



Camunda 8.7: Agentic Orchestration for the Enterprise

Operationalize AI across people, systems, and devices with
new AI agents and task automation capabilities

The Technology Disruption of our Decade

Just like the internet and mobile phones,
AI will have a profound impact on how organizations...

- Serve and interact with customers
- Design and deliver products
- Collaborate with partners and suppliers
- Enable and empower employees

AI: Big Opportunities, Real Challenges



83%

of executive leaders are driving AI strategy at their companies — **but the majority face significant challenges...**

85%

struggle to scale and operationalize AI

90%

indicate orchestrating AI is critical to ensuring compliance with regulations

Why AI needs process orchestration



Quick AI and automation wins come at the expense of creating **disjointed solutions** that **can't scale** and **limit value**.



ERP



CRM



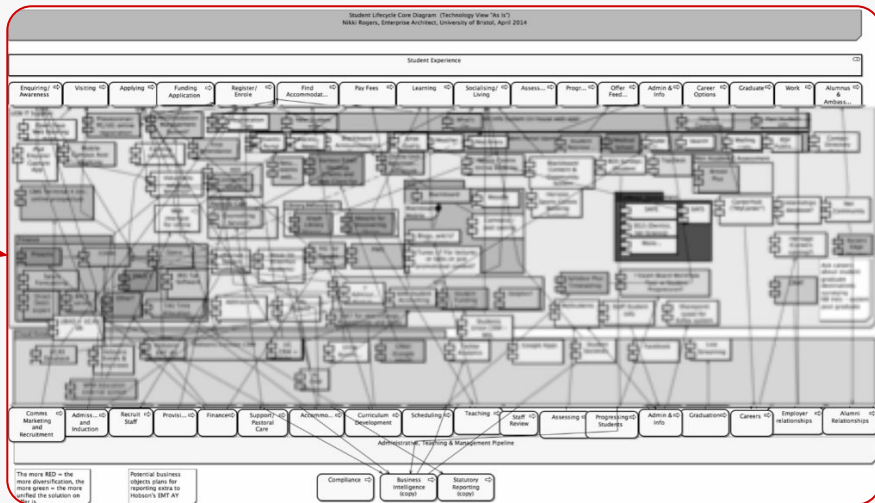
Legacy



RPA



AI



- X Limited or no process visibility
- X Business-IT misalignment
- X Growing technical debt
- X Reduced ROI on investments
- X Compliance challenges

What is Agentic Orchestration?



Paradigm that leverages large language models (LLMs) to **dynamically determine tasks, sequence, routing** etc..

Deterministic Process Orchestration



Non-Deterministic Process Orchestration



Agentic Orchestration

Orchestration **logic is determined by modeled flow logic**, conditions, branches or classic decision models

Hybrid approach to process orchestration that incorporates both deterministic and non-deterministic elements.
This is the future of process orchestration.

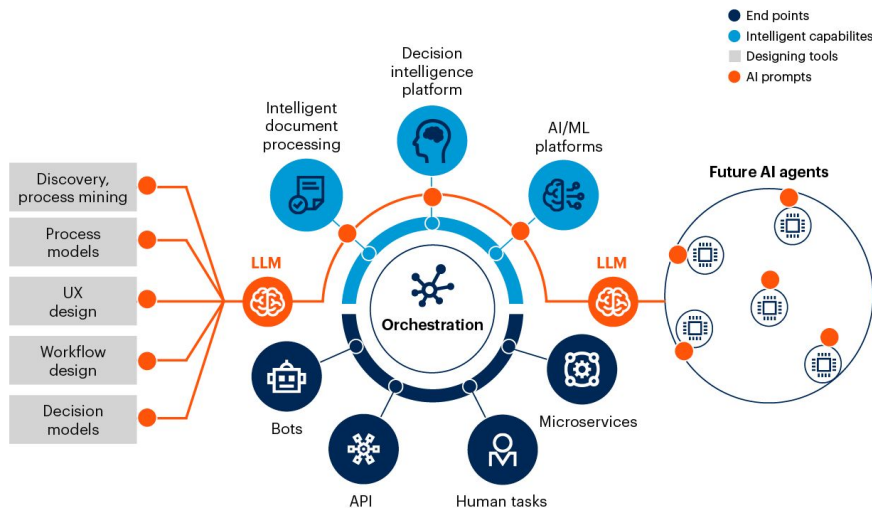
Process Orchestration Foundation

Gartner recognizes end-to-end **orchestration** as foundational to the future of automation

According to **Gartner**, business orchestration and automation technologies (BOAT)

“enable enterprises to automate and orchestrate end-to-end business processes while connecting multiple enterprise systems of records via any applicable integration method.”

The Future of Automation Is Autonomous



Source: Gartner
810775_C

Gartner

Source: GARTNER®, *Quick Answer: Beyond RPA, BPA and Low Code — The Future Is BOAT*, 11 July 2024. GARTNER is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the U.S. and internationally and is used herein with permission. All rights reserved

Composable Architecture

The Process Architecture that delivers value today and ensures you are ready for tomorrow.



Engagement Layer (Customers & Employees)

Multimodal, Omnichannel, Mobile

Digital Twin, Personalized, Proactive, Predictive, Relevant

Execution Layer (Process Orchestration and Automation, **PO&A**)

Agentic Orchestration (end-to-end)

Automation

Decisions
(DMN)

RPA Bots

IDP

Task Agents

Human in
the Loop

Forms

Business
Application
Integrations

Integration (APIs, Documents, Data)

**PO&A via
Camunda**

Platform layer

Legacy
Applications

Systems of Record



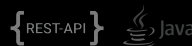
Real-time Data



Data Warehouse



APIs & Microservices



On prem

Cloud

Agentic Orchestration & Automation Platform

✦ AI enabled

Design & Implement

Developers & business users collaborate to design processes, decisions, and forms.

✦ Modeler

Design BPMN process models and DMN decision tables, assisted by with AI Copilots.

✦ Integrated AI Agents

Model, deploy & manage AI agents alongside process models.

✦ Forms

Drag & drop UI builder to capture data and guide user interactions across your processes.

✦ IDP

Ingest, digitize, & process documents with AI to increase productivity and improve experiences.

■ RPA

Integrated RPA helps bridge the gap between legacy & AI for applications lacking API connectivity.

