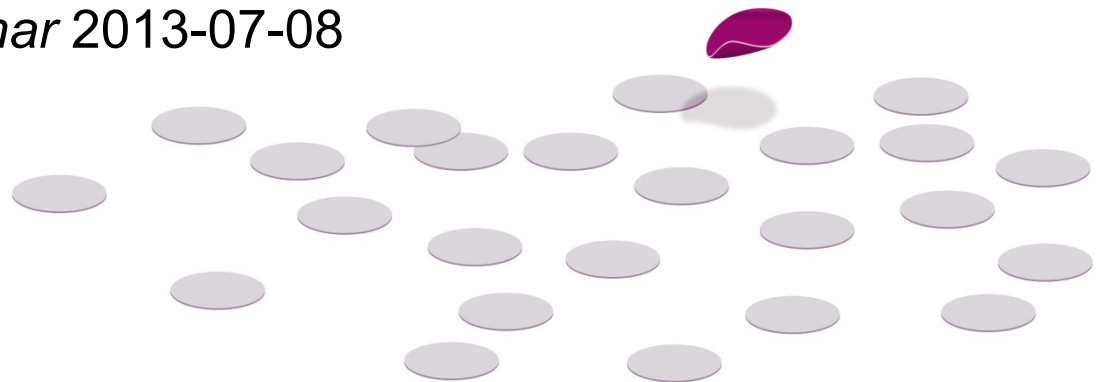


# A guide for enterprise-specific design of EA models

Master's Thesis Markus Bauer – Kickoff Presentation

sebis *Advanced Seminar* 2013-07-08





|                         |  |
|-------------------------|--|
| <b>Title</b>            | A guide for enterprise-specific design of EA models<br>Ein Leitfaden zur unternehmensspezifischen<br>Ausgestaltung von EA Modellen |
| <b>Supervisor</b>       | Prof. Dr. Florian Matthes  |
| <b>Advisors</b>         | Dr. Sabine Buckl (iteratec GmbH)   |
|                         | Sascha Roth (sebis)  |
|                         | Dr. Christian M. Schweda (iteratec GmbH)   |
| <b>Start</b>            | 2013-05-15   |
| <b>Deadline</b>         | 2013-11-15   |
| <b>Industry partner</b> | Iteratec GmbH (Unterhaching)   |



- Founded in 1996
- Located in Munich, Frankfurt, Hamburg, Stuttgart, Vienna and Zurich
- ~190 employees
  
- Focus areas
  - ➔ Realization of IT-Projects
  - ➔ Technology-Consulting
  - ➔ **IT-Management-Consulting** (EAM introduction and consulting projects)
    - Best Practice EAM
    - iteraplan



