CAMUNDA CON 2023

Collaborating for standards-based process and decision automation

The partnership between Camunda and OMG

Falko Menge & Marco Lopes

Agenda

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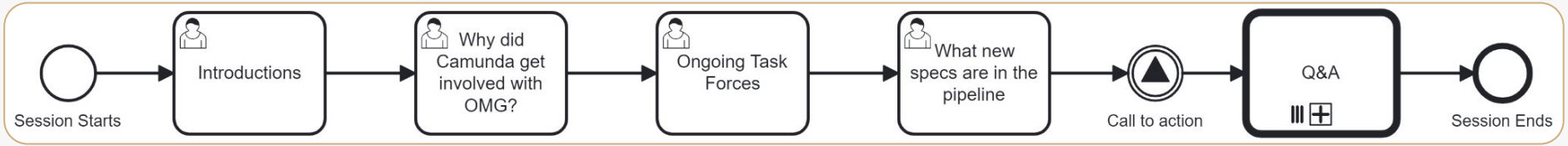

Marco Lopes

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Marco Lopes

Senior Sales Engineer

Open Standards Enthusiast

- 10+ years experience in Process Automation
- 1+ years experience in Open Standards
  - Member of BPMN Model Interchange Working Group

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Falko Menge

Senior Principal Solution Architect

Open Standards Ambassador

- 15+ years experience in Process Automation
- 10+ years experience in Open Standards
  - Chair of DMN Revision Task Force at the OMG
  - Member of BPMN, CMMN, KPMN, SDMN & DD Task Forces
  - Member of BPMN Model Interchange Working Group
  - Chair of BPMN MIWG Test Automation Subgroup
  - Member of DMN Technology Compatibility Kit at WfMC
  - Member of Serverless Workflow Working Group at CNCF
  - OCEB 2.0 Exam Question Author

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History of Process Modeling

Pre-BPMN	BPMN	BPM Trio	BPM+
Workflow Patterns	BPMN 1.x	DMN 1.x	KPMN
BPEL, WSDL, SOAP	BPMN 2.0 FTF	WfMC DMN TCK	SDMN
YAWL, Workflow Nets	BPMN MIWG	FEEL for BPMN	BHM
FMC Petri Nets	BPMN Extensions: Color, I18n, Decorator	CMMN 1.1	SCE
Pi Calculus	OCEB 2.0 Certification Author	Serverless Workflow	PPMN

Evolution of Process Modeling Standards

before 2009

- BPMN 1.x Notation
- Workflow Patterns
- BPEL, WSDL, SOAP
- UML Activity Diagram
- Flow Charts, Petri Nets, YAWL, Workflow Nets

2010-2015

- BPMN 2.0 Model & Notation
- BPMN Model Interchange Working Group (MIWG)
- BPMN Extensions: Color, I18n, Decorator
- OMG Certified Expert in BPM (OCEB)
- Case Management (CMMN 1.1)

2016-2020

- DMN 1.x
- DMN Technology Compatibility Kit (TCK)
- FEEL for BPMN
- OMG Certified Expert in BPM 2 (OCEB 2)
- CNCF Serverless Workflow

2021+

- Knowledge Package (BKPMN)
- Shared Data (SDMN)
- Harmonization (BHMN)
- Specification Core Elements (SCE)
- Pedigree & Provenance (PPMN)

How did you get to know BPMN?

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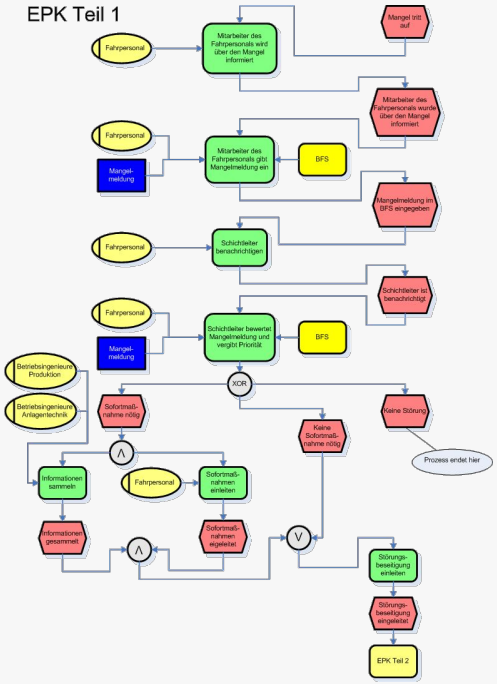

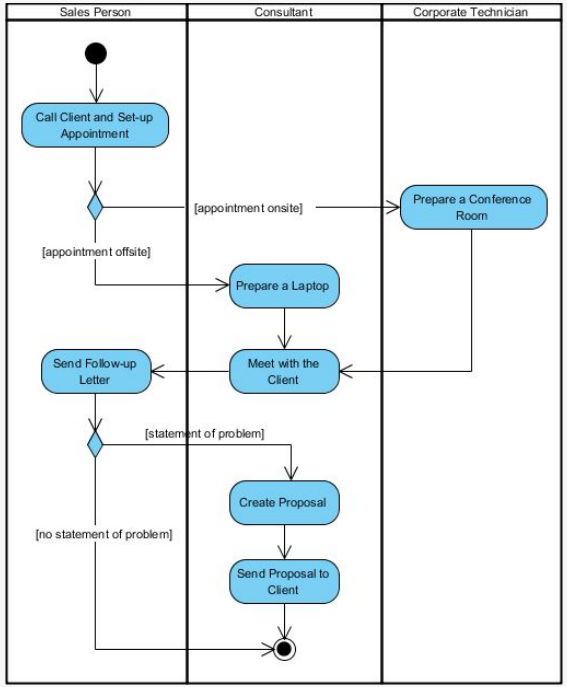

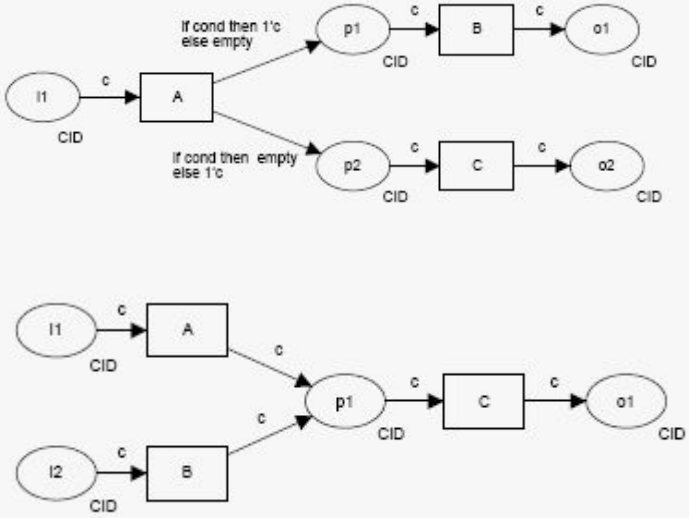

Open Standards enable...

- **Universities** teach & research
- Standards are more generic & vendor-neutral
- Companies can hire BPMN knowledge straight out of university

bpm-conference.org

Open Standards enable Universities to teach & research

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Why did Camunda join OMG?

