

SAP BTP ABAP Environment

Product Management ABAP Platform
2022

PUBLIC



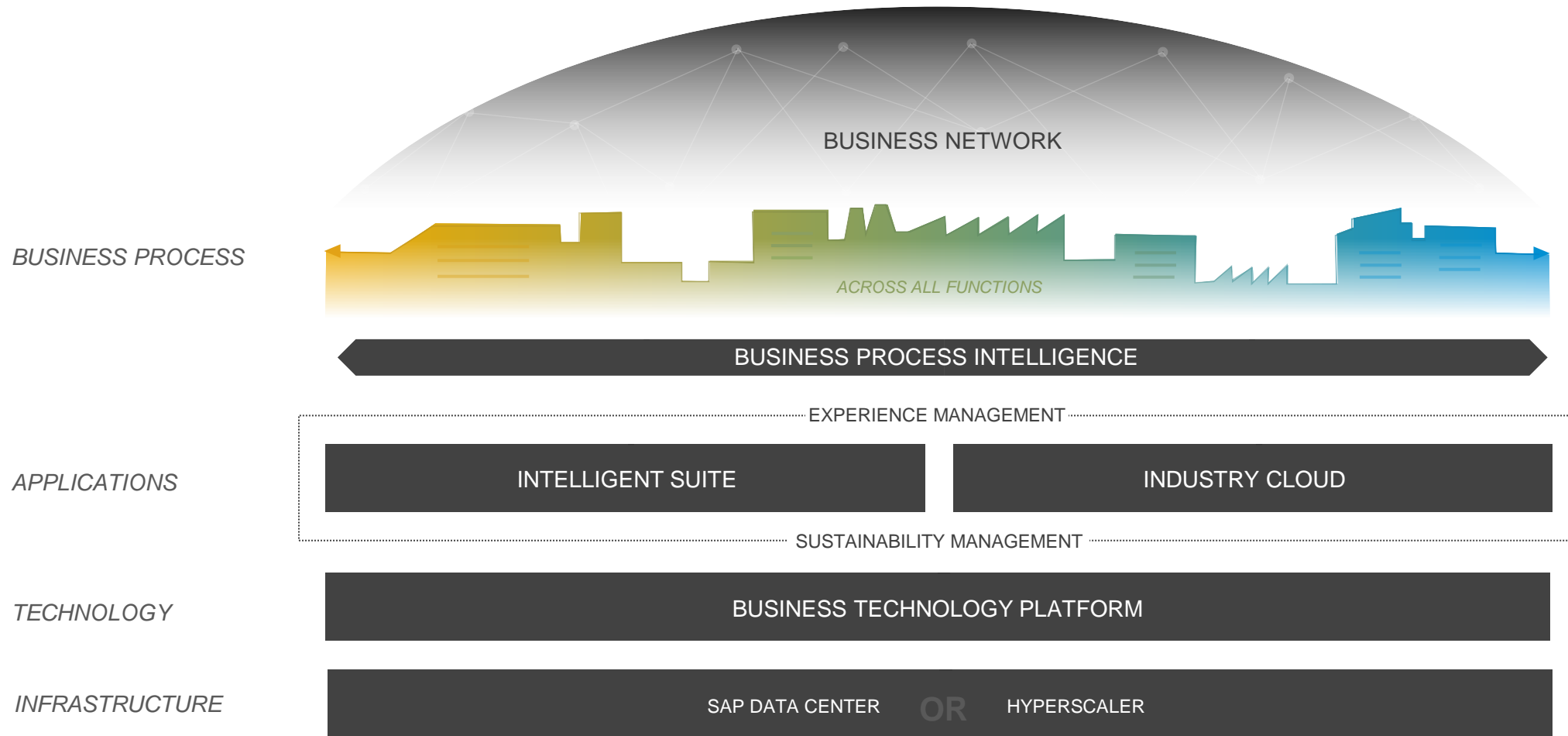
WHY SAP Business Technology Platform?
WHY ABAP in SAP Business Technology Platform?
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OUTLOOK

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Why SAP Business Technology Platform?

