

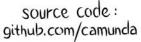
Introduction

Bernd Rücker

Co-Founder of camunda > 10+ years experience with workflow and Java EE

@berndruecker bernd.ruecker@camunda.com











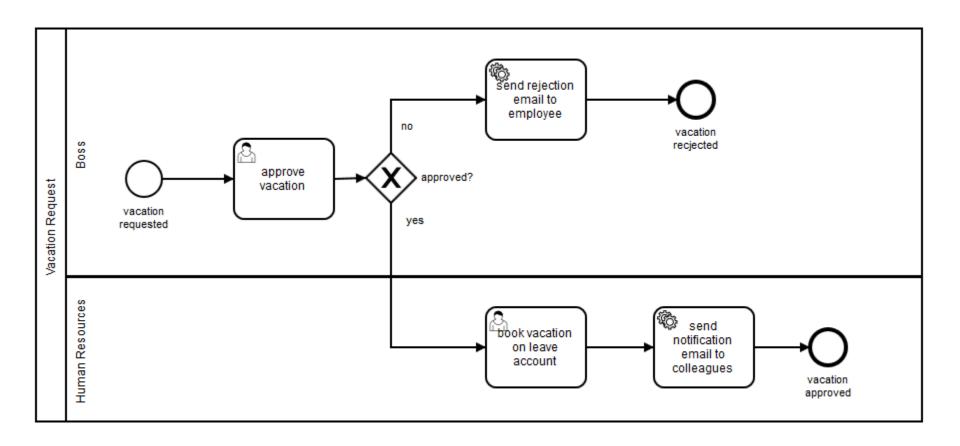


Camunda

Open Source BPM Platform
Berlin + San Francisco
No Venture Capital
~ 40 people - growing

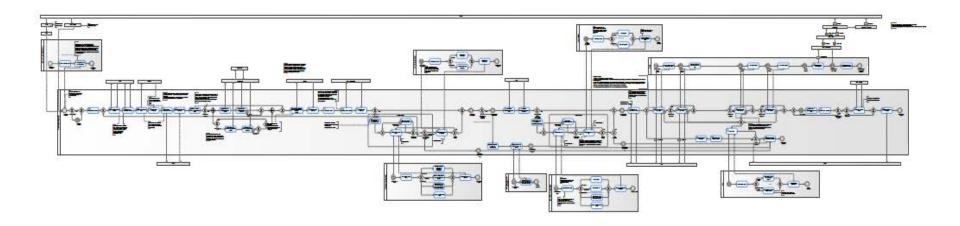


Was ist ein Geschäftsprozess?





Was ist ein Geschäftsprozess?



Beispiel: Kreditkartenantrag



Es gibt sehr viel mehr Beispiele...

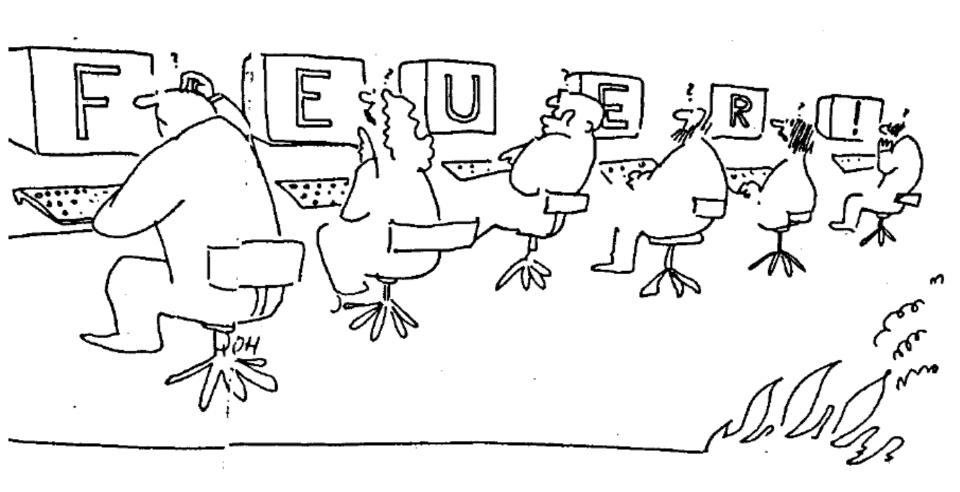
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Finanzen	BANK11 Die neue Autobank	DAB bank	Deutsche Vermögensberatung Vermögensaufbau für jeden!	dwpbank	Haspa [‡] Hamburger Sparkasse
rmanzen	X	\$ Kreditpartner	Sparda-Bank	wūstenrot	
Telekommunikation	1&1	freenet 💎	swisscom	$\mathbf{T}\cdots$	Skandinavischer Telko Provider
Weitere	ALBA C Wir nennen es Rohstoff.	IGE IPI	← Lufthansa Technik	Sony DADC NEW MEDIA SOLUTIONS	zalando

