Towards Situational Business Process Meta-Modelling

Selmin Nurcan
Oumaima.Saidani@univ-paris1.fr
Selmin.nurcan@univ-paris1.fr
Centre de Recherche en Informatique, Université Paris 1 - Panthéon - Sorbonne

**Issues**

Requirements on BP flexibility and variability according to:

- Execution environment
- Process nature
- Modelling purpose

However BP modelling formalisms:
- support partial views of the processes (Functional, Organisational, Behavioural, Informational, Operational, Intentional, Decisional)
- are adequate for some situations but not for others

⇒ A single formalism is insufficient

**Proposal**

Since SME has proved its effectiveness in IS engineering,

⇒ Situation-aware reasoning

Adapting and configuring existing BP modelling formalisms according to the situation (organisation settings, actors’ objectives, process nature, etc.) rather than to advice for a single formalism which can be too complex for some requirements and insufficient for others

**Constraints:**
- PM₀: Basic BP Model
- PM₁: Extended process Model
- CPMᵢ: constrained PMᵢ ∈ {1, 2}
- CCxPMᵢ: constrained & contextual PMᵢ

Captures context related knowledge which can impact the assignments relationships of a process model e.g. the ability of actors for playing roles according to a given context

Enforces organisation policies impacting assignments decisions e.g. separation of duties (SoD)

The achievement of BPI’s functions in operational goals and operations in performed by actors depending on their experience and following their own points of view

**Future work**

- Process and guidelines for the construction of adaptive formalisms according to the situation at hand
- Metrics to and to characterise deal with the situation
- Tools