INTELLIGENT ENTERPRISE

Evolved Vision



SAP S/4HANA extensibility

User Interface Layer



Application Layer



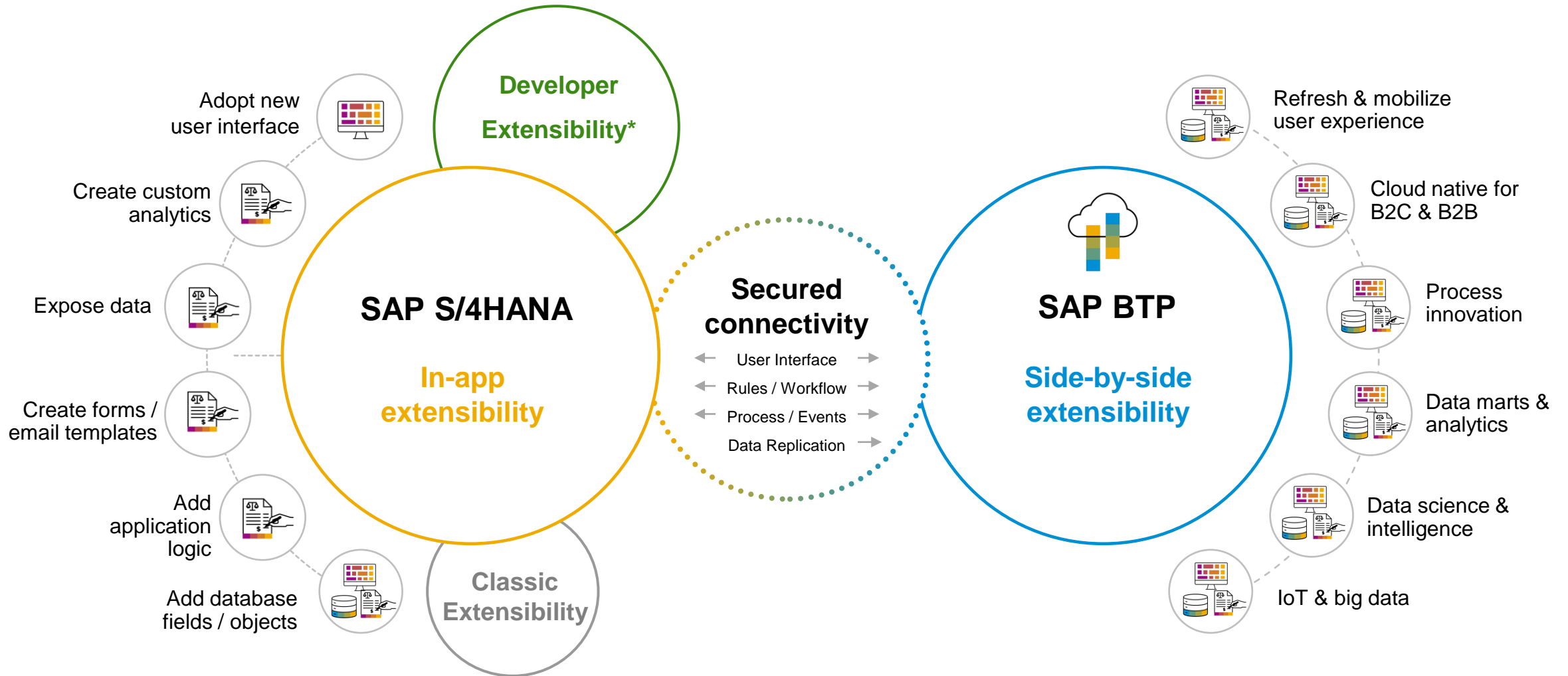
Database Layer



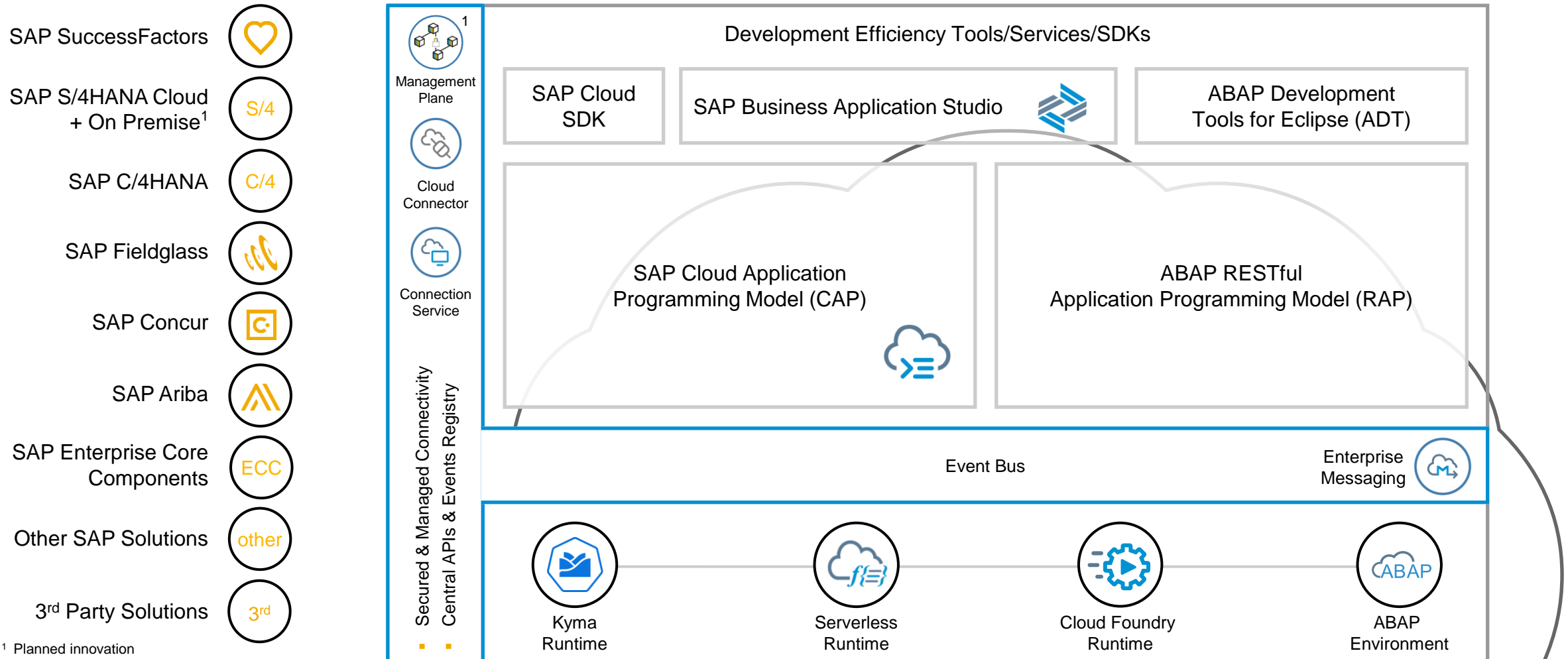
In-App Extensions



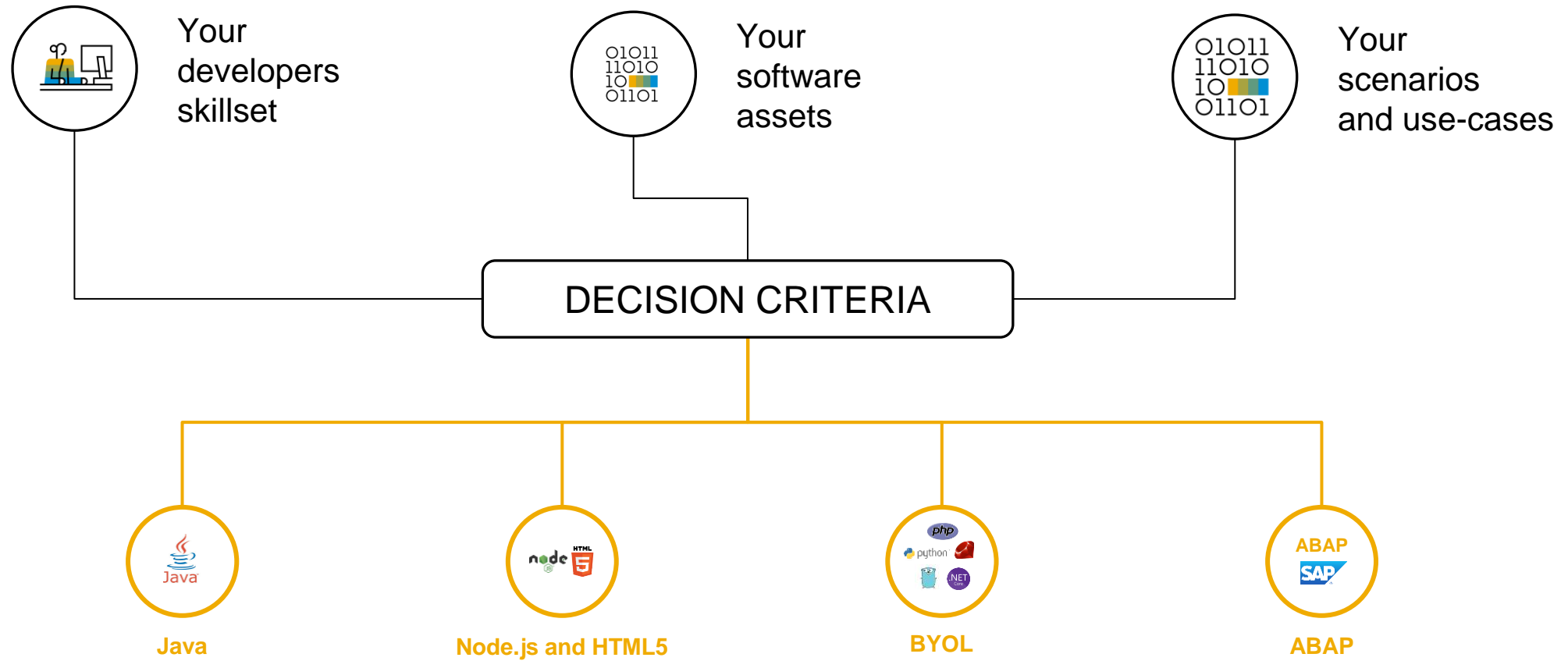
Cloud Extensions



Building Extensions for the Intelligent Enterprise on SAP BTP



When to use what?



Why ABAP

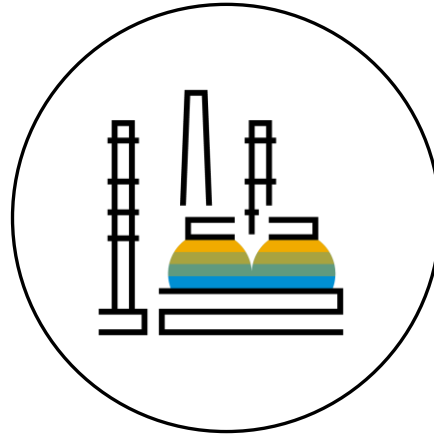
in SAP Business Technology Platform?

Motivation



Customer Base

Huge **customer and partner base** running ABAP based solutions with custom code



Enterprise Readiness

ABAP as proven environment for **enterprise ready** business applications with competitive cost of development



Transition to Cloud

Growing market adoption of **SAP S/4HANA Cloud** with tailored extensibility for customers and partners

Value of SAP BTP ABAP Environment

► Cloud ERP

Transform your existing ABAP assets to the cloud

► Innovation Platform

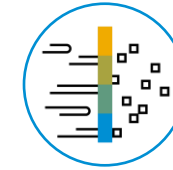
Develop and run innovative ABAP apps on a PaaS in the Cloud

- use always the newest version of the ABAP Platform
- use always the newest version of SAP HANA
- use always the newest SAP BTP services
- Delegate the operation of the ABAP PaaS to SAP

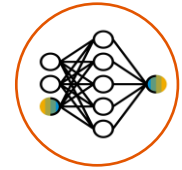
► Clean Core

Decouple from your core business system

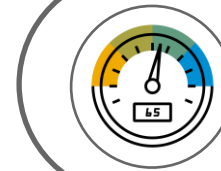
- Delegate cloud integration scenarios to a cloud hub
- Reduce upgrade costs with decoupled cloud extensions
- Delegate non ERP user roles like consumer to a cloud solution



