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LEARN. NETWORK. EXPERIENCE OPEN SOURCE.



BPM using jBPM and Beyond

Kris Verlaenen JBPM Project Lead, Red Hat 06.28.12





Overview

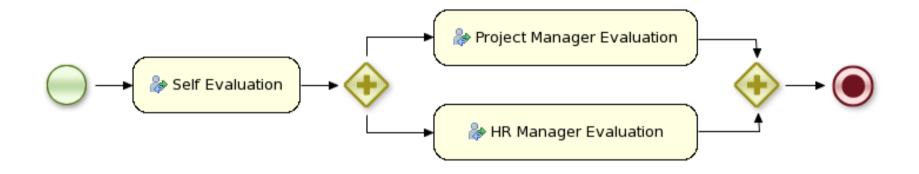
- What is (j)BPM?
- Demo
- Key Characteristics
 - BPMN2
 - Persistence / Transactions
 - Domain-specific processes
 - Adaptive processes
- Roadmap





What is BPM?

Business Process Management

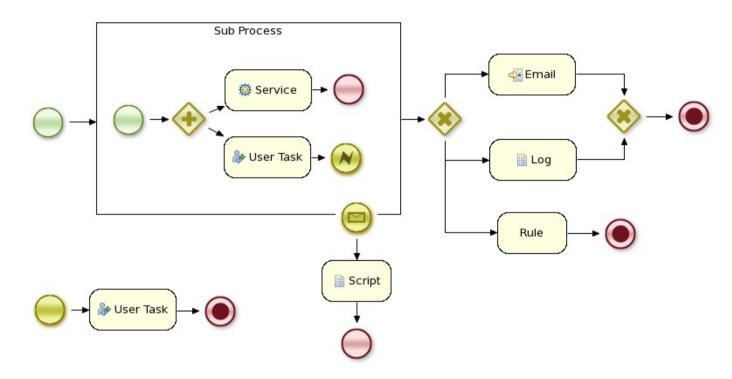


A *business process* is a process that describes the order in which a series of steps need to be executed, using a flow chart.





Why BPM?



- Visibility
- Monitoring
- Higher-level

- Continuous improvement
- Speed of development
- Increased agility





jBPM Project Vision

- (Executable) business processes
 - light-weight, native BPMN2 engine
 - from embedded to as a service
- Entire life cycle
- Both developers and business users
- Advanced, adaptive processes