Quelle: Camunda BPM Referenzkunden, http://camunda.com/de/bpm/references/

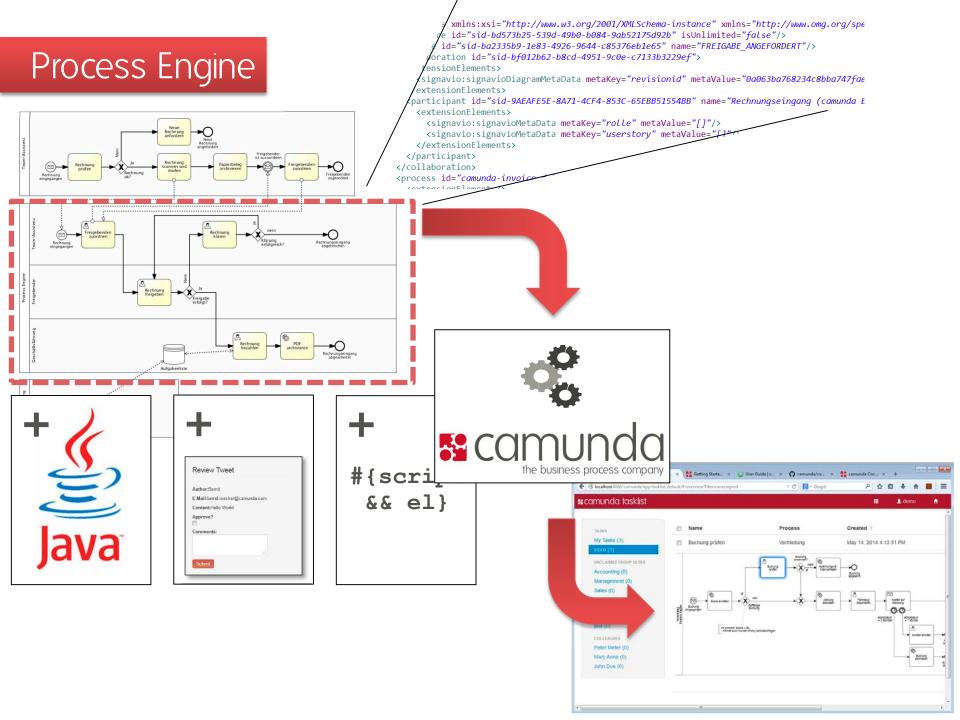




Prozesse nicht verstecken!







Transparenz!

Design & Umsetzung

Betrieb & Analyse

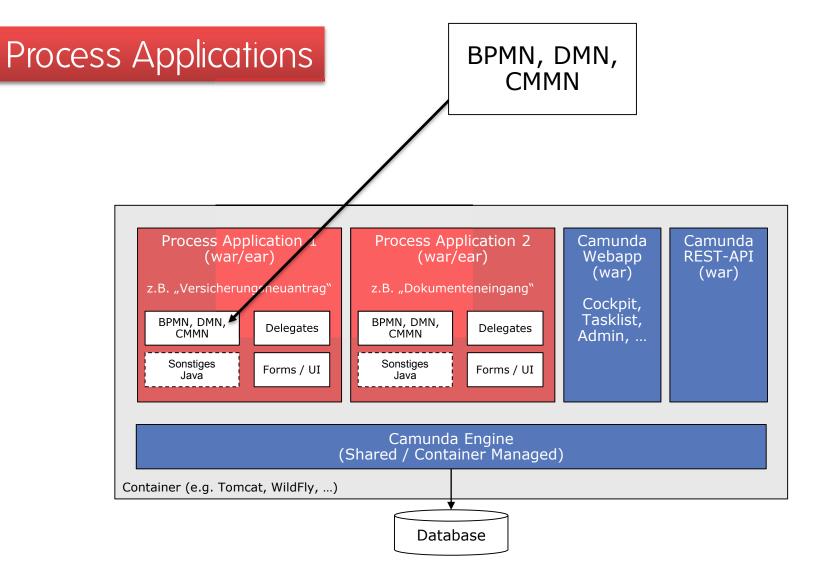
Entwicklungsvorgehen Prozessbezogen Instanzbezogen Freigebenden auswaehlen Typische Fragen: Typische Fragen: Typische Fragen: Wo steckt mein Antrag? Was ist die genaue Halten wir die SLA? Anforderung? Wie Auslastung? Was ist in diesem funktioniert der E2E-Prozess falsch Verbesserungspotential? Prozess? Entspricht die Realität gelaufen? Was wurde wirklich der Vorstellung? umgesetzt?



Standards

	BPMN	CMMN	DMN
Name	Business Process Model and Notation	Case Management Model and Notation	Decision Model and Notation
OMG-Standard seit	2005	2014	2015
ISO-Standard seit	2014	-	-
Gegenstand	Workflows	Cases	Decisions
Modellierung	\square	\square	\square
XML Austauschformat			
Technische Ausführung			

