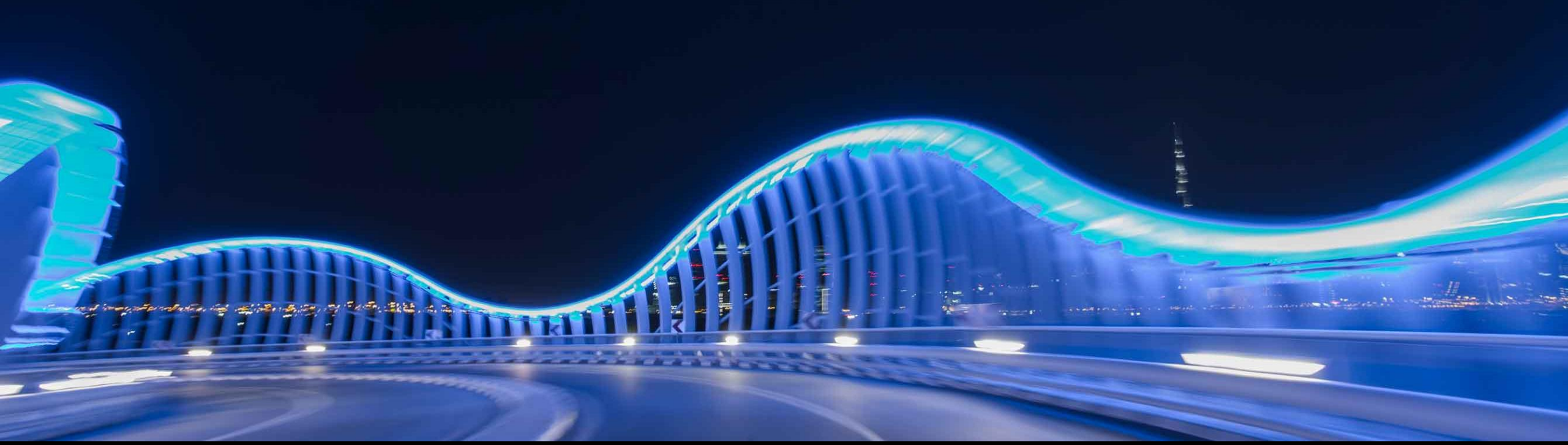
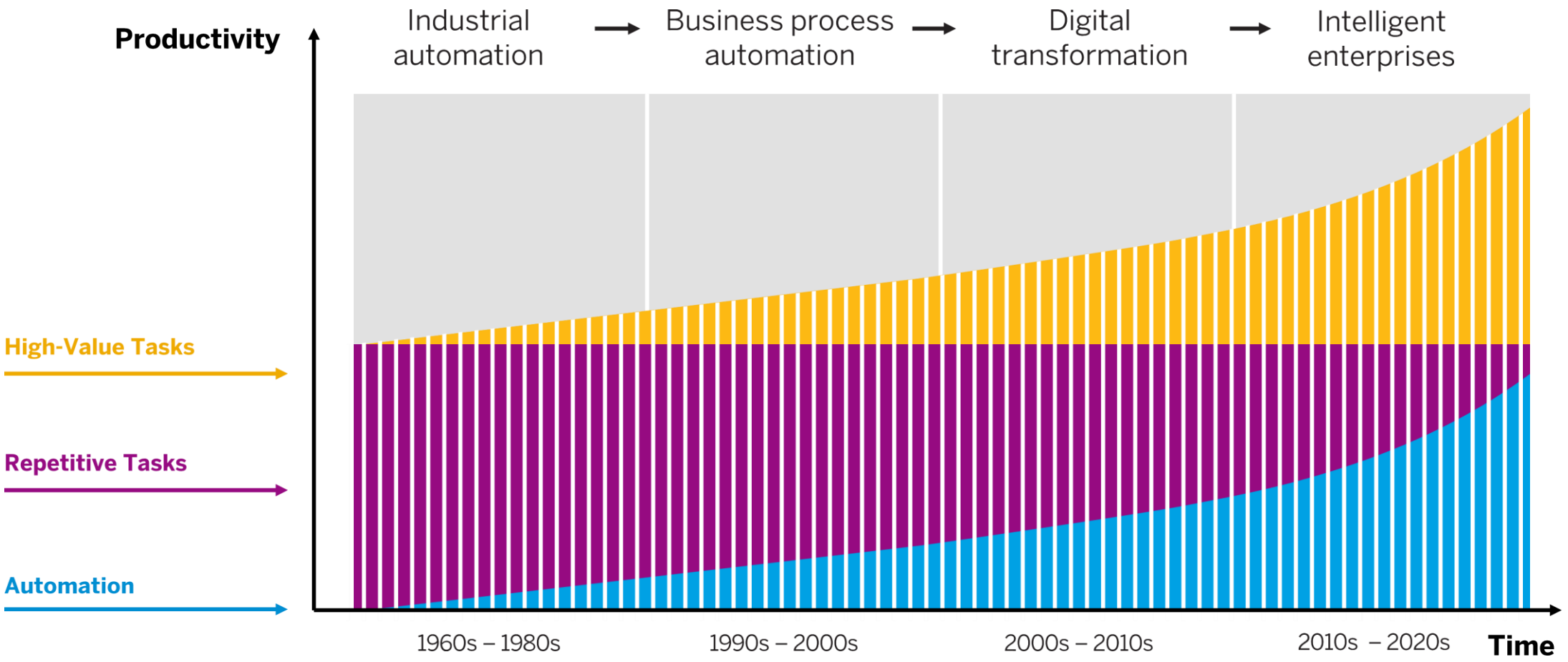