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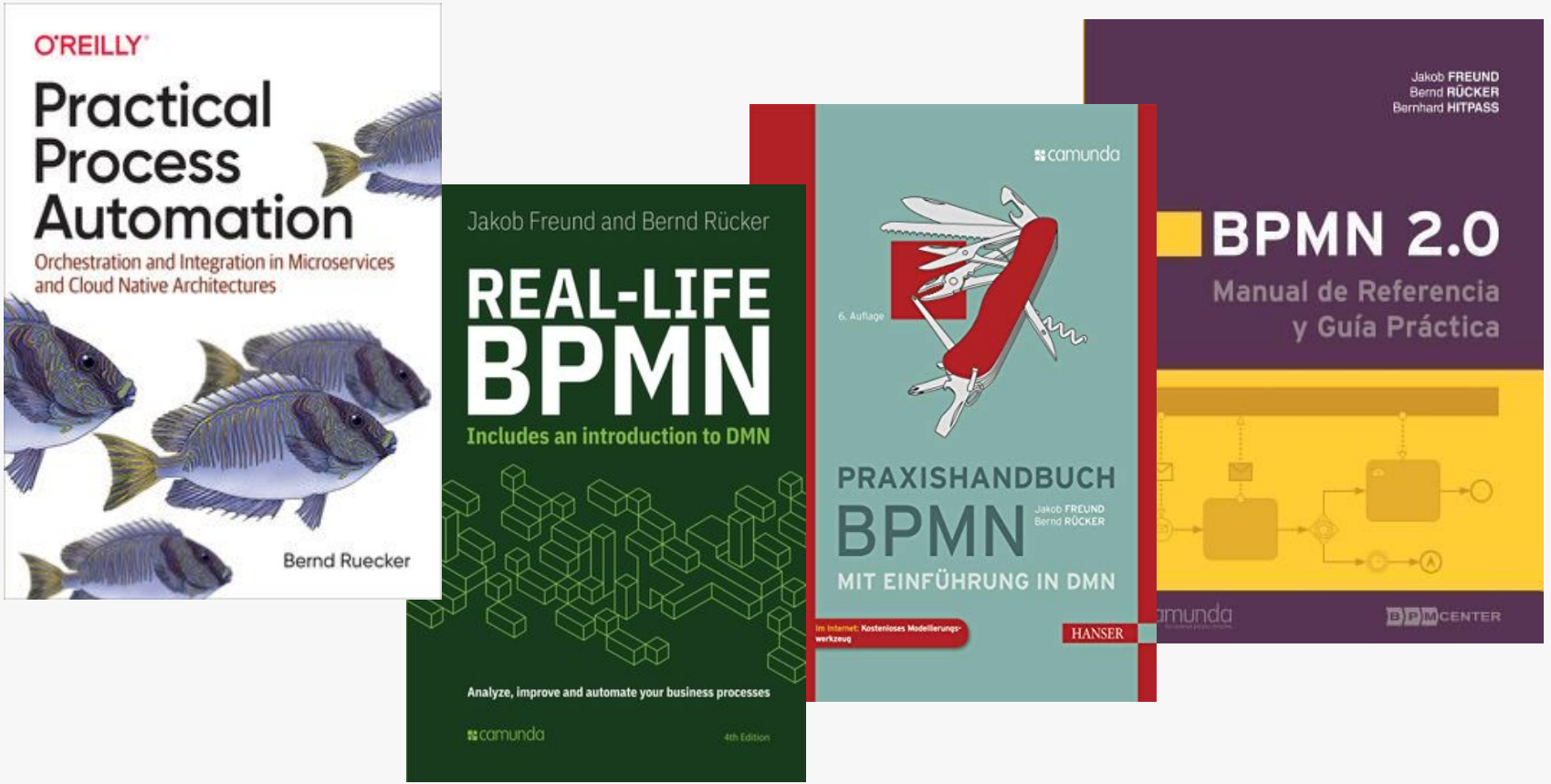
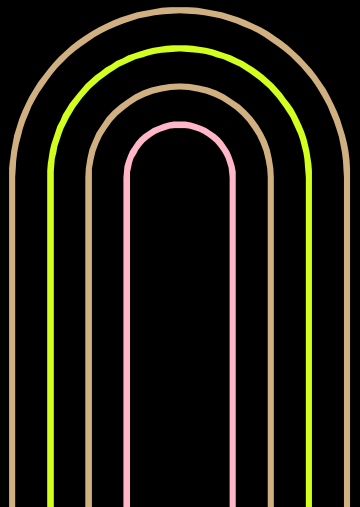


Open Standards enable...



- Common knowledge in the process automation community, e.g. execution semantics of BPMN
- Publishing technology-agnostic books
- Providing training to both business and IT simultaneously

What does the standardization work look like?

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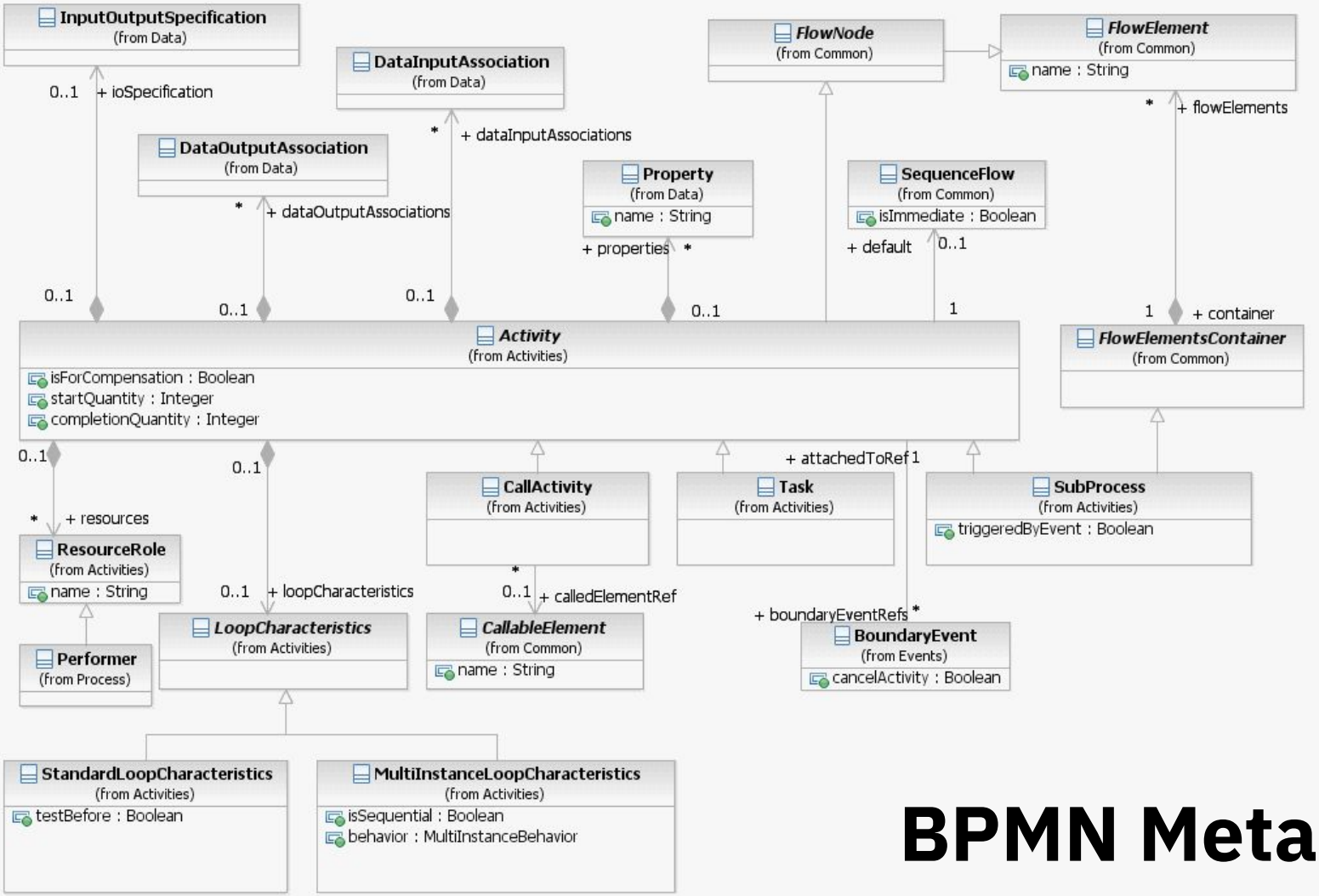

