

Schwerpunkt Agile Prozesse

Dr. Barbara Weber

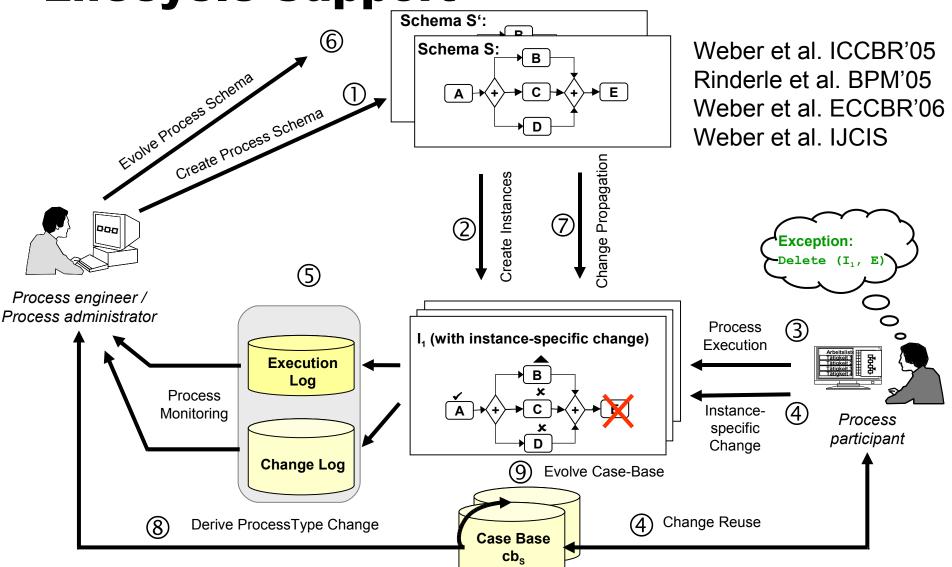
Our Vision for Agile PAIS



- Fast Delivery of Process-Aware Information Systems (PAIS)
- Emergence of Process-Aware Information Systems
- Responsiveness to Change
- Feedback and Learning from Real Process Executions
- Integrated Process Life Cycle Support

ProCycle: Integrated Process Lifecycle Support





Change Patterns + Features



Goal: Reduce Cost of Process Change

Change Patterns

describe typical changes at a high level of abstraction

Change Support Features

describe crucial features making changes
 applicable in practice

Weber et al. CAISE'07

Weber et al. DKE

Change Patterns + Features



2 Major Categories

- Adaptation Patterns
 - Support for quick adaptations
- Patterns for Changes in Predefined Regions
 - Support for deferring decisions

Refactoring of Process Models



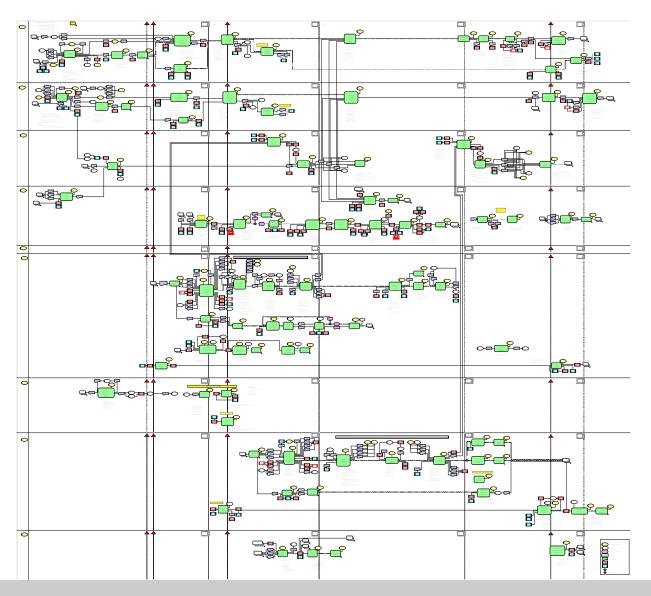
- Goal: Improve understandability and maintainability of process models
- Catalogue of 11 refactorings

