



Custom Code Assistant

Lukas Bretschneider, SAP
July 07, 2026

Agenda

01 Clean Core – Re-Cap

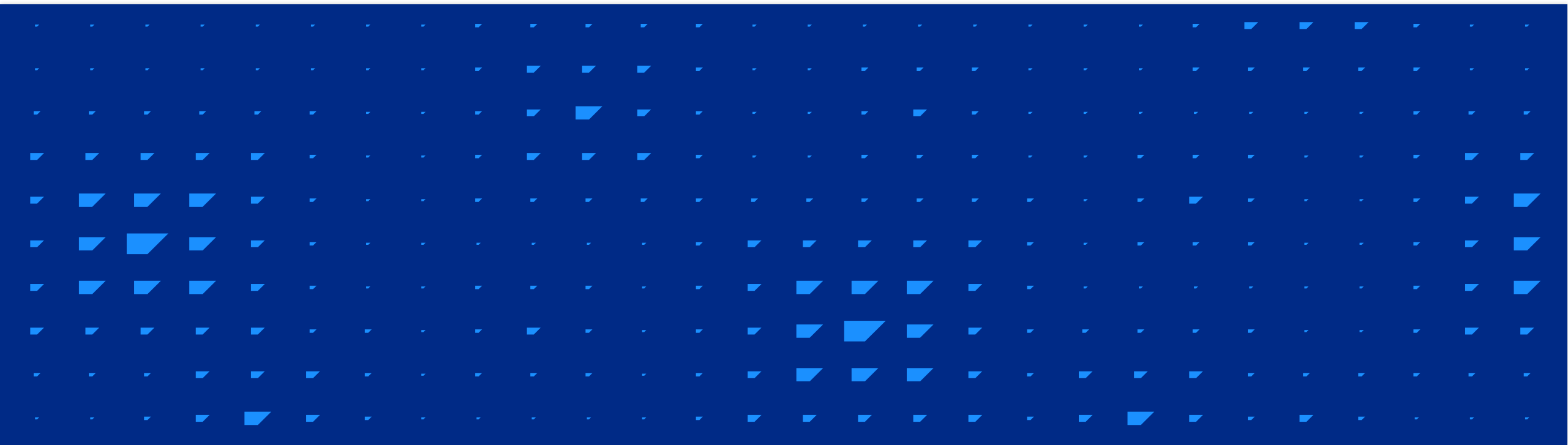
02 Migration & Modernization Assistants

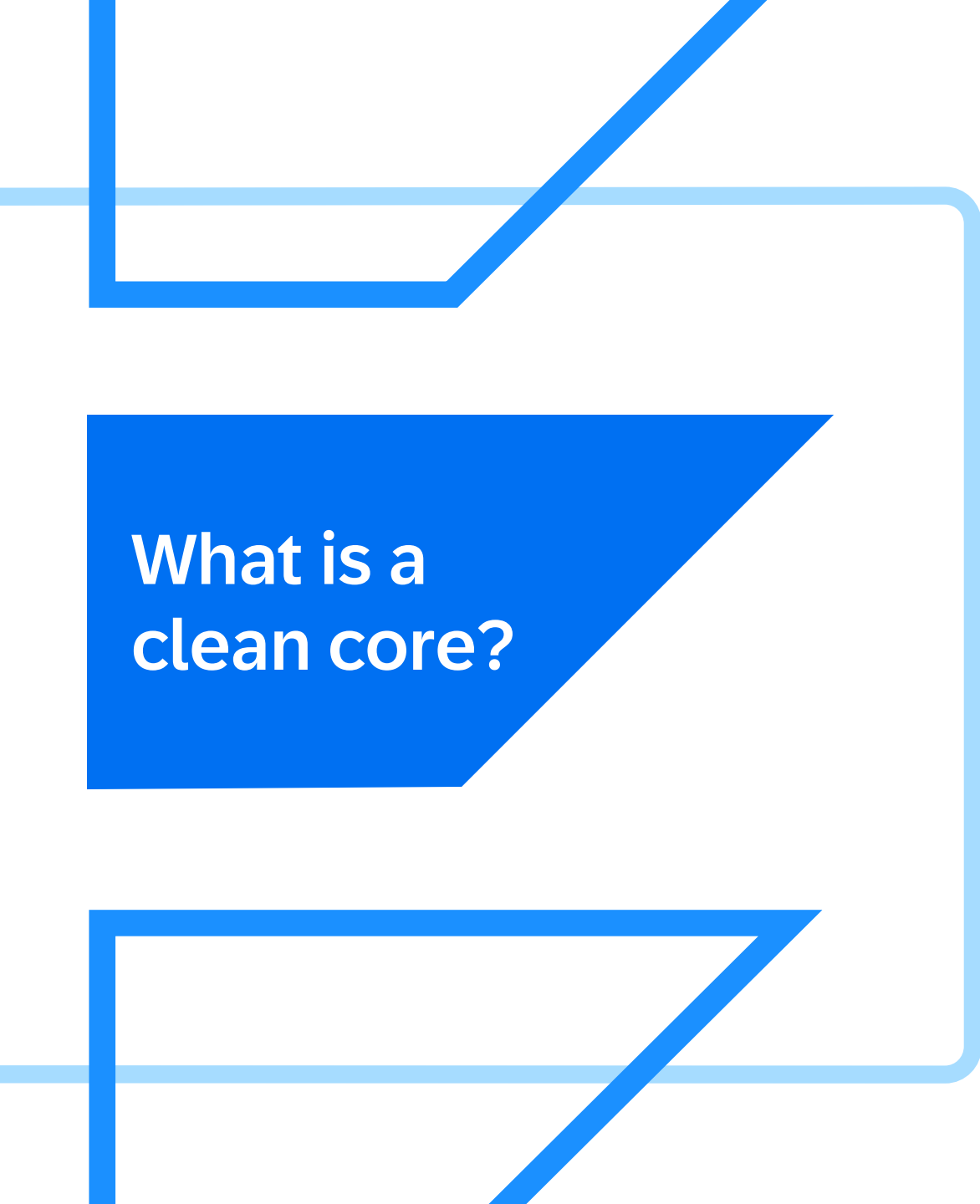
03 Custom Code Assistant

04 Demo

05 Outlook / Q&A

Clean Core





What is a clean core?

Clean core refers to a **set of guiding principles** that support continuous **business transformation** by fostering **agile, innovative, and efficient ERP systems**.

The principles focus on **building resilient business processes and extensions**, supported by seamless integration, efficient operations, and high data quality.

The five guiding principles

Five clean core principles ensure that business-critical systems remain agile, cost-efficient, and ready to adopt innovations that drive growth.

By adopting standard processes, while incorporating stable extensions and integrations for differentiating processes, the clean core principles help customers flexibly adapt to changing business requirements and adopt new capabilities.

Keep competitiveness while reducing complexity.

1

Business processes

Decouple extensions from the standard core.

2

Extensibility

Control data according to the latest standards.

3

Data

Keep the system landscape reliable and flexible.

4

Integration

Keep the operations effective and efficient.

5

Operations

Re-Cap: Clean Core Extensibility



Agenda

Clean Core Extensibility – Why? And what is it?

Extensibility Model – which options do I have?

- Special Deep Dive: ABAP Cloud as part of “clean” extension options “on-stack”

Deep Dive: Clean Core Level Concept:

- What has changed? Why was it changed?