Budoucnost s flexibilní cloudovou strategií

Michal Marko, SAP ČR

THE BEST RUN SAP

Intelligent enterprises elevate employees to focus on higher-value tasks



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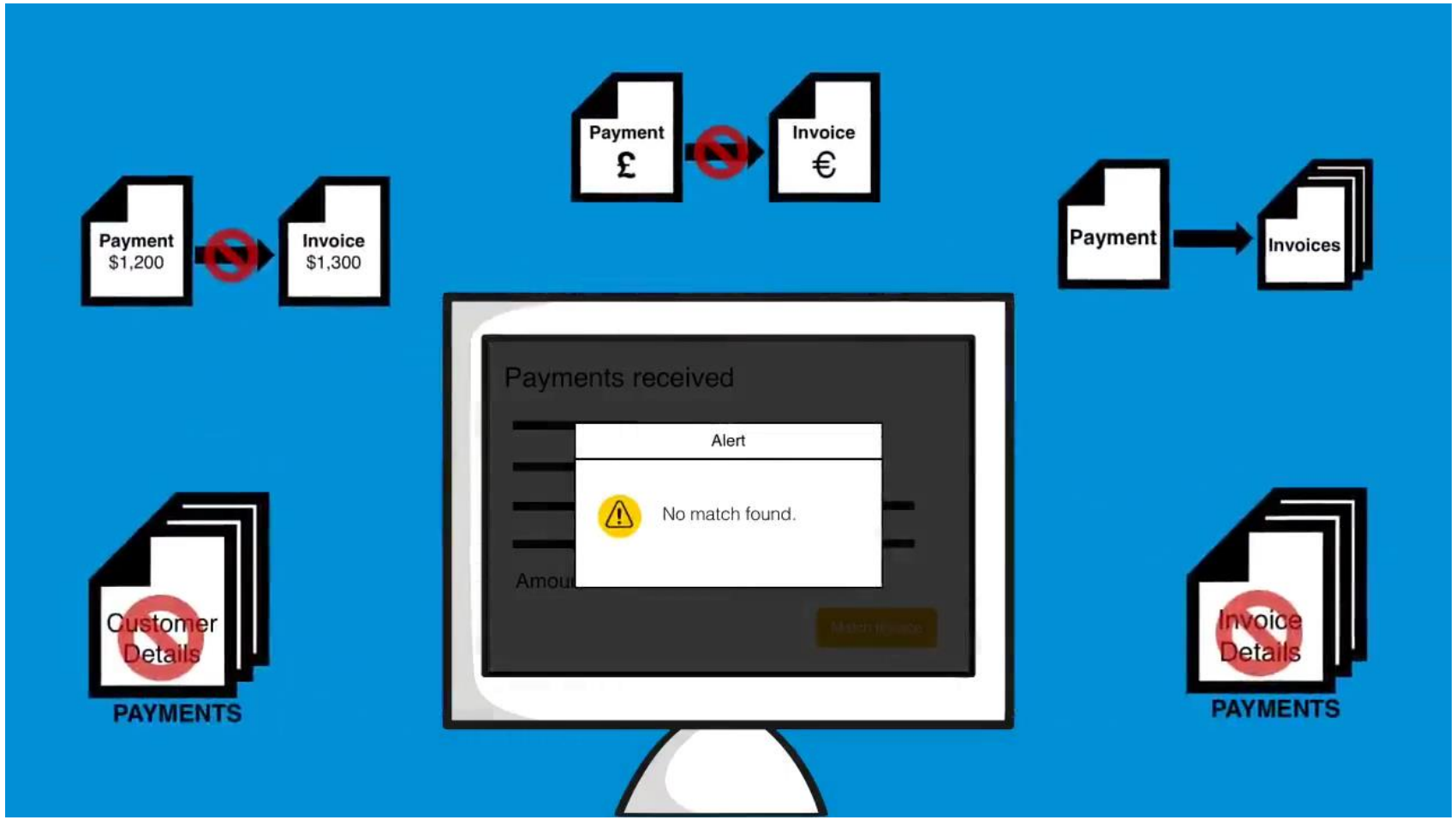
SAP Cash Application for invoice matching & clearing

Example of extension for SAP ECC & SAP S/4HANA



- **Learns** from accountants' past manual actions
- **Automatically clear** or suggest for review Incoming payment and open invoice information
- **Integrated** environment with SAP S/4HANA on premise, SAP S/4HANA Cloud and SAP ECC 6.0

Direct link: https://www.sap.com/products/cash-application.html

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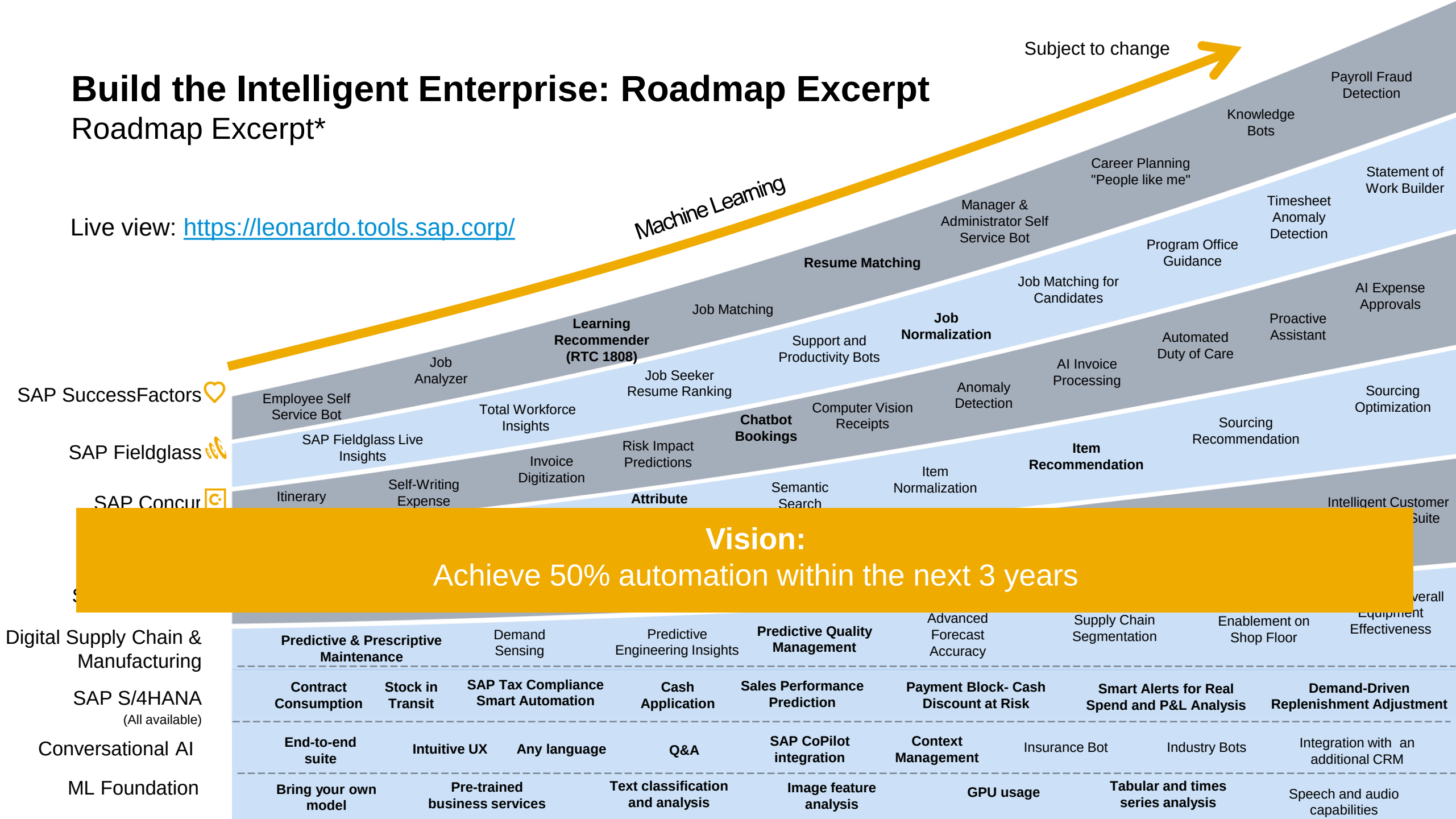
Build the Intelligent Enterprise: Roadmap Excerpt