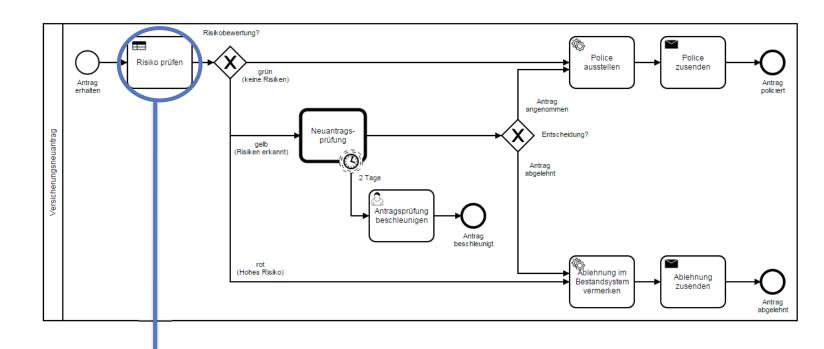






Live Demo



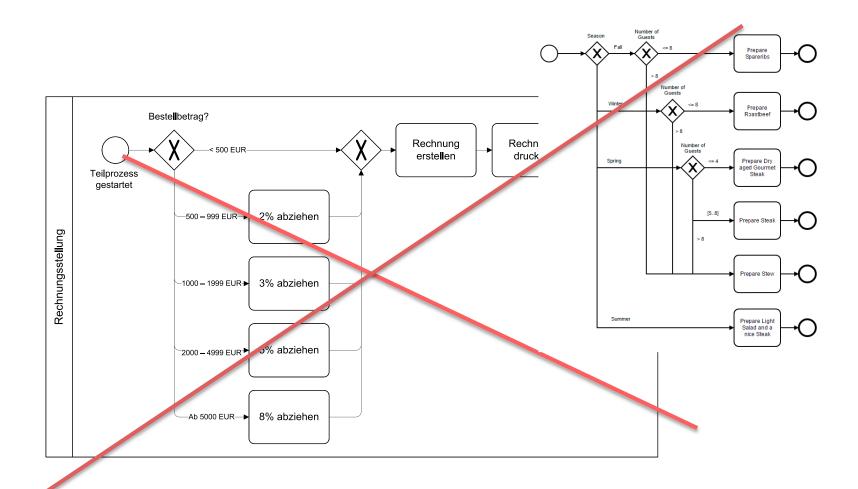


Risikoprüfung

risikopruefung

-	Input +		Output +		■	
	Alter	Fahrzeughersteller	Fahrzeugtyp	Risiko	Risikobewertung	
	neuantrag.antrags	neuantrag.fahrzeu	neuantrag.fahrzeu	risiko	risikobewertung	
	integer	string	string	string	(gelb, rot)	Annotation
1	<= 21	_	-	Anfänger	gelb	-
2	<= 30	BMW	-	Jung und schnell	gelb	-
3	-	Porsche	911	Sinnlose Raserei	gelb	-
4	-	BMW	X3	Hochwertfahrzeug	gelb	-
5	<= 25	Porsche	911	Jung und zu schnell	rot	-

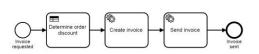
Keine Regelwerke im Prozessdiagramm!





Häufigkeit von Änderungen

Geschäftsprozesse



Änderungen am Geschäftsprozess resultieren in Aufwand für Change Management oder Prozessumsetzung

Selten (Monate oder Jahre)

Regelstruktur (Spalten)

	er Discount	Ļ	
or -	Input +	Output +	
	Order Amount	Discount	
	order.amount	discount	
			Annotation
1	< 500	0	-
2	[500999]	2	-
3	[10001999]	3	-
4	[20004999]	5	-
5	>= 5000	8	-

Änderungen an Spalten erfordern Aufwand (z.B. zusätzliche Inputdaten)

Selten (Monate)

Regeln (Zeilen)

		er Discount		
	-	Input +	Output +	
		Order Amount	Discount	
				Annotation
	. 1	< 500	0	-
	2	[500999]	2	-
		[10001999]	3	-
-	4	[20004999]	5	-
	5	>= 5000	8	-

Änderungen an Regeln sind sehr einfach. Allerdings Validieren und Testen nicht vergessen!

Häufig (Wochen oder Monate)



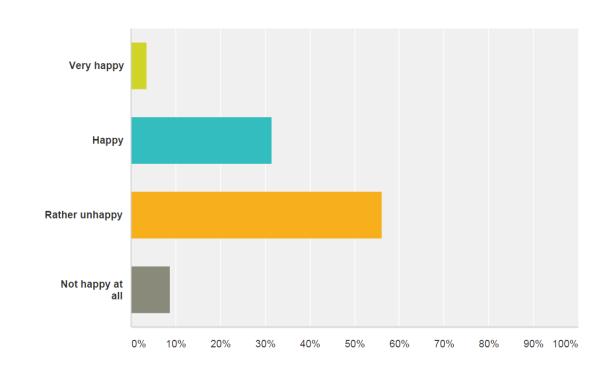
"Rule Engines" sind doch nicht neu?

"Wie happy sind Sie mit Ihrer Busines Rules Lösung?"

- Umfrage 02/2015
- > 450 Teilnehmer
- 63% unglücklich!

Gründe

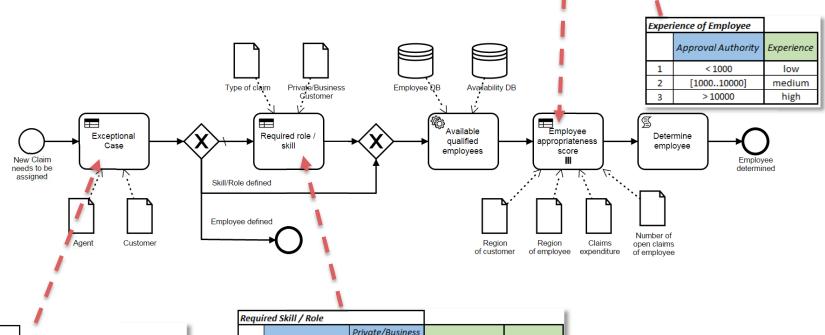
- Keine Rule Engine
- Bestehende Lösung
 - -Zu teuer,
 - -Zu technisch,
 - -Zu komplex,
 - -Proprietär





Beispiel Skill-Based Routing

Empl	oyee appropriateness so	core			
С	Region of employee = Region of customer	Claims Expenditure (estimated)	Experience of employee	Number of open claims of employee	Score
	yes/no	Number	low/medium/high	Number	Number
1	yes				100
2		[100010000]	low		-100
3		> 10000	low		-1000
4		> 10000	medium		-100
5				[1020]	-100
6				[2030]	-500
7				> 30	-1000