Outlook: Session 2 (November 03rd)

Overview: Get Clean & Stay Clean

How to measure Clean Core?

- KPIs
- Governance & Maturity Assessment

Public

4

Achieving Clean Core – Extensibility Levels, KPIs, and Governance | Move to Cloud ERP | 25.10.14

 SAP Community

 Abonnieren

 21



 Teilen

 Speichern

 Herunterladen

https://www.youtube.com/watch?v=6Sf_YN6q_2s

<https://dam.sap.com/mac/h/l/f/xndFHes/?doi=SAP1289574>

Understanding the need for clean extensions

What they are and why they matter

What is a clean extension?

Clean extensions are de-coupled from the core by leveraging released APIs. A clear governance process ensures the best available option is used within the SAP S/4HANA extensibility model — either on-stack with ABAP Cloud or side-by-side with SAP BTP.

Differentiating from the competition while staying upgrade-stable

- Decoupling extensions simplifies your **upgrade process** and enables you to adopt **innovation faster**.
- Reducing technical debt and increasing transparency gives you **greater flexibility**.
- Technical separation **shortens time-to-market** from concept to deployment.
- Choose from the full SAP extensibility spectrum — on-stack or **side-by-side with SAP BTP** — supporting **low-code to pro-code** development needs.

The diagram illustrates the SAP extensibility model. At the center is a blue circle labeled 'Governance' with a building icon. Surrounding it is a circular path with four numbered points: 1. Functional request, 2. Extension architecture, 3. Extension implementation, and 4. Extension deployment. A curved arrow connects these points in a clockwise cycle. Above the cycle, an arrow points to 'Housekeeping & monitoring'.

5:41 / 57:59

Achieving Clean Core: Tooling, Guardrails, and Remediation Playbooks | 25.11.03

<https://www.youtube.com/watch?v=hrz5ZNtZaw>

Understanding the need for clean extensions

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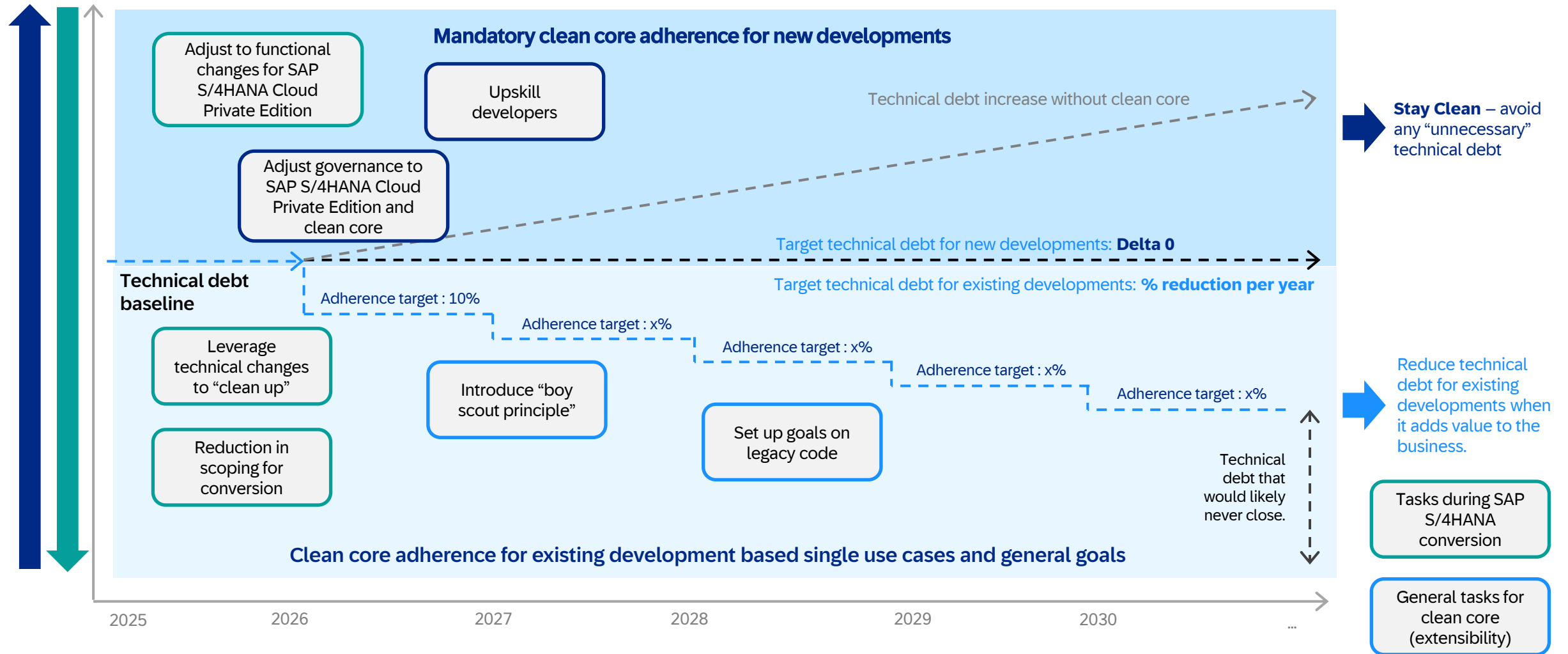
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Extension architecture

Clean core extensibility journey (Get Clean example)



Where to find information?

Official Reference Material for Clean Core

Clean Core L1 Deck: [Link in DAM](#)

Clean Core L2 Deck: [Link in DAM](#)

Clean Core Measurement Framework

- Governance & Maturity: [Link to DAM](#)
- KPIs [Link to DAM](#)

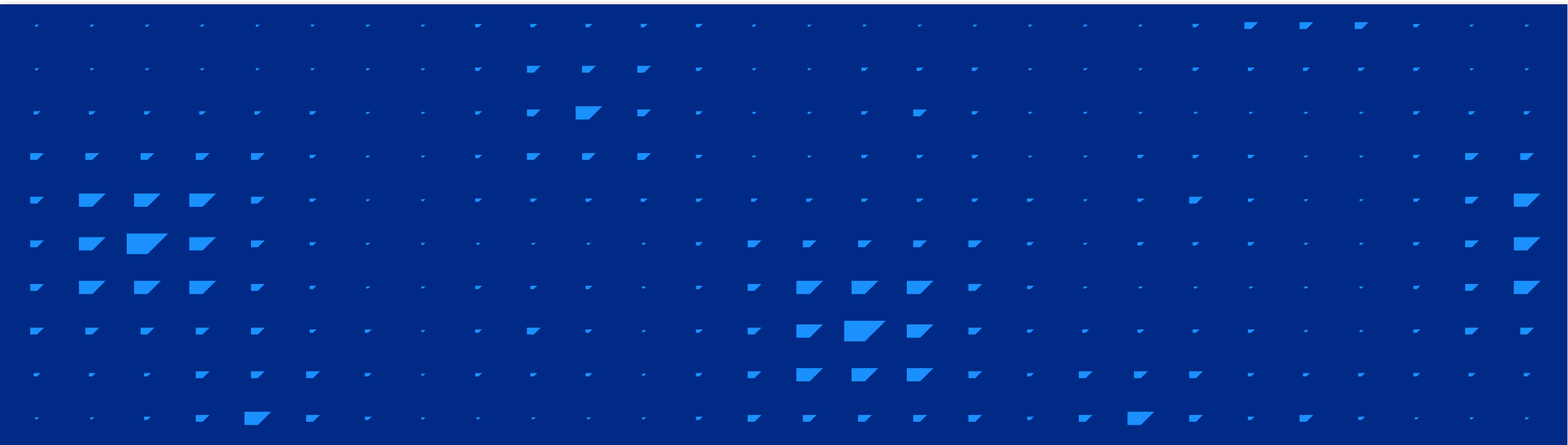
Clean Core L3 Deck

- Extensibility: [Link to DAM](#)
- Data: [Link to DAM](#)
- Integration: [Link to DAM](#)
- Operations: [Link to DAM](#)