Proof-of-Concept Implementation

Weber and Reichert, CAiSE'08

Refactoring of Process Models





University of Innsbruck - Research Group Quality Engineering

Constraint-based Workflows

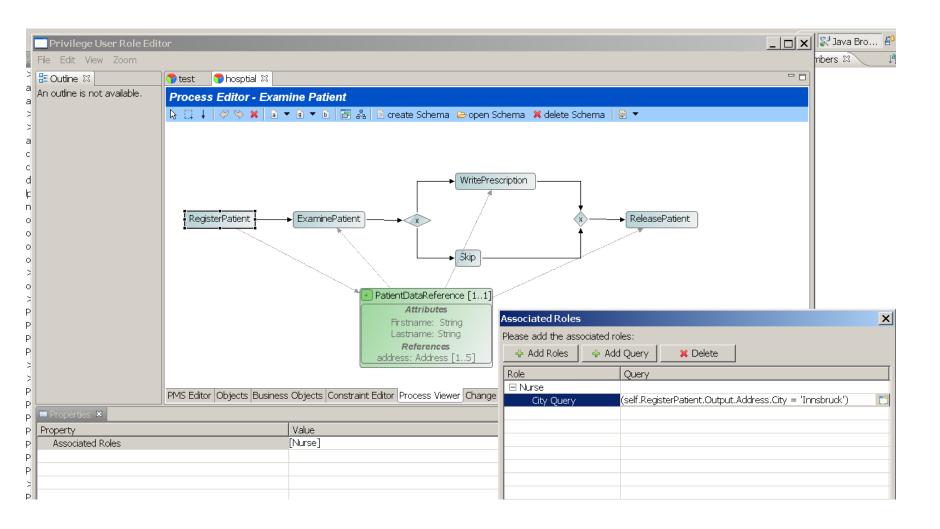


- SecServ
 - Modeling and Execution Environment for Constraint-Based and Imperative Workflows
 - Applications:
 - Access control for adaptive PAIS
 - Visualization of system-spanning processes

User Guidance through Recommendations

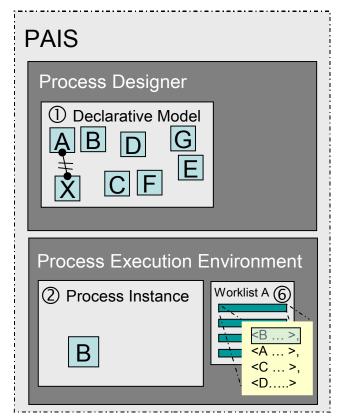


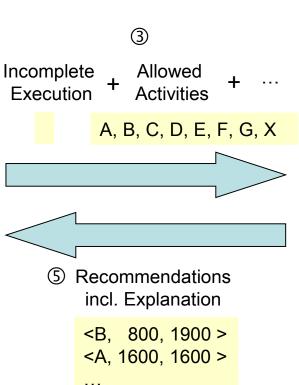


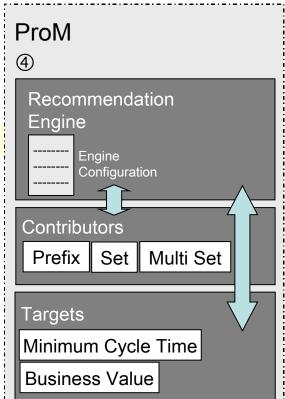


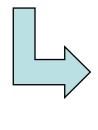
User Guidance through Recommendations











Execution Log

Trace	Cycle Time
A, B, C, D, E	1600
A, B, C, D, E	2400
A, B, C, D, E	800
B, D, E, F, G	800
X, B, C, D, E	2400

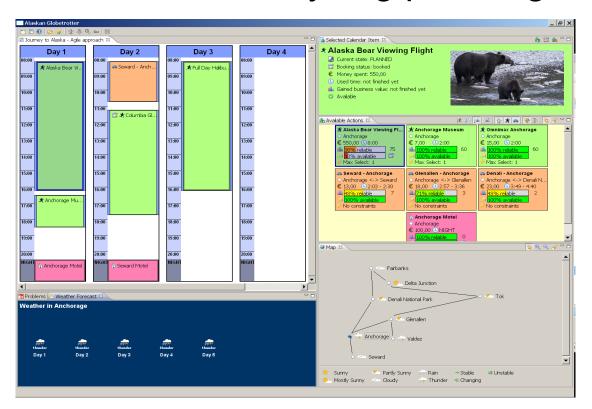


Schonenberg et al. BPM'08



Alaska

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Vielen Dank für die Aufmerksamkeit!