TRANSFORMATION
TO CLOUD



MARKET
OPPORTUNITIES
FOR PARTNERS

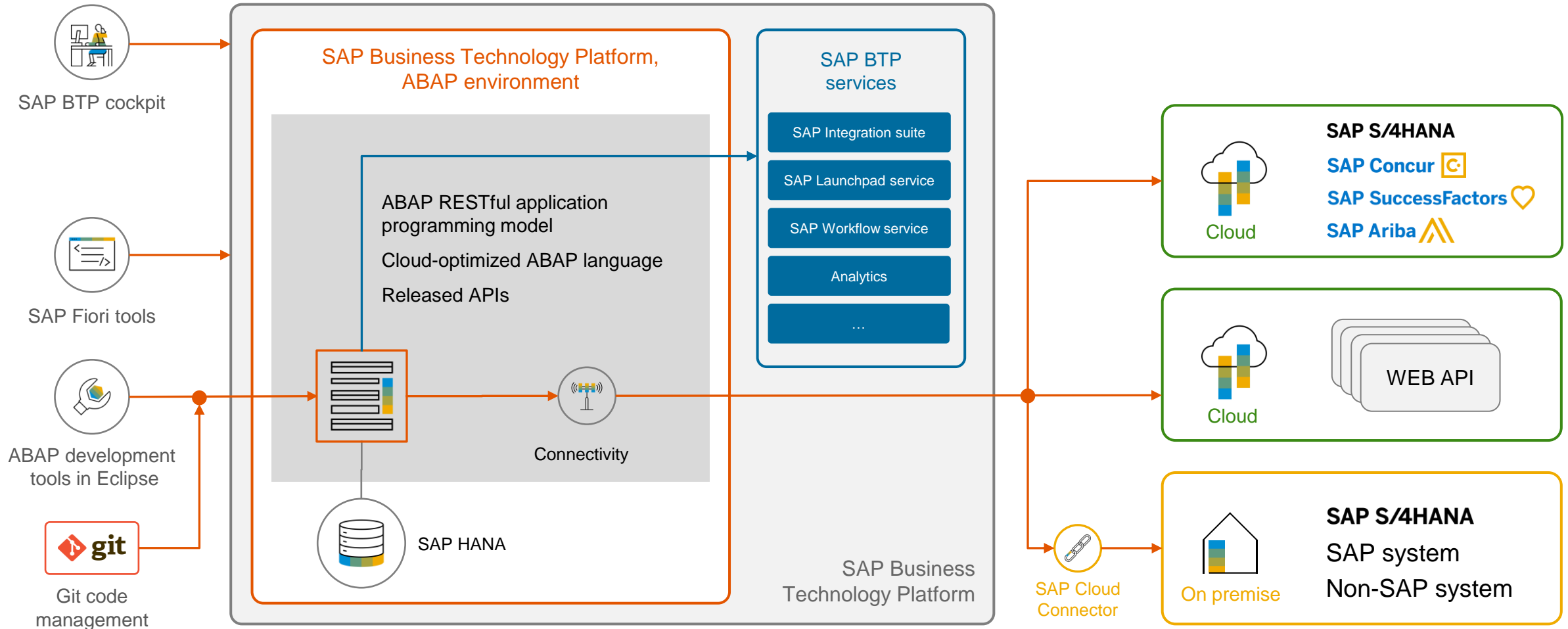


AGILE INNOVATION ON NEWEST
TECHNOLOGY POWERED BY
SAP HANA

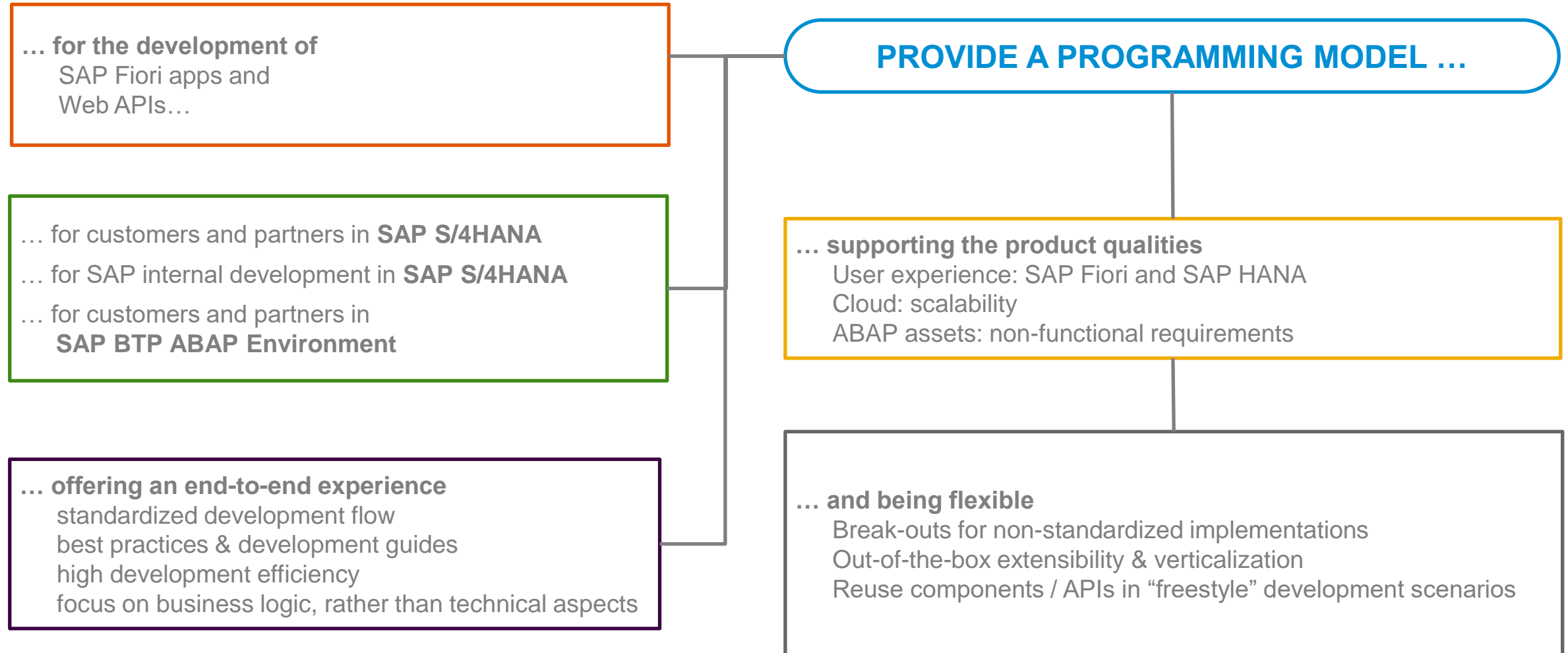


DELEGATE INFRASTRUCTURE
AND
SYSTEM OPERATIONS