BPMN Meta Model

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BPMN 2.0 Face 2 Face Meeting 2010

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Camunda Modeler Evolution

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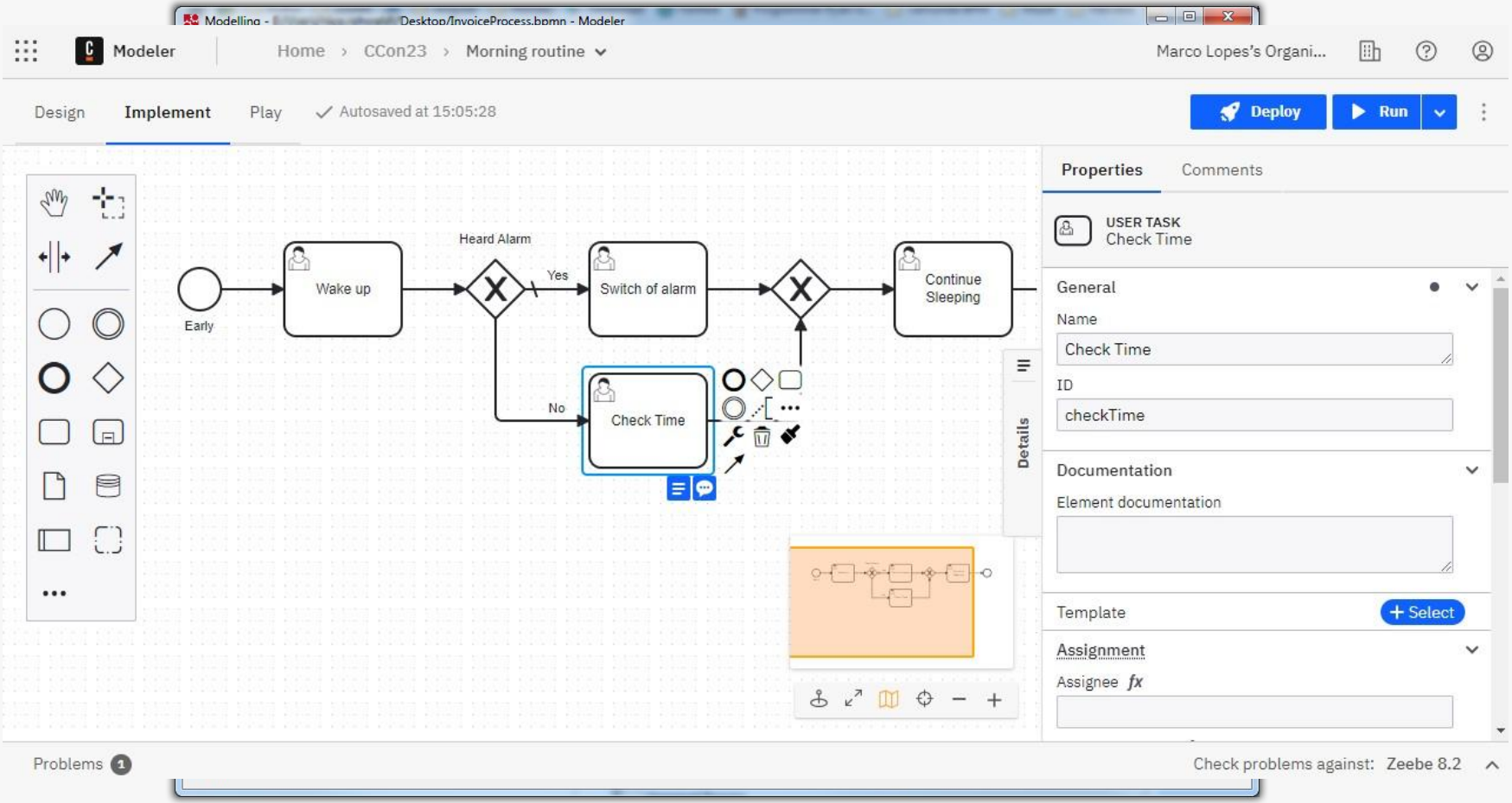
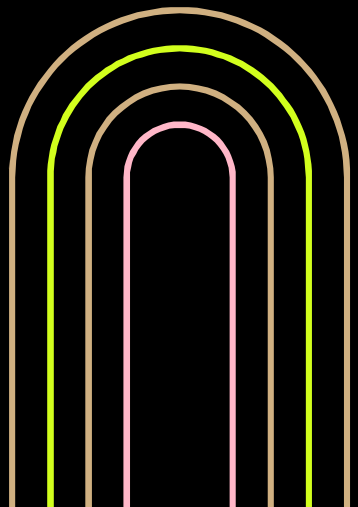


Open Standards enable...



- Standing on the shoulders of giants, i.e. **smart people** from many vendors & universities try to find the best solution for the customers
- Great combination of research & engineering

Ongoing Collaborations.

BPMN Model Interchange Working Group (BPMN MIWG):
Camunda's Motivation

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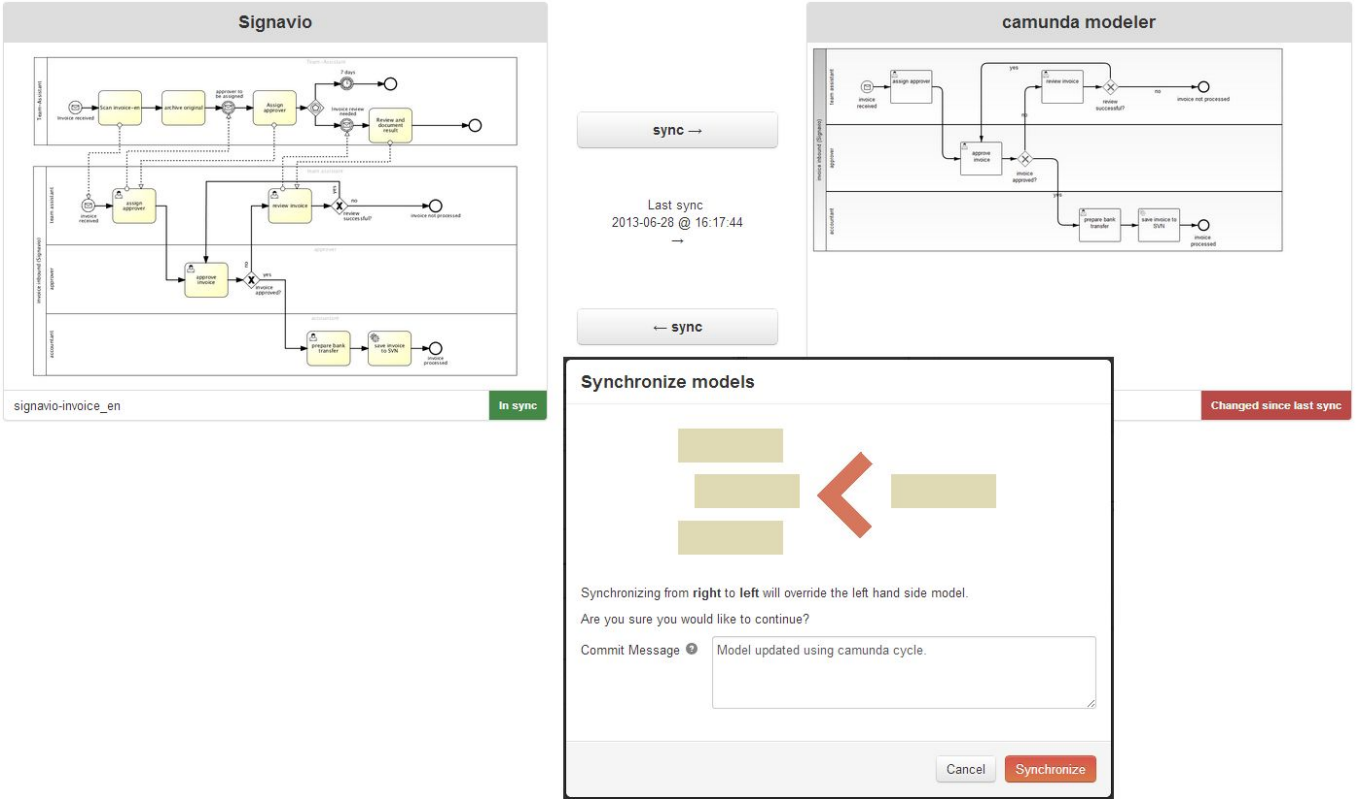

