



Workflow Solutions from SAP

When to Use What – ASUG84544

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PUBLIC

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Agenda

SAP ERP and traditional modifications

Extensibility concept in SAP S/4HANA

Workflow extensions

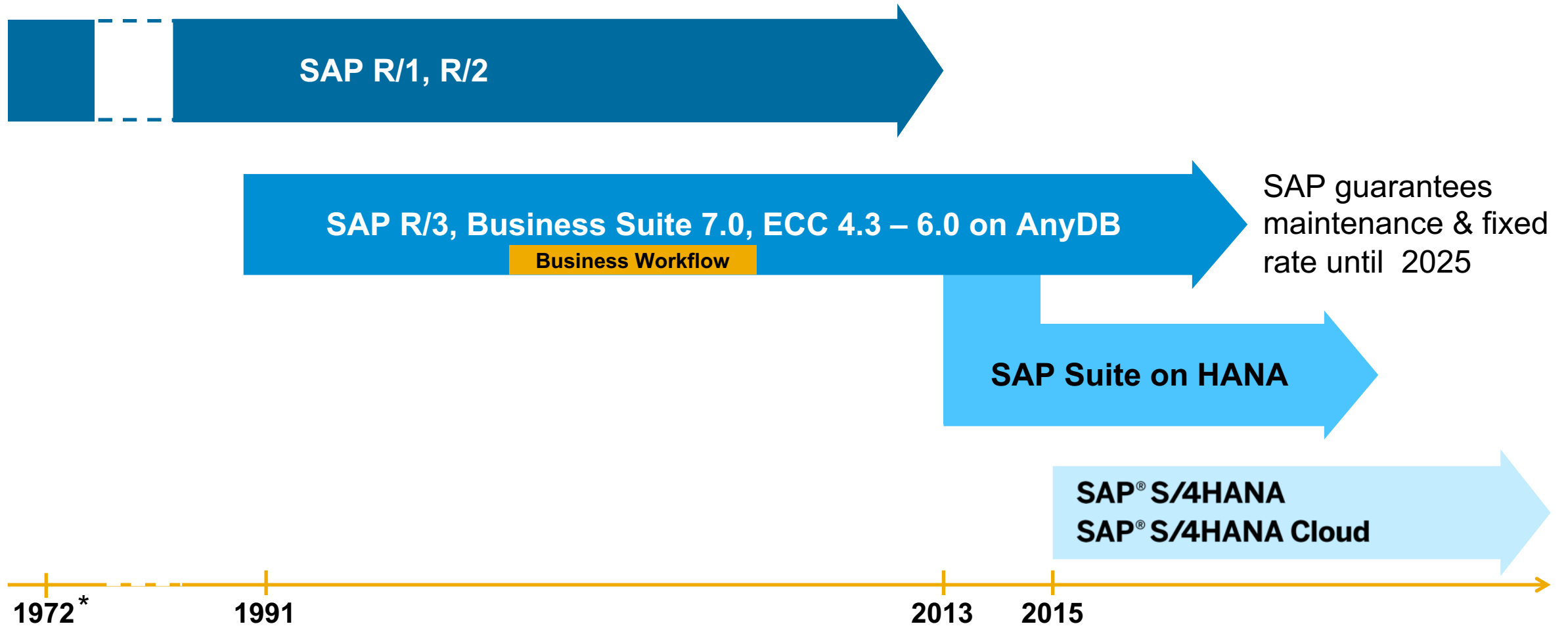
- In-app extensibility (manage workflows)
- Development of custom workflow scenarios
- Side-by-side extension using SAP Cloud Platform Workflow

