TITLE: Managing business process compliance via semantic annotations

OUTLINE: A key problem facing industry is ensuring compliance of their processes with applicable legislative and regulatory frameworks. The project will address the problem by combining business process modelling with business rules technology. The intent is to develop a framework with supporting tools to enable the checking of business processes modelled in the BPMN notation with legislative/regulatory frameworks encoded as business rules. If process models are found to be non-compliant, the framework would support the identification of minimal changes to the process models that would render them compliant. The project will involve the semantic annotation of process models using ontological markup and semantic web technology.

OUTCOMES: The project is relatively large in scope. It is expected that the summer scholar will make initial progress towards some of the project objectives. This could involve advances in our theoretical understanding of the issues, or the (partial) implementation of supporting tools, or a combination.

REQUIRED SKILLS: Some understanding of software engineering techniques, and a willingness to learn new skillsets (rules systems, business process modelling, semantic web technology).

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