Exceptional Case				
	Agent Id	Customer Frame Contract Id	Required Role	Special Employee
			Special Customer	
1	4711		Task Force Berlin	
			Special Customer	
2		0815	Task Force Berlin	
3		camunda		Mr. Important
4				

Requi	ired Skill / Role			
	Type of Claim	Private/Business Customer?	Required Role	Required Skill
1	Third Party Liability	Private	Service Center	
				Business Law
2	Third Party Liability	Business	Service Center	Qualification
3	Accident	Private	Service Center	
			Business Accident	
4	Accident	Business	Team	
5				



Typical Decision Use Cases



Eligibility/ **Approval**

e.g. is the customer eligible for this product, do we approve this request

yes/no



Validation

e.g. is this claim valid for further processing

yes/no



Fraud

e.g. likeliness of fraud of a new claim

yes/no | n indicators



Risk

e.g. determine risk of credit approval

yes/no | n indicators | score



Calculation

e.g. determine price, rate or discount

1 result



Assignment Assignment

e.g. who should do the next task

1 result



Maximizing

e.g. which opportunity has the biggest business impact

yes/no | n results | score



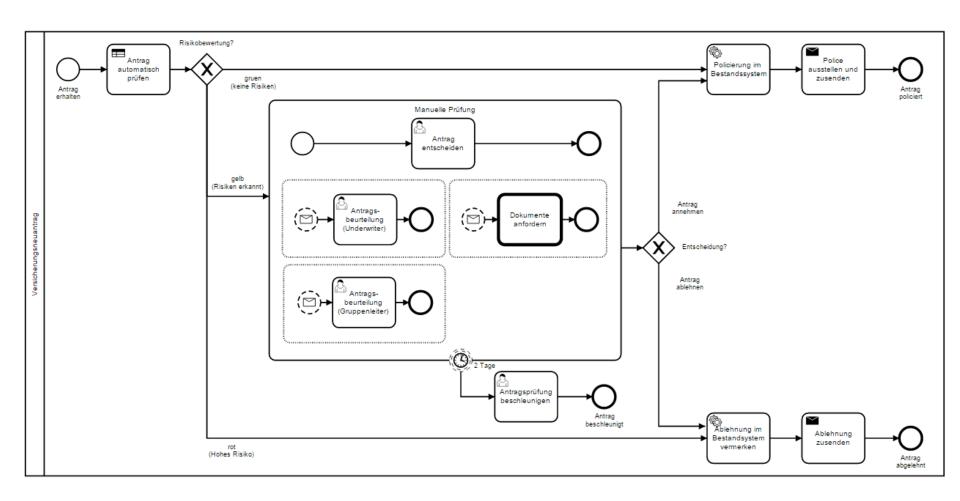
Targeting

e.g. personalization of website

yes/no | n results | score

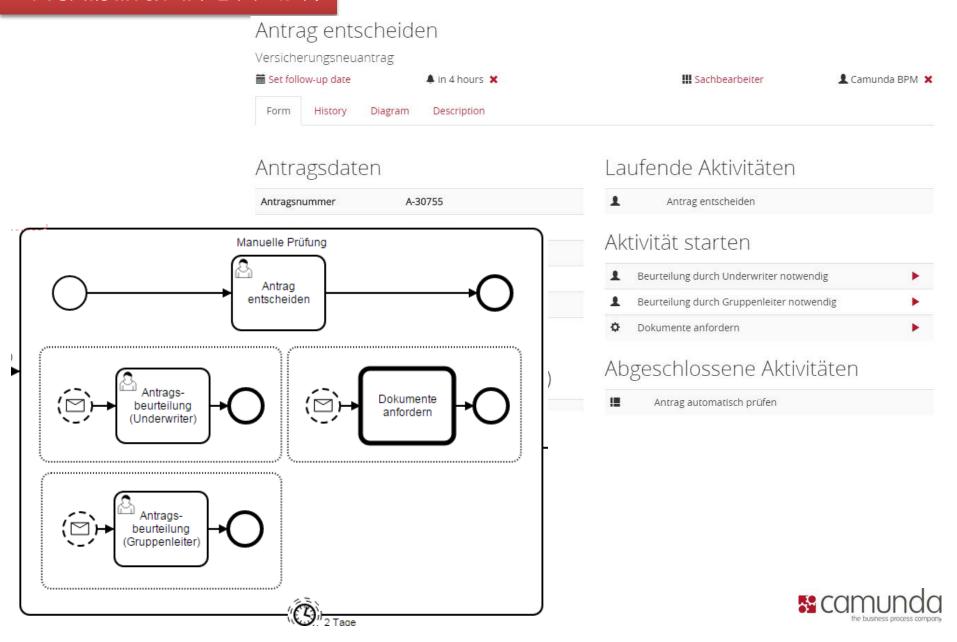


Flexibilität in BPMN?