- Set-Up & Context
- Problem Description
- Goals
- Course of action
- Status

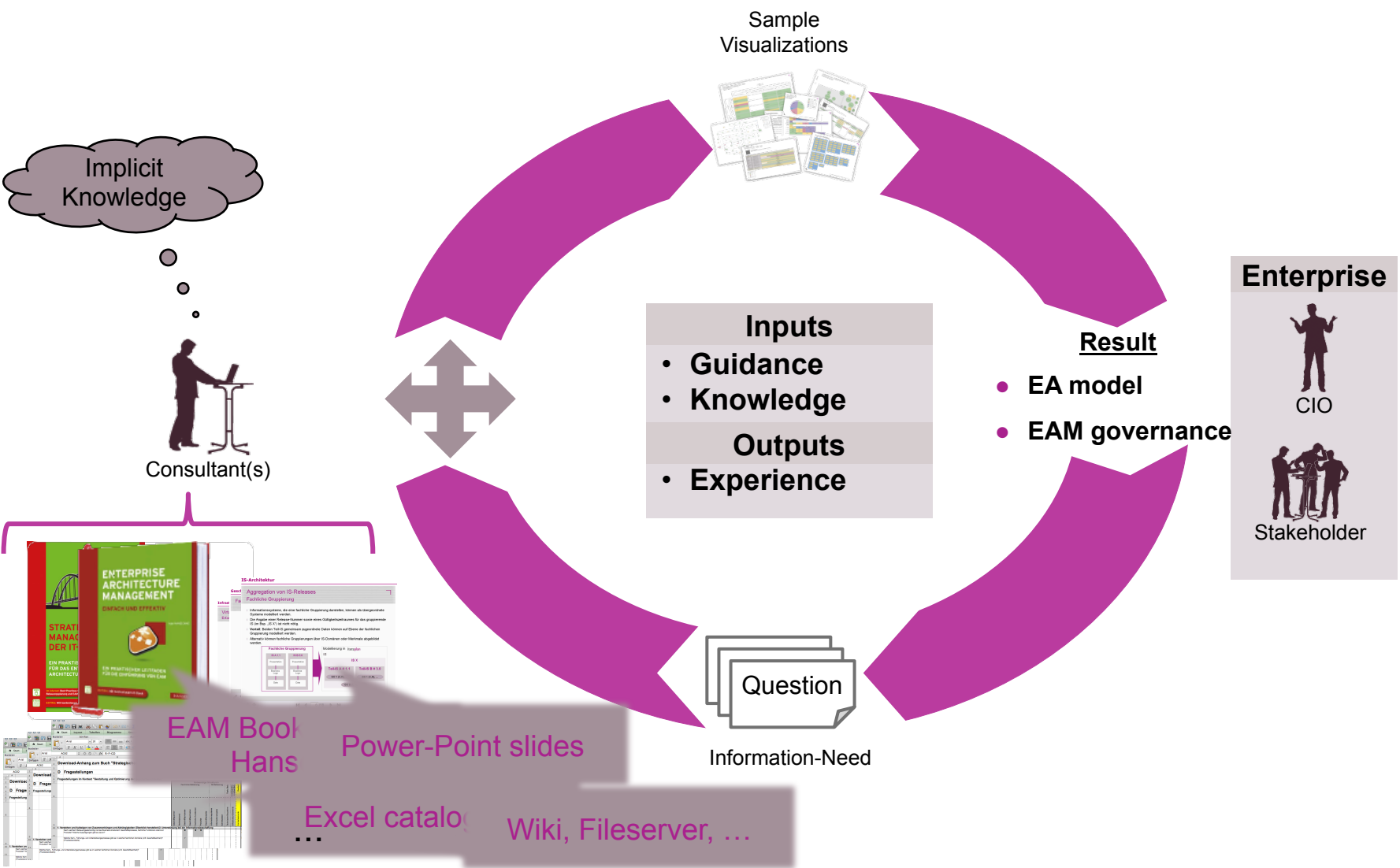
## EAM frameworks need to be adapted to the enterprise

- EAM is enterprise specific
  - EAM-Goals and -Questions
  - Visualizations
  - EA model
- BEAMS/EAMPC
  - Collection of EAM concerns
  - Link to I- and V-Building-Blocks allows composition of enterprise specific EA-Models
- Best-Practice-EAM (by Inge Hanschke)
  - One big EA model
  - Maturity-Level model
  - Model adaptations/selection described abstractly

- Consulting-Knowledge is
  - distributed among different sources
  - only to a certain degree documented explicitly
- ⇒ Need for a new Knowledge Management approach
  - consolidation
  - knowledge reuse
  - QS and risk management

# EAM consulting

## Knowledge sources, used during projects





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- Conceptual model
  - EAM contingency factors (Maturity Level, Stakeholder, ...)
  - Visualizations (V-Patterns)
  - Model Elements (I-Patterns)
    - Types
    - Relationships
    - Attributes
- Knowledge Base with initial data
  - Collection of all known instances for these entities
- Knowledge Management Approach
  - consolidation
  - knowledge reuse
  - QS and risk management



- Set-Up & Context
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# Project Plan

## Course of Action



15/5

today

... 11/15

Source Analysis

Questionnaire

Dev

Survey

Evaluation

Conceptual Modelling

Knowledge Base (initial Data)