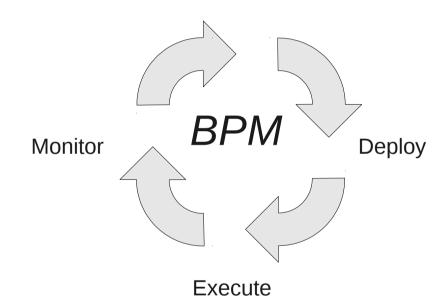


Life Cycle

Business Analyst

Model

System Administrator



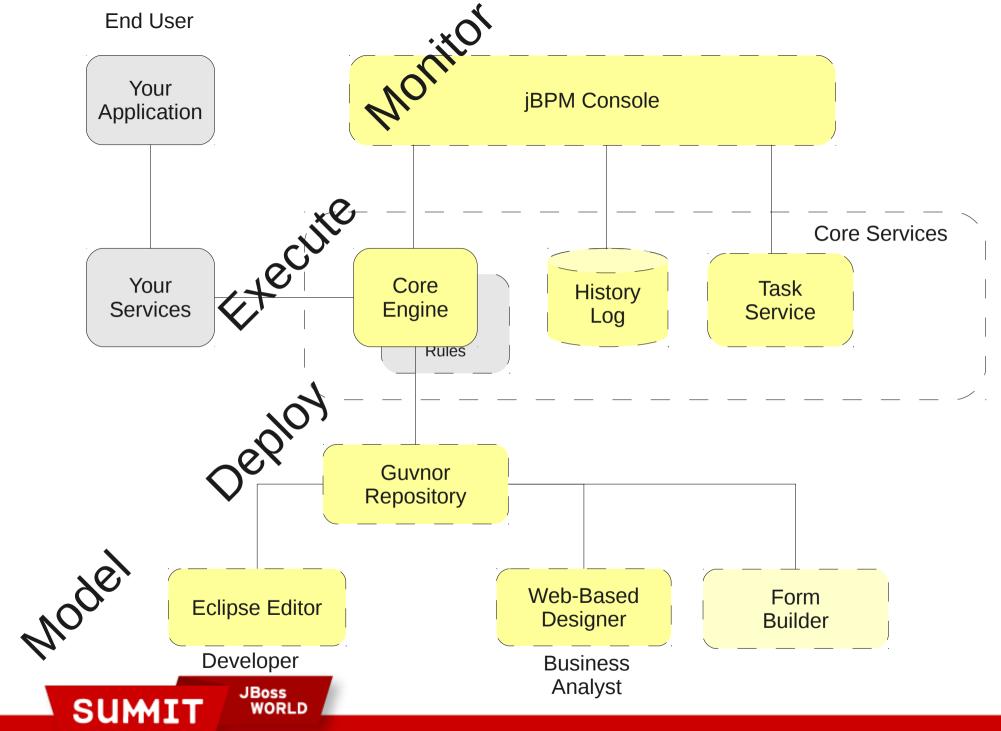
Developer

End User



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Demo



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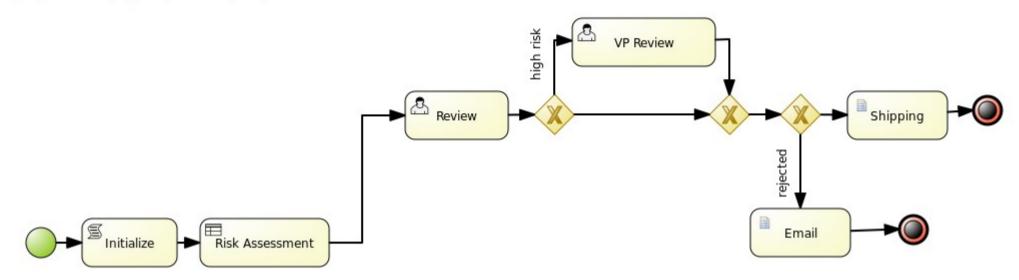


JBossWorld Keynote Demo





jbossworld (org.jboss.jbw2012.keynote)

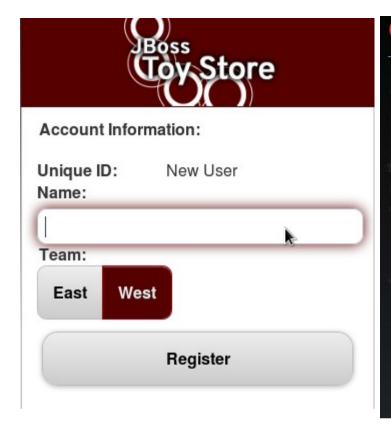


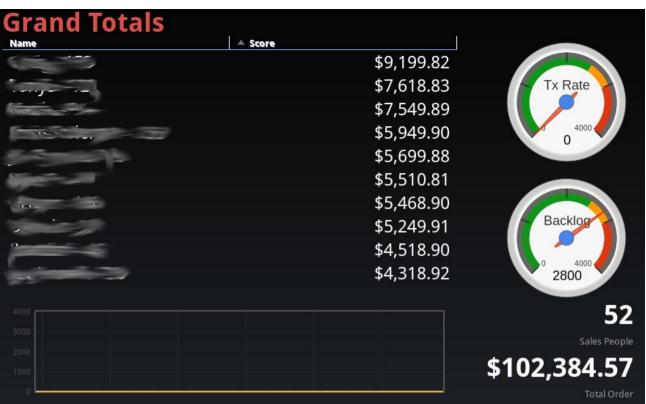
⊕ Decision table					
	#	Description	amount greater than or equal to	amount less than	high risk
		_		▼	
		*			
-	1	Low risk	0	500	
+ -	2	High risk	500		✓

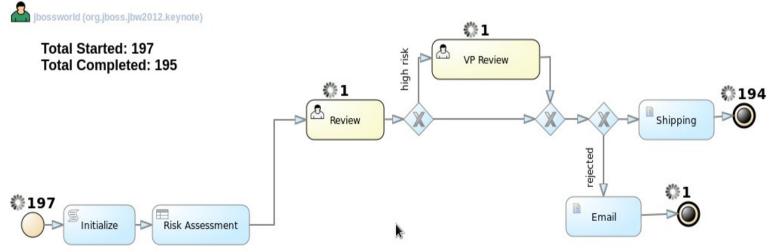
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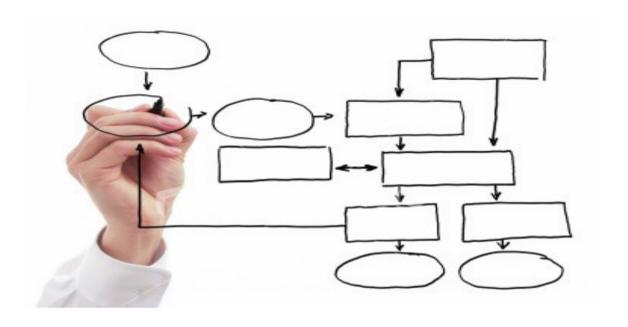
JBossWorld Keynote Demo