Summary

SAP ERP and traditional modifications

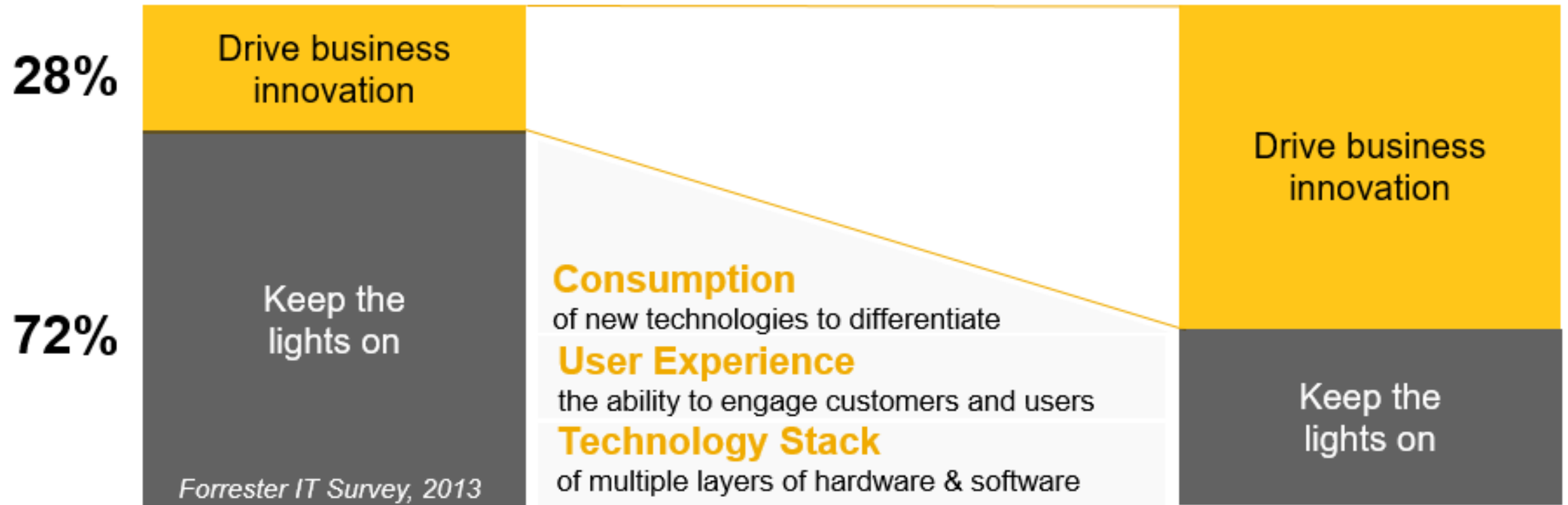


SAP ERP – Once Upon a Time



*Not to scale

Agility is key – Traditional in-app extensibility has created gridlock



Extensibility concept in SAP S/4HANA



Traditional and New Extensibility Concept in SAP S/4HANA

“Classical” Extensibility

Custom Code Development and Extensions today

- Modifications of SAP code
- Extensions calling SAP code (no APIs available)
- Software updates require major adoption effort in customer / partner code.



SAP S/4HANA Extensibility Concept

Side-by-Side Extensibility based on SAP Cloud Platform

- Full-fledged development platform to build extension applications (Java, JavaScript, SAP HANA native development)
- Based on stable external (web service) APIs **SAP® Cloud Platform**



In-app Extensibility with Key User Tools

- Custom fields and tables, custom analytics and forms, business logic (cloud ABAP Web editor), ...
- Web-based key user tools
- Based on stable extension points and APIs



Custom Code Development and Extensions (on premise only)

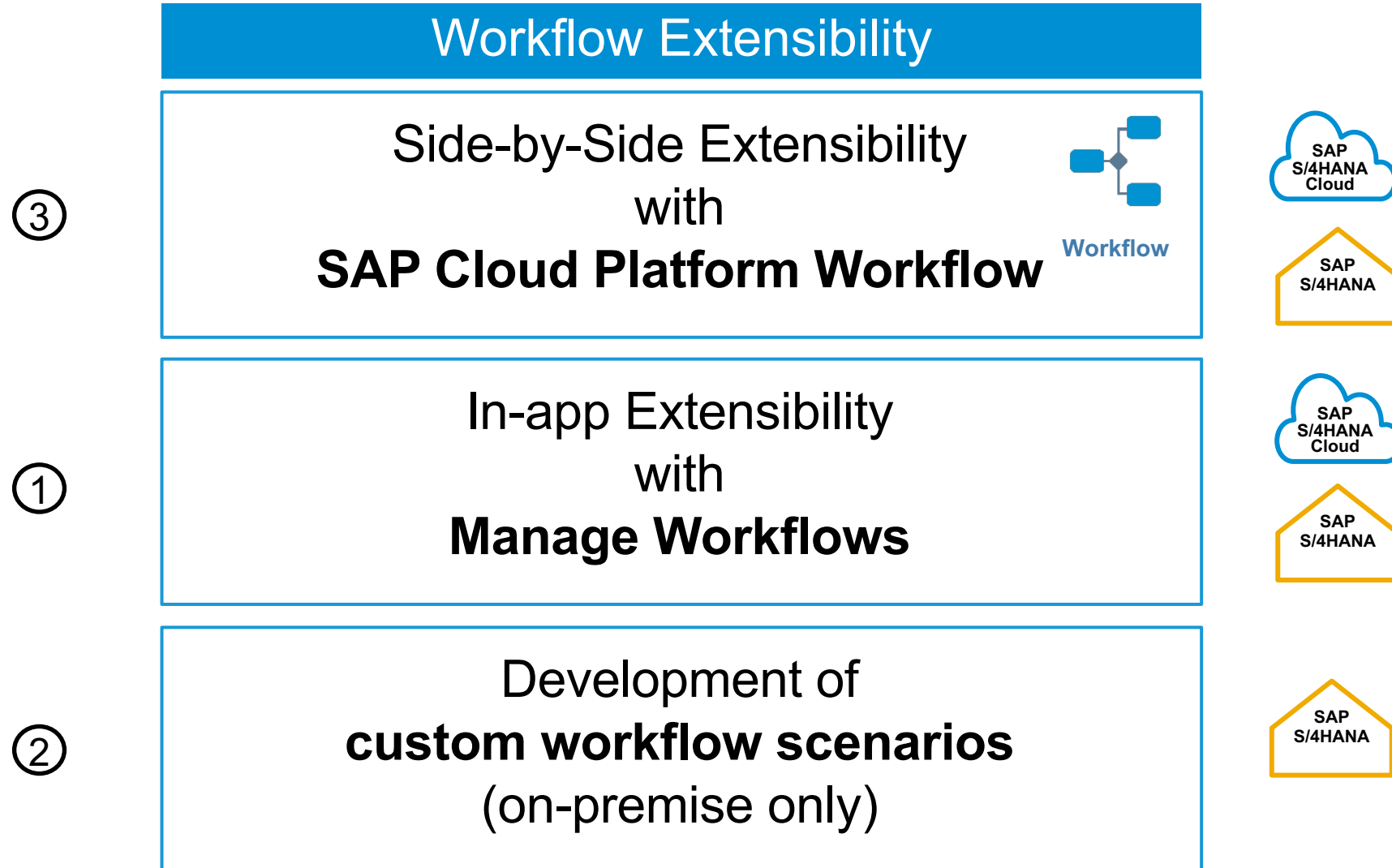
- Full access to ABAP development objects and tools
- Reduce TCO and speed up cycles of innovations by using loosely-coupled extensions and stable APIs where possible



