

# Bimloq

## *Business Models Optimization for Quality (BIMLOQ)*

- MNiSW Research Grant no. N516 422338 
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- **Timeline:** 2010-05→2012-12
- **Duration:** 32 months

## Motivation

The main aim of Business Models Optimization for Quality (BIMLOQ) is to build a declarative model for business processes, including business rules specification, with an emphasis on analysis and optimization of those processes.

- **Semantic:** lack of a common ontology, lack of unified semantics, difficult unambiguous logical representation.
- **Functional:** aims and tasks in the business logic layer cannot be mapped to logical quality assessment methods.
- **Technical:** technologies used in the visual design layer are incompatible with the declarative logical representation.

## Intended results

- **Conceptual:** declarative model for logical business process representation and analysis.
- **Practical:**
  - new tools for analysis and optimisation of specification quality,
  - integration of visual BPMN tools and logical knowledge processing.
- **Evaluative:** modeling and analysis of real-life application use cases.

### Expected benefits:

- Real-time quality assessment during development.
- Maintainability assurance.
- Formal analysis of business software quality.
- High adaptability in dynamic environments.

## News

- **14.04.2011** *The BIMLOQ Project Overview* presentation during the Explicite Seminar ([more on the Explicite website](#)) [presentation.pdf](#)

# Publications

<BIBTEX: file=bimloq>

## Tools

### 0.1 BPMN to XTT Translator

### 0.2 Oryx-HQEd

### 0.3 Loki

### 0.4 HearT in Wiki

### 0.5 Pellet-HearT

#### Description

**PelletHearT** is a prototype of a hybrid rule reasoner for ontologies. It assumes an integration of classic forward chaining rule reasoning implemented by HearT with the Pellet resoner. The project and implementation is based on a proposal of integrating *Attribute Logic with Set Values over Finite Domains (ALSV(FD))* and *Description Logics (DL)*.

#### Papers

- [LNCS/LNAI 6359/2010 Paper: Pellet-HearT – Proposal of an Architecture for Ontology Systems with Rules \(2010\)](#)
- [TCCI II, LNCS/LNAI 6450/2010 Paper: Integration Proposal for Description Logic and Attributive Logic – Towards Semantic Web Rules \(2010\)](#)

### 0.6 SEWiki

## Cases

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