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Workflow & Decision automation technology that empowers to automate core business processes, supporting digital transformation for all enterprises.

Camunda – Workflow & Decision Automation Platform

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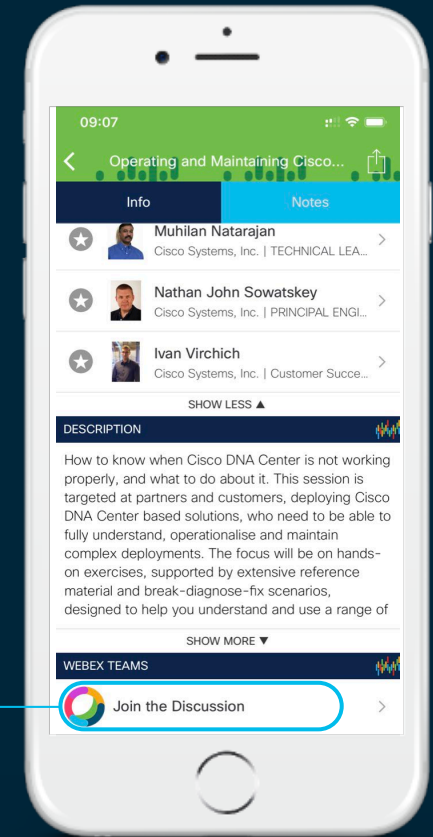
BRKOPS-1456

Cisco Webex Teams

Questions?

Use Cisco Webex Teams to chat
with the speaker after the session

How

1. Find this session in the Cisco Events Mobile App
2. Click "Join the Discussion"
3. Install Webex Teams or go directly to the team space
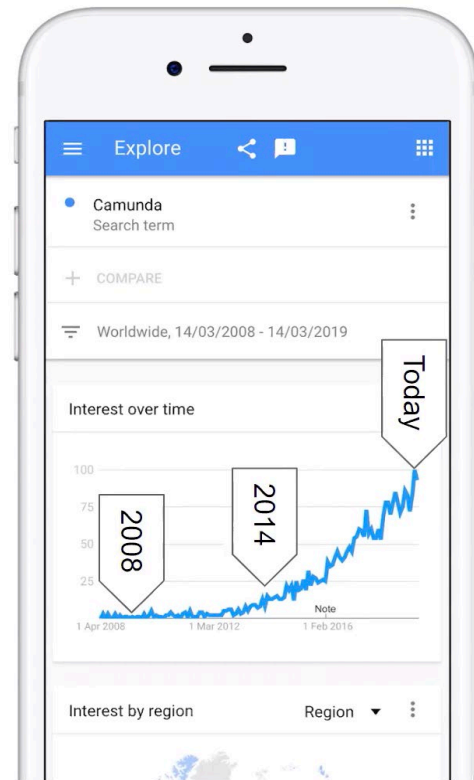4. Enter messages/questions in the team space

Agenda

✔️ History and Mission

✔️ Camunda Architecture - Product Stack Overview

✔️ Dashboard and Demo
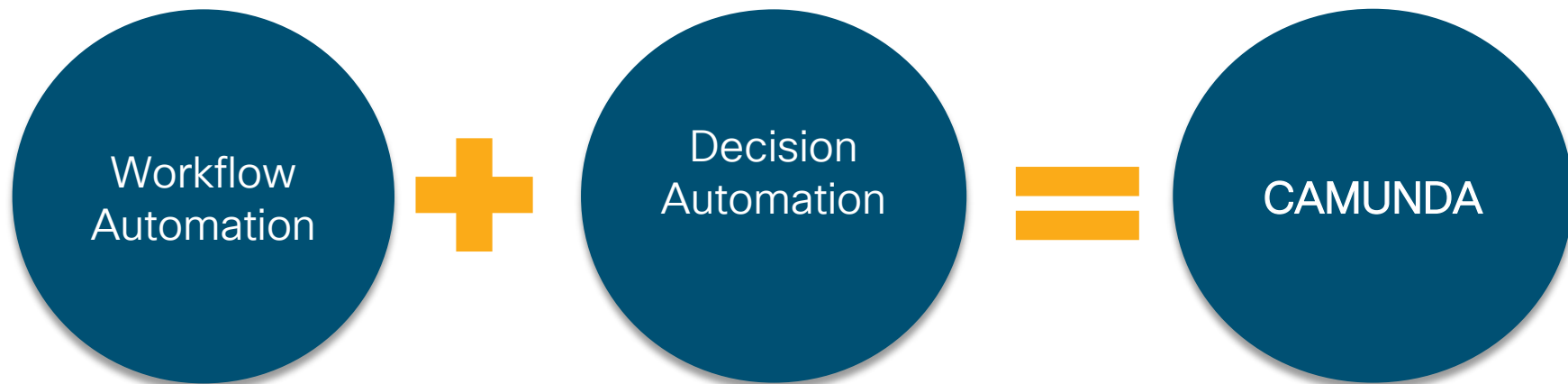
✔️ Use-cases

✔️ Customer Benefits

✔️ Q&A

The Camunda Story

✔ **2008: Company Founded**
   Bernd Rücker and Jakob Freund
   Bootstrapped
   Consulting for Business Process Management