Workflow Extensions



Extensibility concept for Workflows



Business Use Cases for Workflow in SAP S/4HANA

Approval Processes (Main Use Case)

- Approval in background based on conditions
- One-Step Approvals (Content delivered by SAP)
- Multi-Step Approvals (Configured by Business User)

Dynamic Process Routing

- Change Management with Status Control
- Review Process based on Functions

Available Scenarios in SAP S/4HANA Cloud (1808)

- **Procurement:** Purchase Request, Purchase Order, Supplier Invoice, Quotation, Purchase Contract, Scheduling Agreement, Service Entry Sheet
- **Finance:** Bank Account Management, GL Journal Entry Verification
- **Sales:** Credit Memo Request
- **HR:** Time Sheet Approval

Available Scenarios in SAP S/4HANA Cloud (1808)

- **Engineering:** Change Request for materials or documents
- **EIM:** Legal Content Management

Workflow management in SAP S/4HANA – Driving Principles



- **Business Owner Takes Control**
- Fiori Design
- No development skills needed
- **Simple**

SAP Workflow Details

[EPM: Scenario for PO Approval](#) / Deactivate Copy

Notebooks Approval - High Cost

Status: Active

Properties Preconditions Step Sequence

General

Description:

Valid From:

Valid To:

[See More](#)

Preconditions

Only start the workflow if the following preconditions are met:

Contains a product of a certain category

Total net amount exceeds a certain amount in EUR

Step Sequence

Steps

Name	Recipients	Preconditions
1. Manager Approval	Manager of Purchase Order Creator	>
2. CEO Approval	Manager of Purchase Order Creator's Manager	>

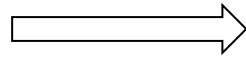
Demo



Manage Workflows

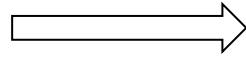
Migrating to new Workflow scenario

Workflow Template



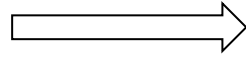
Workflow Scenario

Agent Rules



Teams / Roles (Responsibility Management)

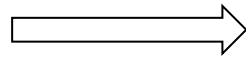
Dynpro



SAPUI5 / Fiori

(WEBGUI + Visual Harmonization)