- BRMS 5.3
- JBossAS7 / EAP6
- OpenShift
- Hibernate4 / JPA2 with in memory H2 DB
- User transaction
- Local task service









BPMN 2.0 as the new standard





BPMN 2.0

→ Hello

- OMG specification
 - Model
 - Notation
 - Execution semantics

- Understandable by all business users
- Process, collaboration, choreography
- Extensible





Persistence and Transactions

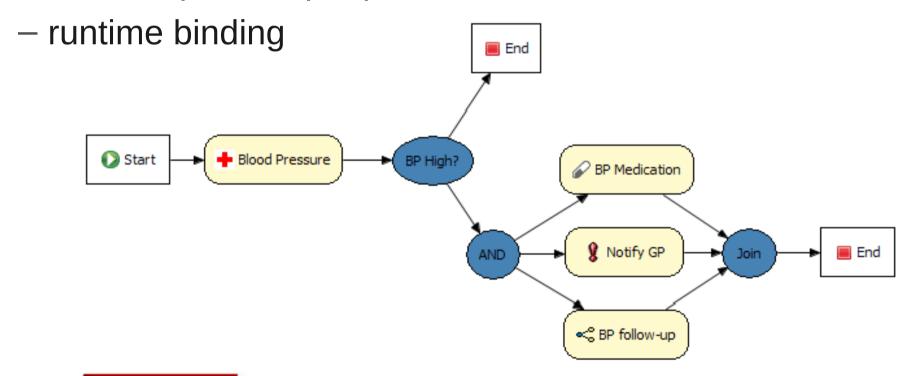
- Persistence (JPA, pluggable)
 - Runtime persistence
 - History logging
 - Hibernate 3.x / JPA1, Hibernate 4.x / JPA2
- Transactions (JTA, pluggable)
 - Command-scoped
 - User-defined





Domain-specific Processes

- Extend palette with domain-specific, declarative service nodes
 - define input / output parameters









Domain-specific Processes

- Why?
 - Domain-specific
 - Declarative
 - High-level
 - Context-defined

Repository!

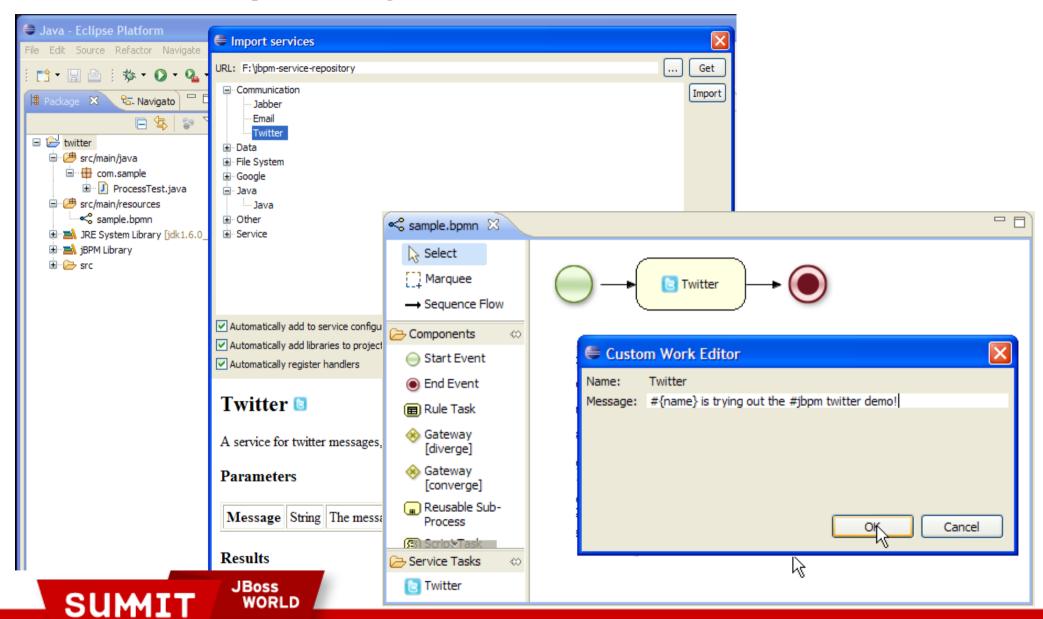
- Other examples
 - Human task
 - Java method
 - WS, Rest
 - Email, Twitter
 - FTP, RSS, Jabber
 - Finder, Exec, Archive
 - Google Calendar
 - YOUR SERVICES!