Roadmap Excerpt*

Live view: https://leonardo.tools.sap.corp/

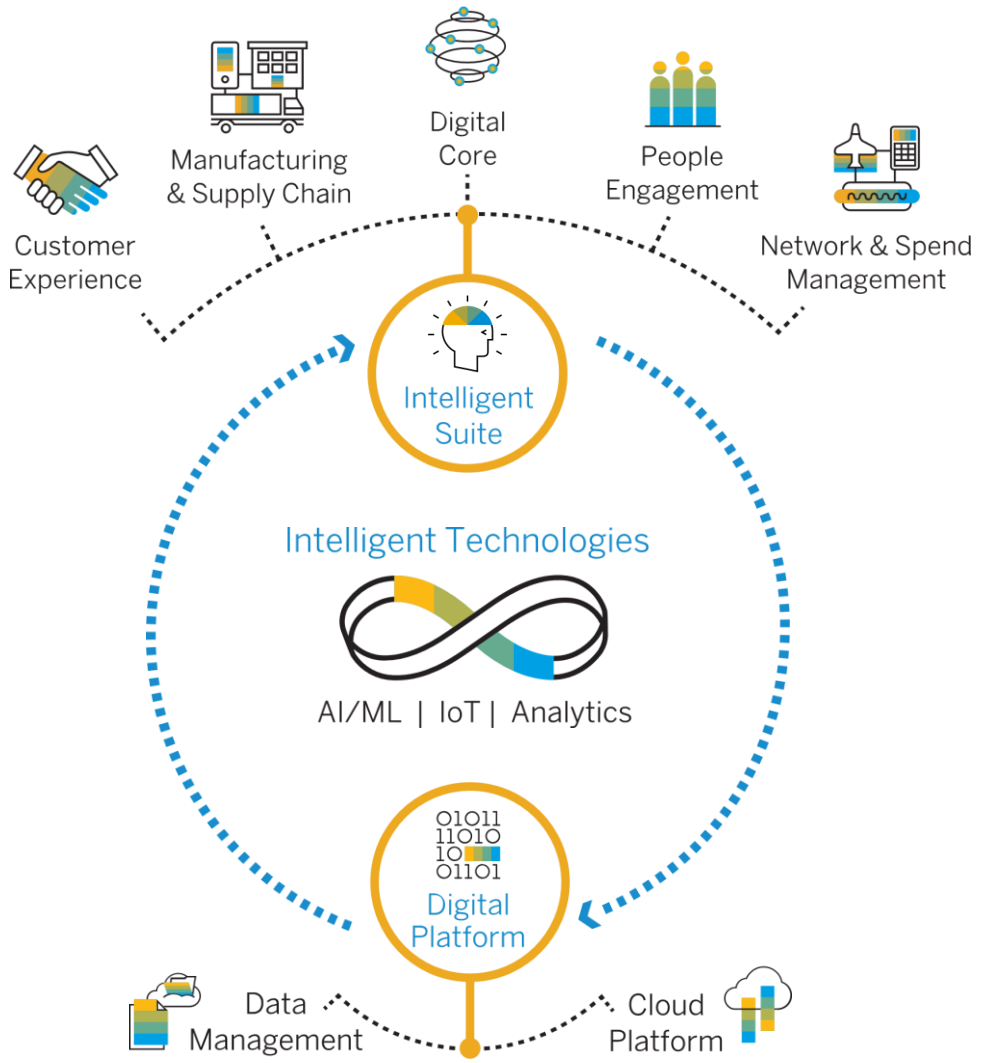


Vision:
Achieve 50% automation within the next 3 years

SAP Strategy – Deliver the Intelligent Enterprise

THE INTELLIGENT ENTERPRISE

features **3 KEY COMPONENTS:**



1. Intelligent Suite
2. Digital Platform
3. Intelligent Technologies

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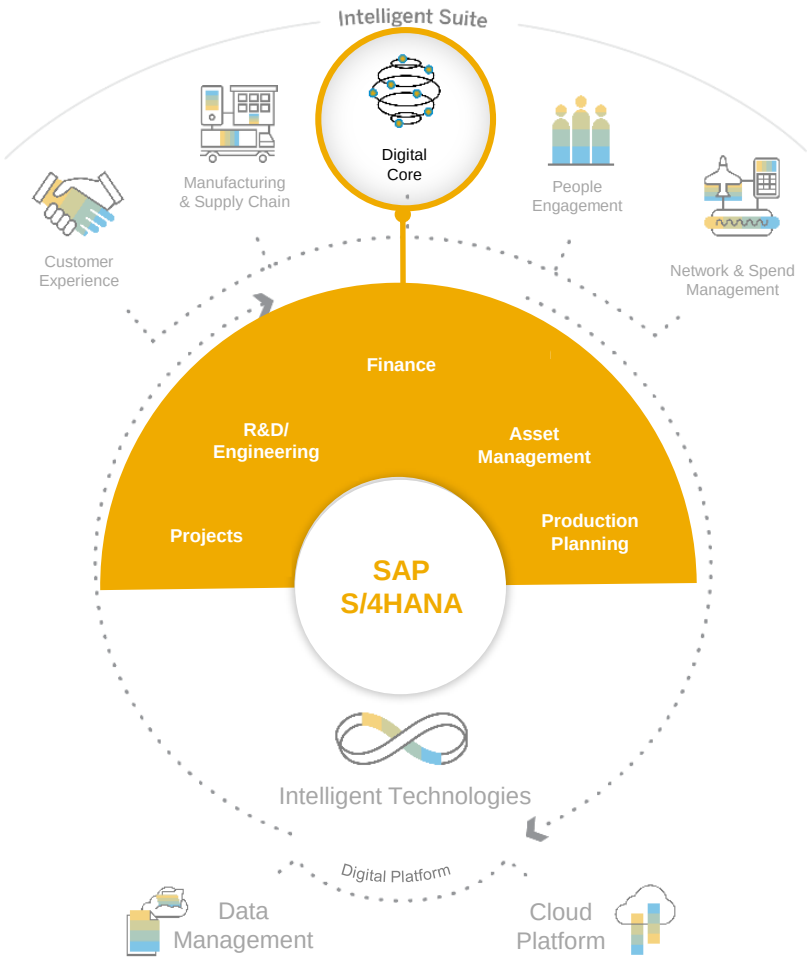
Core to the Intelligent Suite

SAP S/4HANA



Core Ingredients of Intelligent Cloud ERP

- Digital Age UX
- Embedded Intelligence and Automation
- Next-generation Processes

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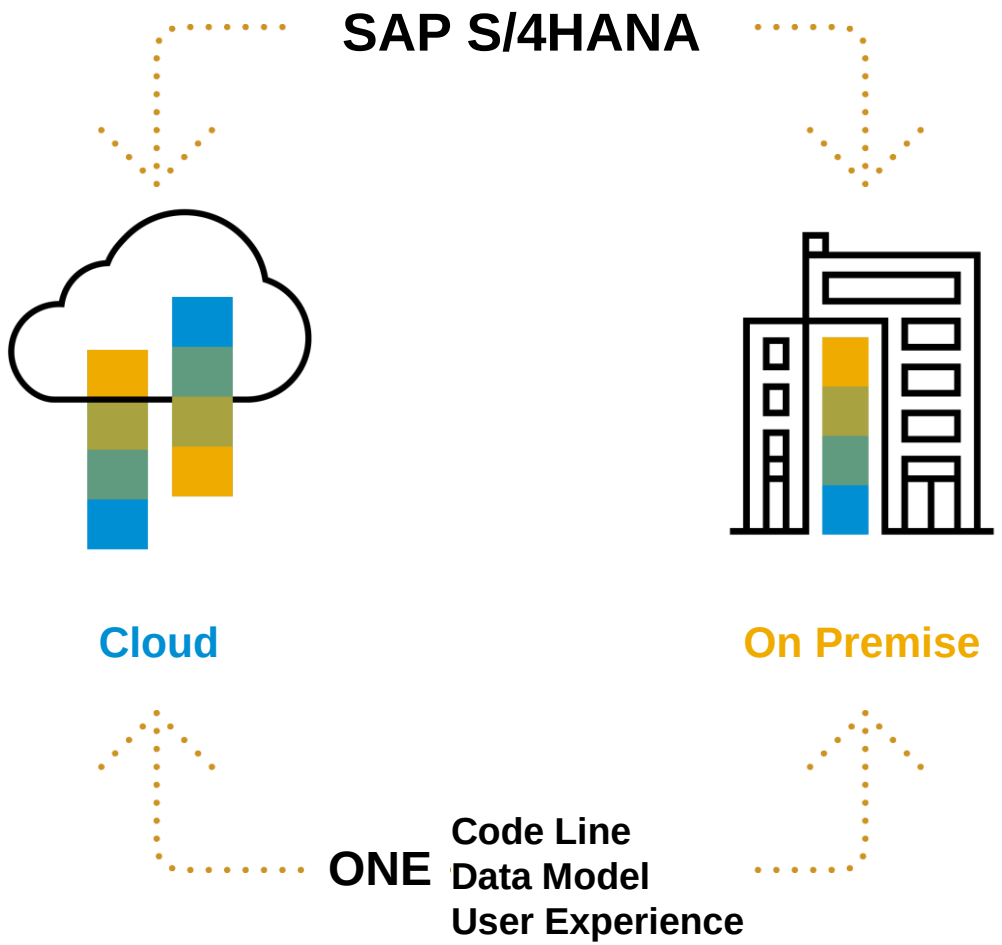
SAP is the Only Choice for Innovation in Cloud And On-prem ERP