✔ **2013: Camunda BPM Open Source Launched**
   Advocating "developer-friendly BPM"
   Alternative to traditional low-code BPMS

✔ **Today: Technology Leader for Deep Process Automation**
   Thousands of users
   More than 250 customers

Camunda Mission
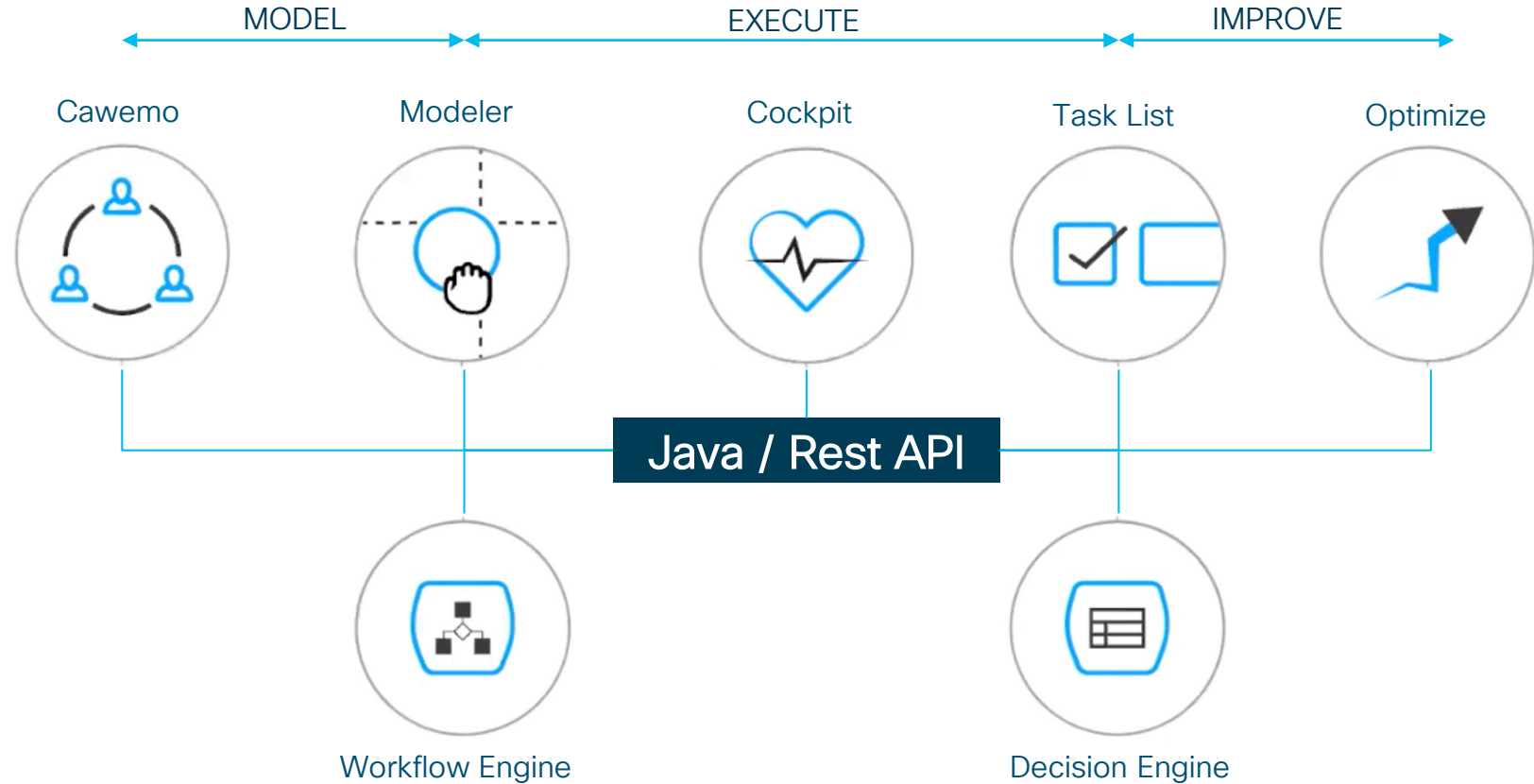
Workflow Automation **+** **Decision Automation** **=** **CAMUNDA**

Provides workflow and decision automation technology that empowers both software developers and business stakeholders to automate core business processes to the highest possible extent, supporting digital transformation for all enterprises.

CAMUNDA ARCHITECTURE

Camunda Product Stack

MODEL   EXECUTE   IMPROVE

Cawemo   Modeler   Cockpit   Task List   Optimize

Java / Rest API

Workflow Engine   Decision Engine

Project Stages

Kick-Off   Go Live   Ongoing

Prepare → Design & Implement → Operate & Fix / Analyze & Improve

✔ **Prepare:** Define project vision, evaluate platform options, setup project infrastructure.