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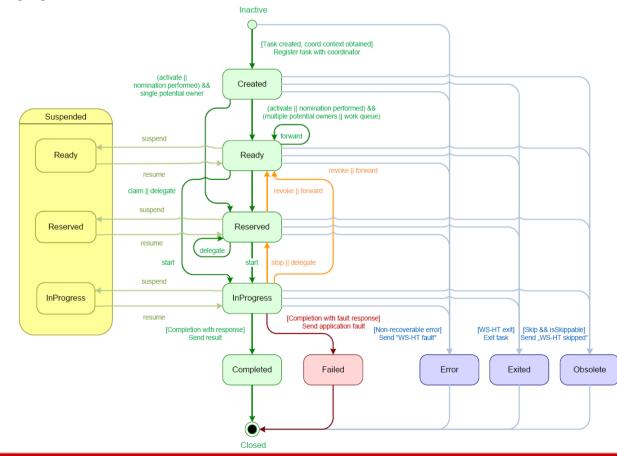
Service Repository





Human task service

- Based on WS-HT
- User(s) and/or group(s)
 - Local, HornetQ
 - I18N, calendar, escalation, rule-based, etc.







Ready for the future?

Traditional BPM systems have problems with change, complexity, flexibility, data-intensive applications, etc.

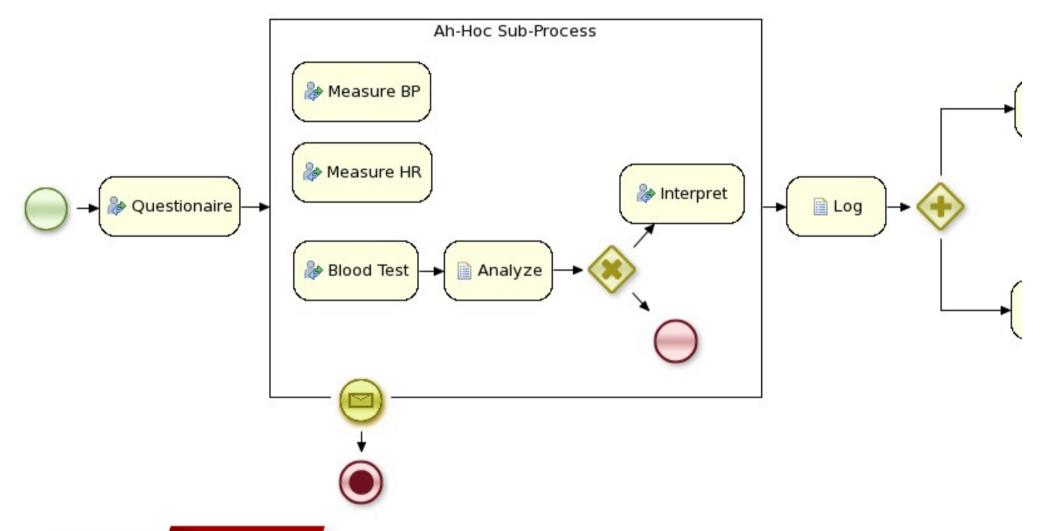


- Adaptive Case Management (ACM)
- Unstructured, non-lineair or flexible processes
- Event-driven BPM (edBPM)