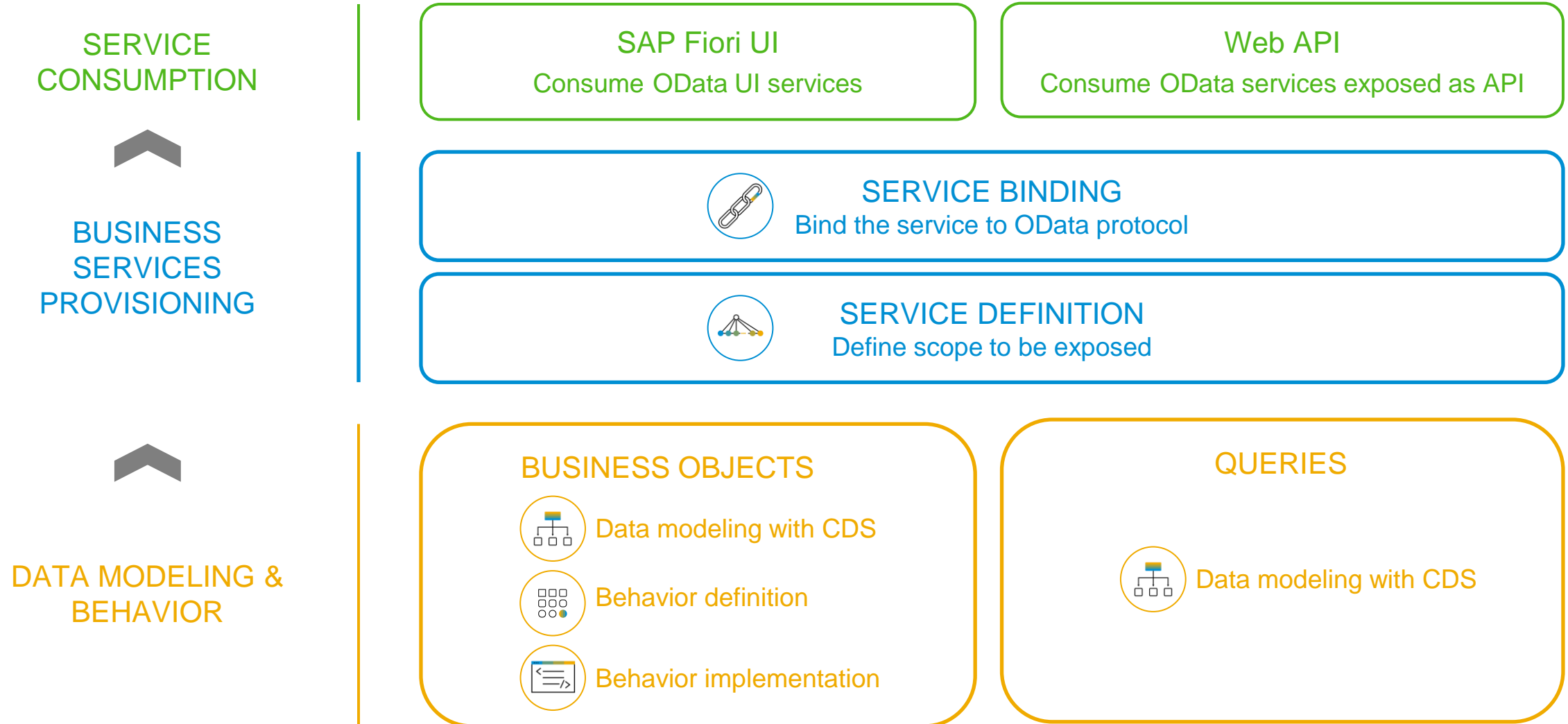
Vital parts of SAP Business Technology Platform (BTP), ABAP environment



ABAP RESTful Application Programming Model – The Mission



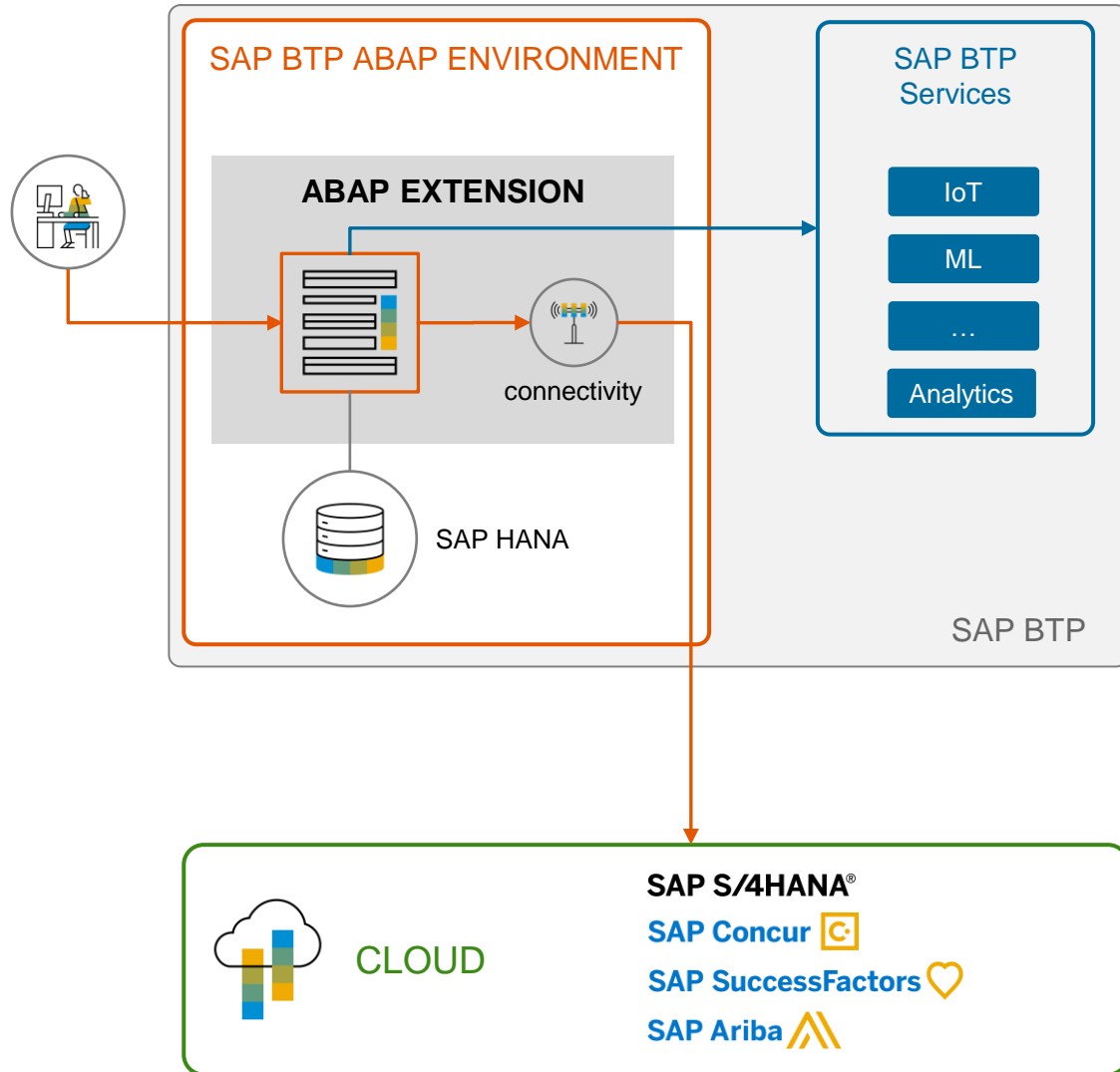
ABAP RESTful Application Programming Model



