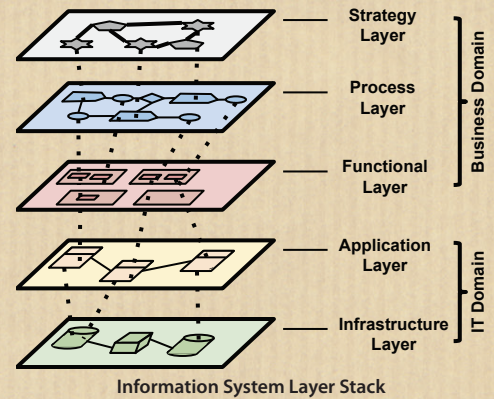
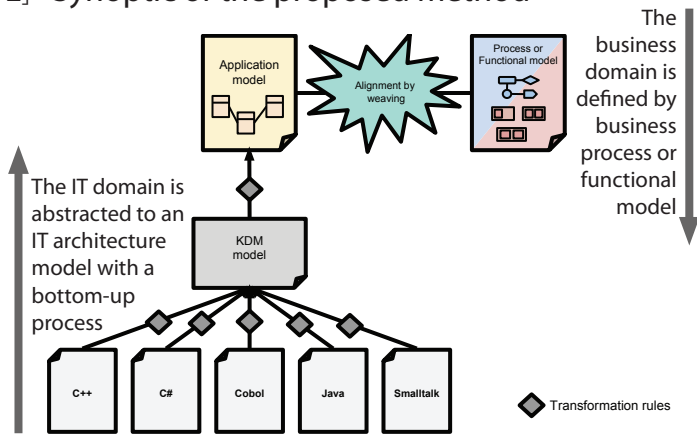


1] Context

- Information systems growth and are more complex
- Adaptation of new strategies in organisation is the current challenge
- Enterprise architecture document various viewpoints in models
- Needs: link IT and business models

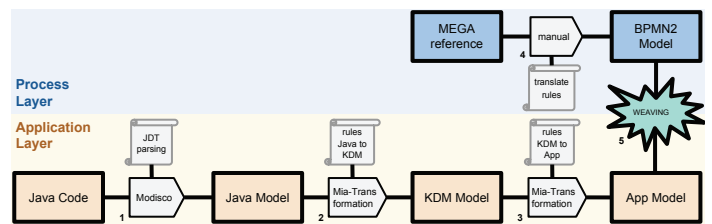


2] Synoptic of the proposed method



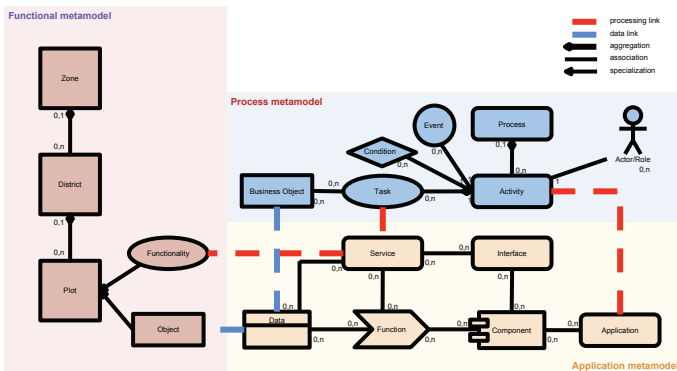
4] Experimentation and tools

Case study from French mutual insurance company:
 - huge Java source code (33,400 classes)
 - business model diagrams from MEGA Enterprise Architecture software

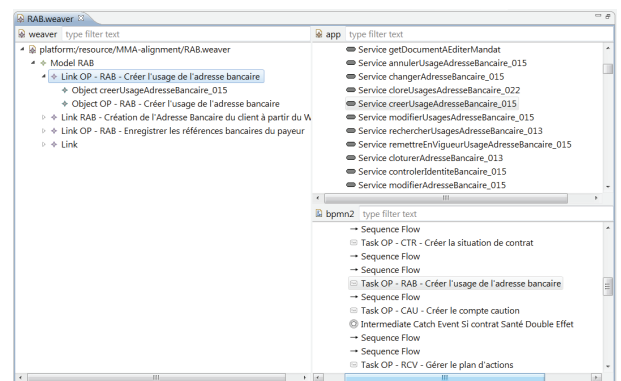


1. Reverse engineering of the Java code to obtain a Java model
2. Java model transformation into KDM intermediary model
3. Transformation and abstraction from KDM into Application model
4. Manual translation from MEGA model to BPMN2 standard
5. Application and business models alignment by weaving

3] The aligned EA metamodels



Data and process links are defined between business domain (functional and process metamodel) and IT domain (application metamodel)



A screenshot of our weaver

5] Results

- A complete alignment tool chain supported by model transformation
- An Eclipse Plugin implementing model weaving editor and wizard

Perspectives

- Alignment models analyser with metrics: coverage, decoupling, ...
- Analysis driven by activities or application services