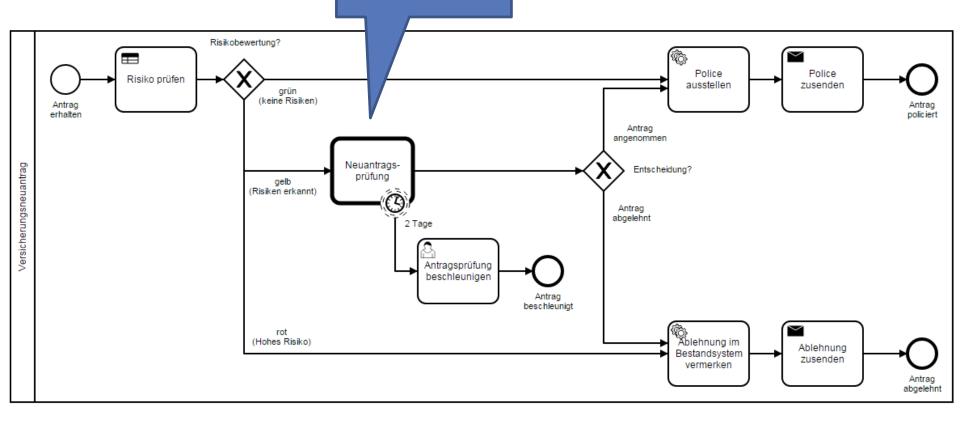


Flexibilität in BPMN?

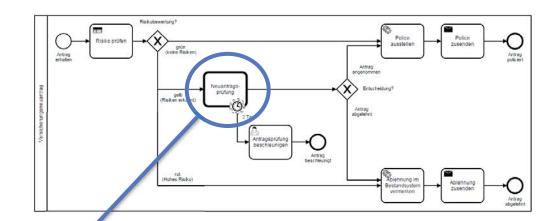


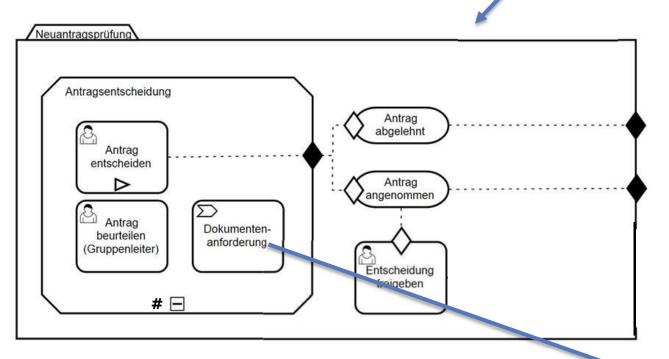
BPMN

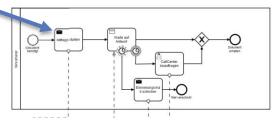
Fallbearbeitung (CMMN)