✦ Connectors & Marketplace

Integrate and operationalize connectivity all systems and LLMs.

Test & Deploy

Developers & testers ensure the end-to-end process is working as intended.

■ Rapid Process Testing

Simulate processes without affecting production systems and deploy with confidence.

■ CI/CD Integration

Accelerate time-to-market by integrating with your SDLC ecosystem.

Automate

Enterprise-grade automation. Built for today's business complexity, loved by developers.

■ Zeebe Workflow & Decision Engine

Cloud-native event streaming for unparalleled scale and resilience.

✦ Workers

AI agents, connectors, RPA, document handling, IDP, and custom workers.

■ Operate

Manage and troubleshoot processes with one model for management.

■ Tasklist

Web app for tasks that must be handled by knowledge workers.

Improve

Teams have the insights to fix the highest ROI problems for business processes.

✦ Optimize

Monitor KPIs and analyze performance with one model for visualization.

Manage

End-to-end governance of your Camunda installation.

■ Console

Manage clusters and API keys, review audit logs, and perform one-click upgrades.

■ Identity

Manage applications, APIs, users, and roles.

■ Enterprise SSO

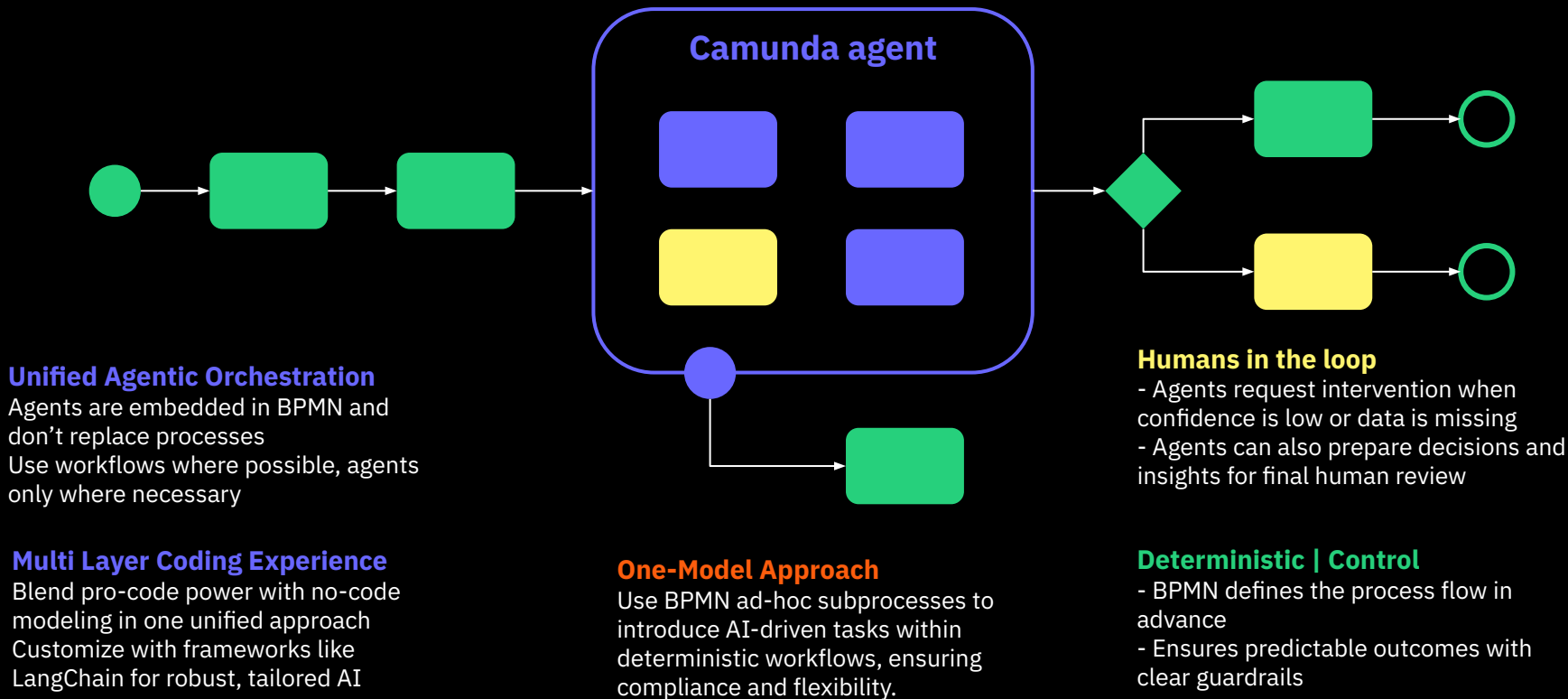
Enterprise Single Sign-On for consistent authentication and secure user access across your entire organization.