Considerations for selecting the right SAP S/4HANA solution:

- Business functionality
- Regulatory, industry, and regional requirements
- Individualization options
- IT Strategy
- Innovation cycles
- Adoption/upgrade efforts
- TCO
- Commercial models

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SAP S/4HANA choice

Consider three dimensions: **Scope, Governance, Standardization**

Core ERP scope, rapid innovation		**Extended ERP scope,** controlled innovation	
SAP-led governance		**Customer-influenced** governance	**Customer-led** governance
Standardization		Recommended to Standardize	Open to Modifications
SAP S/4HANA Public Cloud		**SAP S/4HANA Cloud, single tenant edition**	**SAP S/4HANA, HANA Enterprise Cloud**	**SAP S/4HANA OnPremise**

SAP aws Microsoft Azure Google Cloud

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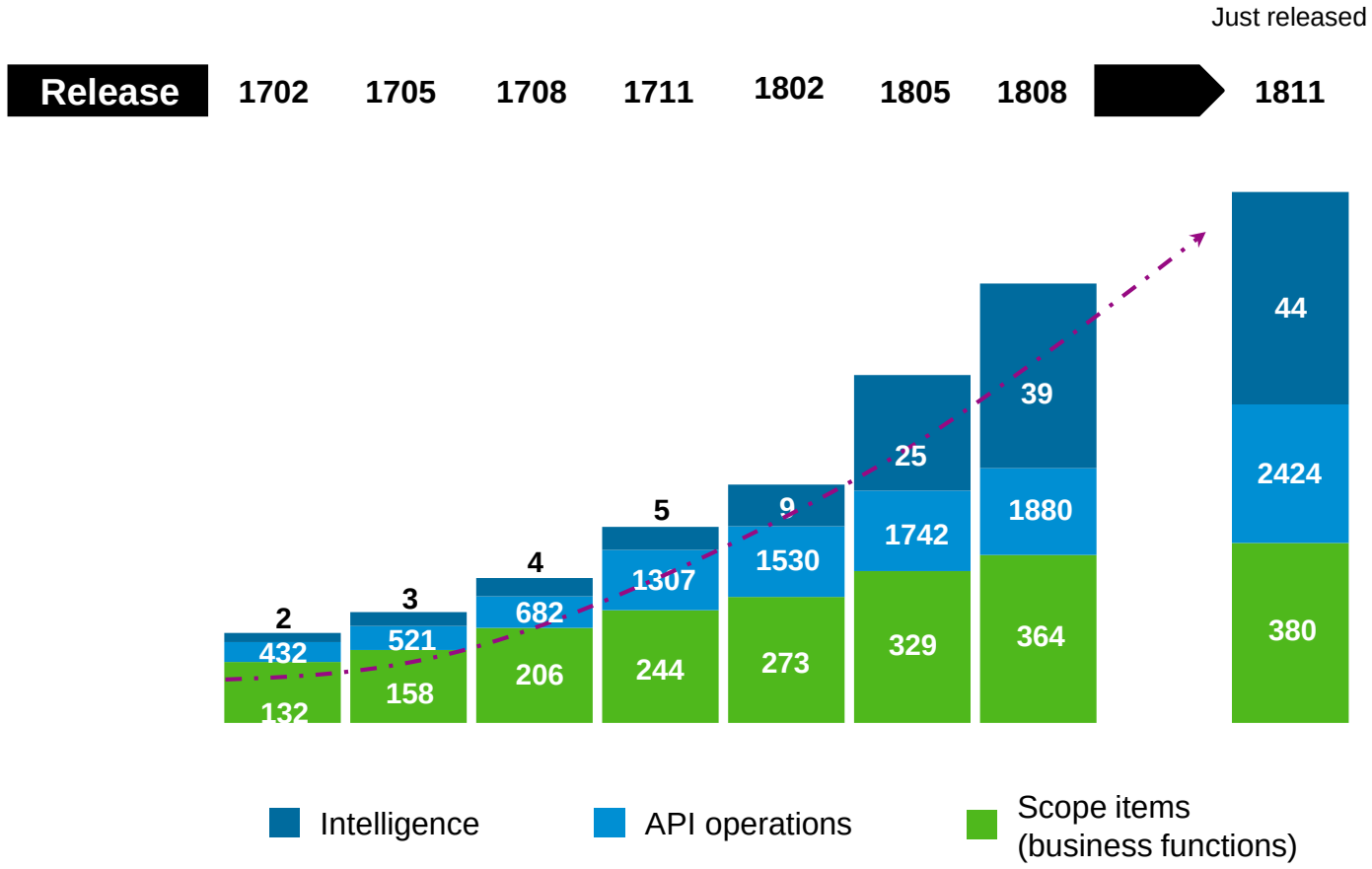
SAP S/4HANA Public & Single Tenant Cloud: Evolving at Cloud Speed



- 4 quarterly innovative releases per year
- Finance-centric administrative ERP built to deliver value to all customers
- Strong 2-tier ERP capabilities
- Selected industry-specific functionality

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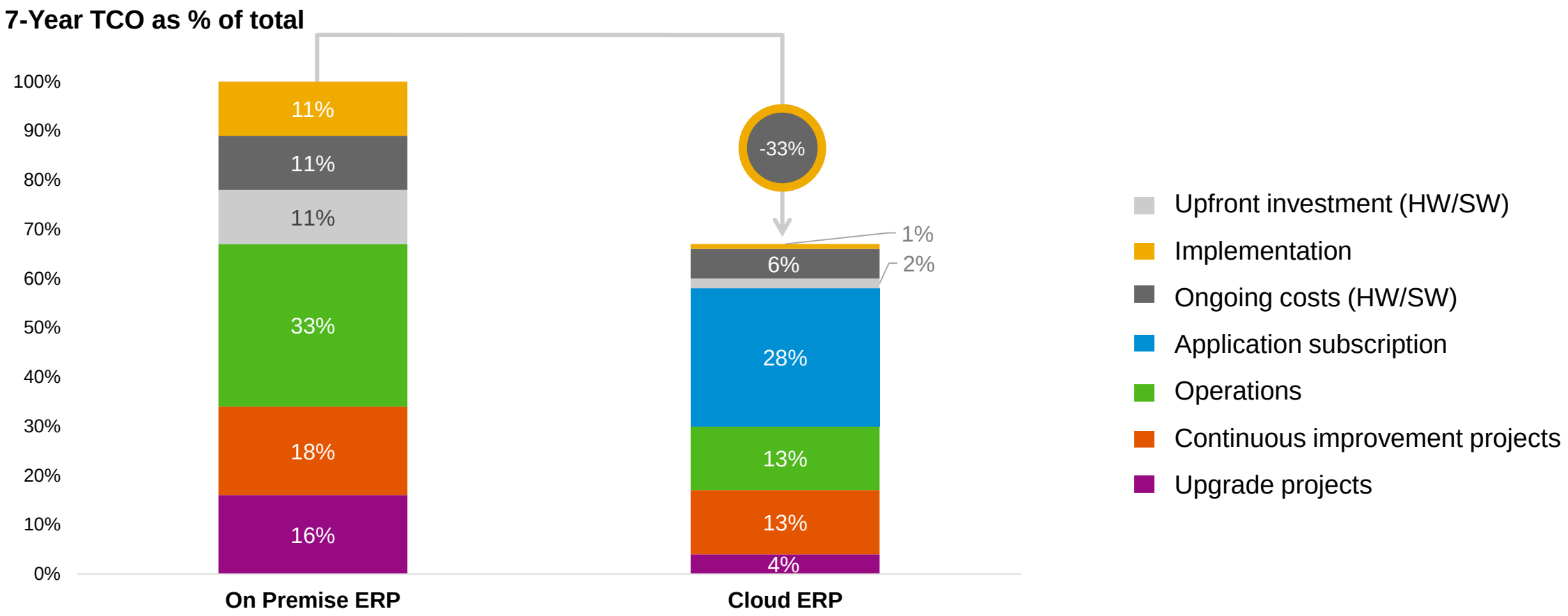
Comparative TCO Example