BPMN Model Interchange Working Group (BPMN MIWG): The First Live Demo

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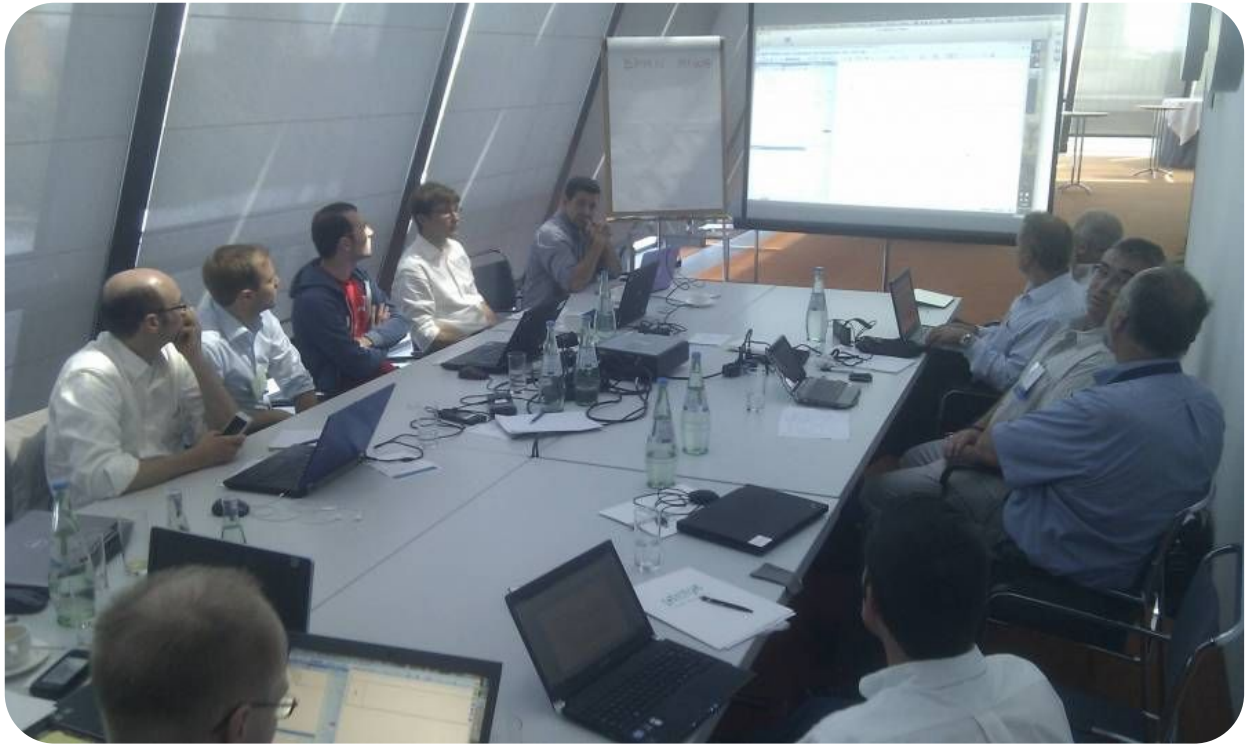

BPMN MIWG PARTICIPANT

BPMN Model Interchange Working Group (BPMN MIWG)

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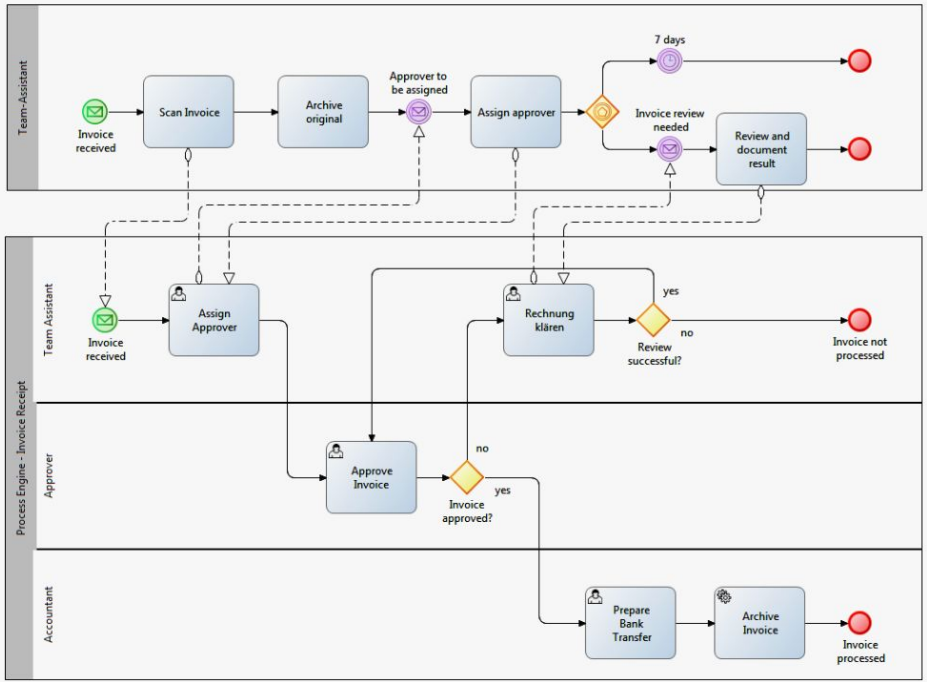
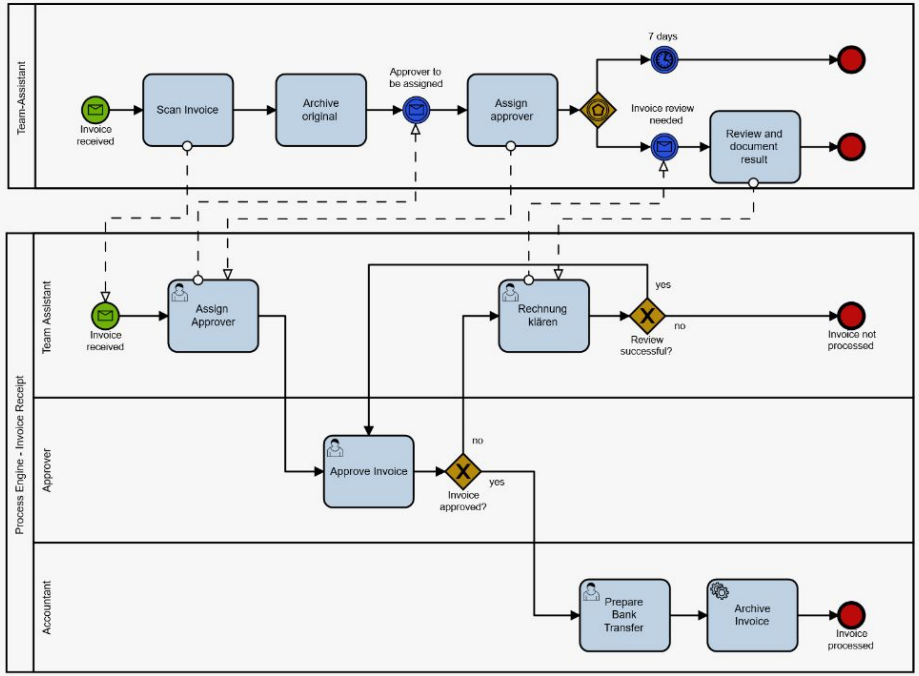
C.1.0 reference