Extend

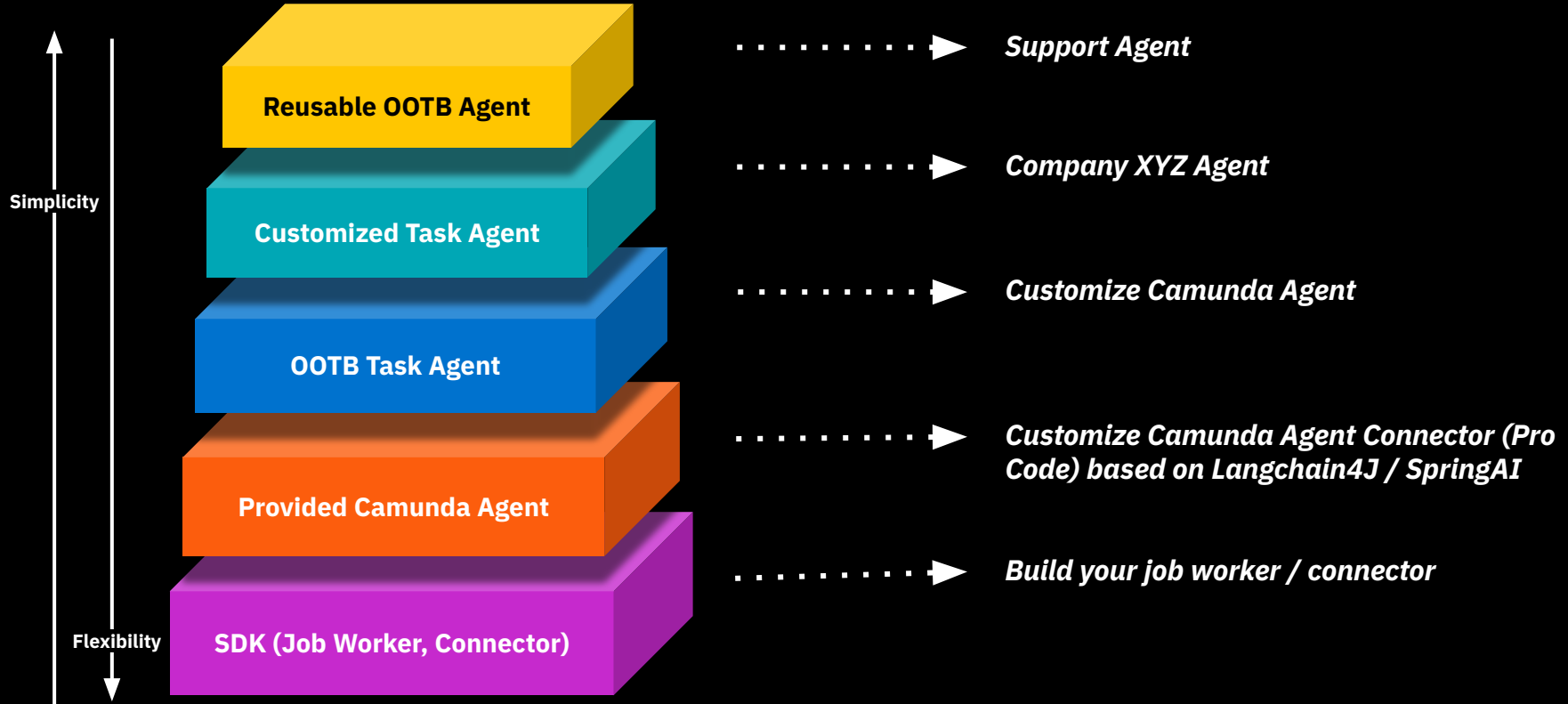
Complete library of SDKs and APIs to integrate and extend process applications.

Our Approach to **Agentic Orchestration**

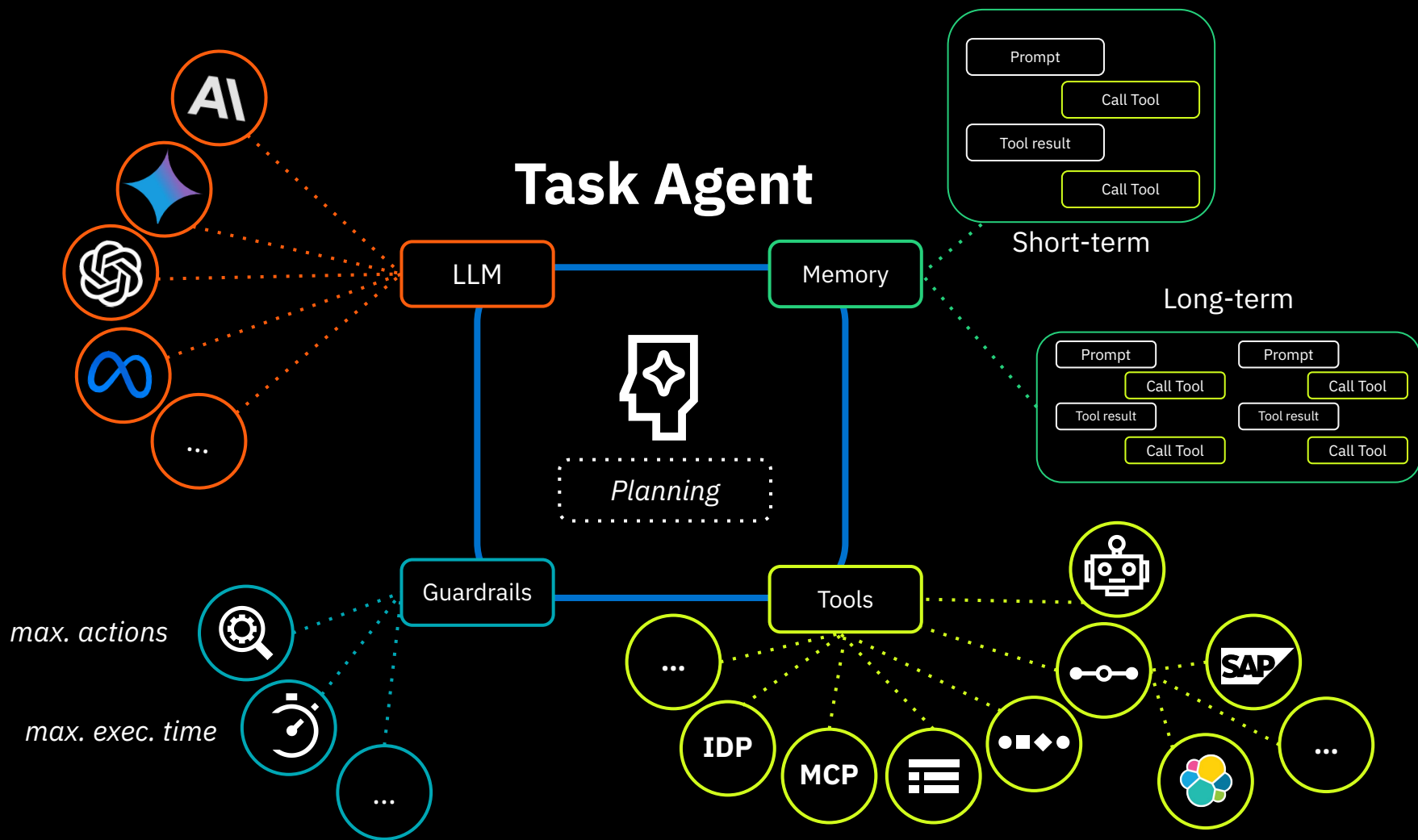
Blend deterministic and non-deterministic process execution to balance control with flexibility



