A Declarative approach of Process Models

Tharaka Ilayperuma
Department of Computer and Systems Sciences (DSV)
Stockholm University/Royal Institute Of Technology
Sweden
si-tsi@dsv.su.se
Business model and the process model

- **Business Model**
  - A business model details the general view of the business in business terms

- **Process Model**
  - Details *how* the work is carried out at the operational level.
Declarative Foundation – motivation

- Business Orientation
- Traceability
- Flexibility
From business model to process model

- Identifying and classifying activities and relations between the activities in order to be able to execute and coordinate value transfers.
The 3 Pillars

1. Business Model
2. Analyze & Map
   - Logistic Model
   - Communication Model
   - Risk Model
3. Transform
   - Process model

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Stepwise process generation

**Step 1**
Business Model

**Step 2**
Three pillars
Logistic, Communication, Risk

**Step 3**
Activity Dependency Model

**Step 4**
Business Process Model

e³-value notation

BPMN

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A Declarative approach for Process Models
Deliverables in various stages

- Mapping from business model to three pillars.
  - Identifying and classifying activities into three pillars: logistic, communication and risk.
- Mapping from three pillars to activity dependency model
  - Identifying dependencies and relationships between the activities
- From ADM to Process Model
  - We already have this and will modify this as work progresses

Testing with different cases

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Previous work and work on progress

Related research

- Hans Weigand, Paul Johannesson, Birger Andersson, Maria Bergholtz, Ananda Edirisuriya, Tharaka Ilayperuma, “On the notion of value object” accepted for the 18th Conference on Advanced Information Systems Engineering (CAiSE’06), Luxemburg.

Work on progress

- Common Ontology for business models

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Thank you!

Questions?