Business Workplace / UWL



My Inbox

Demo

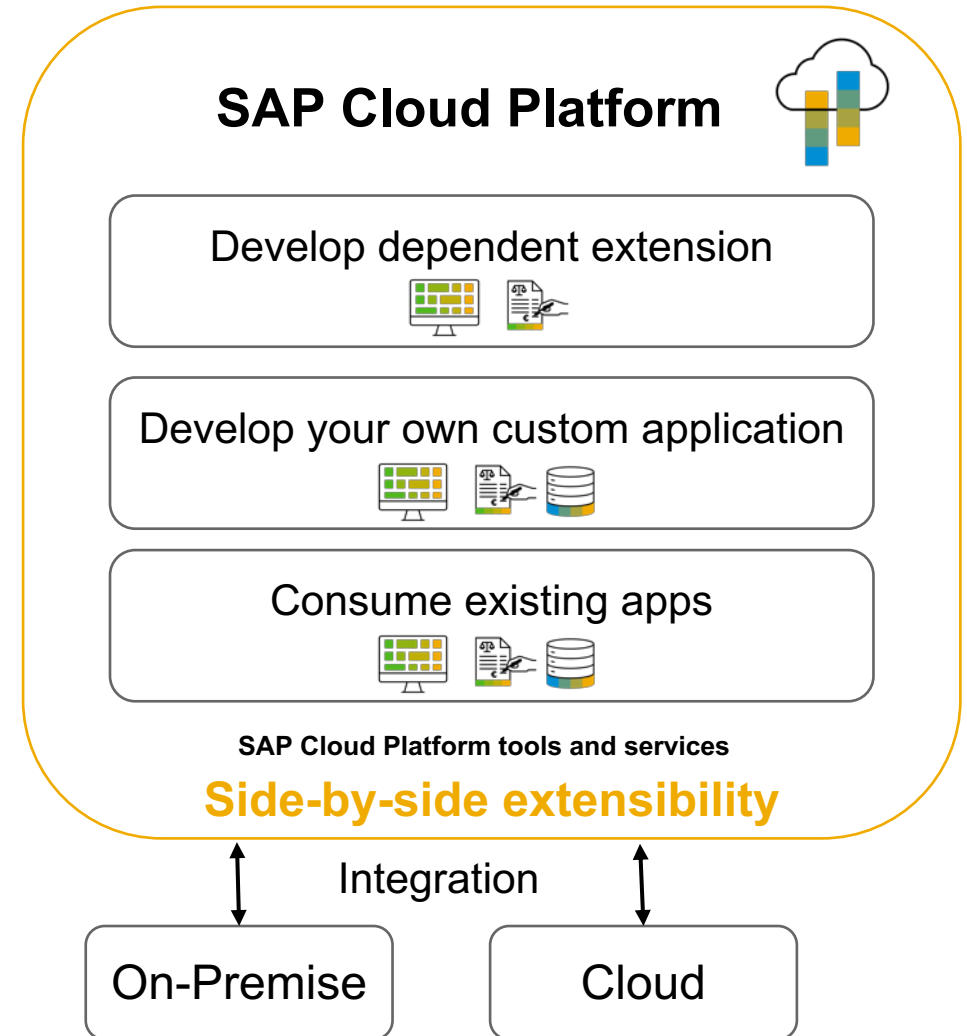


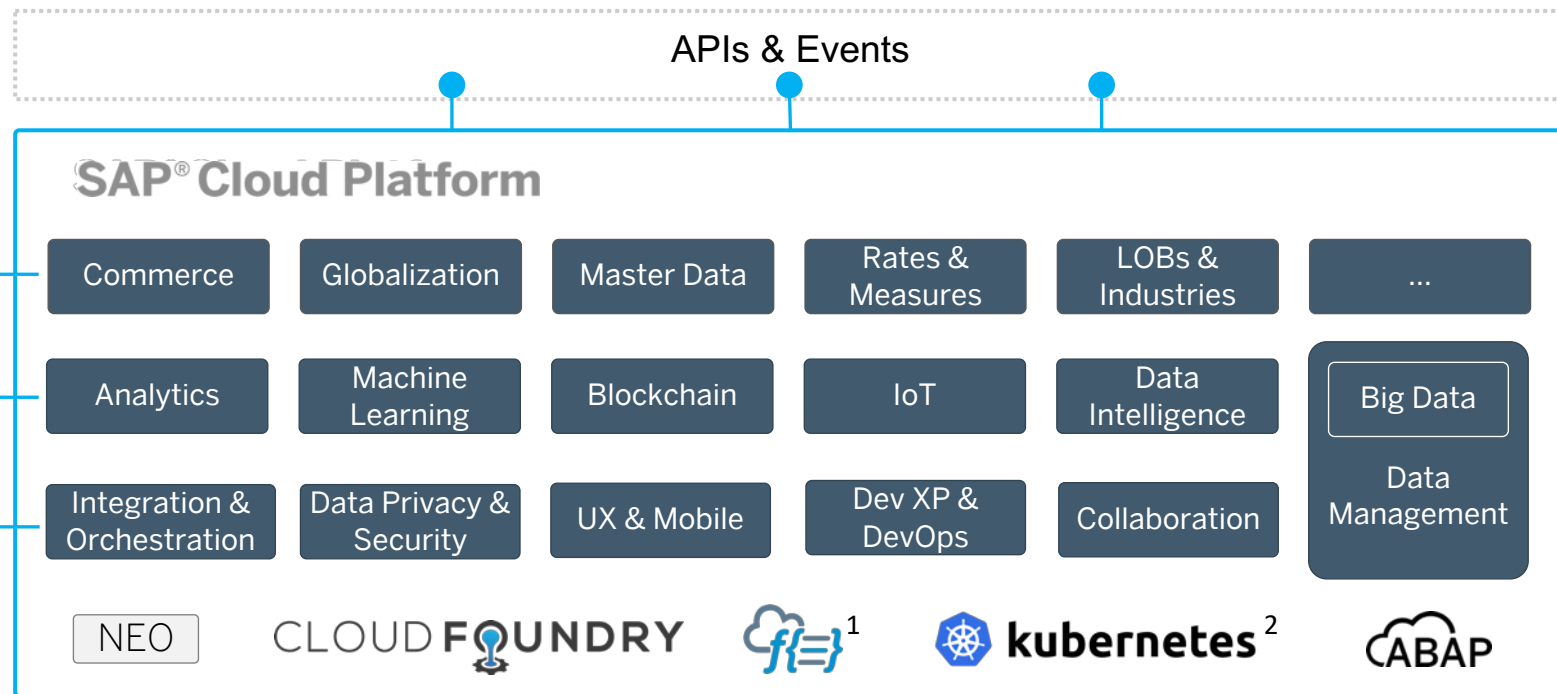
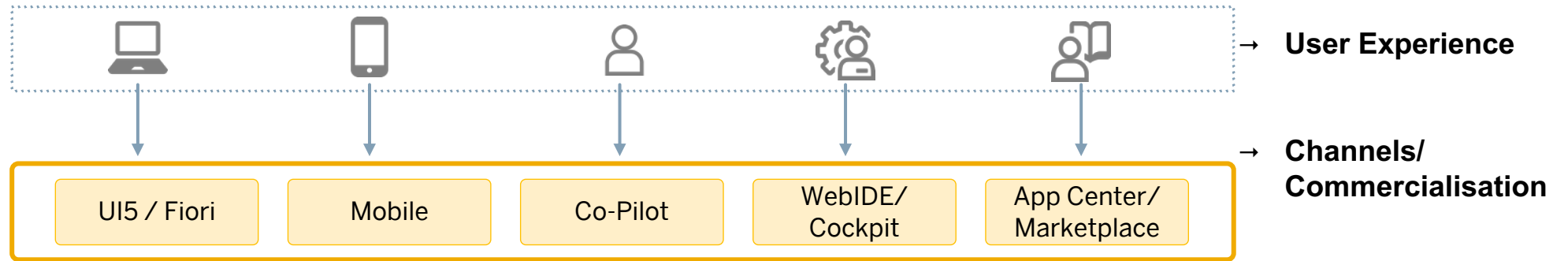
Creating a Workflow Scenario

Side-by-side extensibility

Side-by-side extensibility with SAP Cloud Platform

- Integration with SAP Cloud apps and third-party solutions
- Extending core processes by before-and-after steps (for example, customer service or triggers from sensor data)
- New stand-alone cloud apps (Internet of Things)