Product Vision Workshops

Data Collection

Describe KM Approach

Writing









Implementation

Survey



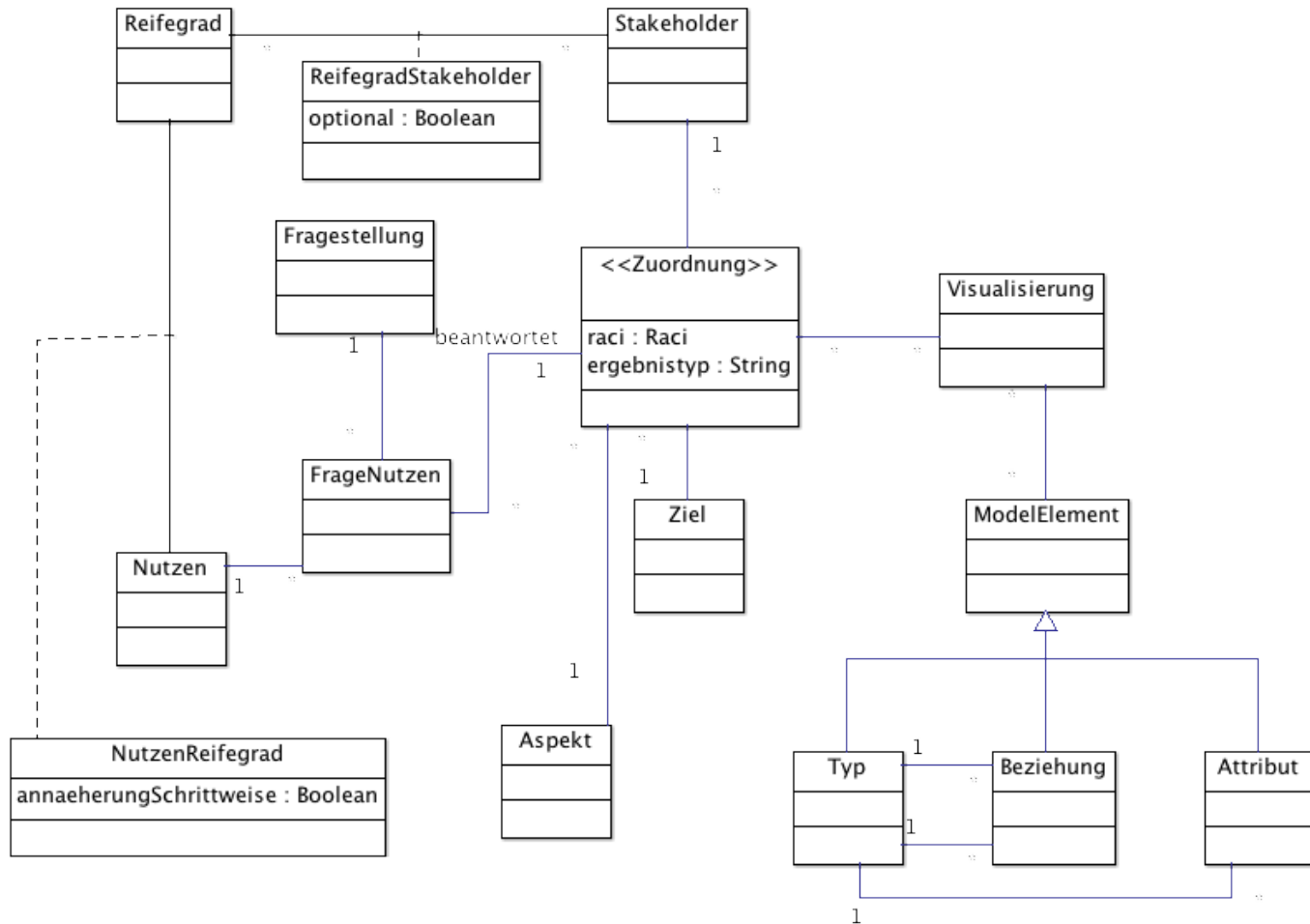
- Set-Up & Context
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- Confirm completeness of identified knowledge sources 
- Measure information/knowledge quality of sources 
  - Provide possibility to measure success of new approach 
- Check hypotheses 
  - Project documentation and knowledge reuse not standardized 
  - Demand for explicit documentation is 
    - Present overall 
    - Is negatively correlated to a consultant's experience 

# Conceptual Model

## State of the art – Most important entity types





- Relationship Visualisierung-ModelElement
- Clarify necessity of additional entity candidates
  - Industry sector
    - Products vs. services
  - Organization form
    - Divisions, internationality, structure
    - Customer segmentation
  - Semantics (e.g. TypeSemantics)
  - ...

... any questions?