Agent Multi Layer Coding Experience

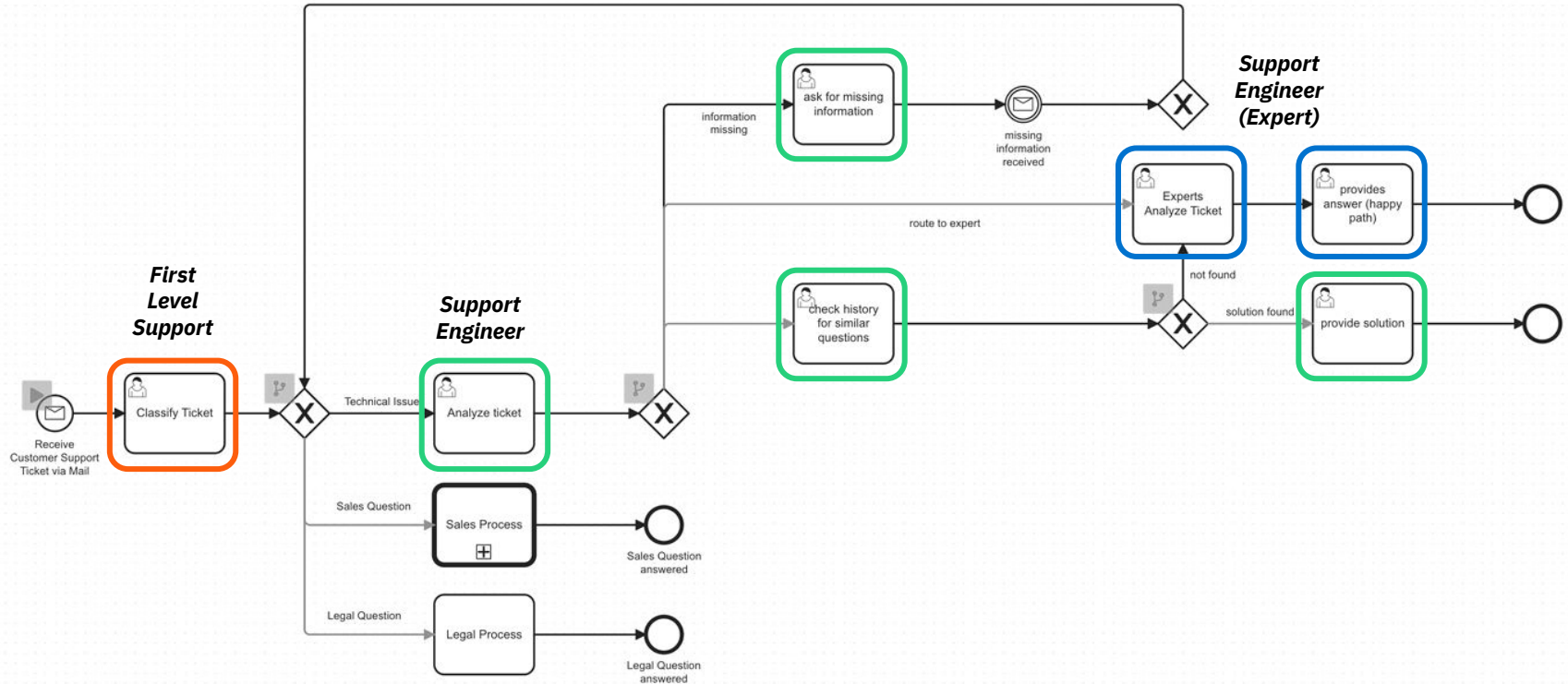


Task Agent



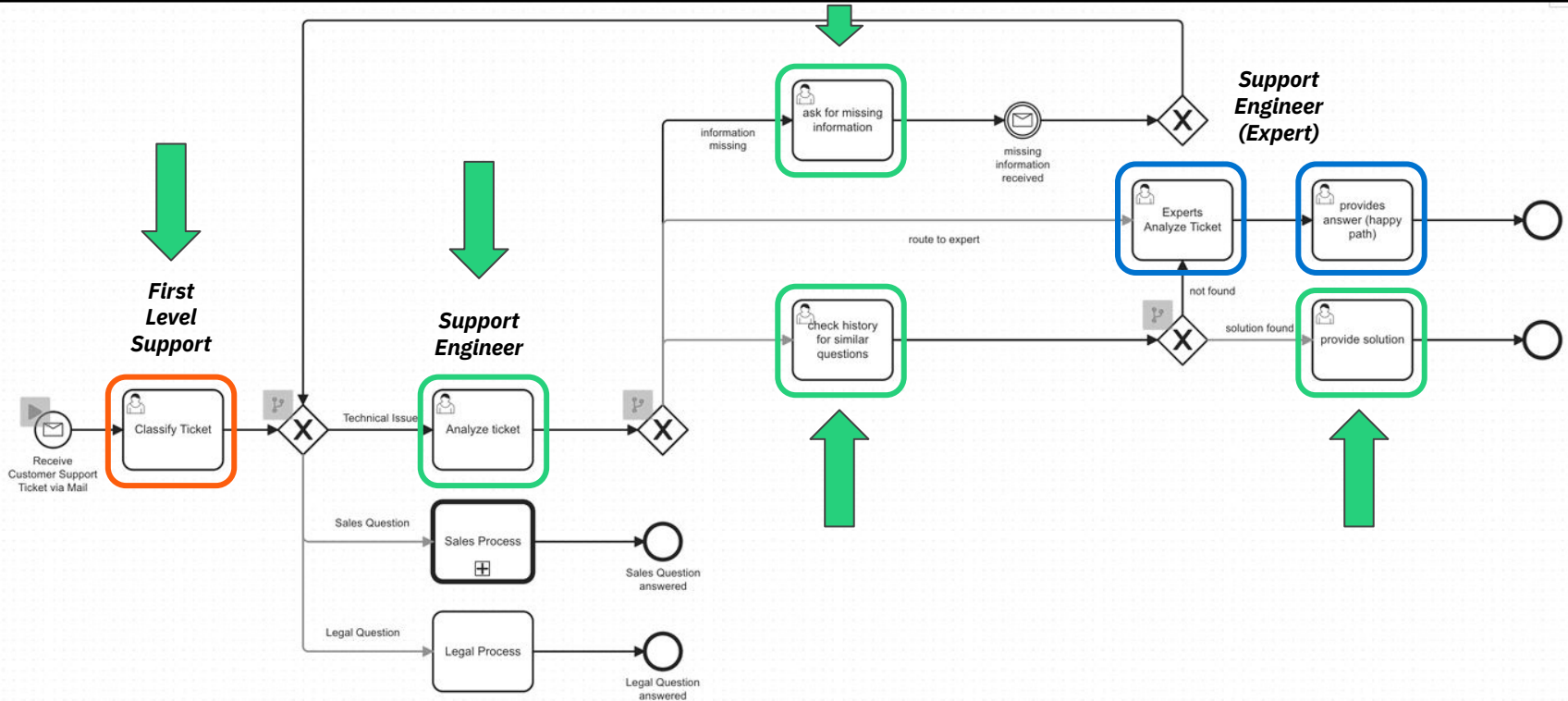
From Theory to Practice

Customer Support Today

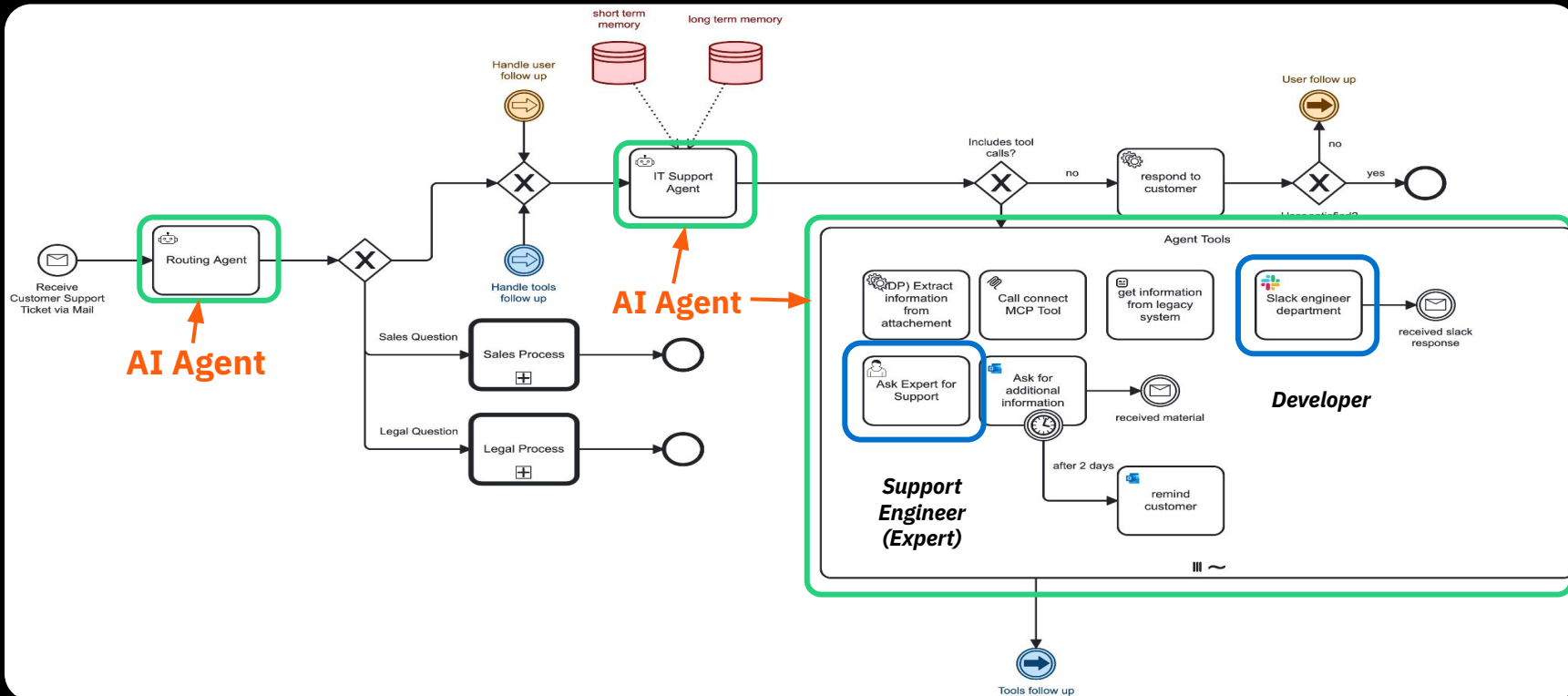


Customer Support

Potential Agent Use Cases

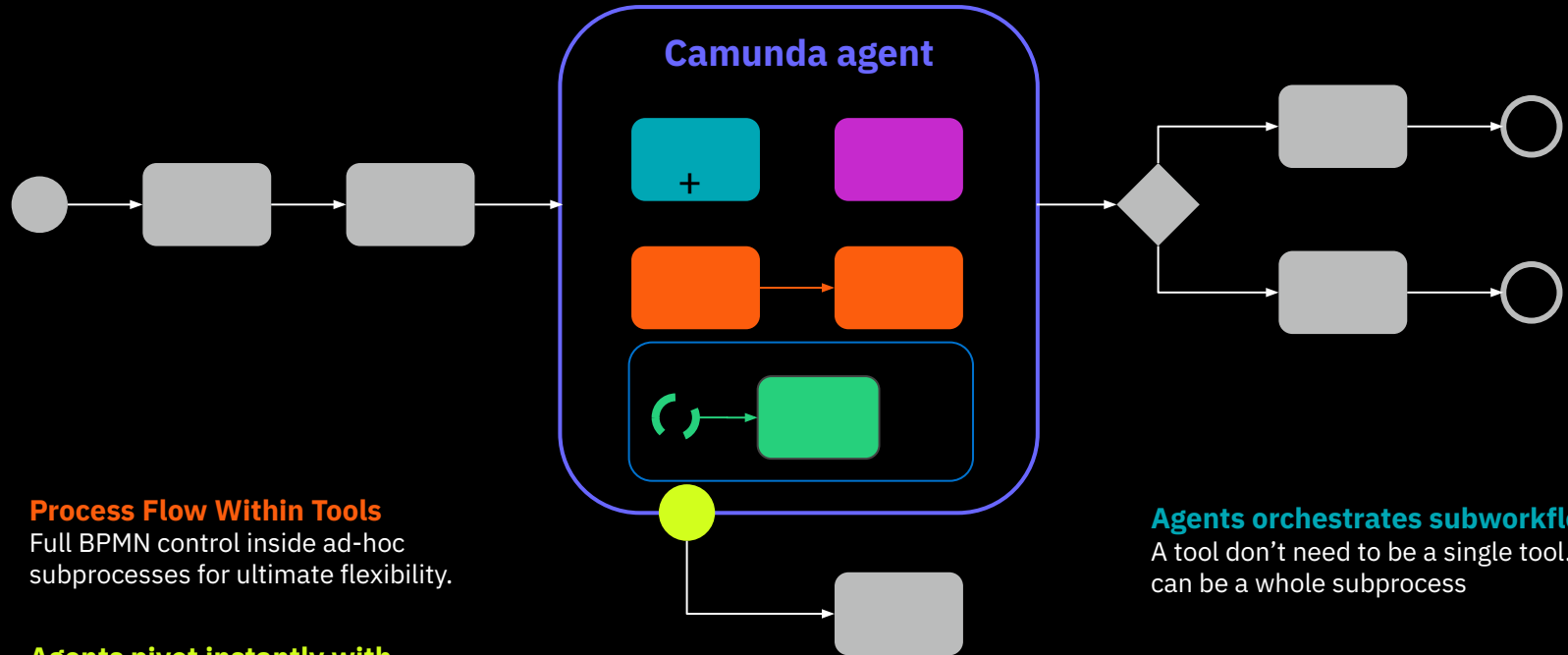


How it could look



There is even **more**

Mixing Agents with Workflow patterns



Process Flow Within Tools

Full BPMN control inside ad-hoc subprocesses for ultimate flexibility.

Agents pivot instantly with external messages and timers.

During execution, agents can be influenced by events like external messages or timers, enabling on-the-fly adjustments.

Event-Driven Agent Reconfiguration

Subworkflows handle new data, guiding the next AI steps.

Agents orchestrates subworkflow