✔ **Design & Implement:** Understand requirements, specify, build and test the solution.

✔ **Operate & Fix:** Operate the solution in production, monitor availability and handle incidents.

✔ **Analyse & Improve:** Review business value of the solution, find room for improvement.

Cawemo

✔ Used by **Any Project Stakeholder.**

✔ Web Application for collaborative process design.

✔ Edit BPMN process diagrams simultaneously with multiple people (versioning included).

✔ Attach specification descriptions and links to process steps.

✔ Discuss with all team members within the diagram.

✔ Embed diagrams into HTML pages (E.g. Atlassian Confluence).
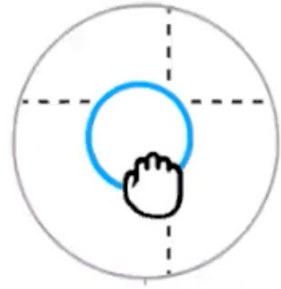
✔ Integrated with other Camunda BPM tools.

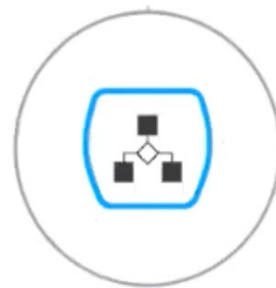Design & Implement

Analyze & Improve

Modeler

✔️ Used by **Software Developers.**

✔️ Desktop Application for modelling BPMN workflows and DMN decisions.

✔️ Edit all properties necessary for technical execution.

✔️ Works directly on the BPMN and DMN XML files, developers can easily combine it with their preferred IDE.

✔️ Direct deployment to different runtime execution servers.

✔️ Element templates for customizing the properties panel.

✔️ Extendable via custom plugins.

Design & Implement

Workflow Engine

✔ Used by **Software Developers.**

✔ Very light-weight (< 3 MB), headless BPMN workflow models execution engine.

✔ Supports (micro-) services orchestration as well as human workflow management.

✔ Accessible via REST API and extended with native clients for various languages (Java, JavaScript, .NET etc).

✔ Existing integrations with popular Java frameworks   like Spring and Spring Boot.

✔ High throughput, cluster-ready and horizontally   scalable.

Design & Implement

Decision Engine

✔ Used by **Software Developers.**

✔ Very light-weight (< 2 MB), headless DMN decision model execution engine.

✔ Business stakeholders can define and Maintain executable business rules themselves.

✔ Accessible via REST API and Java API.

✔ Pre-integrated with the workflow engine, to support complex decision model executions within workflow executions.

✔ Very fast and supporting high throughput.

Design & Implement

Dashboard and Demo

Cockpit

✔️ Used by **Technical Operators.**

✔️ Web application to monitor workflows and decision in production in order to discover, analyse and solve technical problems.

✔️ Provides a dashboard of running BPMN process models and highlights technical incidents.

✔️ Supports root cause analysis with process audit trails, variable change logs and decision execution history views.

✔️ Extensive feature set for fixing errors with single process instances as well as big batches with thousands of process instances.

Operate & Fix

Task List

✔️ Used by **Human Task Workers.**

✔️ Web application that allows end users to work on the tasks assigned to them, as part of human workflow management.

✔️ Very easy and convenient to use front-end.

✔️ Tasks can be filtered, claimed and re-assigned, as well assigned with a follow-up date.

✔️ Extensive user group and permissions management, also in combination with LDAP based integration with existing user management systems (E.g., Active Directory).

Operate & Fix

Optimize

✔️ Used by **Business Stakeholders.**

✔️ Web application to provide real-time monitoring and analysis to any business user.

✔️ Users can create reports (bar charts, line charts etc.) and arrange them in dashboard.

✔️ BPMN-based reports for additional insights, E.g. With heatmaps for spotting bottlenecks.

✔️ Alerts can notify stakeholders via email when critical KPI meet certain thresholds.

✔️ Machine-learning backed process analytics to identify room for improvement, for example by recognizing correlation patterns.

Analyze & Improve

Dashboard and Demo

Use-cases

✔️ Automate manual / paper-based work.

✔️ Migrate existing workflows from:
　　　　　legacy BPMS
　　　　　product with embedded workflows
　　　　　homegrown workflows

✔️ Add workflows to software product.

✔️ Provide centralized workflow infrastructure.

Customer Benefits

✔ Faster Processing – leads to increase customer satisfaction.

✔ Process Transparency.

✔ Increase flexibility.

✔ Reduce time-to-market.

✔ Reduce costs.

✔ Higher throughput.

✔ Scalability.

✔ Customization layer for workflows (domain specific low-code platforms).

Action Item

✔ Start reviewing your Business Processes.

✔ Identify the core Business Processes for automation using Camunda.

Key Takeaways

✔️ Workflow & Decision automation technology.

✔️ Empowers to automate core business processes.

✔️ Model -> Execute -> Improve

✔️ Best suited, if developers are part of the business process.

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