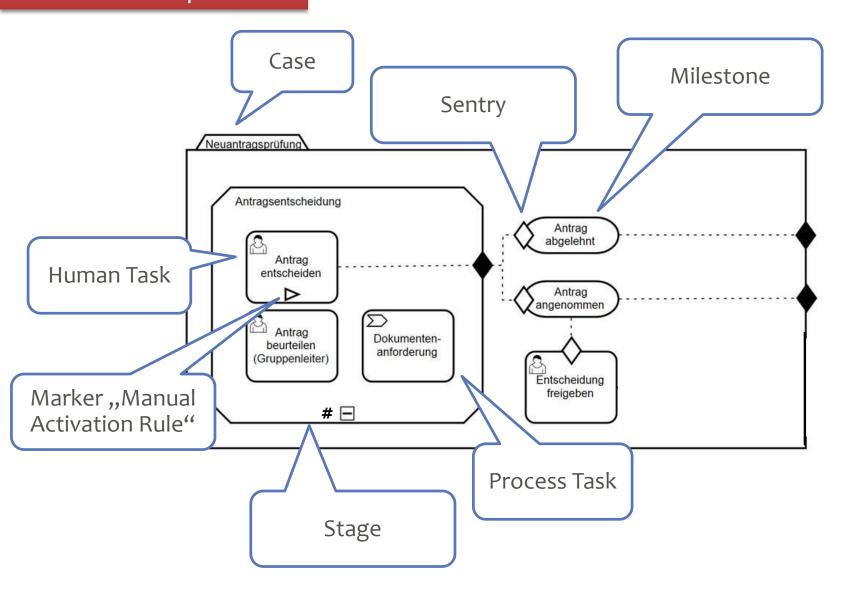
CMMN



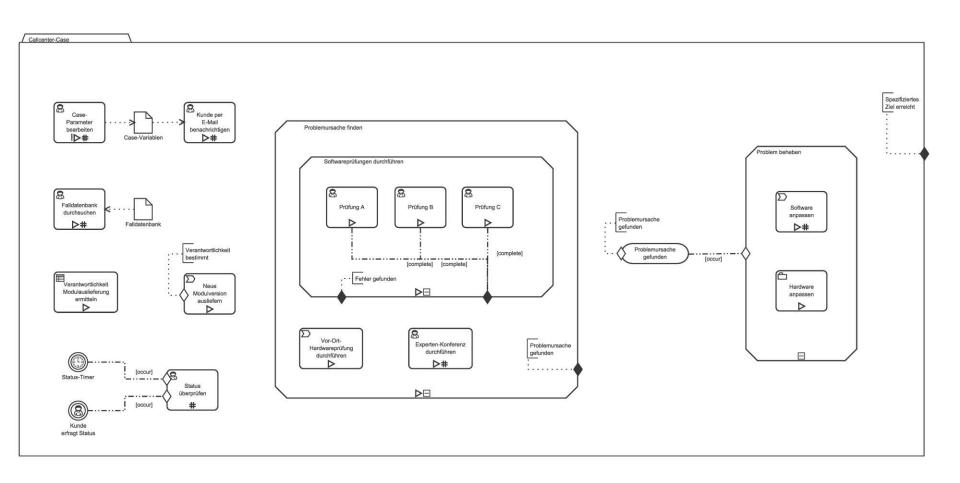




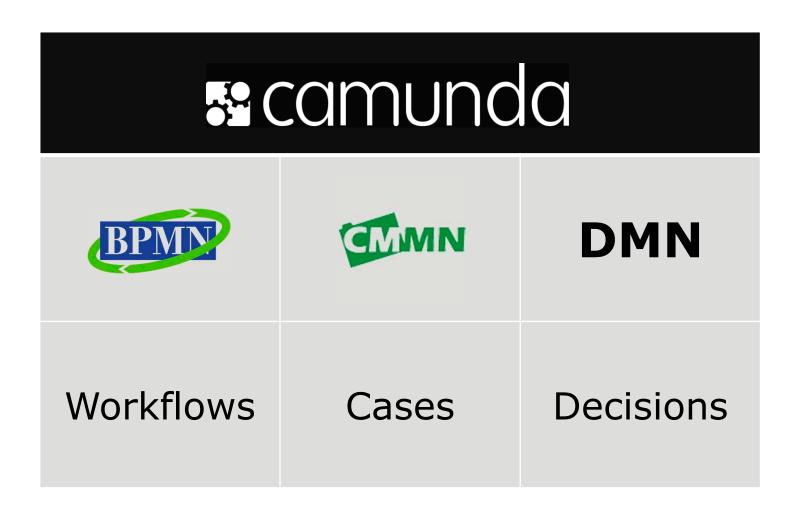
CMMN explained



Callcenter Case (BİTKOM ACM Beispiel)