Source: SAP Performance Benchmarking, based on data from over 300 companies

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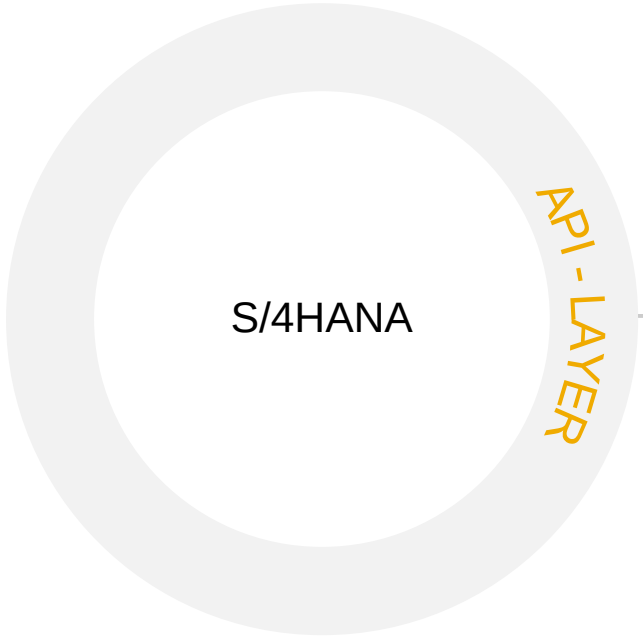
Extensibility and Side-by-Side Extensions

Tailor your SAP S/4HANA Environment with SAP Cloud Platform



Extend

Cloud and
On Premise Apps

Connect

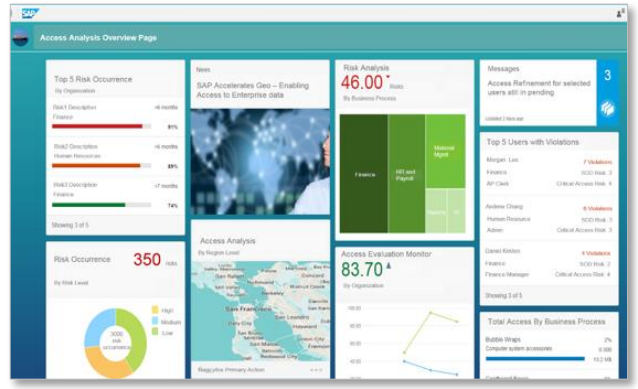
People and Data

Build

Differentiating Digital Apps

Integrate

Apps, Data, and Processes



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SAP S/4HANA Extensibility

Overview of extensibility

Decoupled extensions within SAP S/4HANA system:

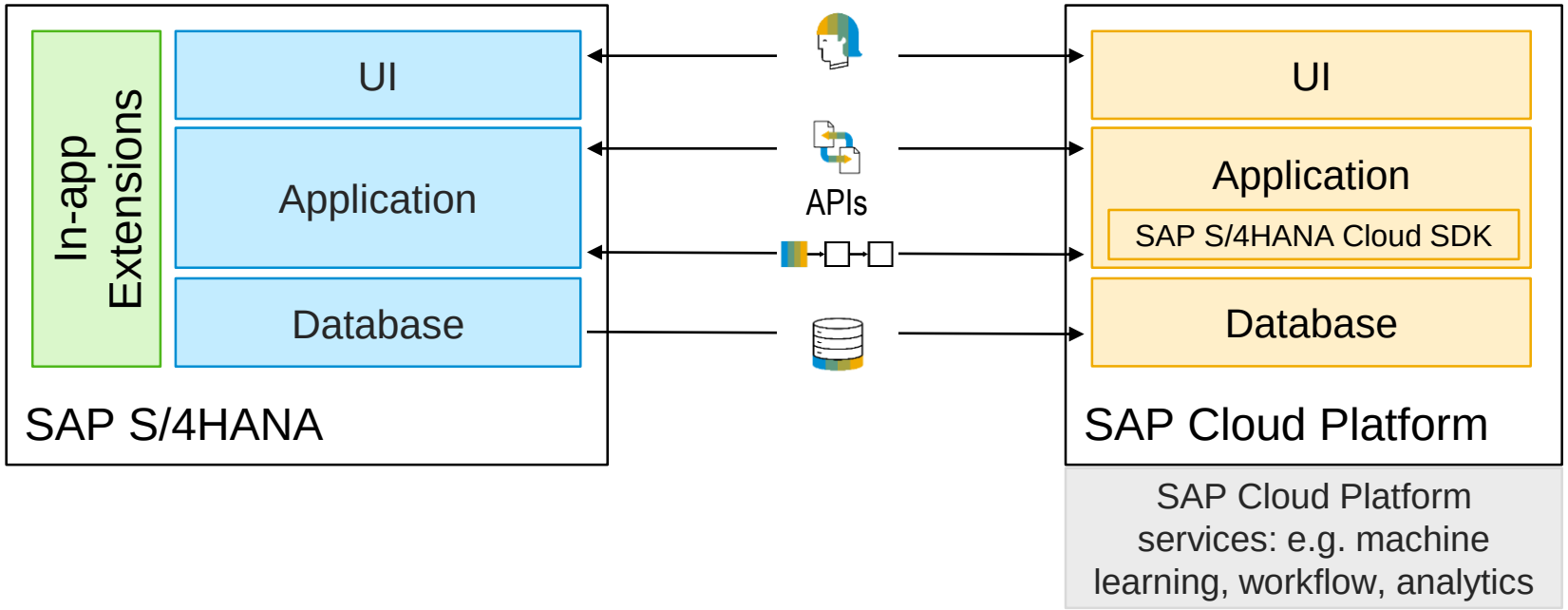
In-app extensions

SAP Extensibility Explorer

www.sap.com/extends4

Decoupled extensions on SAP Cloud Platform:

Side-by-side extensions



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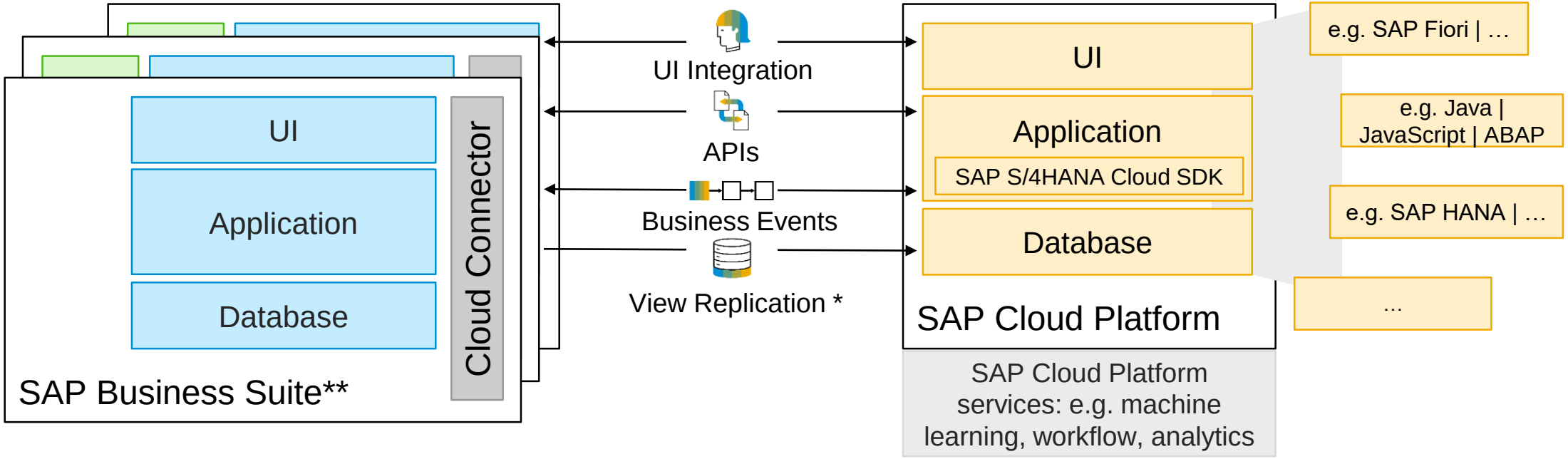
SAP S/4HANA Extensibility

Side-by-side extensions

Decoupled extensions on SAP Cloud Platform:

Side-by-side extensions



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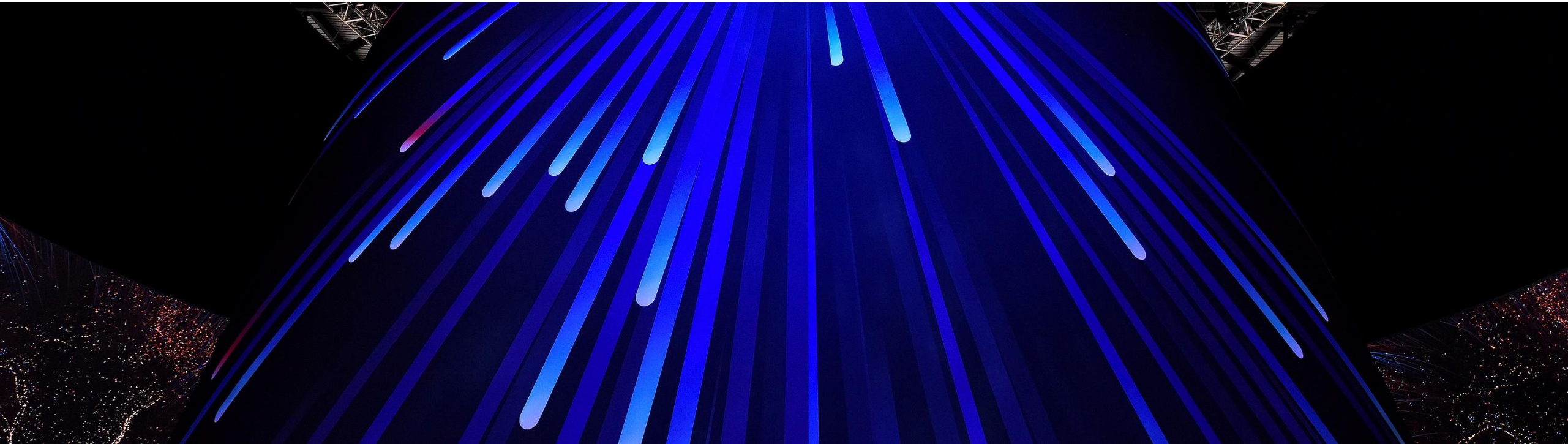
* Outlook / this is the current state of planning, and can be changed at any time ** Restrictions apply

Event-based Integration & Serverless



What are serverless architectures?

Serverless

Serverless does not mean there aren't any servers.

There are still servers in serverless architectures, but the servers are implemented and scaled by the cloud provider.

The "less" in serverless means less of the following for you:

- ✓ **Less** costs thanks to pay-per-use
- ✓ **Less** complexity through auto-scaling
- ✓ **Less** time spent on operations
- ✓ **Less** dependencies on infrastructure

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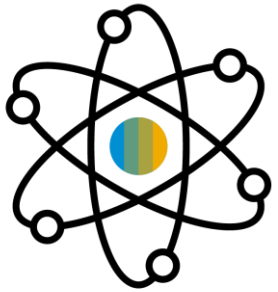
SAP Cloud Platform Functions

Is a fully managed compute service, which provides a platform on which to execute ephemeral, stateless functions in a serverless environment.



What are functions?

Functions are atomic, stateless, pieces of code executed on demand in response to triggers from other applications and services.

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SAP Cloud Platform Functions

Key Features

Complete abstraction of the underlying infrastructure that runs the application logic.

Automatic scaling of the necessary resources to match the workloads.

Micro billing for only the time and resources used during the execution of the function.

Programming model based on familiar experience with JavaScript/ Node.JS runtime.

Build extensions to existing business processes from cloud or on premise application in an event-driven manner.

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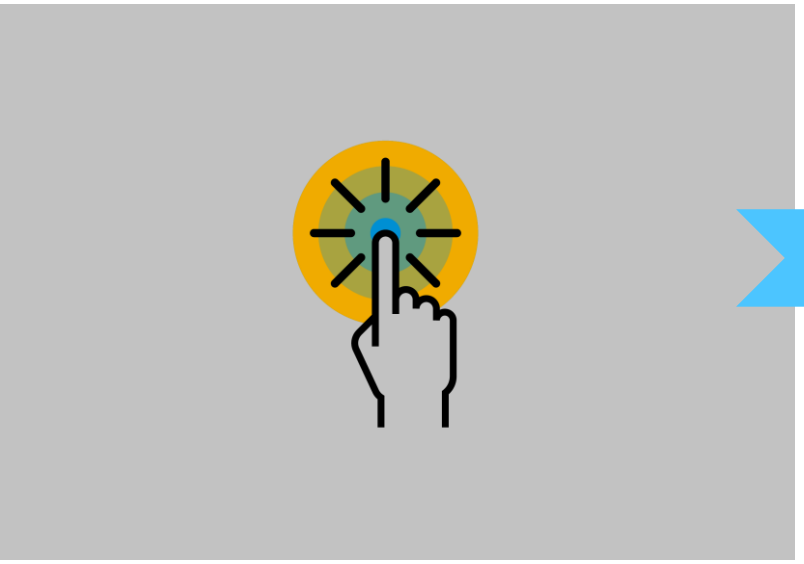
Function as a Service example



Function

```
1 def handler (event, context):
2   #TODO implement
3   Return 'Hello'
```