SAP SuccessFactors ♥
 SAP Hybris (Y)
 SAP Concur G
 SAP Ariba A
 SAP Fieldglass

SAP® S/4HANA
 SAP S/4HANA®
 Business Suite
 BW

Master data objects

→ **Higher-grade smart business services**

→ **Leonardo technologies**

→ **Platform services**

→ **Multiple, complementing and interoperable environments**



SAP Cloud Platform Workflow

Enhance productivity with coordinated and accountable tasks

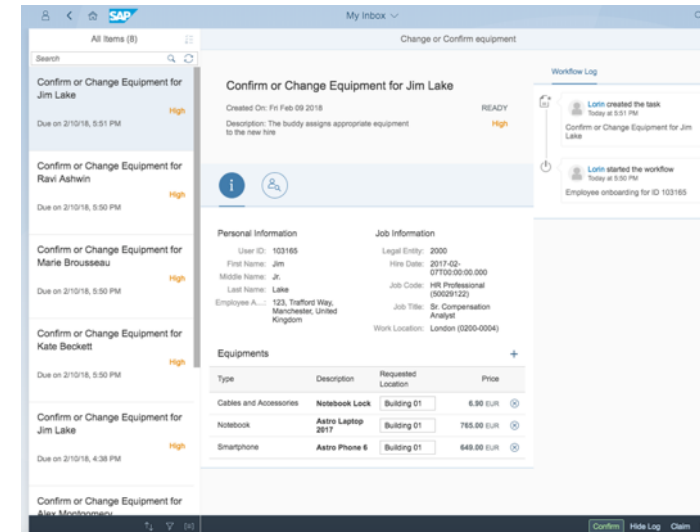
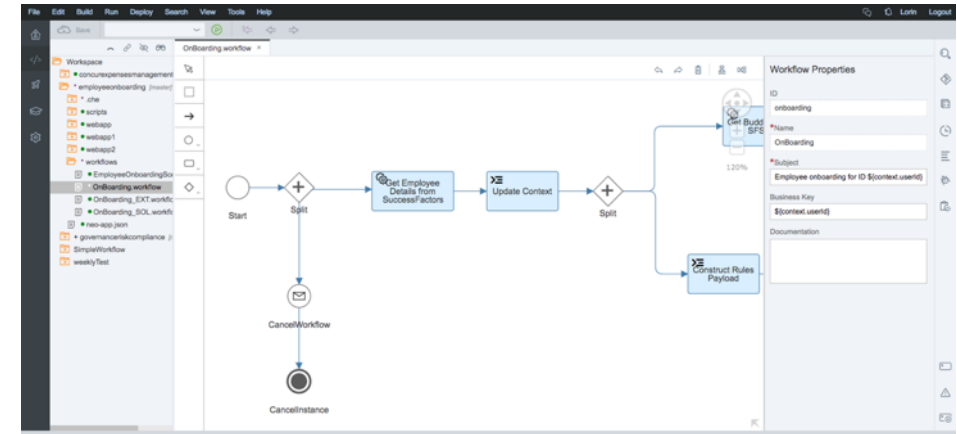
- Automate and track tasks such as approvals, order fulfillment, or time-sensitive partner collaboration
- Manage tasks using My Inbox
- Impress users with simple, consumer-grade user interfaces using SAP Fiori
- Improve processes and track running workflows

Rapidly build and modify workflow applications with web-based tooling

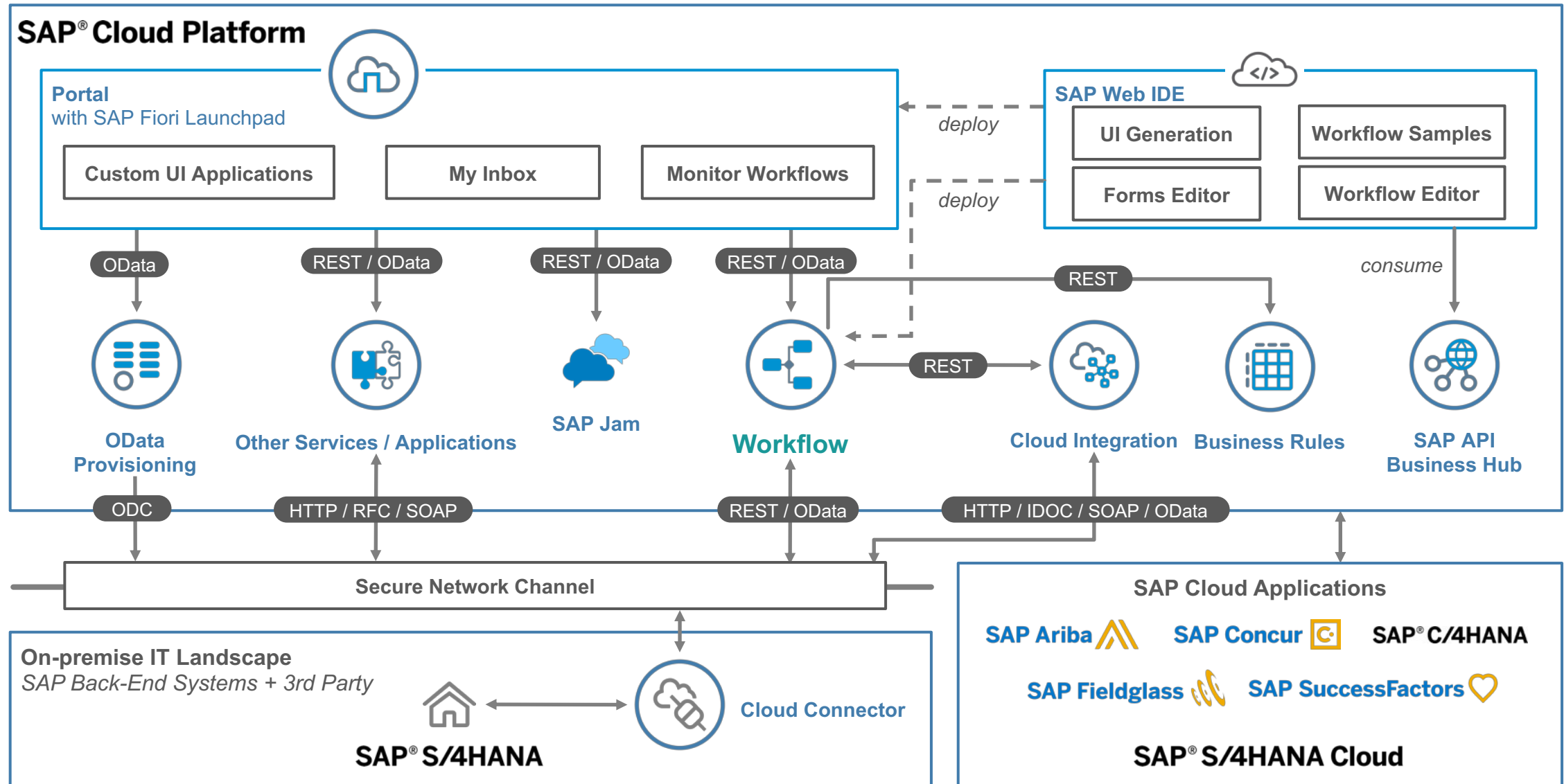
- Model workflows in SAP WebIDE using industry-standard Business Process Model and Notation (BPMN 2.0)
- Embed workflows into your custom-built applications using RESTful APIs
- Connect to other applications via service tasks
- Integrate business rules for flexible and agile decision management