Scenarios for SAP BTP ABAP Environment

Extension scenario 1: Cloud ERP

Extend SAP S/4HANA Cloud or other SAP cloud offerings with cloud extensions

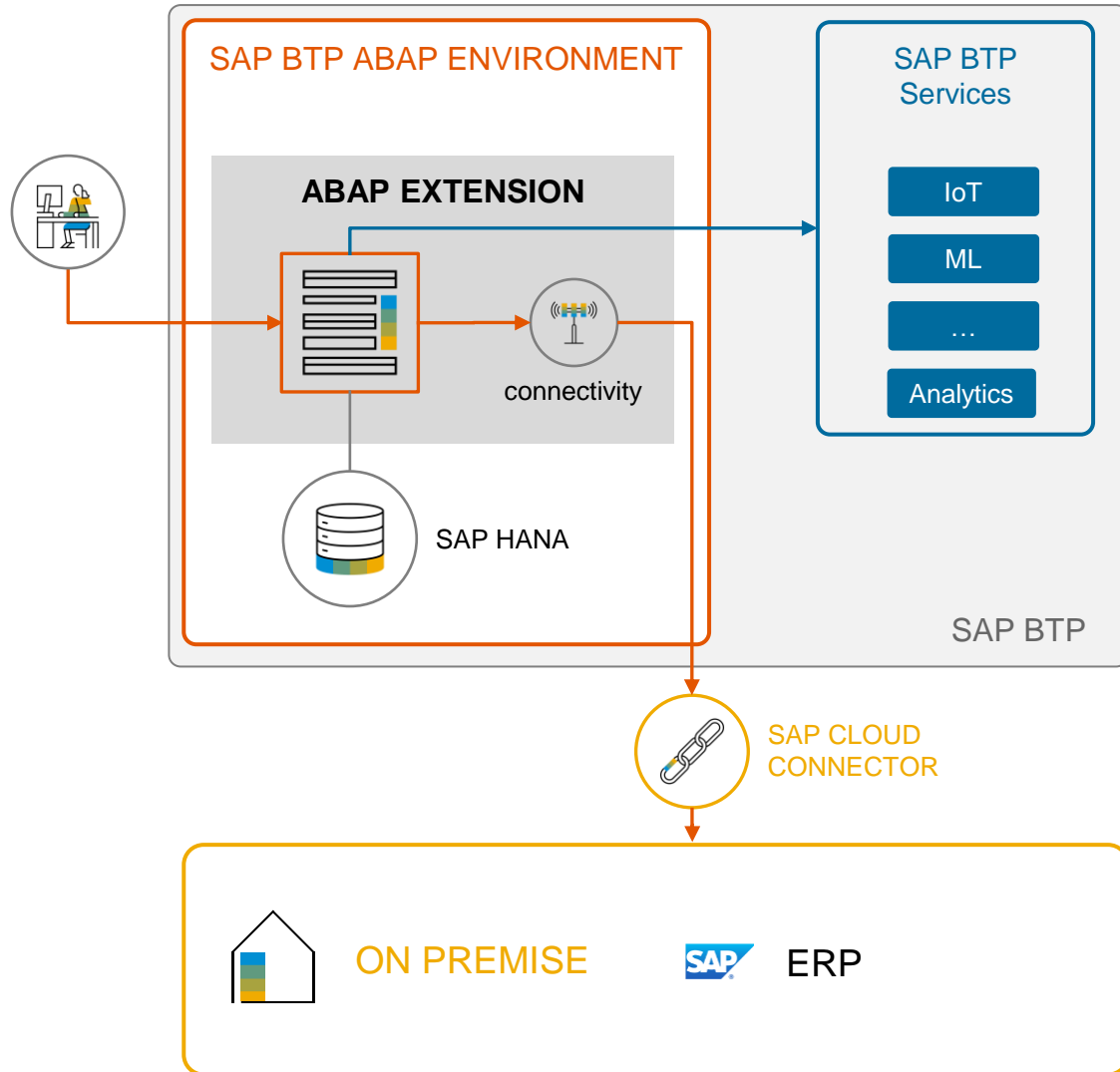


Use SAP BTP ABAP Environment to extend SAP S/4HANA Cloud or other SAP cloud solutions

- ▶ SAP Cloud solutions like SAP S/4HANA Cloud provide in-app extensibility to extend SAP apps and processes, but there is no support for classic custom ABAP development on top of SAP S/4HANA Cloud
- ▶ SAP BTP is the foundation to develop and run custom cloud extensions and the ABAP environment shall be used for ABAP based cloud extensions