A tool don't need to be a single tool. It can be a whole subprocess

Multi-Agent Orchestration

Agents orchestrate other agents for streamlined, scalable solutions.

Intelligent Document Processing: Turn Unstructured Documents into Actionable Data



1

AI-powered accuracy and efficiency gains

Transform unstructured documents into structured data to enable AI-driven automation—reducing manual effort and errors.

2

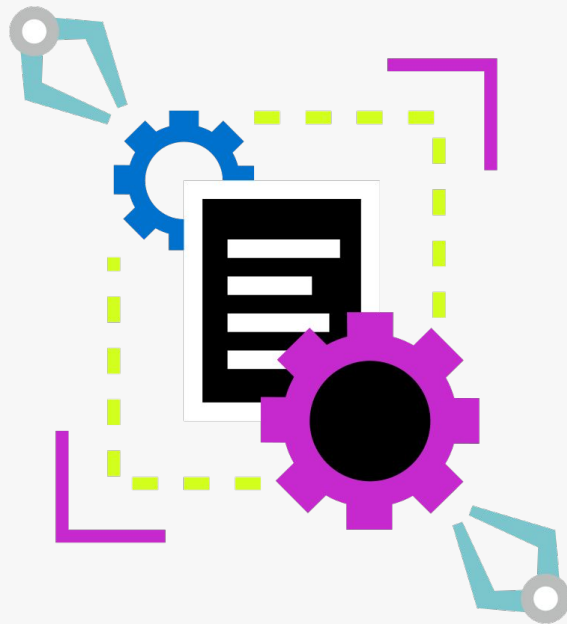
Native integration with Camunda

Seamlessly integrate document extraction into your Camunda processes. No complex setup—just plug and play to enhance automation.

3

Future-Proof Scalability

Adapt to growing document volumes and evolving technology with a scalable, composable solution. Process data efficiently today while staying prepared for tomorrow's business needs.