Example: Clinical DSS



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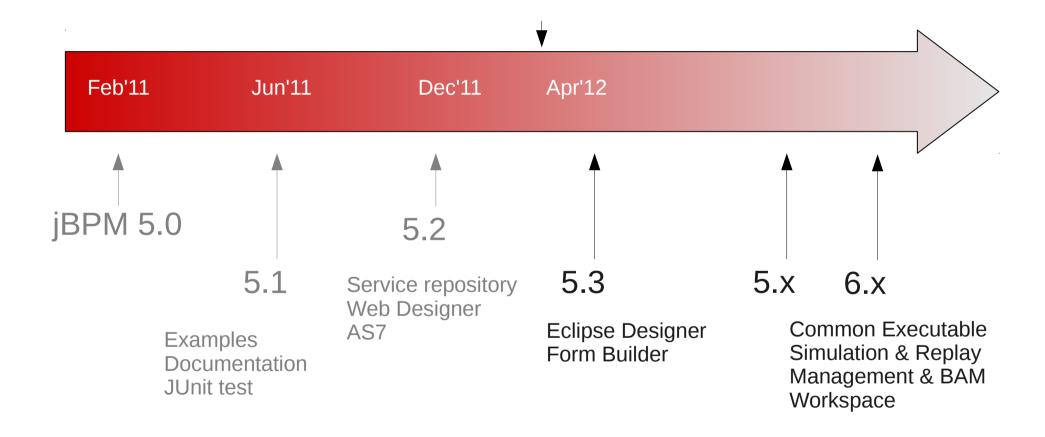
Combining Processes, Rules and Events

- Integration
 - From loose coupling
 - To advanced integration
- Unification
 - Processes and (event) rules are different types of business knowledge assets
 - Tooling (IDE, repository, management)





Roadmap

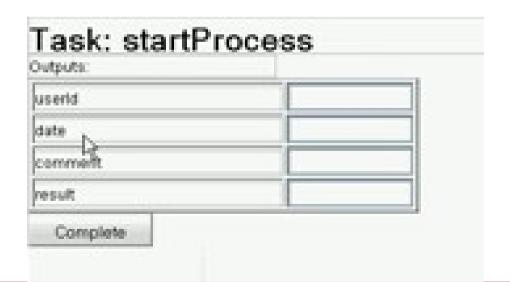






Form Builder

- Generate form for process / task
- Graphically design process (D&D)
- Triggers, validation
- Integrated into Guvnor

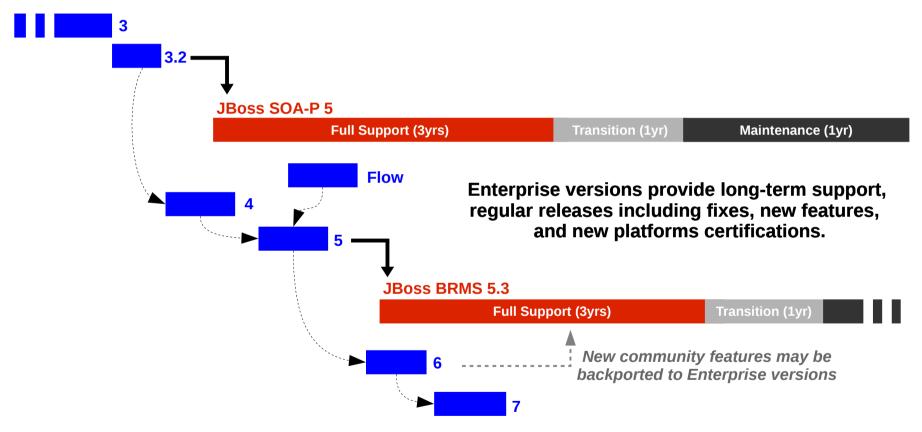






JBoss Enterprise Product Delivery Model

Example: jBPM Community and Enterprise Product



While **community projects** continue to rapidly evolve, **enterprise middleware products** focus on long term stability.





JBoss Enterprise BRMS BOF

Thursday June 28th3 3:40 – 4:40 pm Room 305 Hynes Convention Centre





Drools & jBPM All Day Drop in Centre

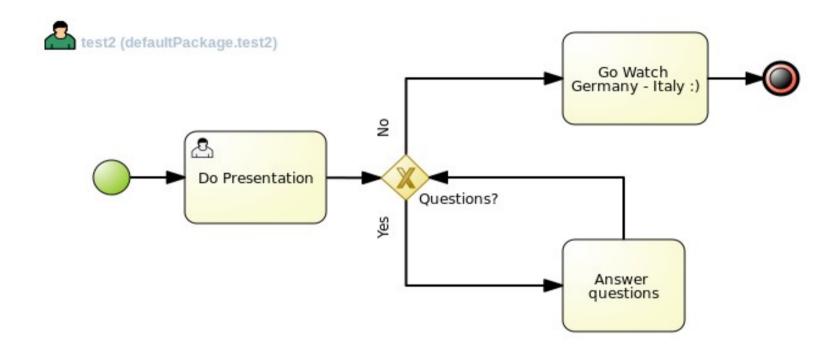
Friday June 29th
Room 105
Hynes Convention Centre



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