Bounds Overlay | BPMN file | Reference folder

C.1.0 import



Bounds Overlay | Results folder

MIWG model interchange test results

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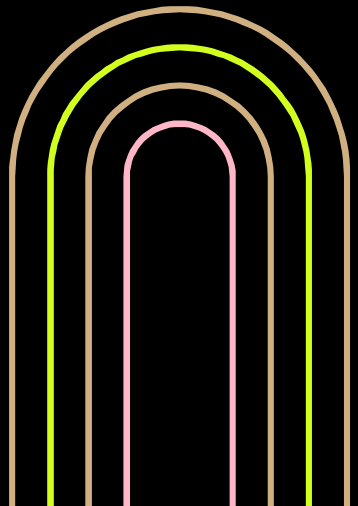
Vendor	Tool	BPMN 2.0	Import	Export	Roundtrip	Demo Participation	Last Test Submission	A Results Submitted	B Results Submitted	C Results Submitted	Schema-valid
Camunda	bpmn.io (Camunda Modeler) 11.5.0	✓	Diff	Diff	Details	2022, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013	2023	24/24	8/8	24/24	14/14
BOC Group	ADONIS 14.0	✓	Diff	Diff	Details	2022, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013	2023	24/24	8/8	24/24	14/14
Software AG	ARIS 10.0.22	✓	Diff	Diff	Details	2022, 2020, 2019, 2018	2023	24/24	8/8	24/24	14/14
Esteco S.p.A.	Cardanit (prev. BeePMN) 4.9.1	✓	Diff	Diff	Details	2022, 2020, 2019, 2018, 2017, 2016	2023	16/24	0/8	24/24	6/10
Trisotech	Trisotech Workflow Modeler 10.15.3	✓	Diff	Diff	Details	2022, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013	2022	24/24	8/8	24/24	14/14
MID GmbH	MID Innovator 15.1.1.11026	✓	Diff	Diff	Details	2022	2022	24/24	8/8	24/24	14/14
OMNINET	OMNITRACKER BPMN 12.3	✓	Diff	Diff	Details	2022, 2020	2022	24/24	8/8	24/24	14/14
viadee Unternehmensberatung AG	BPMN-Modeler for Confluence Enterprise 3.19.0	✓	Diff	Diff	Details	2022, 2020	2022	22/24	8/8	24/24	14/14
MID GmbH	MID bpanda 2019.05.0.8393	✓	Diff	Diff	Details	2022	2019	24/24	8/8	16/24	11/11
KnowProcess Limited	KnowProcess 3.0.0-beta-1	✓	Diff	Diff	Details	2022, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013	2018	4/24	2/8	3/24	0/0
Signavio GmbH	Signavio Process Editor	✓	Diff	Diff	Details	2022, 2020, 2018, 2017, 2016, 2015, 2014, 2013	2016	24/24	8/8	16/24	11/13

Open Standards enable...



- **Interoperability** via standard file format
- Switching of tools or tool versions gets easier
- Little or no vendor lock-in

DMN: Decision Model and Notation
FEEL: Friendly-Enough Expression Language

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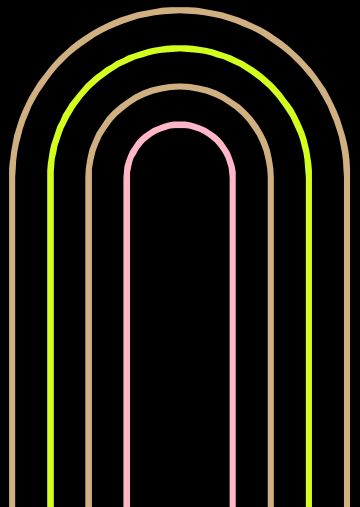
Input Data

Open Standards enable...



- **Better language** than any single vendor could build on their own
- Standardization forces vendors to find a common denominator
- Different angles/perspectives are aligned with each other

DMN Technology Compatibility Kit (TCK)

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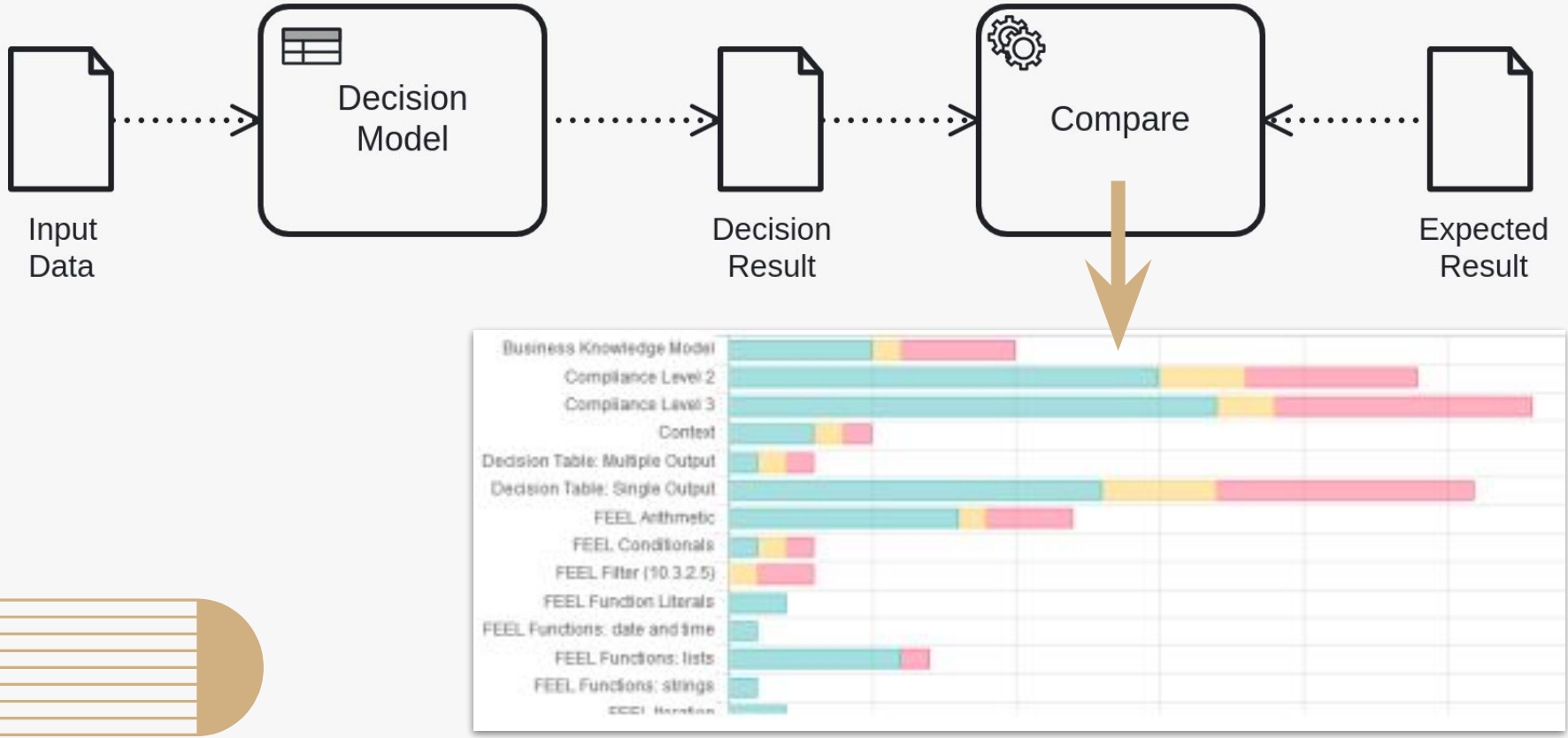