Clean Core Whitepaper

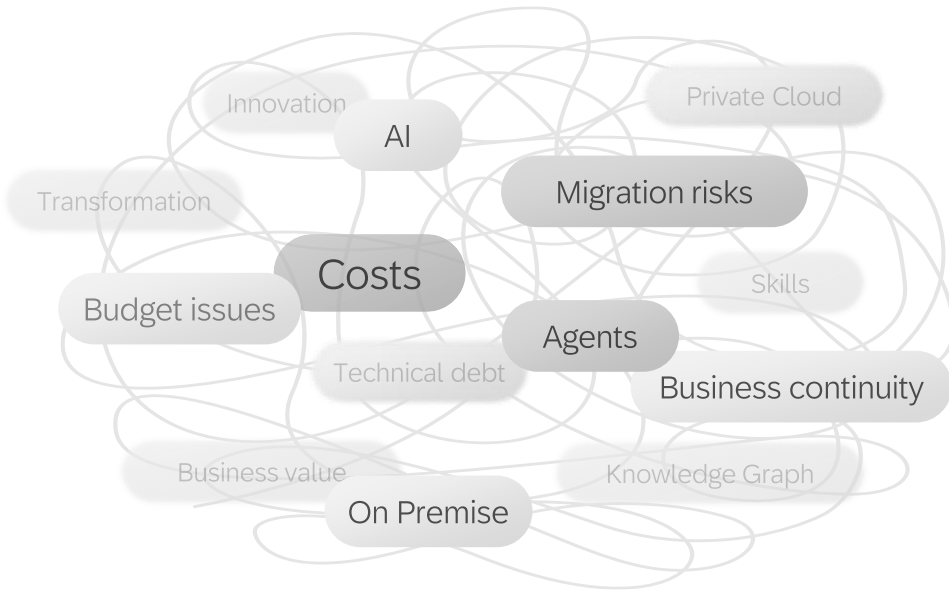
- [Processes](#)
- [Extensibility](#)
- [Data](#)

Migration & Modernization Assistants



AI That Moves Transformation from Effort to Outcome

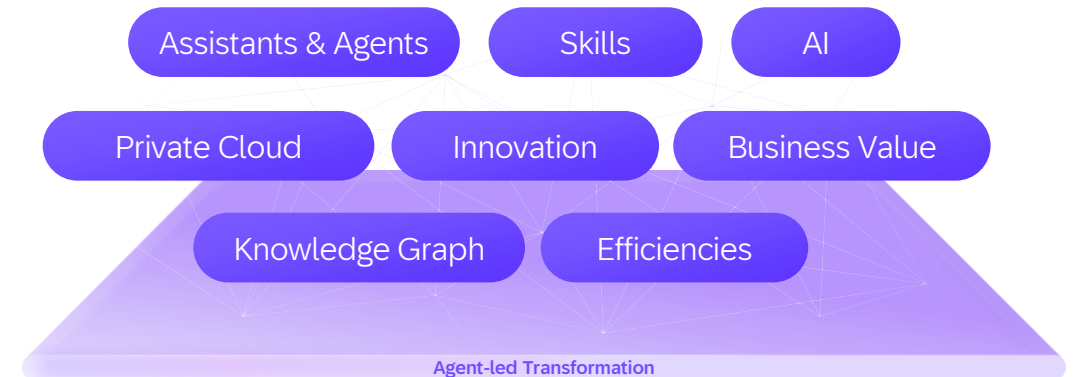
Transformation complexity



- ⚠ Transformations remain high-effort, high-duration, and high-cost
- ⚠ Manual work still concentrates in data, testing, custom code, and configuration



Agent-led Transformation with Migration and Modernization Assistants



- ✦ **AI assistants take on transformation complexity** across the migration lifecycle
- ✦ **AI accelerates smoother transformation** at lower cost and risk

Agent-led Transformation delivered through Agent-Led Toolchain



Guided by RISE with SAP Methodology

◆ Agent-led toolchain



Business Transformation • End-end orchestration of value-based business transformation and continuous improvement



Migration and modernization • Fast-track migration, drive continuous optimization, manage complexity, and reduce costs

SAP LeanIX

• **SAP** Signavio



• SAP Build + Integration Suite

• Syniti

• Tricentis™

• opentext™

• walk me
An SAP company



Joule for Consultants



Joule for Developers

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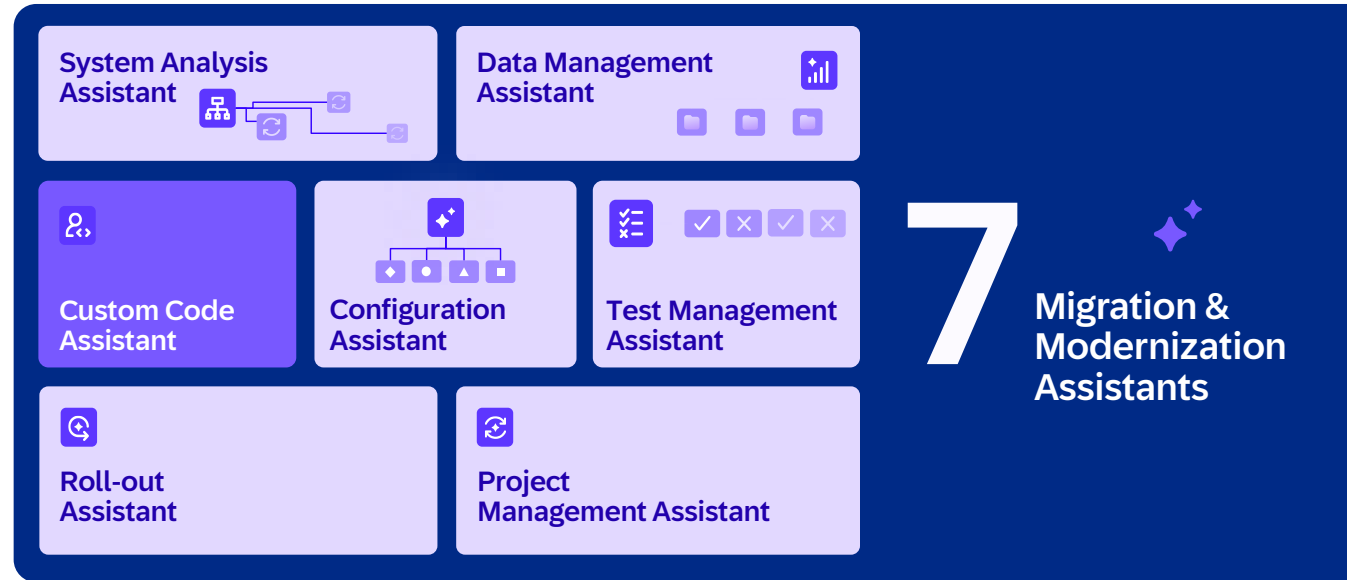


Joule for Consultants



Joule for Developers

Introducing seven migration and modernization assistants



Current state

Extensive custom code increases SAP S/4HANA preparation effort.