Extension scenario 2: Innovation Platform

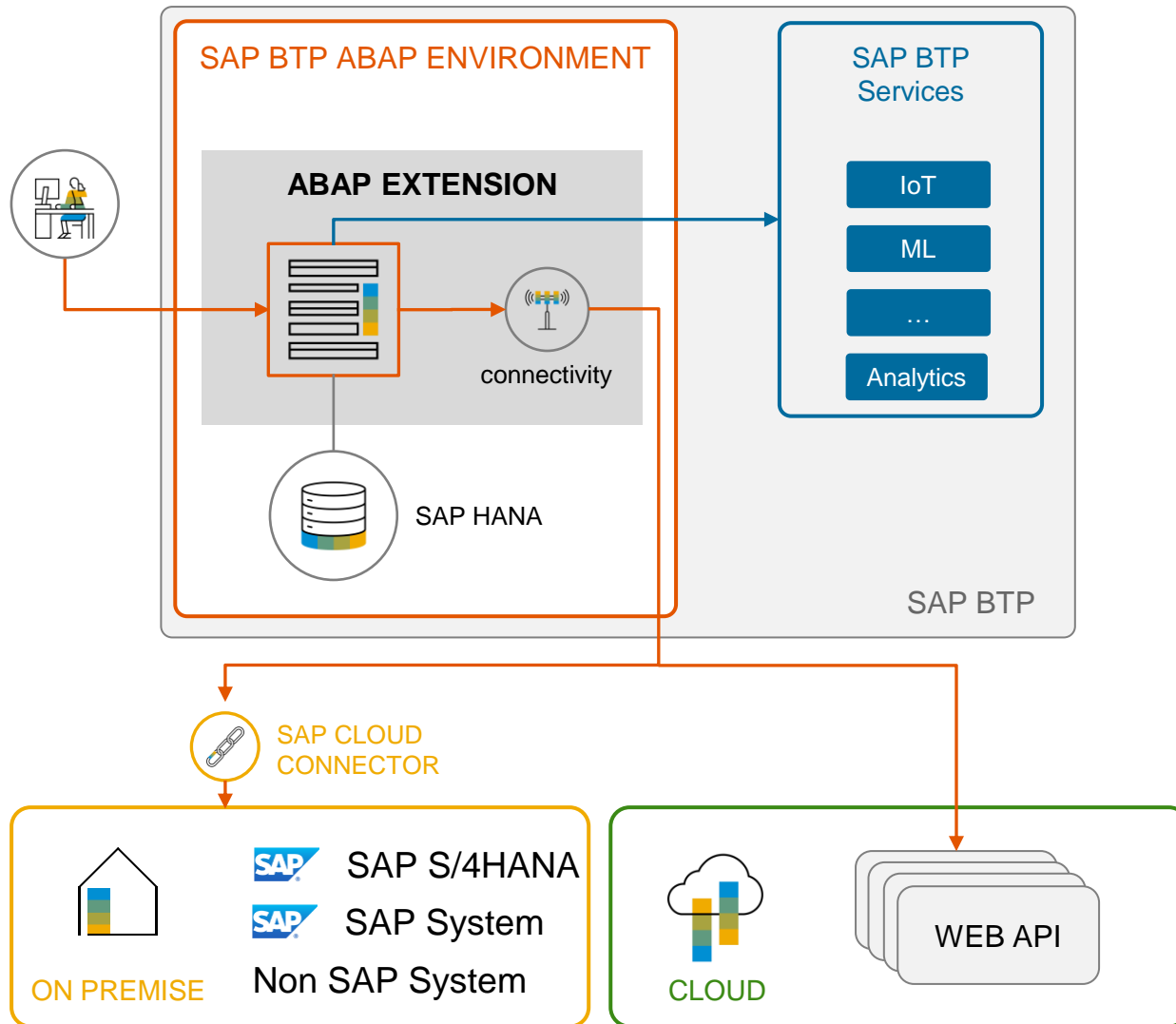
Develop and run innovative ABAP apps on a PaaS in the Cloud



- ▶ Benefit from the newest ABAP Platform and SAP HANA database technologies independent from your existing on-premise system landscape
- ▶ Build your Fiori apps with the new future proof ABAP RESTful Application Programming Model
- ▶ Utilize SAP BTP services like IoT, machine learning etc. in your cloud extension
- ▶ Delegate operation of the ABAP PaaS and new technologies to SAP

Extension scenario 3: Hub-like usage

Decouple ABAP implementations from your core business systems



- ▶ **EXTERNAL USER GROUP**
Make your cloud app available to a broader audience that does not have access to your core business systems (e.g. consumer apps)
- ▶ **INTEGRATION HUB**
Integrate in your cloud extension multiple cloud/on-premise systems with SAP/non-SAP cloud services
- ▶ **DATA INTEGRATION**
Collect data from multiple sources in your cloud extension for further processing and analysis
- ▶ **DECOUPLED EXTENSION**
Cloud extensions use only well defined (remote) APIs of the Business system. This reduces the risk and effort for business system upgrades.

Transformation approach for existing extensions and custom code



Objectives

- Decouple extensions and custom code from application layer
- Provide end-user UIs as SAP Fiori UIs
- Use only released SAP objects
- Use only ABAP language scope for cloud



Tool Support

- Starting on-premise to check readiness for SAP BTP ABAP Environment:
 - ABAP Test Cockpit (ATC) check variant
 - Custom Code Migration app (SAP S/4HANA or ABAP environment only)
- Continuing in SAP BTP ABAP Environment: Quick fixes for certain code replacements in ABAP Development Tools in Eclipse (ADT)

Roadmap for SAP BTP ABAP Environment

Roadmap

The screenshot displays the SAP Roadmap Explorer interface. At the top, there is a navigation bar with the SAP logo, 'Road Map Explorer', and links for 'Products', 'Processes', 'Industries', 'My Road Maps', and 'Disclaimer'. Below this is a search bar containing 'SAP BTP, ABAP...' and a filter for '5 Road Map Items'. The main area is divided into four columns representing different quarters: Q3 2021, Q4 2021, Q1 2022 (CURRENT), and Q2 2022. Each column contains a list of road map items with detailed descriptions and bulleted lists of features. For example, Q3 2021 includes 'Application Runtimes and Development Environments' and 'Side-by-Side Extensibility'. Q1 2022 is marked as 'CURRENT' and includes 'Side-by-Side Extensibility' with features like 'New infrastructure and integration capabilities'. Q2 2022 includes 'Application Runtimes and Development Environments' with features like 'New infrastructure, integration, and reuse capabilities'. The interface also includes filters for 'Products', 'Industries', and 'Focus Topics', a date range selector for 'Q3 2021 - Q2 2022', and a 'Save' button.

 Visit [SAP Roadmap Explorer](#)

Learn more

[ABAP Environment in SAP Discovery Center](#)

[SAP Roadmap Explorer](#)

[Trial Announcement](#)

[Product Expert Page](#)

[Learning Journey](#)

[Getting Started Tutorials](#)