Tailor your business processes by extending cloud applications and workflows

- Create process extensions for SAP S/4HANA (Cloud)
- Model customized extension workflows for SAP line-of-business applications such as SAP Hybris Cloud for Customer, SAP SuccessFactors, SAP Concur, or SAP Ariba
- Extend non-SAP cloud applications



SAP Cloud Platform Workflow – the bigger picture

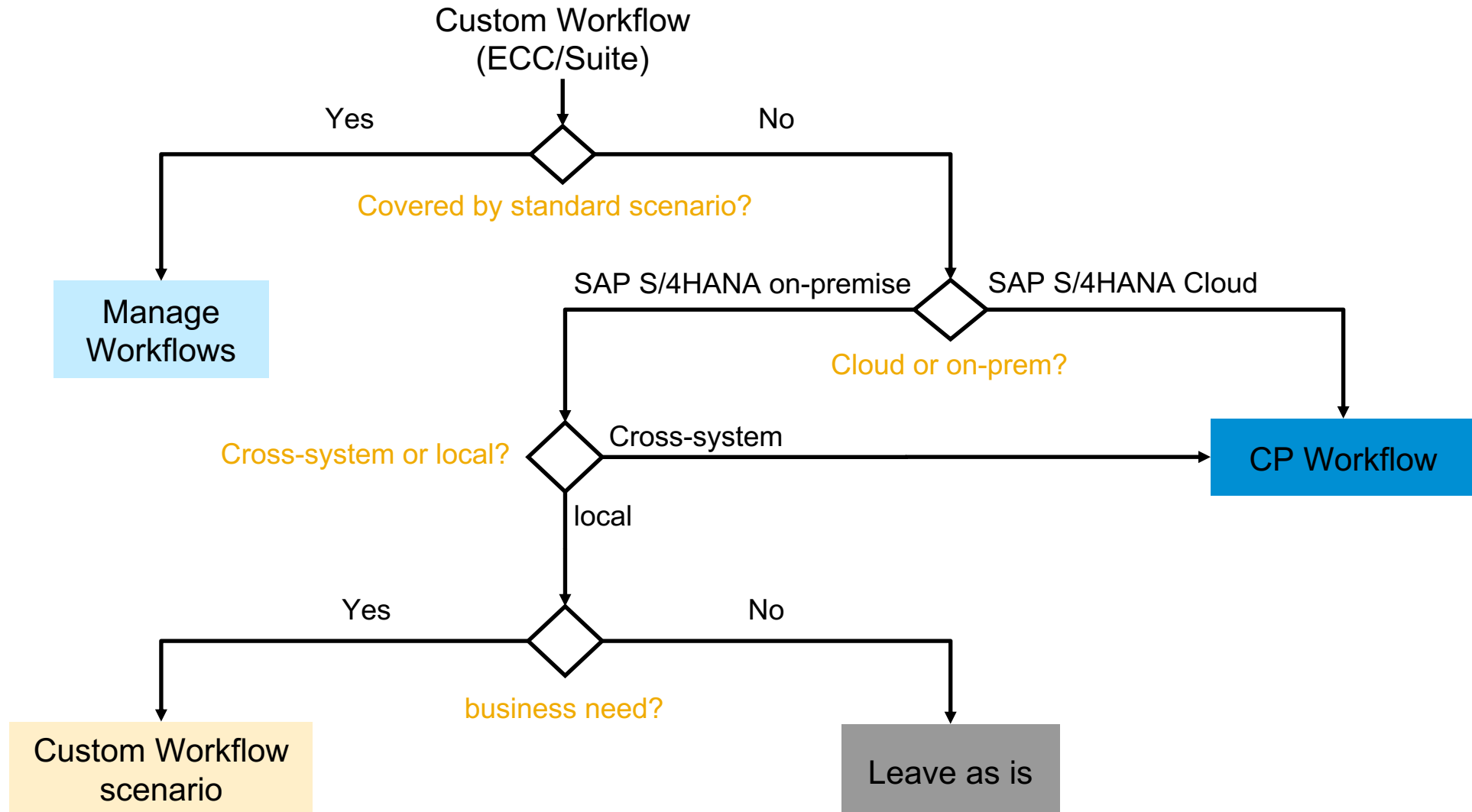


Demo



SAP Cloud Platform Workflow

Migration Options



Enterprise Workflow at SAP

SAP Fiori

Notifications

My Inbox

Forms

Manage Workflows

Manage Rules*

Process Modeling

SAP EA Designer

Process Execution

SAP® S/4HANA

SAP Business
Workflow

Resp. Mgmt

BRF+

SAP Cloud Applications

SAP Ariba



SAP Concur



SAP Fieldglass



SAP SuccessFactors