Clean-core readiness often needs specialist support.

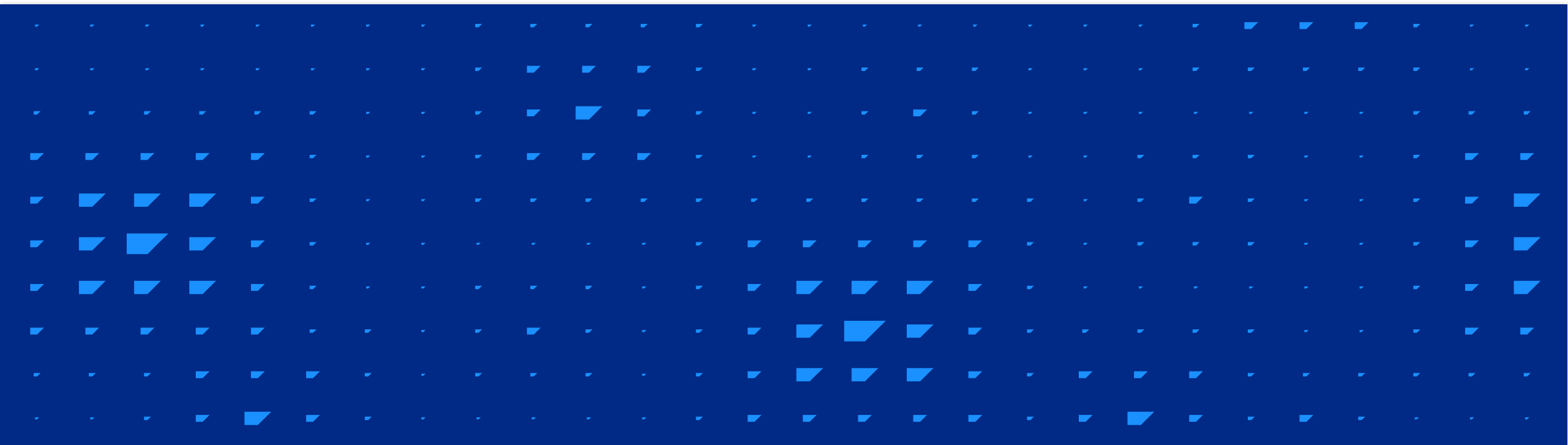


Future state

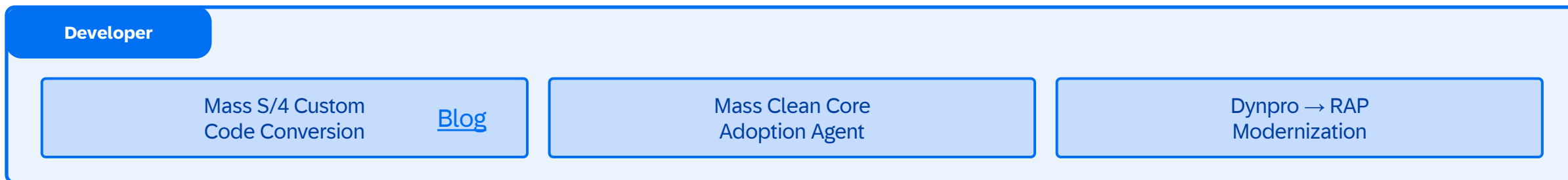
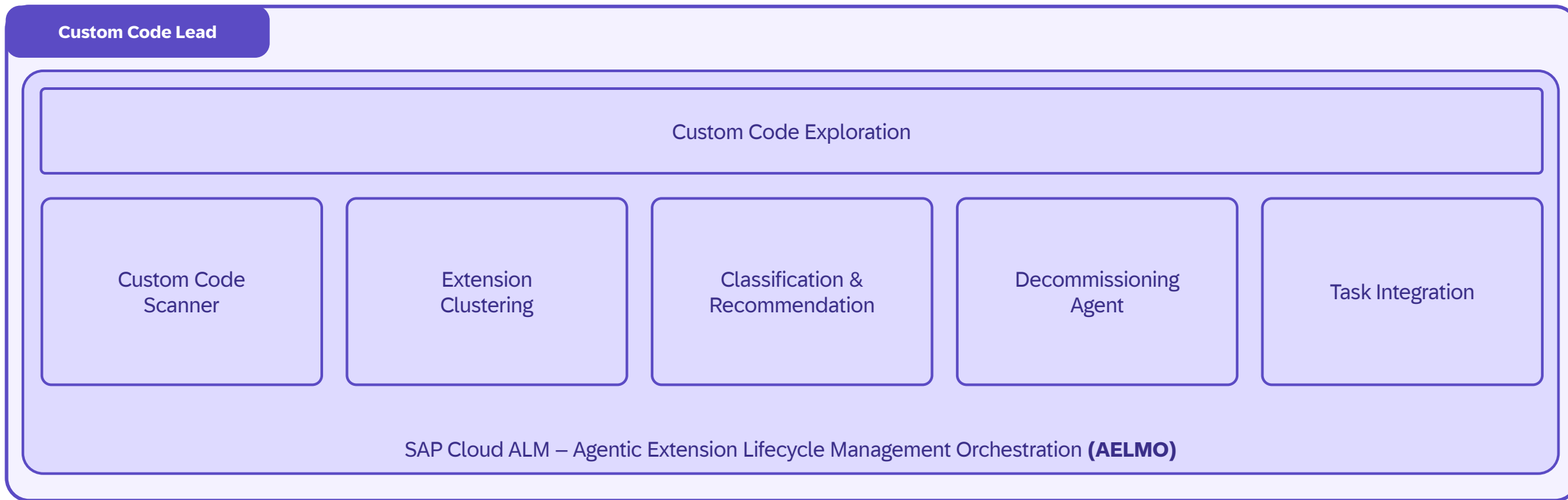
AI classifies, remediates, and modernizes code.

Autonomous conversion reduces cost and accelerates clean core.