Result returned by function execution:

```
Hello
```

Trigger → **Implementation** → **Output**

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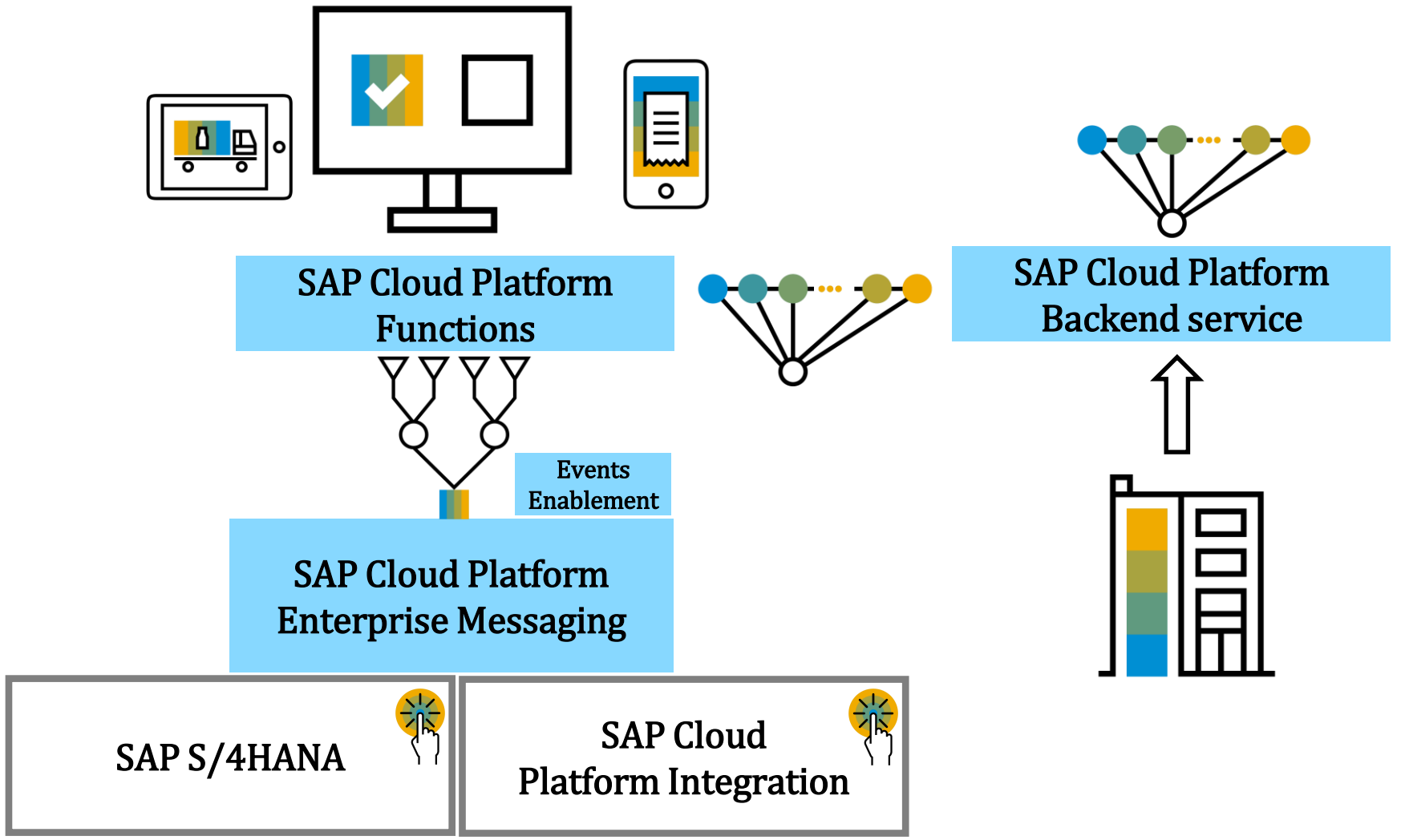
Function as a Service example

E2E for event-driven, serverless applications

Responsive applications
(business logic executed)

Event consumers
(microservices, apps)

Event emitters



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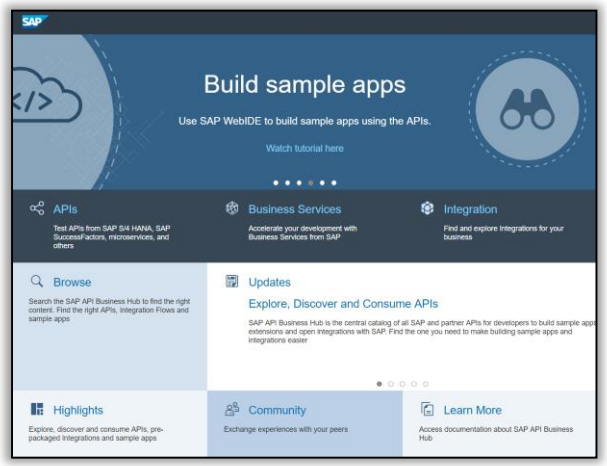
SAP API Business Hub

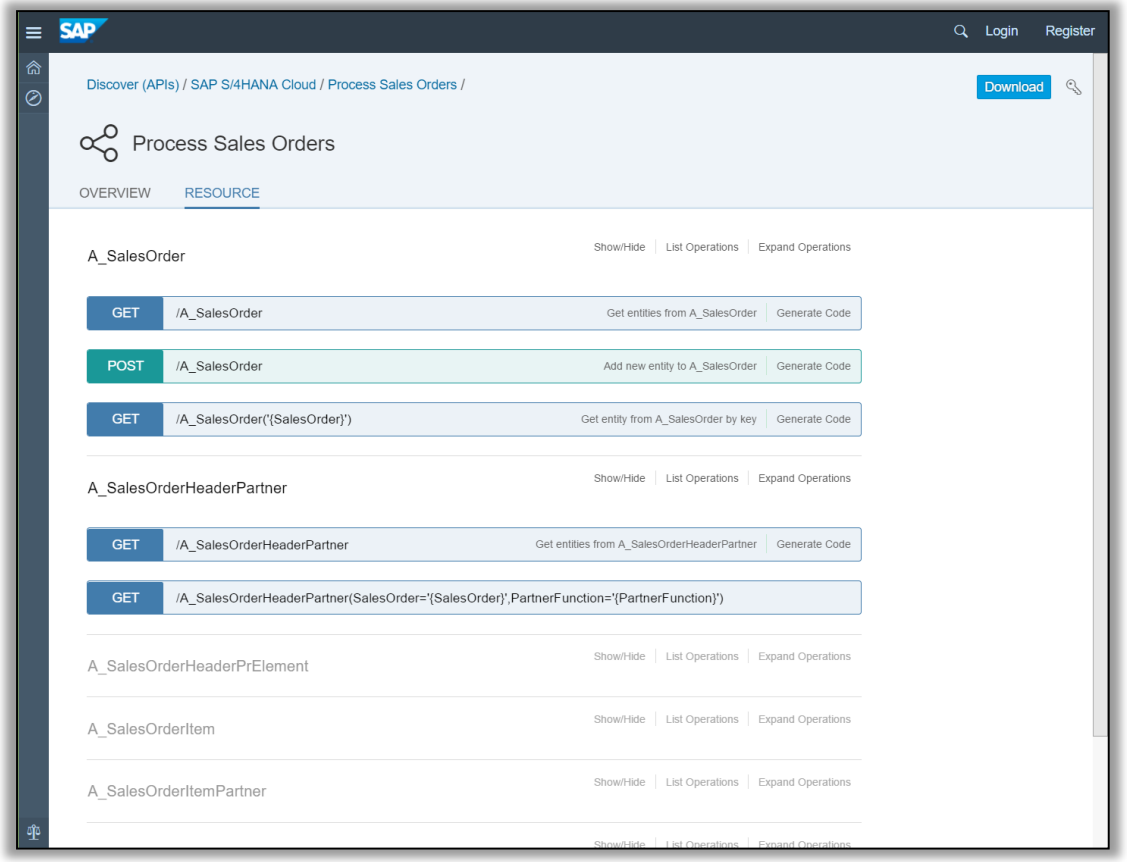
From now on “API First” approach

1307 OPERATIONS IN 132 APIs

Provides easy access to APIs from SAP S/4HANA, cloud LoB apps, industry apps, partners …

