Federated EA Model Management
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1. Federated EA Model Management
## What are current problems in EA model maintenance?

**N=125, 2013**

<table>
<thead>
<tr>
<th>Challenge</th>
<th>n</th>
<th>% of all</th>
</tr>
</thead>
<tbody>
<tr>
<td>Huge data collection effort</td>
<td>77</td>
<td>55.00%</td>
</tr>
<tr>
<td>Low EA model data quality</td>
<td>77</td>
<td>55.00%</td>
</tr>
<tr>
<td>Insufficient tool support</td>
<td>48</td>
<td>34.29%</td>
</tr>
<tr>
<td>No management support</td>
<td>44</td>
<td>33.43%</td>
</tr>
<tr>
<td>Low return on investment</td>
<td>36</td>
<td>25.71%</td>
</tr>
<tr>
<td>Other</td>
<td>32</td>
<td>22.86%</td>
</tr>
<tr>
<td>No specific challenge</td>
<td>10</td>
<td>7.14%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of collection</th>
<th>n</th>
<th>% of all</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manually from applications/databases</td>
<td>95</td>
<td>76.00%</td>
</tr>
<tr>
<td>Manually via interviews</td>
<td>85</td>
<td>68.00%</td>
</tr>
<tr>
<td>Manually modeled in workshops</td>
<td>66</td>
<td>52.80%</td>
</tr>
<tr>
<td>Manually via questionnaires</td>
<td>46</td>
<td>36.80%</td>
</tr>
<tr>
<td>Partially collected automatically</td>
<td>44</td>
<td>35.20%</td>
</tr>
</tbody>
</table>

© sebis
Federated enterprise architecture model management
Modeling communities, artifacts, processes and their interactions

Metamodel and Model Management

Modeling communities, artifacts, processes and their interactions

Metamodel and Model

Modeling Community

Modeling Experts

Metamodel Mappings

Instance Mappings

• Importing
• Differencing
• Conflict detection
• Conflict resolution
• Collaboration
• Negotiation

Federated EA Model Management

Enterprise

Modeling communities, artifacts, processes and their interactions

Task

Technology

Model and meta-model changes to be integrated

Team

publish model changes

publish model changes

publish model changes

PPM

BPM

ITSM

Metamodel and Model

Metamodel and Model

Metamodel and Model

Team

Team

Team

Task

Task

Task

Technology

Technology

Technology
1. **Import** of different models in a metamodel-based EA tool

2. **Synchronization** via model merging
   - Provide means to identify model elements within the originating information source

3. **Conflict detection** during merge operation
   - Instance conflicts
   - Schema conflicts
   - Schema/instance conflicts

4. **Collaborative conflict resolution**
   - Fine-grained access control is employed to find the organizational role in a chain of responsibility

5. **Customizable conflict resolution strategy**
Thank you for your attention. Questions?