Custom Code Assistant



The Custom Code Assistant – Overview



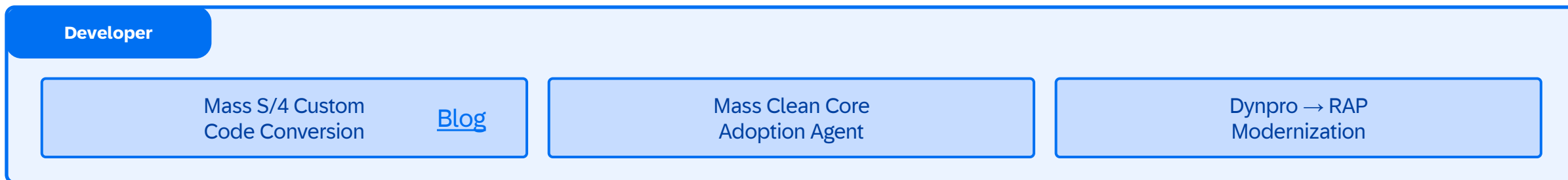
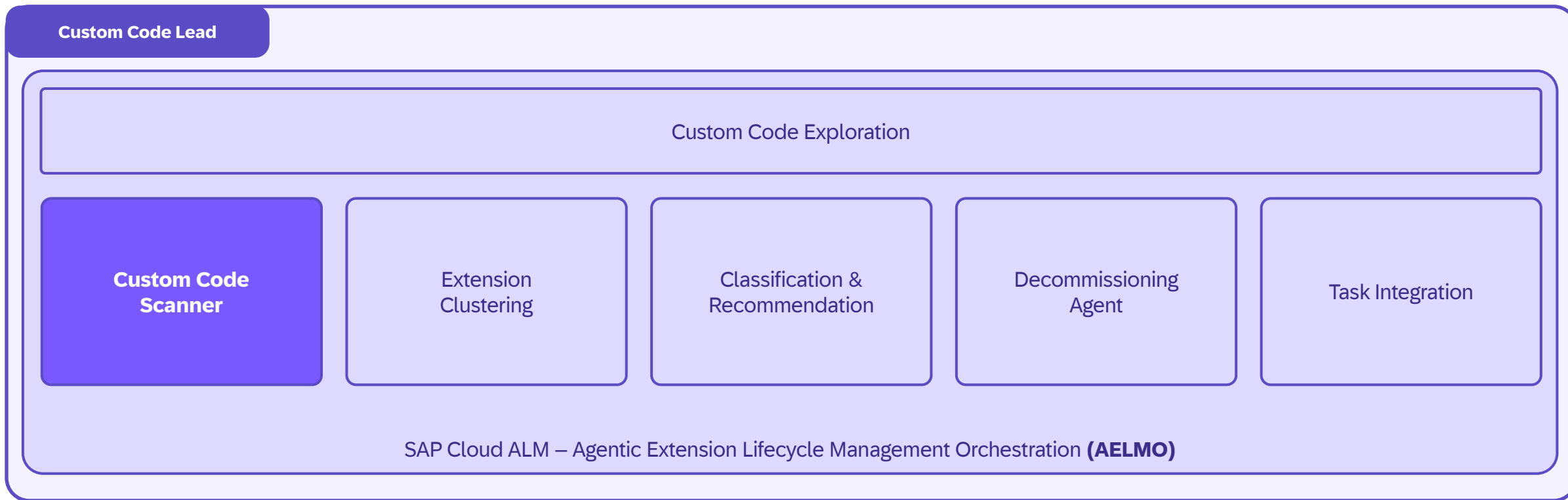
Vision of Custom Code Assistant & Role of AELMO

SAP Cloud ALM – Agentic Extension Lifecycle Management Orchestration (**AELMO**)

Vision: Provide the **central place to manage your custom code**, combining all **technical insights** (like usage, clean core readiness, S/4HANA readiness) and the **semantical angle** (looking at extensions, not objects, understanding the business problem the extension was created for, and which process it belongs to).

Based on the data, fixed rules and AI-powered agents, the ***next best task*** for your extensions can be recommended – and executed.

The Custom Code Assistant – Overview



Custom Code Scanner

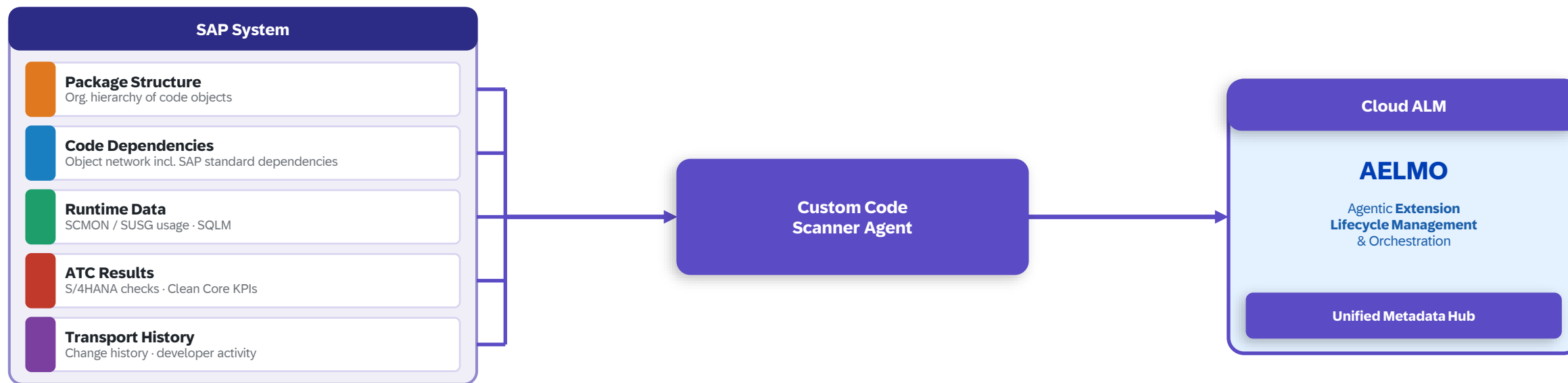
Custom

LAB Preview

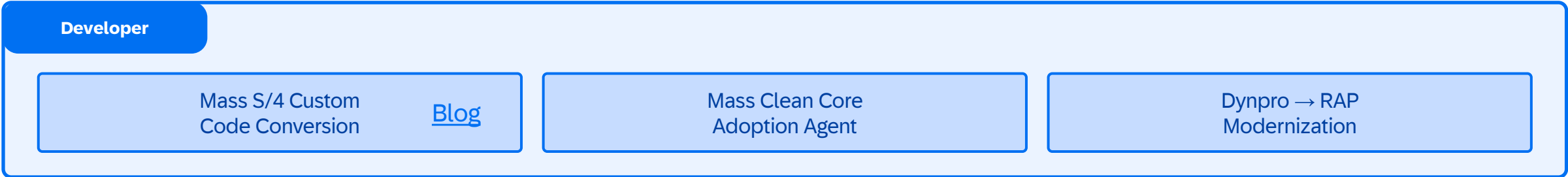
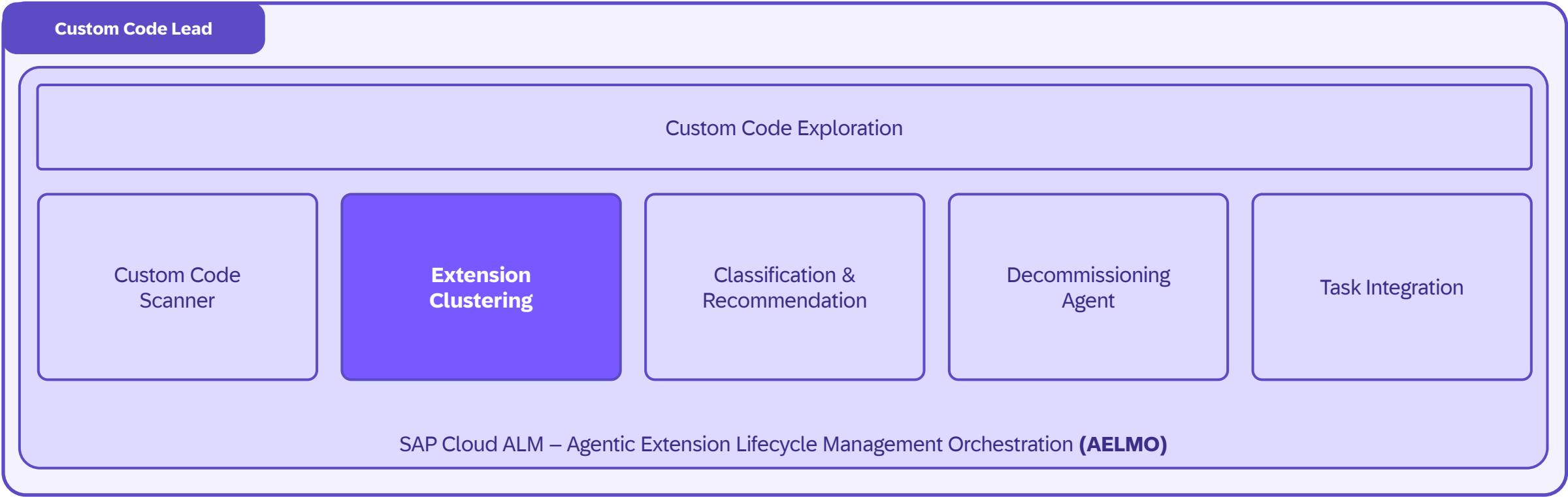