SAP C/4HANA

SAP Process Orchestration

SAP BPM

SAP BRM

SAP PI

B2B

SAP® Cloud Platform



Workflow



Business
Rules



Cloud
Integration

Process Visibility*

Process Optimization

SAP Process Mining by Celonis



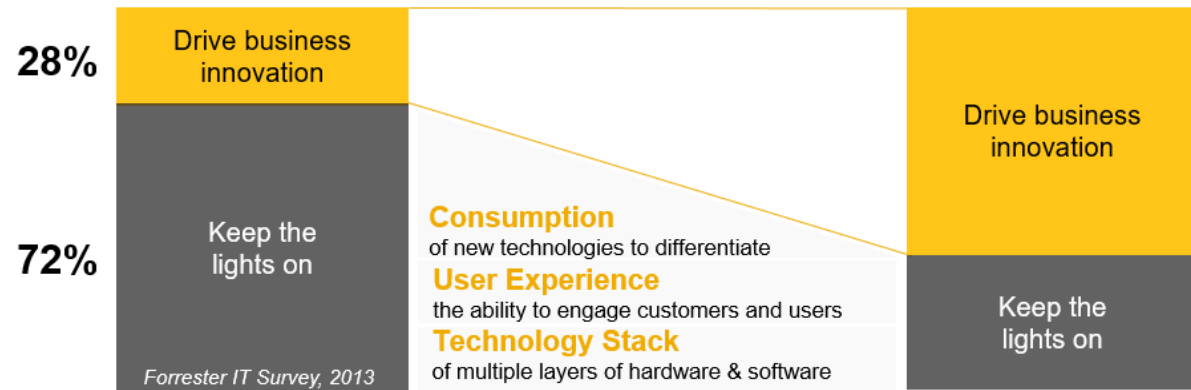
SAP HANA

SAP Operational Process Intelligence

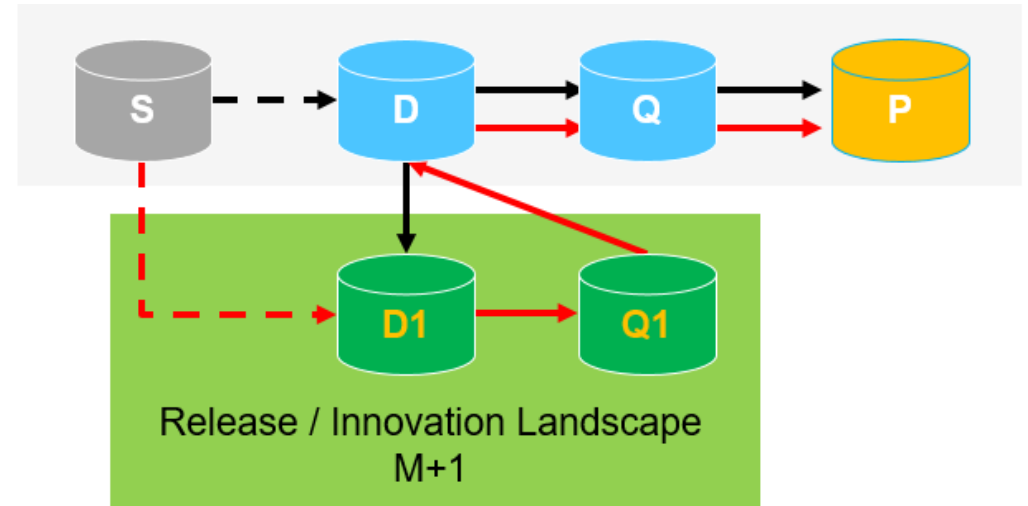
*Future scope

Thank you.

Agility is key – Traditional in-app extensibility has created gridlock



Massive in-app SAP ERP modifications inside the stable core force the majority of the IT budget being allocated to keep the lights on instead of delivering innovations to the Business



Traditional on-premise system architecture have complex release processes which limit innovations deployments to 1x or 2x a year