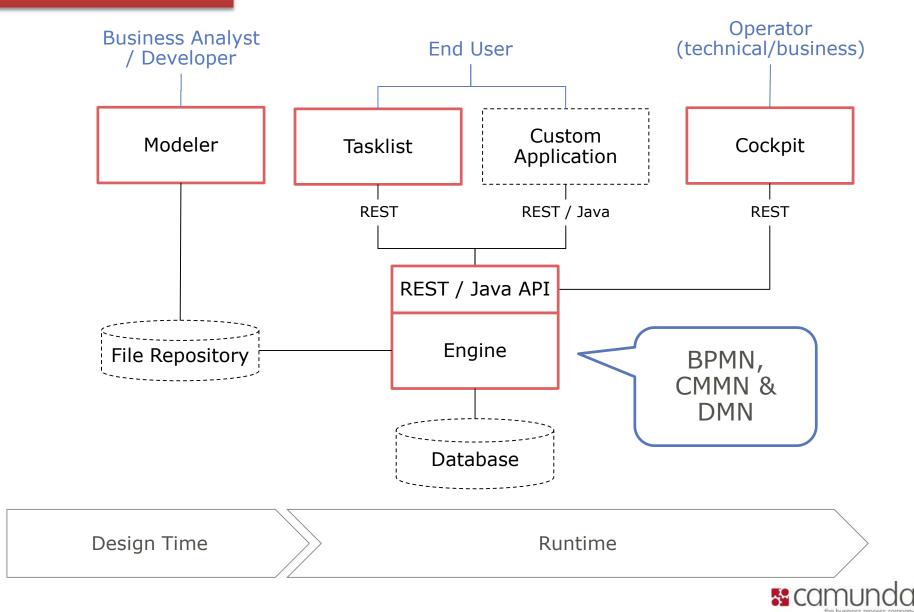


Camunda BPM Platform





camunda BPM

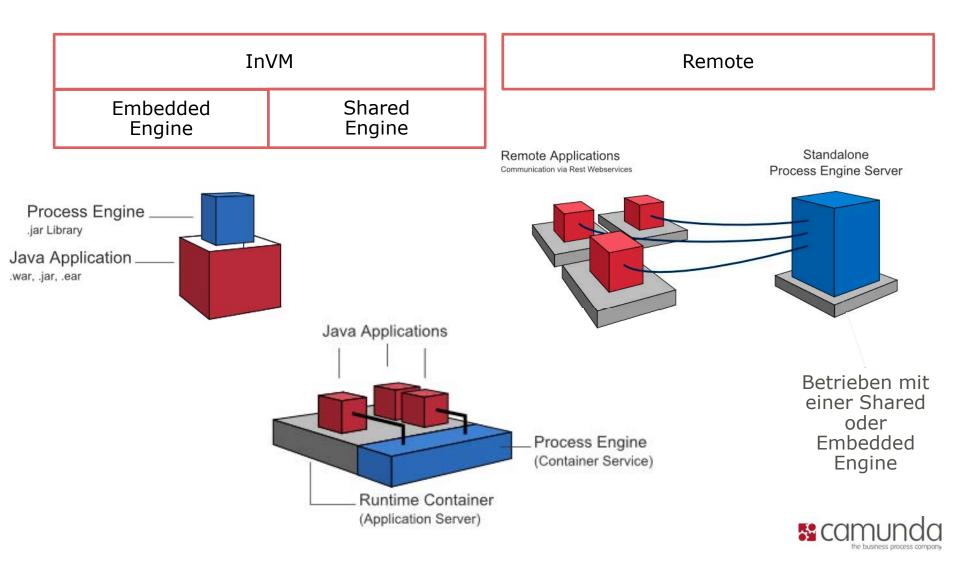


BPM Plattform

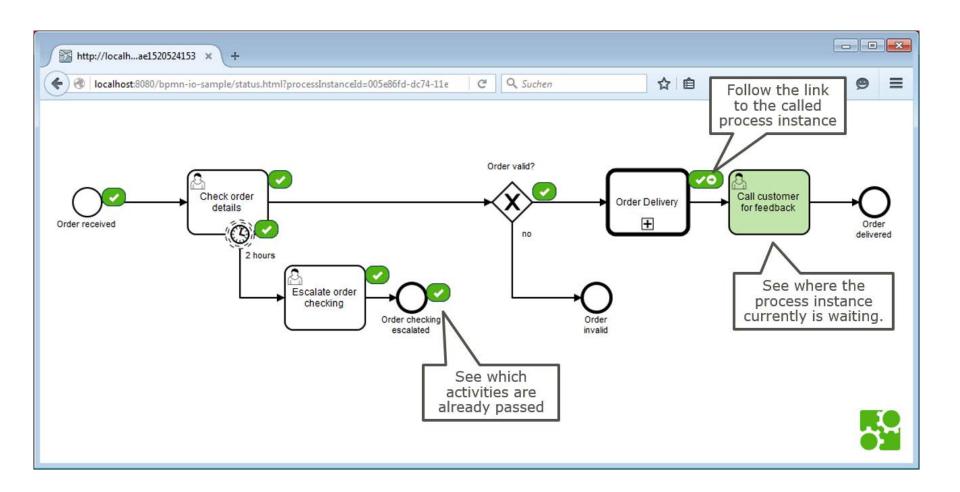




Process Engine in der Architektur

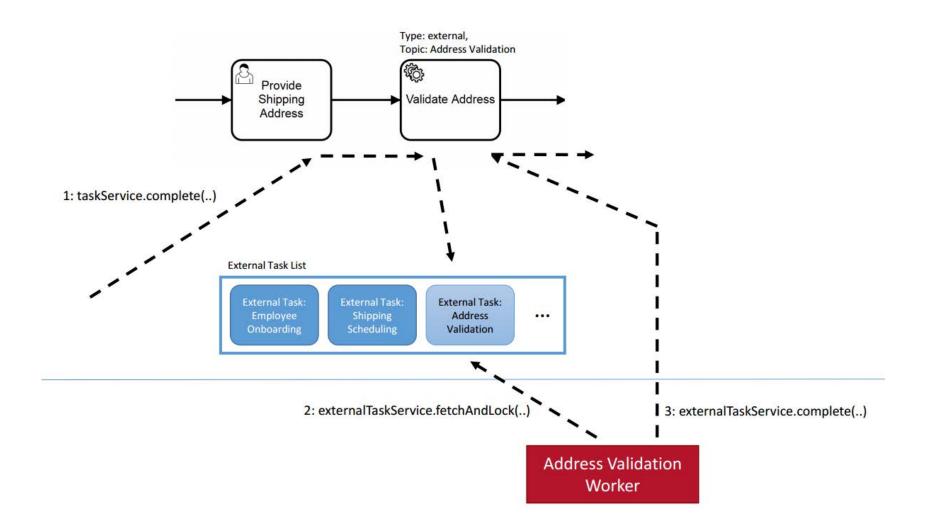


Embeddable Modeler

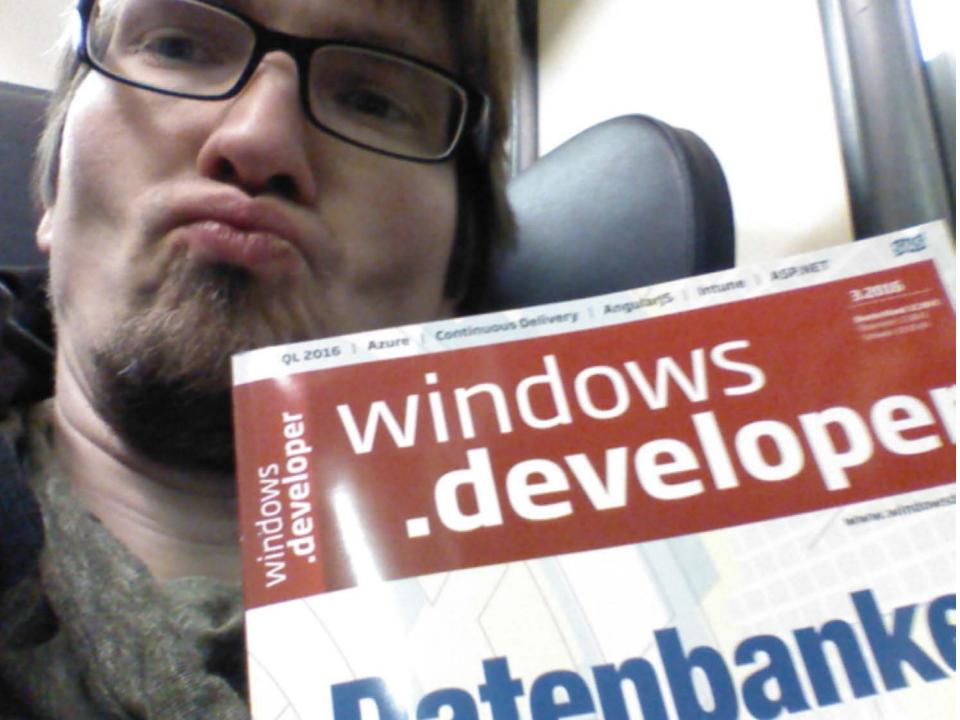


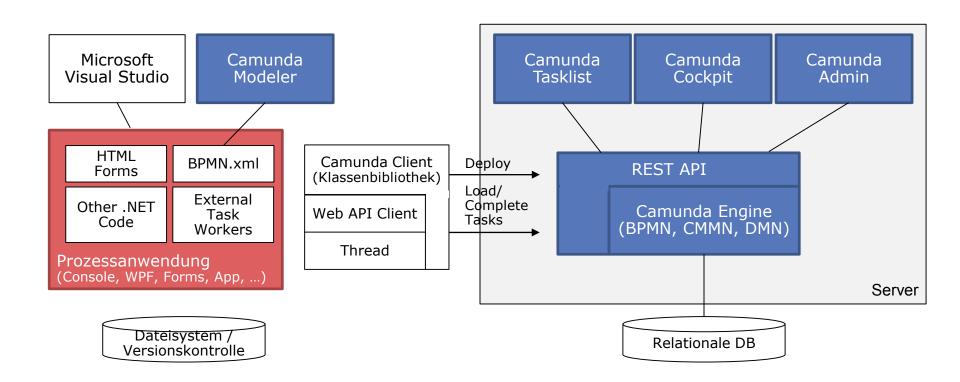


External Task Pattern









Neue Möglichkeiten









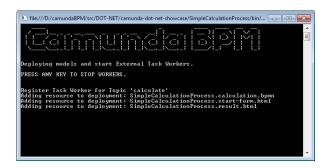












External Task Workers Via REST API Engine + Web Applications + REST API





On Premise

Cloud

Workflow without Pain.

Camunda is written in Java and a perfect match for Java EE and Spring while providing a powerful REST API and script language support. You can use camunda BPM for system integration workflows as well as for human workflow and case management.



Embeddable

You can add camunda to your Java application as a library. You can also use it as a container service in Tomcat, JBoss etc., so it can be used by multiple applications which can be redeployed without shutting down the process engine.



Camunda's core is a slim, rock-solid process engine that can easily handle huge amounts of process instances. It allows you to separate runtime data from history data, is horizontally scalable and can easily run in a cluster.