Robotic Process Automation



Automate Repetitive Tasks



Interact with Desktop - and legacy systems



Automate systems without API's

Bridge the Gap between Legacy and Modern Technology with Camunda RPA



1

Integrate with legacy systems

By bridging legacy systems with AI through process orchestration, businesses can unlock valuable data that would otherwise remain trapped, allowing them to fully operationalize AI across all people, systems (even legacy), and devices.

2

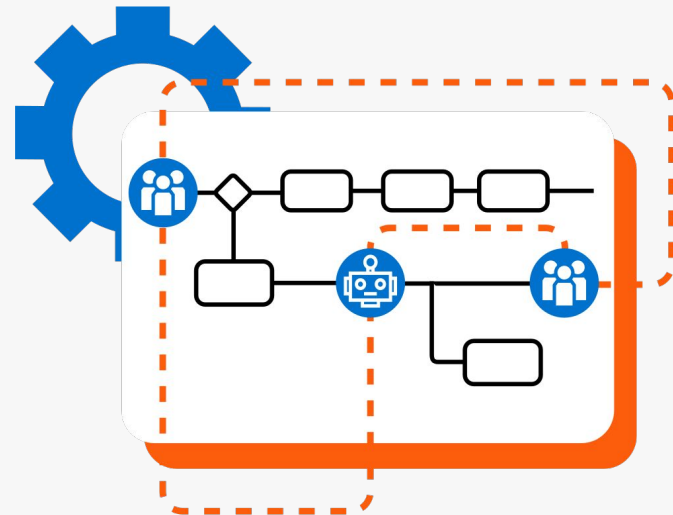
Adapt to changing requirements

With Camunda RPA, you can change and adapt over time as needed. Build the RPA bots you need now and replace them with API calls or new technologies without modifying your processes.