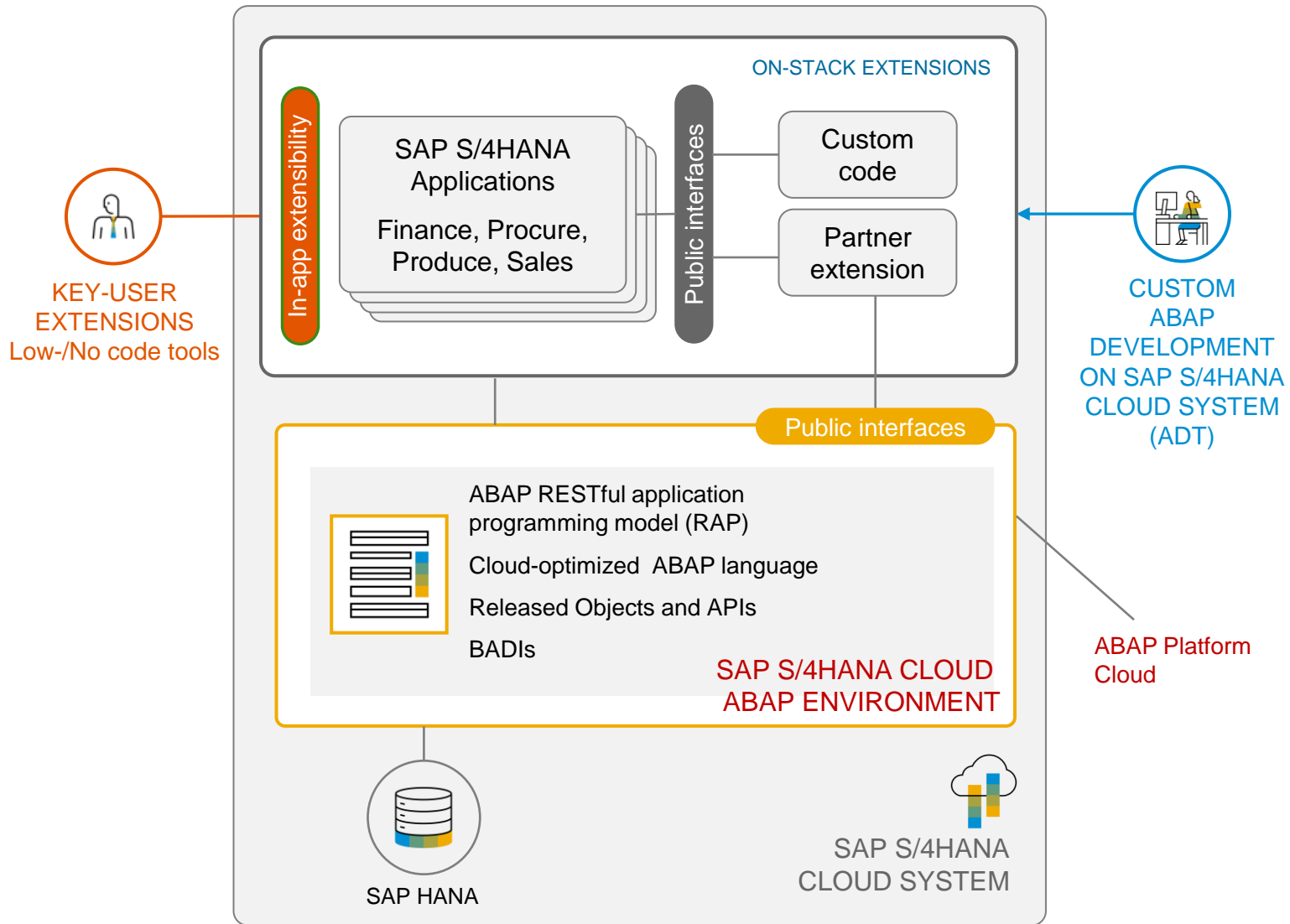
[Technical Product Documentation](#)

[Release Notes](#)

The screenshot shows the SAP Discovery Center interface for the SAP BTP ABAP environment. The page features a navigation bar with 'Home' and 'Services' menus, and a 'Log On' button. The main content area includes a 'Features' section with a description of the platform, a 'Tools' section listing 'ABAP RESTful Application Programming Model' and 'ABAP Development Tools', and a 'Resources' section. A large banner image of hot air balloons is overlaid with the text 'SAP Business Technology Platform ABAP Environment' and an 'At a glance' button. Below the banner, a paragraph describes the platform as a PaaS offering. The 'Featured Content' section contains four cards: 'SAP BTP ABAP Environment - Overview' (with links to presentation, video, and discovery center), 'Take your ABAP skills to the Cloud' (with links to blog, insider article, and 2108 release), 'SAP BTP ABAP Environment - FAQ' (with a link to FAQ), and 'Get it now!' (with links to trial version and SAP Store). The right sidebar includes a 'Browse' section with a link to the product page and a 'Resources' section with links to 'Getting Started', 'Key presentation', 'About ABAP in SAP BTP', 'Learning Journey', 'Release 2108', and 'FAQ'.

Outlook

Introduction of SAP S/4HANA Cloud ABAP Environment*



ENABLE CUSTOM ABAP DEVELOPMENT DIRECTLY ON SAP S/4HANA CLOUD STACK

MODERN ABAP DEVELOPMENT

SAP, customers and partners use the same development model

High developer productivity

ABAP RESTful application programming model

- Development of SAP HANA-optimized apps and services
- Eclipse-based ABAP development tools

SAP Fiori tools for UI Development

Proven Lifecycle Management

RULES OF THE GAME

- Clear separation between SAP solutions and extensions
- Only stable and reliable public interfaces and released objects from both ABAP platform and SAP S/4HANA Cloud applications can be used
- No modifications

Summary of Extensibility Options for SAP S/4HANA Cloud

*on roadmap

	Custom development integrated in SAP S/4HANA Cloud		Custom development on SAP Business Technology Platform
	Key User Extensibility	Developer Extensibility*	Side-by-Side Extension
Scenario	Smaller low-/no-code extensions of SAP solutions	Tightly coupled more complex extensions and apps	Loosely coupled extensions and apps
Target environment	Fully integrated in SAP S/4HANA Cloud stack		SAP Business Technology Platform
Use cases	UI field layout, custom forms and templates Custom analytics via CDS views Custom Business Objects Custom business logic using Cloud BADIs	ABAP based ... custom app development extensions of SAP S/4HANA Cloud solutions partner extensions	Custom or multitenant applications ABAP and non-ABAP (Java, Node.js,) development SaaS solutions developed by partners Apps for separate target groups
Persona	Key user	ABAP developer	Developer
Benefits	Fully managed and integrated in SAP S/4HANA Cloud No or only very basic development skills required	Development of extensions inside the SAP S/4HANA Cloud system No remote access and data replication Use and extend released SAP S/4HANA Cloud objects	Decoupled extensions independent of SAP S/4HANA Cloud operation and lifecycle management Direct consumption of SAP BTP services

Thank you.

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