DMN Technology Compatibility Kit (TCK)

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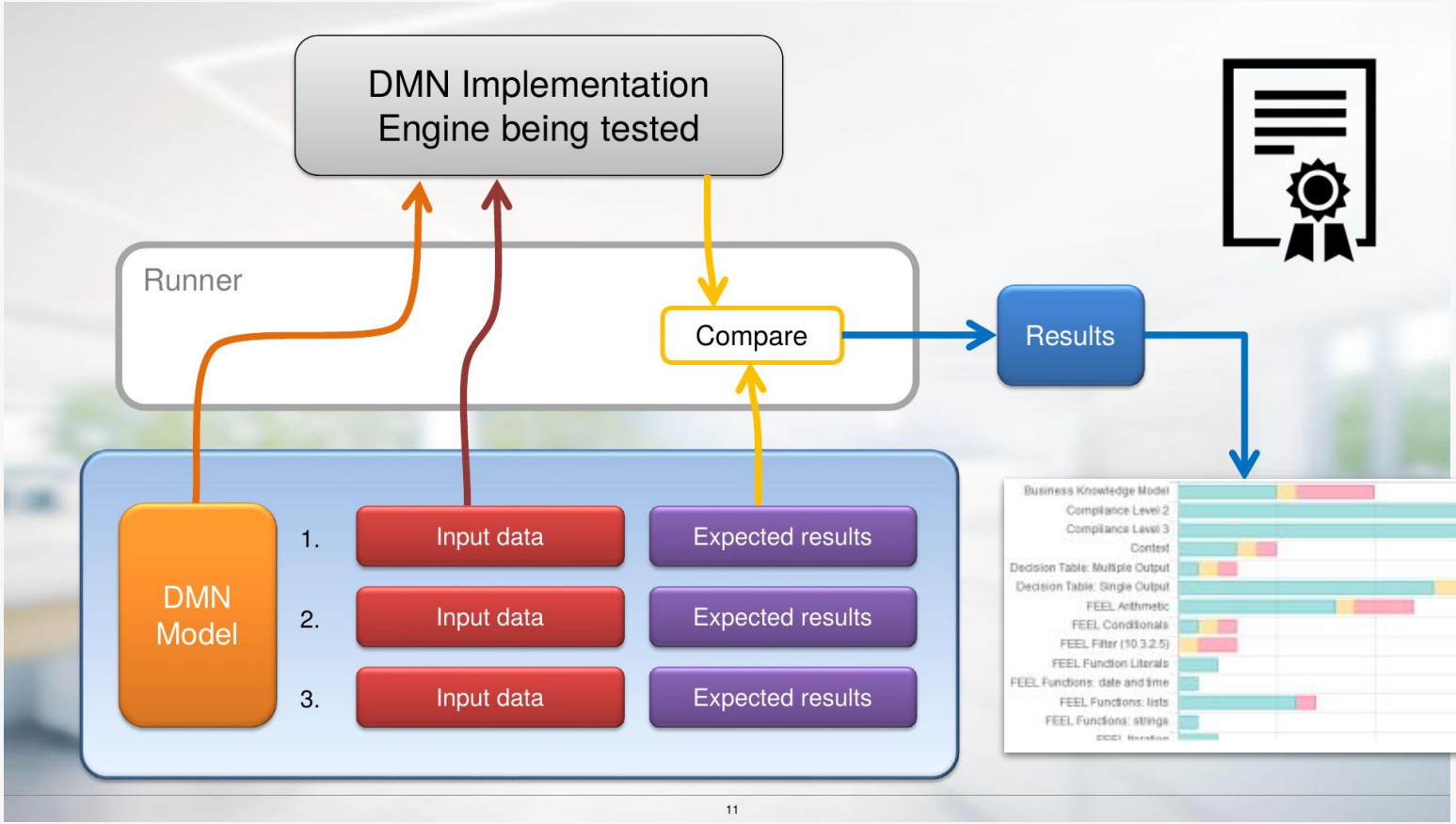


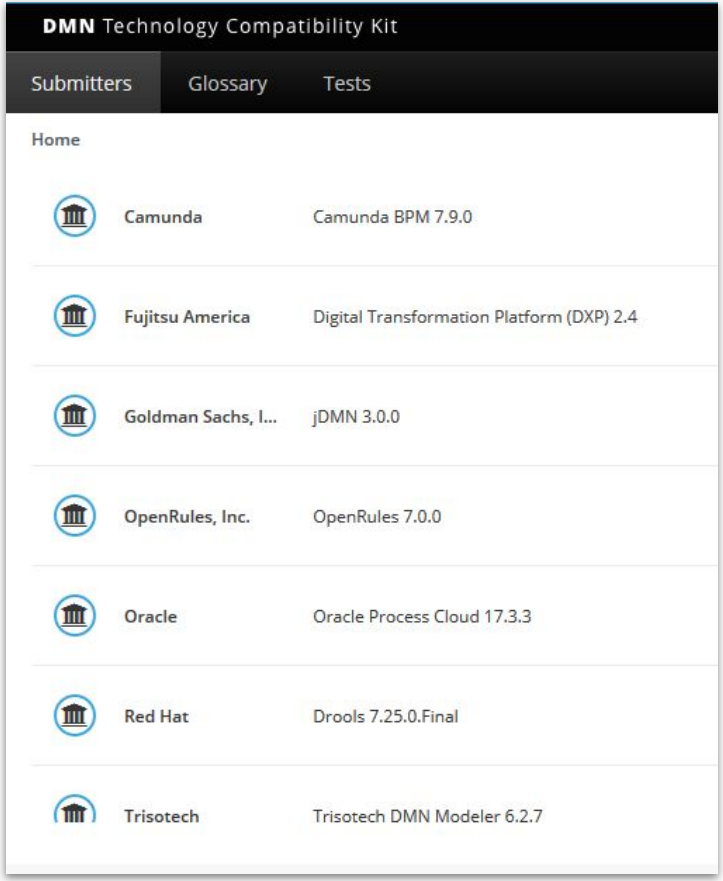
source:
Keith D Swenson, “Close is Not Close Enough”, Decision Camp 2019

DMN Technology Compatibility Kit (TCK)

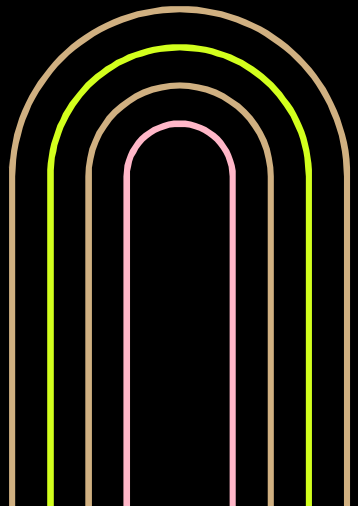
- 1700 Test Cases
- 120 DMN Models
- Helps Vendors become compliant
- 8 Vendors **demonstrate** their compliance
- Also reveals issues with the spec, which are then reported to the RTF

https://dmn-tck.github.io/tck/

Submit your models to the DMN TCK!



Open Standards enable...



- Free and Open Source implementations of modeling and execution tools
- Barriers reduced for building Open Source because, e.g. Specification is freely available

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What is there to come?