Adorable

Never fear workflow again, for you will love camunda. We took the pain out of workflow and turned it into something beautiful. Seriously.

Can't believe it?

Learn more about camunda's adorable features.



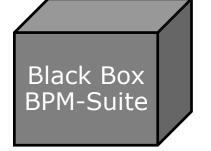
Why is this cool?

- ✓ Passion
- ✓ Productivity
- ✓ No Vendor-Lock-In









DMN BPMN

"Porscho"

<= 25

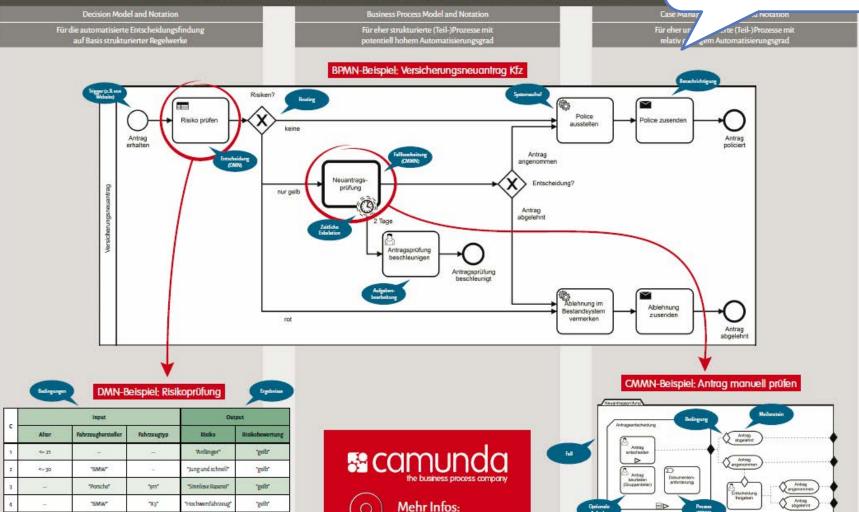
911

lung und zu schnoll

"TOL"

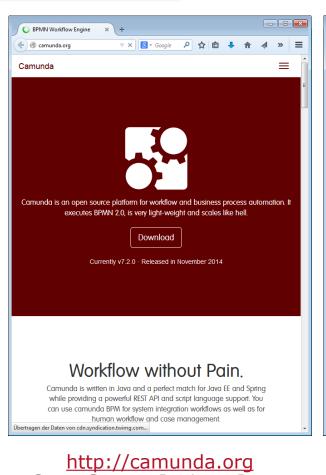
Poster am Stand!

Viele Geschäftsprozesse bestehen aus **regelbasierten Entscheidungen, strukturierten Workflows** und **unstrukturierter Fallbearbeitung**. Durch der drei OMG-Standards **DMN**, **BPMN** und **CMMN** in **Camunda BPM** können solche Geschäftsprozesse ganzheitlich modelliert und automati



camunda.com/bpm

Loslegen!

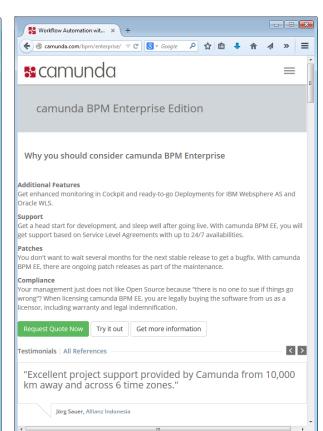


Open Source Project, Docs,

Knowledge, Forum, Guides and Tutorials, ...



http://network.camunda.org BPMN Forum, Meetings, ...



http://camunda.com Company, Enterprise Edition, Consulting & Training, ...



Danke für die Aufmerksamkeit