- Discover, test and learn about APIs across different SAP solutions and platforms in a central catalog
- API documentation based on OpenAPI format
- Access to APIs in sandbox systems for immediate trial
- Integrated with SAP Cloud Platform development tools





https://api.sap.com

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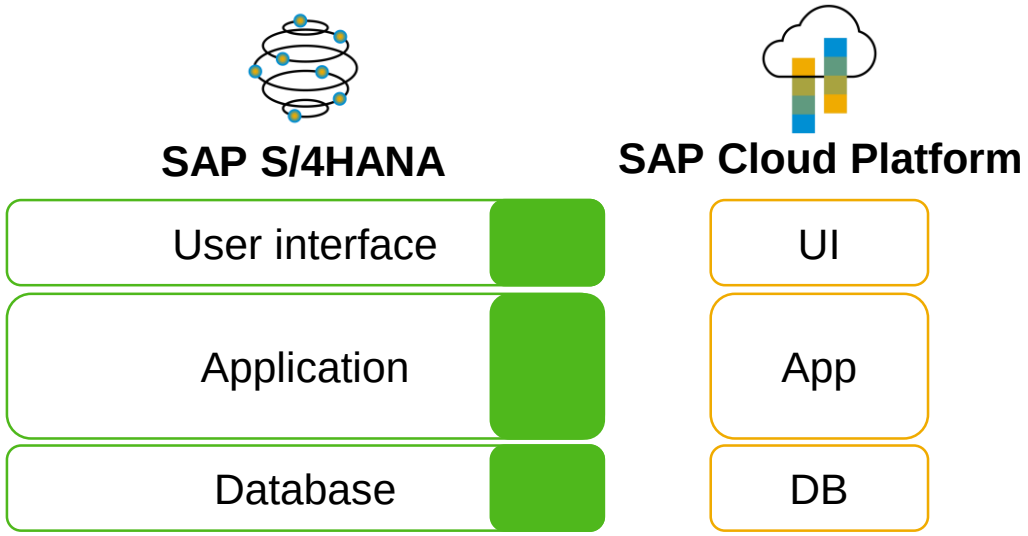
Extensibility in SAP S/4HANA and SAP Cloud Platform

Summary

Customer challenge:
Software is always patched and upgraded based on a fixed schedule, and new innovations are introduced easily.



Solution: Decoupling and lifecycle stability

- Only extensibility that does not block SAP software updates and continues to work after an update without manual steps is allowed.
- Custom extensions are loosely coupled – that is, the software lifecycle of extensions is decoupled from stable systems of records.

Focus on innovations and not just “staying alive”

Build your extensions on SAP Cloud Platform, leverage released APIs and in-app extensibility.

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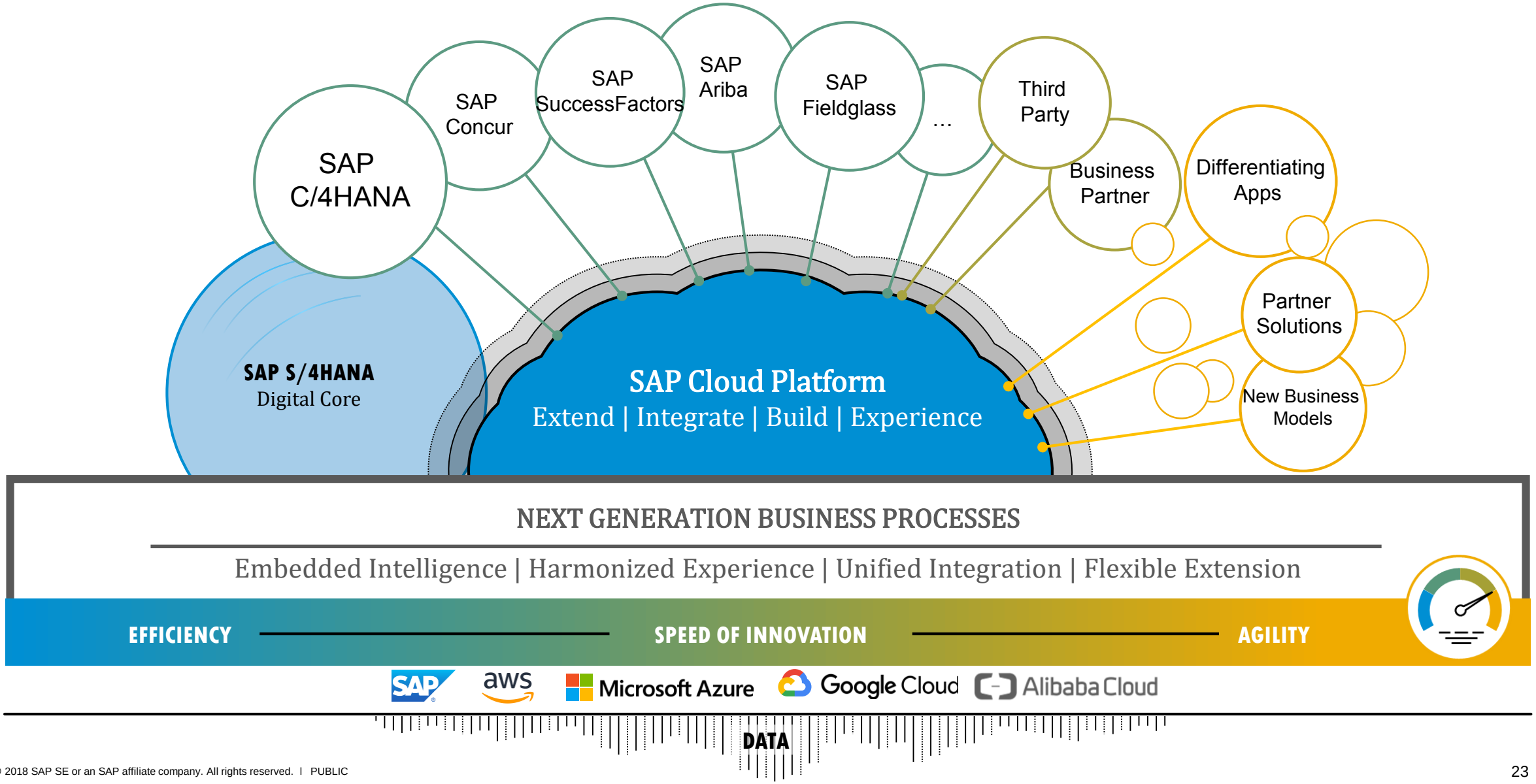
The Intelligent Enterprise is more than ERP



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Where to find more information

Learn more about SAP Cloud Platform
Get started by learning about SAP Cloud Platform at:
https://cloudplatform.sap.com

Benefit from free developer account
Free unlimited SAP Cloud Platform developer account at:
www.sap.com/developer/topics/cloud-platform.html

Participate in the SAP Community
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Thank you.

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