BHMN: BPM+ Harmonization Model & Notation

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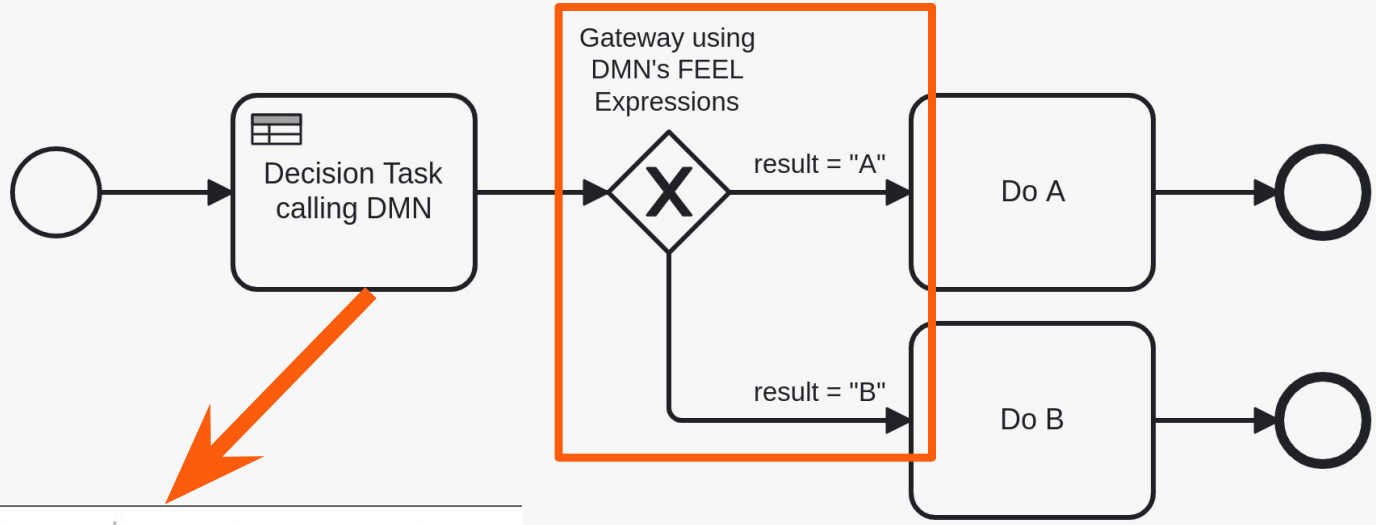

Order Discount | **Hit Policy:** Unique

	When	Then
	Order Amount (long)	Discount (integer)
1	<500	0
2	[500..999]	2
3	[1000..1999]	3
4	[2000..4999]	5
5	>=5000	8

SDMN: Shared Data Model and Notation

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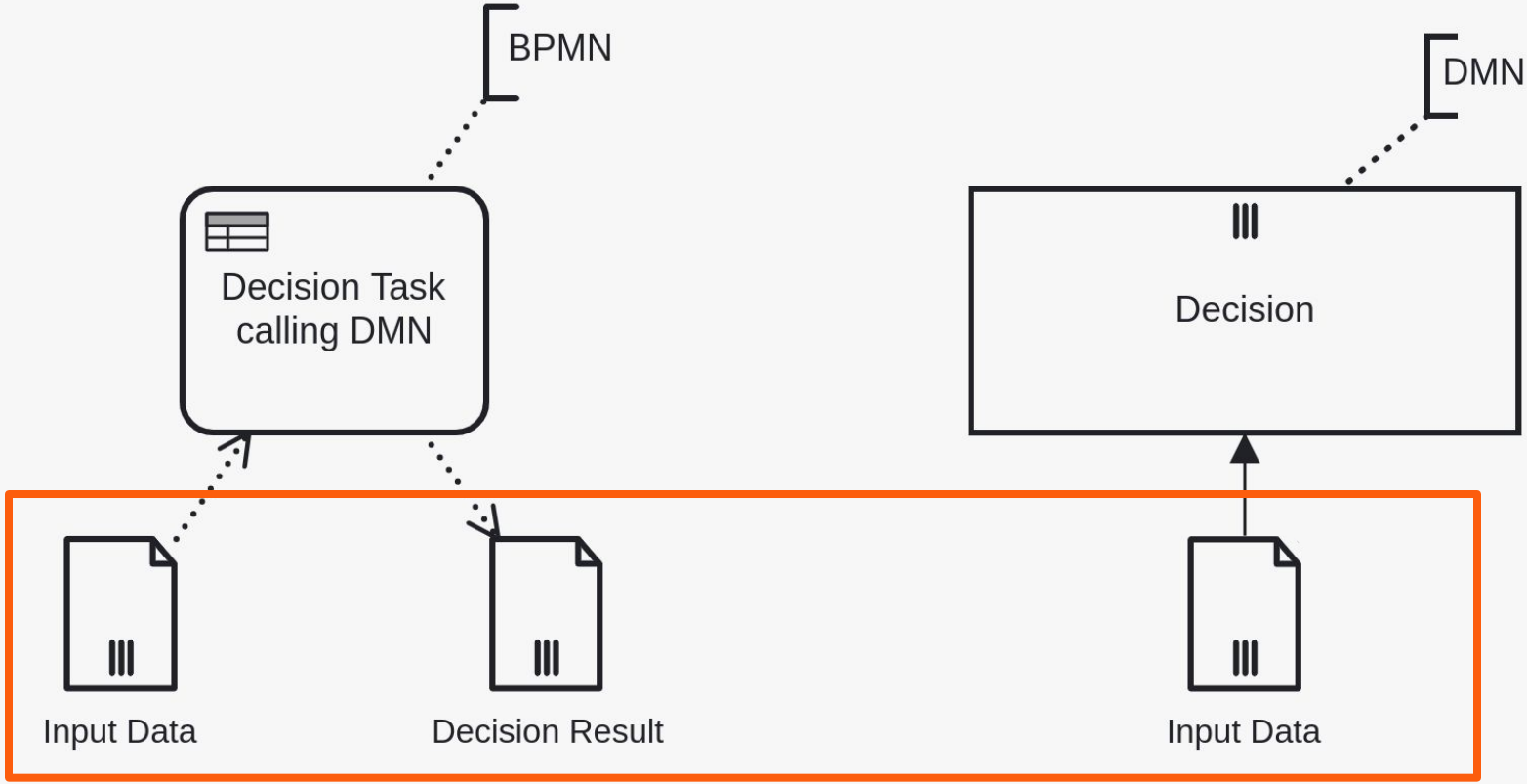