What it does

The Custom Code Scanner Agent is the **data foundation** of the entire AELMO system. Before any clustering, classification, recommendation, or transformation can take place, all relevant technical metadata must be collected and unified inside Cloud ALM. It scans several distinct data sources from the SAP source system — covering structural, behavioral, quality, and change dimensions of every custom code object — and feeds them into a single coherent view.



The Custom Code Assistant – Overview



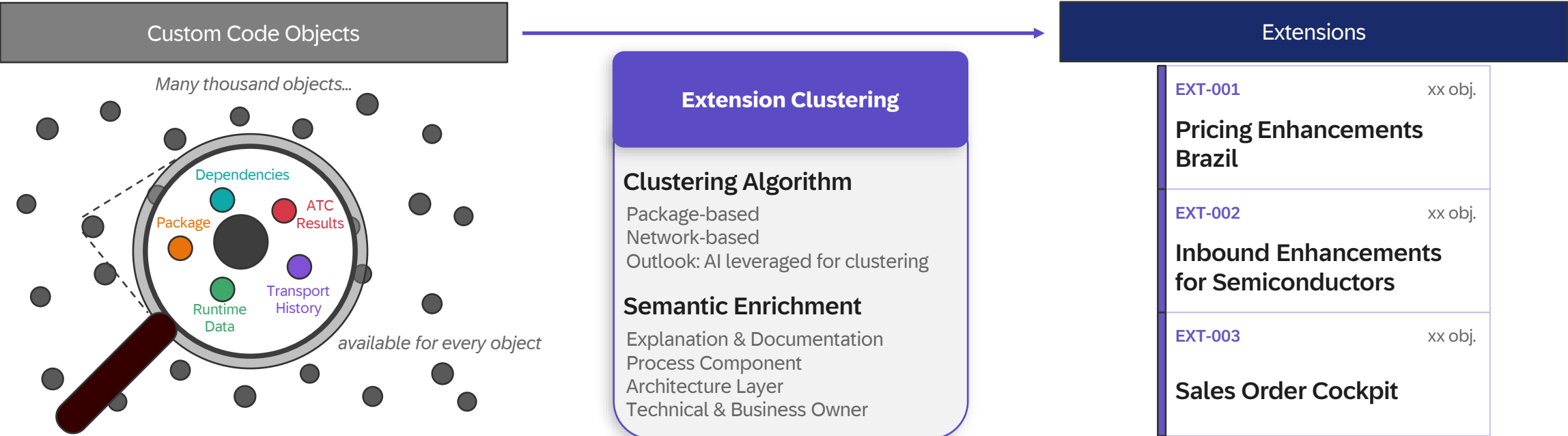
Extension Clustering

LAB Preview

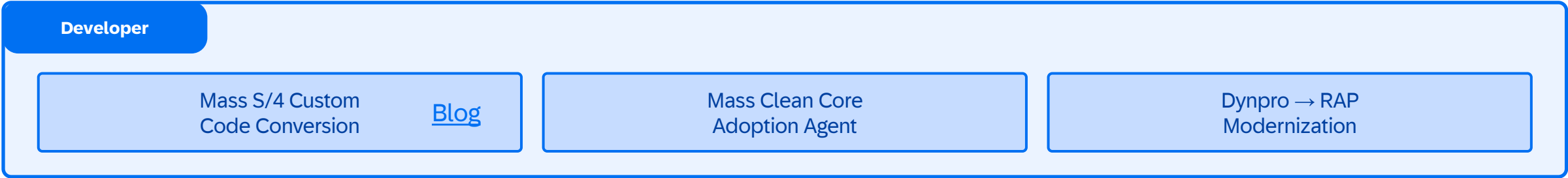
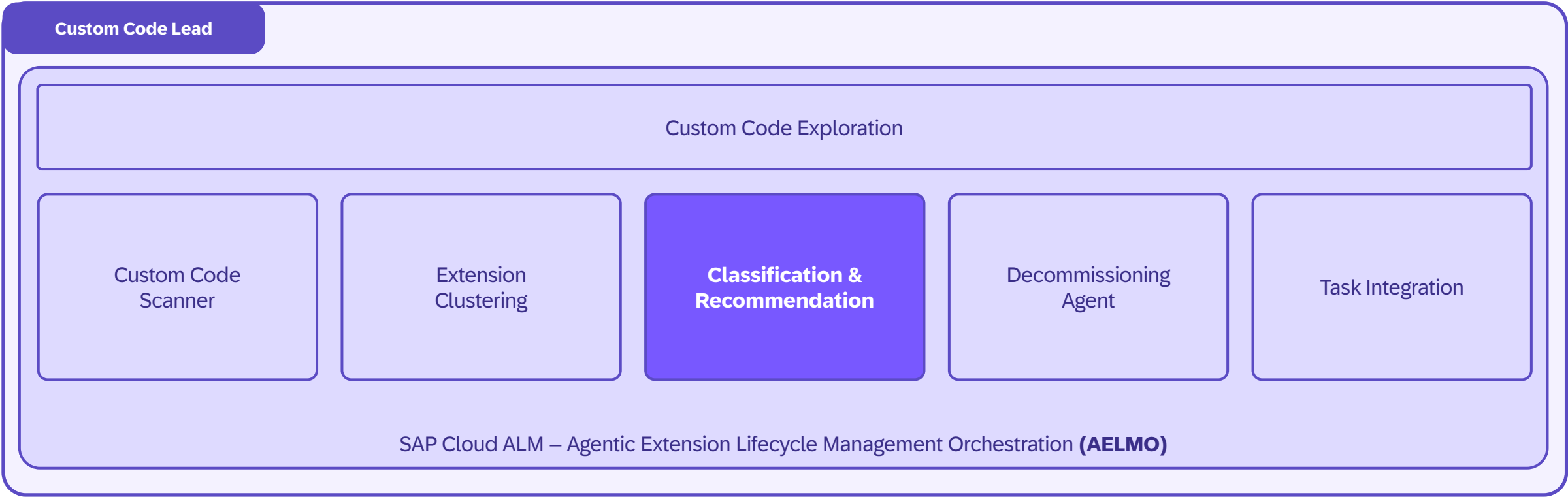


What it does

Extension Clustering reduces thousands of individual custom code objects into a manageable set of named business units called **'Extensions'**. Building on the metadata collected by the Scanner, it applies configurable algorithms — package hierarchy, dependency-network, or AI semantic similarity — to group objects that naturally belong together. Each resulting Extension can be enriched with semantic data like a generated description and documentation, a mapped L3 Process Component, an architecture layer classification, or a suggested technical owner.



