



BUSINESS PROCESS COMPLIANCE ANALYSIS: A GRAPHICAL REPRESENTATION WITH TOOL SUPPORT

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AGENDA

- **09.00-09.15: Motivation**
- **09.15-10.30**
 - User Requirements Notation (URN) – Introduction
 - Goal – oriented Requirements Language (GRL)
 - Use Case Maps (UCM)
 - jUCMNav Presentation & Installation
- Coffee break
- **11:00-12:30: Exercise I**
- Lunch break
- **14:00-14:45: Legal – URN for Compliance – Introduction**
- **14:45-15:30: Exercise II**
- Coffee break
- **16:00-16:30: Legal URN and example discussion**
- **16:30-17:00: Argumentation and Principles for GRL**





MOTIVATION

- Translating multiple regulations into business rules and models

CURRENT SITUATION


CHALLENGES

- Open norms
 - Purposefully general
 - Ambiguous
 - Need interpretations
 - No prescribed implementation strategies
- Numerous legal sources
 - Contrast with business processes/ or software needs
 - Conflicting norms
- Trade-off between costs
 - Cost of compliance vs Cost of non-compliance
 - Cost of non-compliance vs Cost of weak-compliance

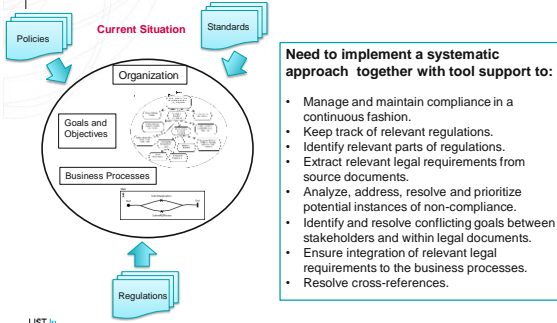


WHAT IS LEGAL – URN FRAMEWORK

- A goal-oriented compliance framework to manage and maintain business process compliance.
- **LEGAL- URN** framework aims to:
 - Support a systematic modeling and analysis of compliance.
 - Help to avoid expensive and damaging compliance breaches.
 - Bridge the gap between:
 - the **abstract** level of legal prescriptions &
 - the **concrete** task level of business processes



WHY IS LEGAL – URN NEEDED?



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RIGHT TO BE FORGOTTEN



An Example of Legal Requirements

- Problems, questions and interpretation issues
 - Ambiguous words?
 - What is counted as inaccurate, inadequate,...?
- Private data vs public data
 - The interest of public overrides the interest of the private person to erase data
- Remove data from search engines locally or remove even from .com?
 - Ex. Google.fr must oblige with EU Data Protection Regulation but Google.com must oblige with US laws
 - Conflict in regulations?
 - Enforcement mechanism?
 - Which interpretation to use?

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LEGAL – URN AND URN



- **LEGAL – URN** is based on User Requirements Notation (URN).

- It includes:
 - LEGAL – GRL + GRL models
 - LEGAL – UCM + UCM models
 - Traceability Links between the models
 - Compliance Analysis Methods
 - Metadata and Compliance and Well-formedness OCL rules
 - Tool Support - jUCMNav

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