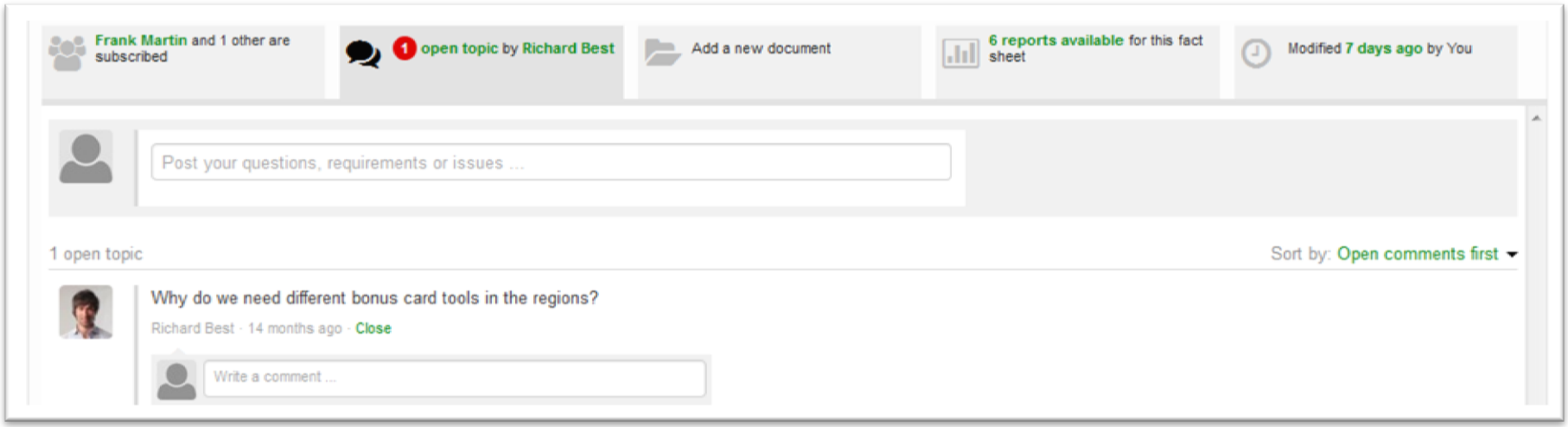
Collaborative Characteristic	Bizzdesign Architect	Iteraplan	leanIX	SAP Powerdesigner
Search	✓	✓	✓	✓
Links		✓	✓	
Authoring			✓	
Tagging			✓	
Signaling		✓	✓	
Lean UI		(✓)	✓	

4. Collaborative EAM Tools – leanIX



Signal: newsfeed & object subscription

4. Collaborative EAM Tools – leanIX



Authoring: open topic functionality

4. Collaborative EAM Tools – leanIX

Tag functionality

4. EAM Tools – Scenario Comparison

Scenario	Bizzdesign Architect	Iteraplan	leanIX	SAP Powerdesigner
Importing, Editing, and Validating				
Creating Visualizations				
Interacting with, Editing of, and Annotating Visualizations				
Communication and Collaboration Support				
Flexibility of the Information Model				
Handling large scale Application Landscapes				
Reporting				
Usability				
Landscape Management				
Demand Management				
Project Portfolio Management				
Synchronization Management				
Strategies and Goals Management				
Business Object Management				
SOA Transformation				
IT Architecture Management				
Infrastructure Management				

 = barely implemented  = partially implemented  = fully implemented

4. EAM Tools – Categorization

Dimension	Category	Bizzdesign Architect	Iteraplan	leanIX	SAP Powerdesigner
Degree of flexibility	Information model-centered				(✓)
	Method-centered	✓	✓		
	Process-centered		✓	✓	
Customization effort	EAM off the shelf solution	✓	✓	✓	✓
	EAM platform		✓		
Integration approach	Automatic integration				
	Manual import	✓	✓	✓	✓
EAM type	Traditional EAM	✓	✓	✓	✓
	Collaborative EAM		(✓)	✓	

5. Outlook

- Evaluate further EAM tools on collaborative characteristics
- Investigate application of collaborative tool characteristics in practice
- Analyze potential tradeoff between complexity reduction and user-specific configuration options
- Use tool evaluation results for further publications (EAMTS2014)

Thank you for your attention.

Questions?

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- Hauder, M.; Roth, S.; Schulz, C.; Matthes, F.: Organizational Factors Influencing Enterprise Architecture Management Challenges. In ECIS 2013 Completed Research. 2013.
- Matthes, F.; Buckl, S.; Leitel, J.; Schweda, C. M.: Enterprise Architecture Management Tool Survey 2008. Techn. Univ. München. München, Germany. 2008.

Backup – Mapping EAM tasks with SLATES features

	Search	Links	Authoring	Tagging	Extensions	Signaling
Defining the IT Strategy	✓	✓				✓
Modeling the Architecture	✓	✓	✓	✓	✓	✓
Evolving the IT Landscape	✓	✓	✓	✓	✓	✓
Assessing and Developing Capabilities	✓		✓	✓		✓
Developing and Enforcing Standards and Guidelines	✓	✓	✓	✓	✓	✓
Monitoring the Project Portfolio	✓	✓	✓	✓		✓
Leading or Coaching Projects	✓		✓			✓
Managing Risks Involved in IT	✓	✓		✓		✓