The Custom Code Assistant – Overview



Classification & Recommendation

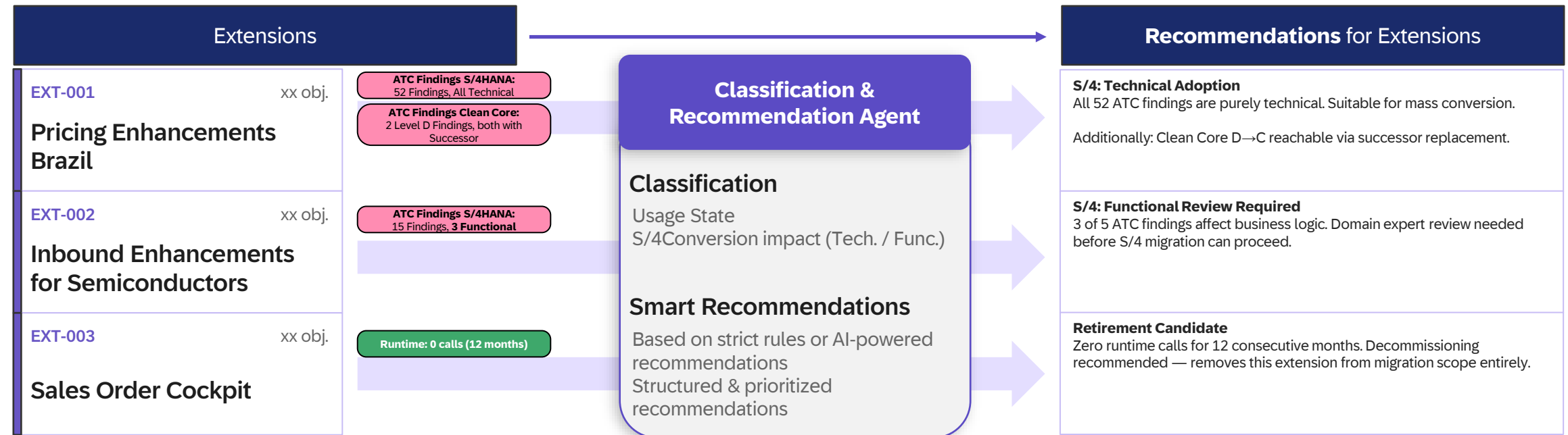
Custom

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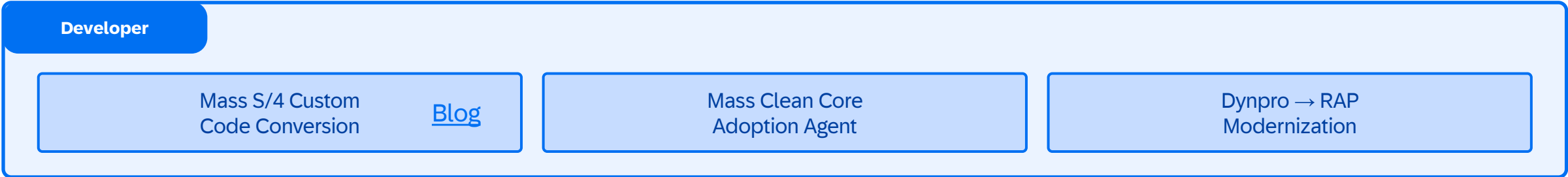
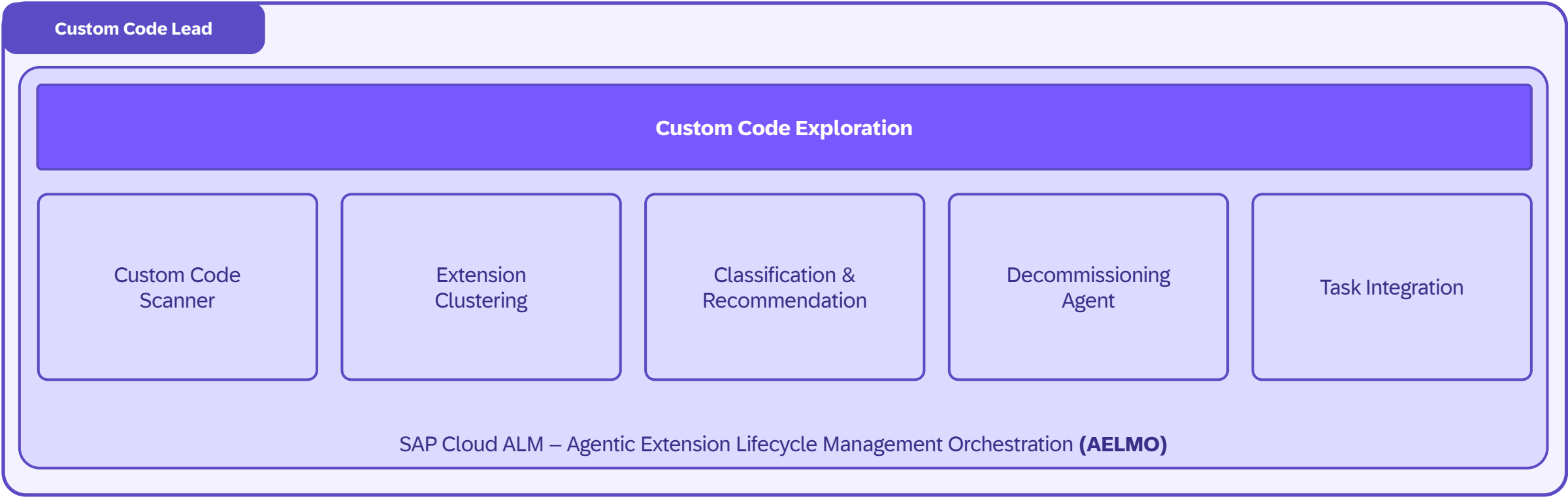


What it does

The Classification & Recommendation analyses all available metadata per extension and automatically generates actionable classifications and recommendations. In MVP scope (S/4HANA Conversion), it differentiates purely technical adjustments from functional findings requiring expert review. It also identifies Clean Core improvement potential, retirement candidates, and performance issues.



The Custom Code Assistant – Overview



Classification & Recommendation

LAB Preview

Custom Code Exploration

CC Scanner

Ext. Clustering

Class. & Rec.

Decommissioning

Task

Cloud ALM

Mass S/4 Conv.