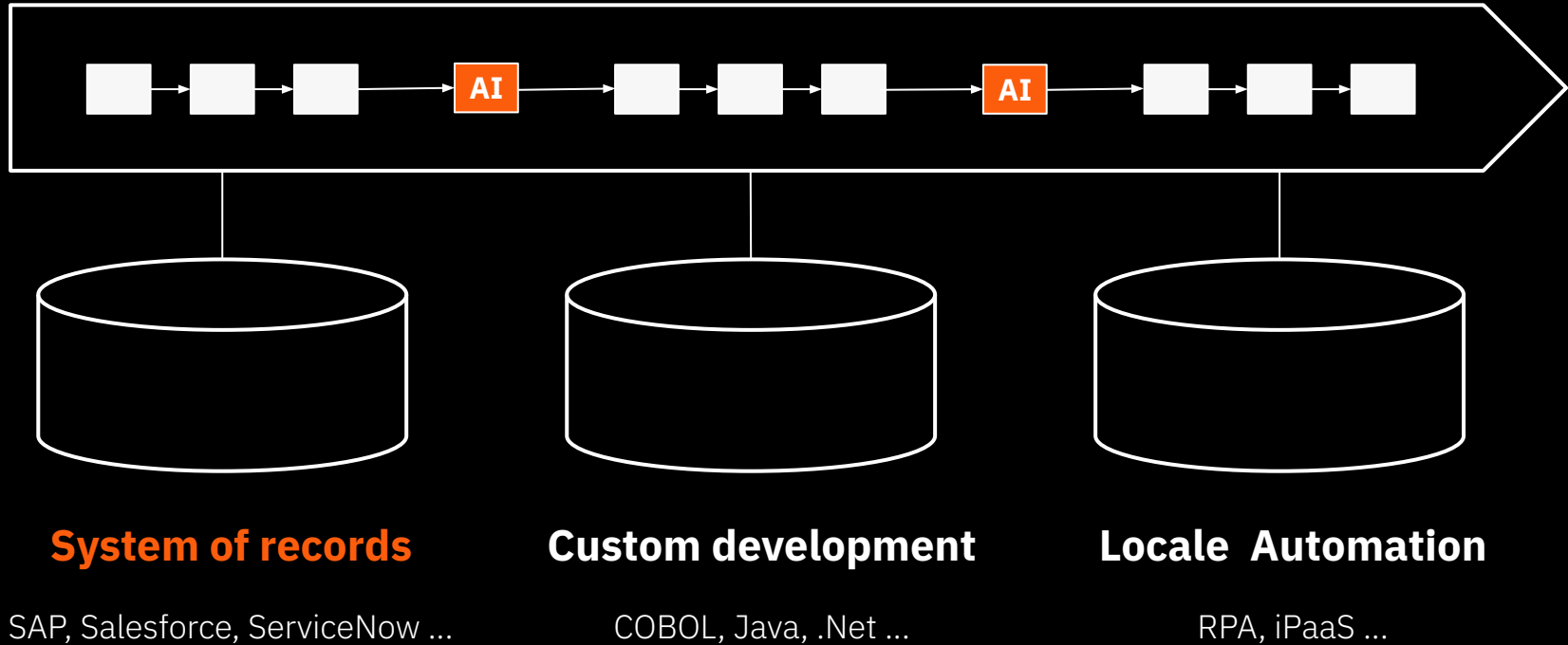
3

Seamlessly integrate into your process

Camunda provides an all-in-one solution where RPA can be seamlessly integrated within the process. This approach reduces the need for multiple tools by creating RPA bots with our integrated tool lowering operational complexity and costs.



Agentic Orchestration Across All Endpoints



Integration with “Systems of Record”

Integrations to leading “System of Record” vendors **where data lives and work happens.**

Reduced integration efforts

Integration with “Systems of Record” is challenging due to: **IT Governance** and **Authorization Management.**

Meet the users where they are

Developers with Connectors to read/write data and interact on events. **End users** with functional integrations of e.g. Camunda Tasks to SAP Task Center.

- **Camunda SAP Integration**
(Available)
- **Camunda ServiceNow Integration**
(General Availability with Camunda 8.8)
- **Camunda Salesforce Integration**
(Connector Integration Available)

Technology Partnerships



servicenow®

Camunda SAP Integration



Features (GA Release 8.7)

- Use Element Templates to build business friendly connectors
- Retrieve and write data from/to any SAP System (via OData and RFC)
- Start Camunda Process from any SAP System via API
- Build one user Multi-Page Flow
- Generic BTP Process Launcher
- Render Camunda Forms in SAP Fiori Design System

Benefits

- SAP Certified
- No additional licence cost
- Compliant with SAP Clean Core strategy
- Based on existing SAP Infrastructure
- Composable artefacts
- API First / Core Data API
- Retains SAP and BTP governance