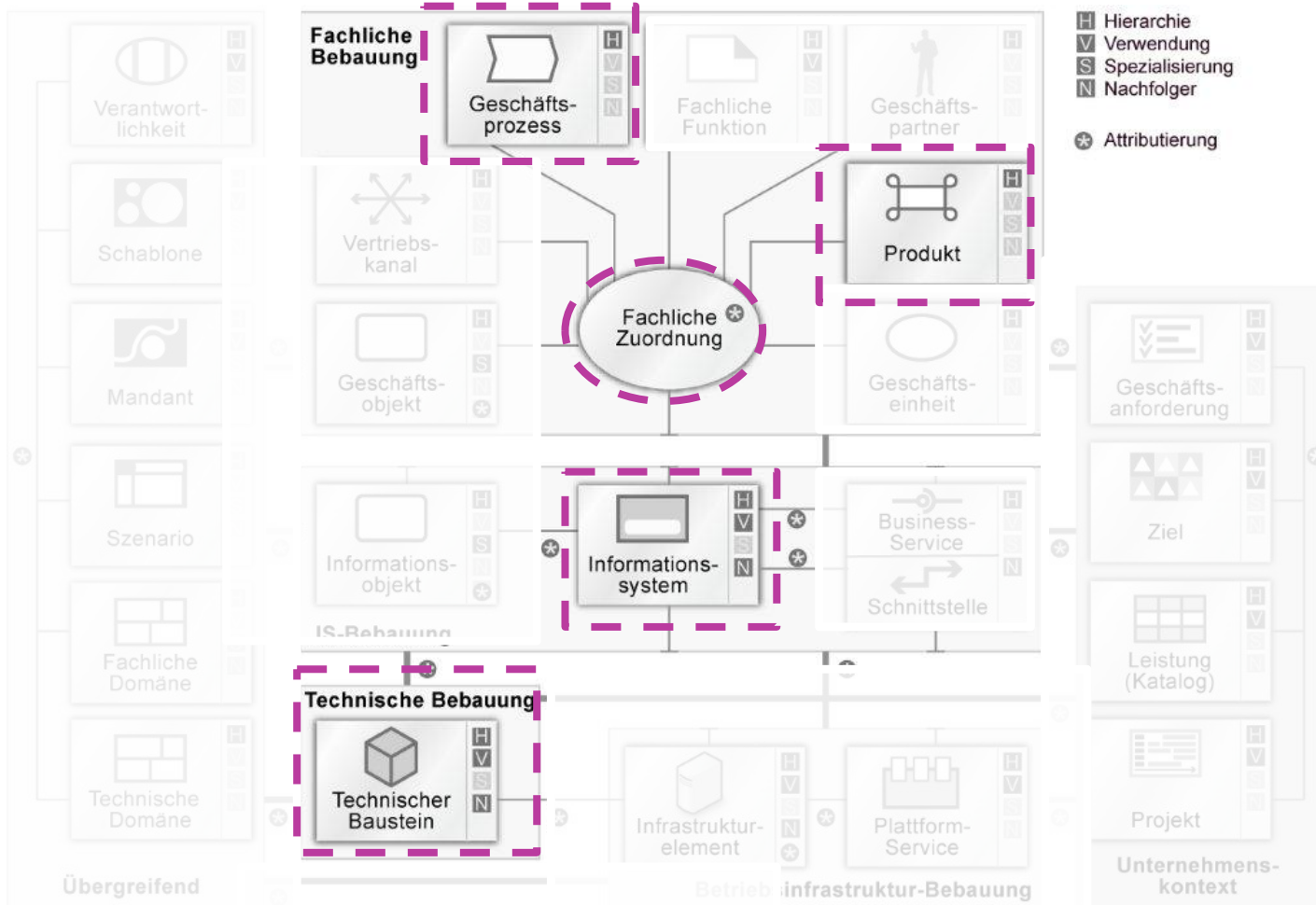






- [Ha12] Hanschke, I.: *Enterprise Architecture Management. Einfach und Effektiv*. Hanser, München 2012.
- [Ha13] Hanschke, I.: *Strategisches Management der IT Landschaft*. Hanser, München 2013.

# Iteraplan & Best Practice EAM by Inge Hanschke



## Additional relationships

- H** Hierarchy  
(e.g.. Process A is part of Process B)
- V** Usage  
(e.g. Tomcat Application Server uses Java Runtime Environment)
- S** Specialization  
(e.g. Customer\_UK is a special form of Customer)
- N** Predecessor/Successor  
(e.g. Version 1.2 is successor of Version 1.1)