SDMN: Shared Data Model and Notation

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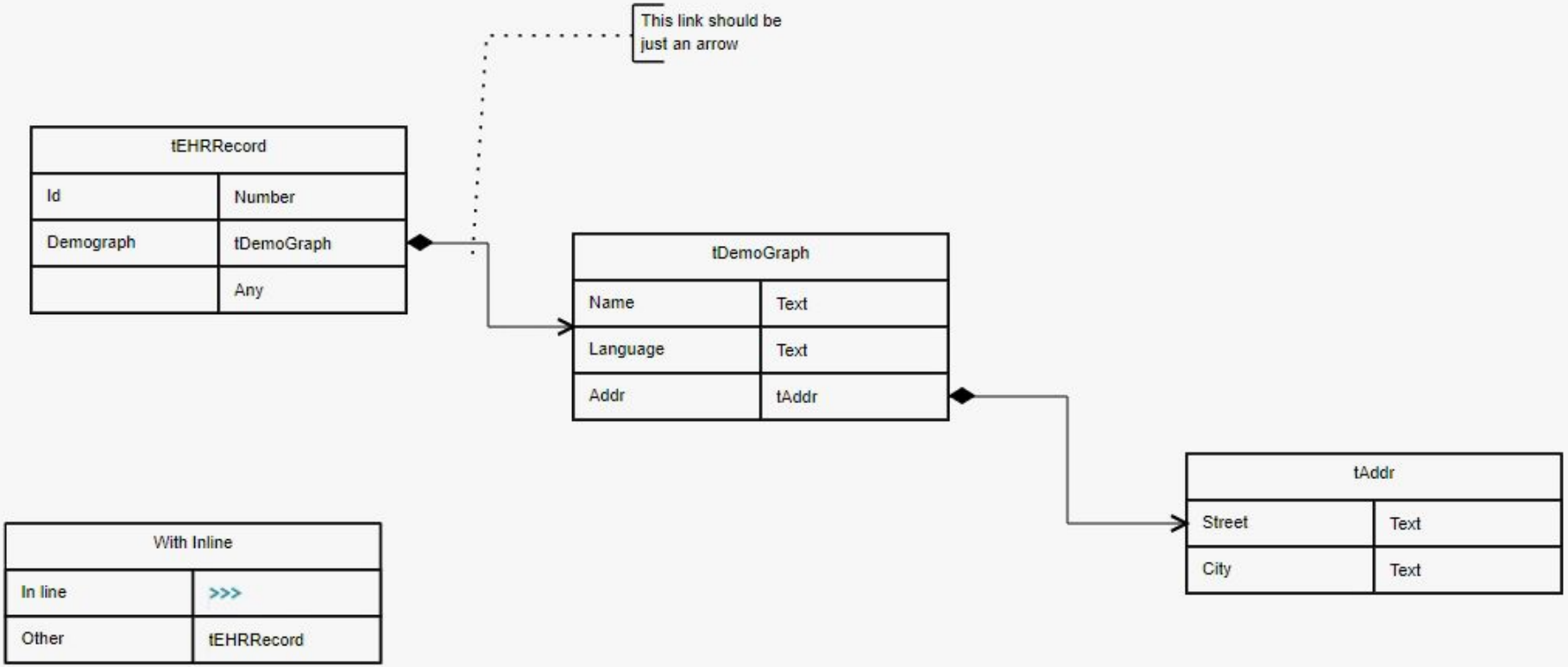

KPMN: Knowledge Package Model & Notation

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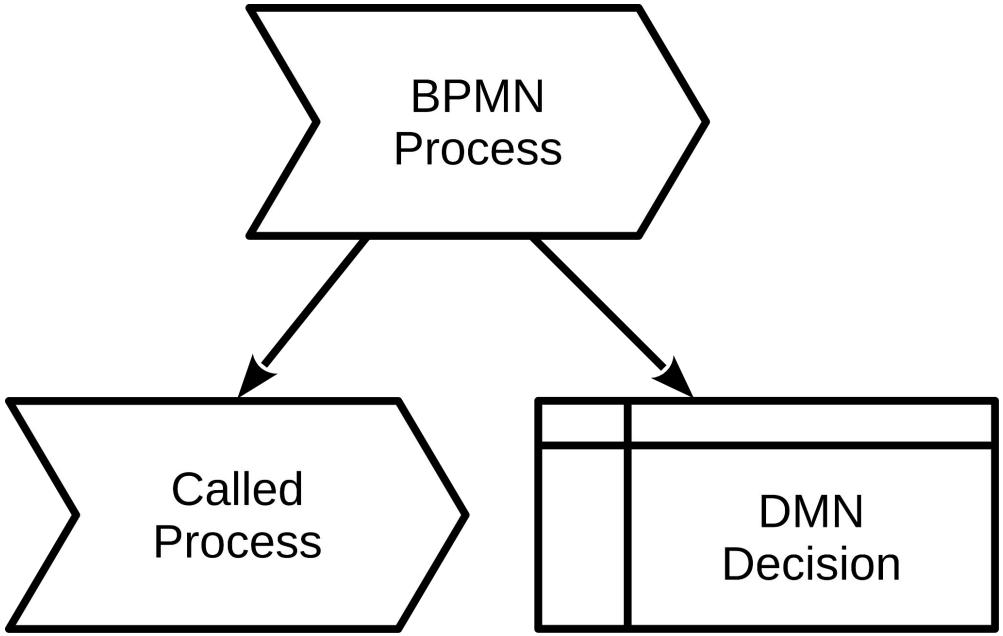

Key Takeaways

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- Common knowledge with books, trainings & university courses that survives across tools, projects, and even when changing jobs
- Better languages due to collaboration of different vendors, scientists & enthusiasts
- Interoperability among tools reduces vendor lock-in and allows combination of tools
- Free and Open Source implementations

Resources

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Camunda Academy

https://academy.camunda.com

Camunda 8 - Get Started (Web Modeler)

https://camunda.com/get-started

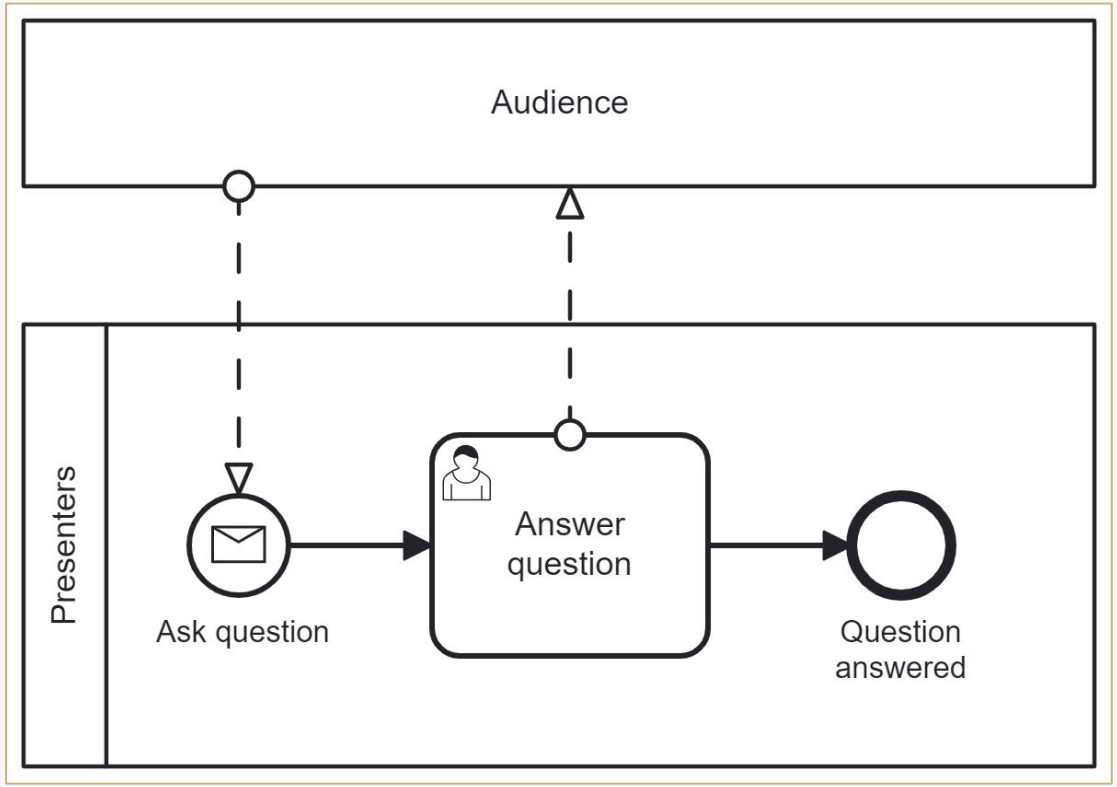
Camunda forums

https://forum.camunda.io

Camunda Educational License Program (CELP)

https://camunda.com/educationee

Q&A


Audience
Presenters
Ask question
Answer question
Question answered

Thank you!