Deliverables

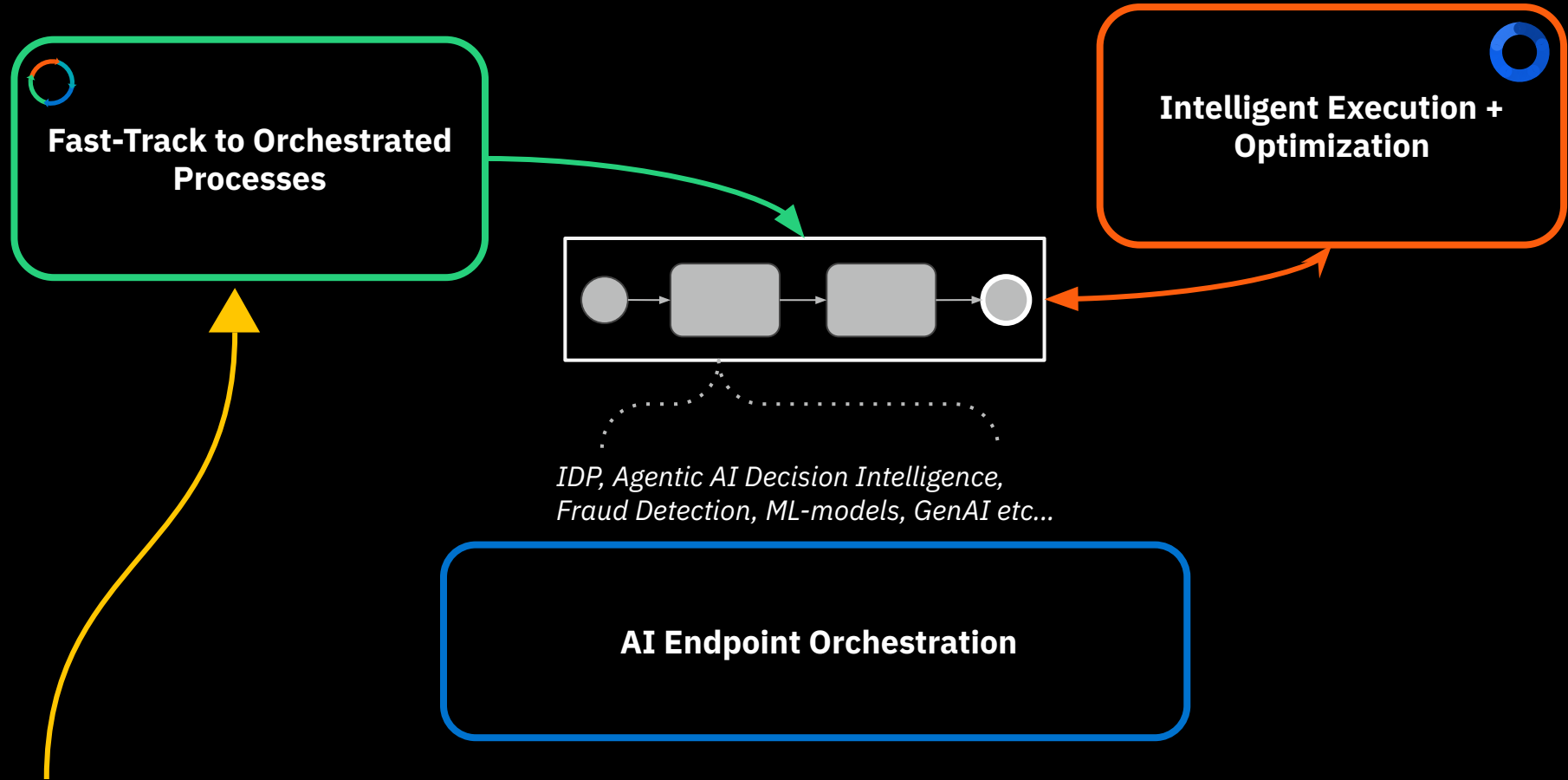
- CSAP - CLI Setup Scripts (NPM Repository)
- SAP OData Connector
- SAP RFC Connector
- SAP BTP Plugin

SAP Certified

Built with SAP Business Technology Platform



AI-Enhanced Process Orchestration



Fast-Track to Orchestrated Processes



Design

Implementation

Test + Deploy

BPMN Copilot

NEW

BPMN
Suggestions

NEW

BPMN Chat

NEW

AI-Driven
Collaboration

LATER

AI-Powered
Connector
Generation

AI Form
Generator

NEW

AI-Powered
Process
Documentation

SOON

FEEL Co-Pilot

LATER

Job Worker /
Connector
Boilerplate

LATER

Generate Test
Data & Tests

BPMN Copilot

Scale process automation efforts with **more people** making **better** BPMN diagrams, **faster**.

Design

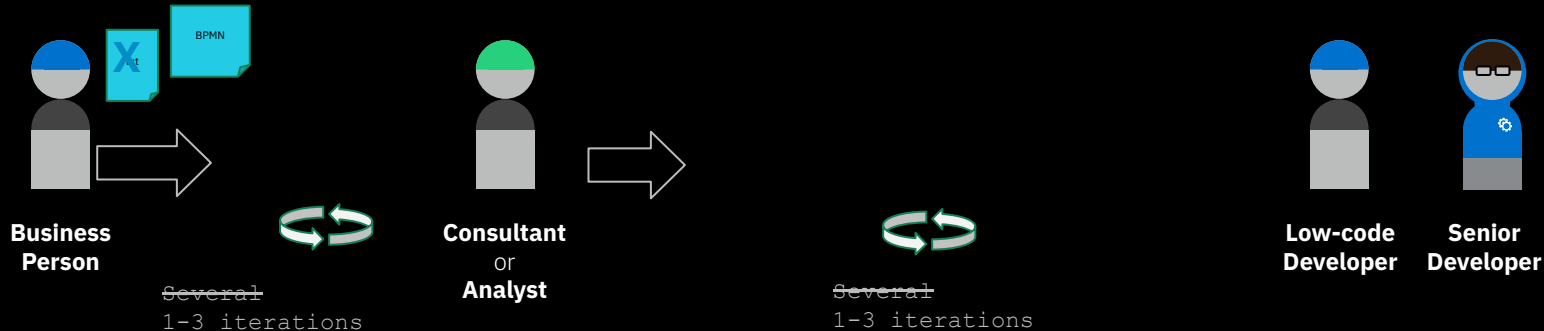
~~Provides text or describes in a meeting their process~~
complete BPMN with desired behavior

Implementation

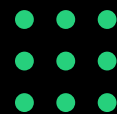
~~They convert text or/and meeting content into a~~
Reviews BPMN against org standards

Test + Deploy

~~Rewrites BPMN file and adds~~
implementation



Collaboration Impact: Business takes more ownership of design and implementation planning. IT focuses on pro-code and enabling the business.



THANK YOU



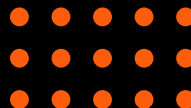
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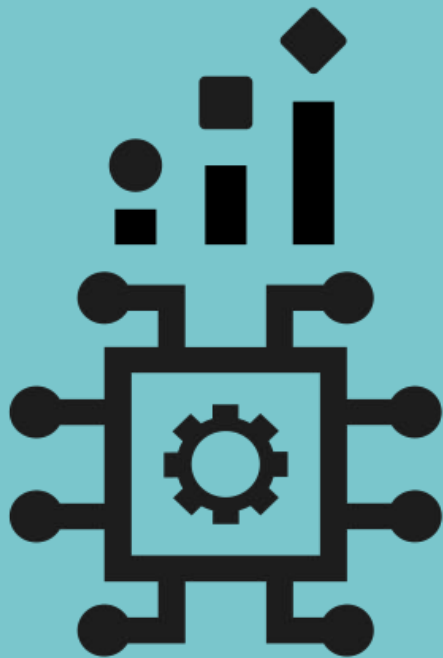


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Build Your First AI Agent in Camunda

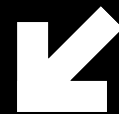
Follow this step-by-step guide to start developing agentic process orchestration with Camunda today.



Access Your Copy →

camunda.com/blog/2025/02/building-ai-agent-camunda

See you next time!



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Oct 7 - 8

Call for presentations are now open!