Mass Clean Core

Dynpro → RAP

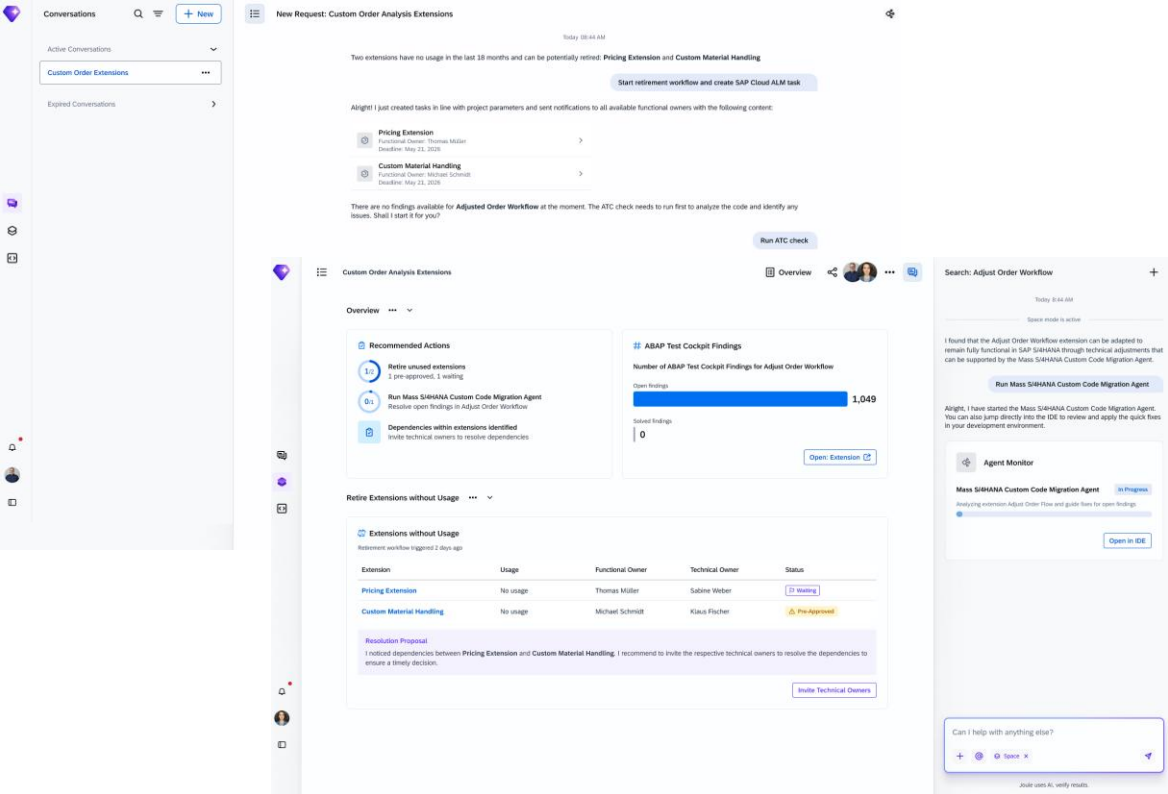
Execution in IDE

What it does

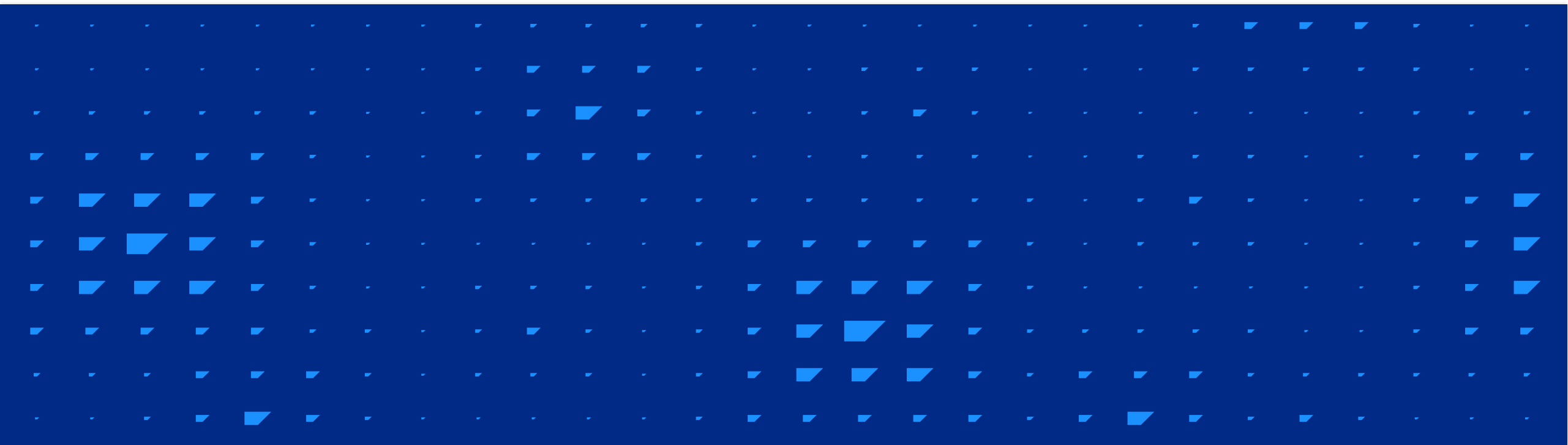
The **Custom Code Exploration Agent** takes an agentic approach to identifying the next best step for your extension — dynamically reasoning over all metadata and insights collected across prior pipeline stages.

Rather than surfacing static reports, it acts as **the guiding intelligence** of the **Custom Code Assistant**: steering you through your individual custom code journey by combining technical signals — object dependencies, usage frequency, ATC findings— with semantic insights such as process alignment, business criticality, and architectural context.

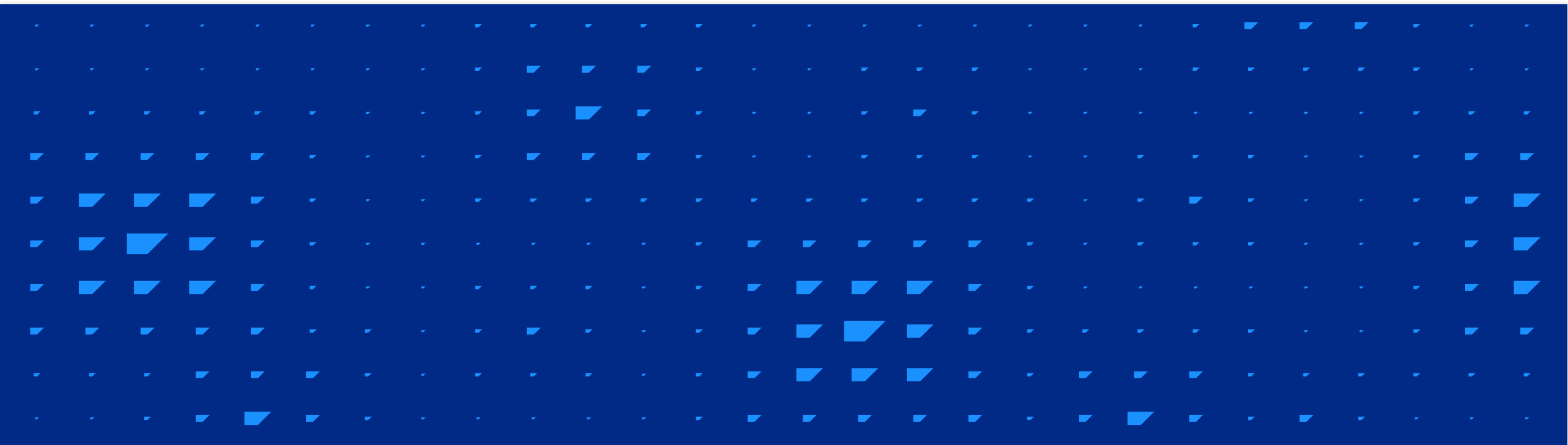
At each decision point, it evaluates the full picture to **propose** concrete, prioritised **actions** that move your extension closer to a clean, well-understood, and transformation-ready state.



Demo



Outlook



Thank you.

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