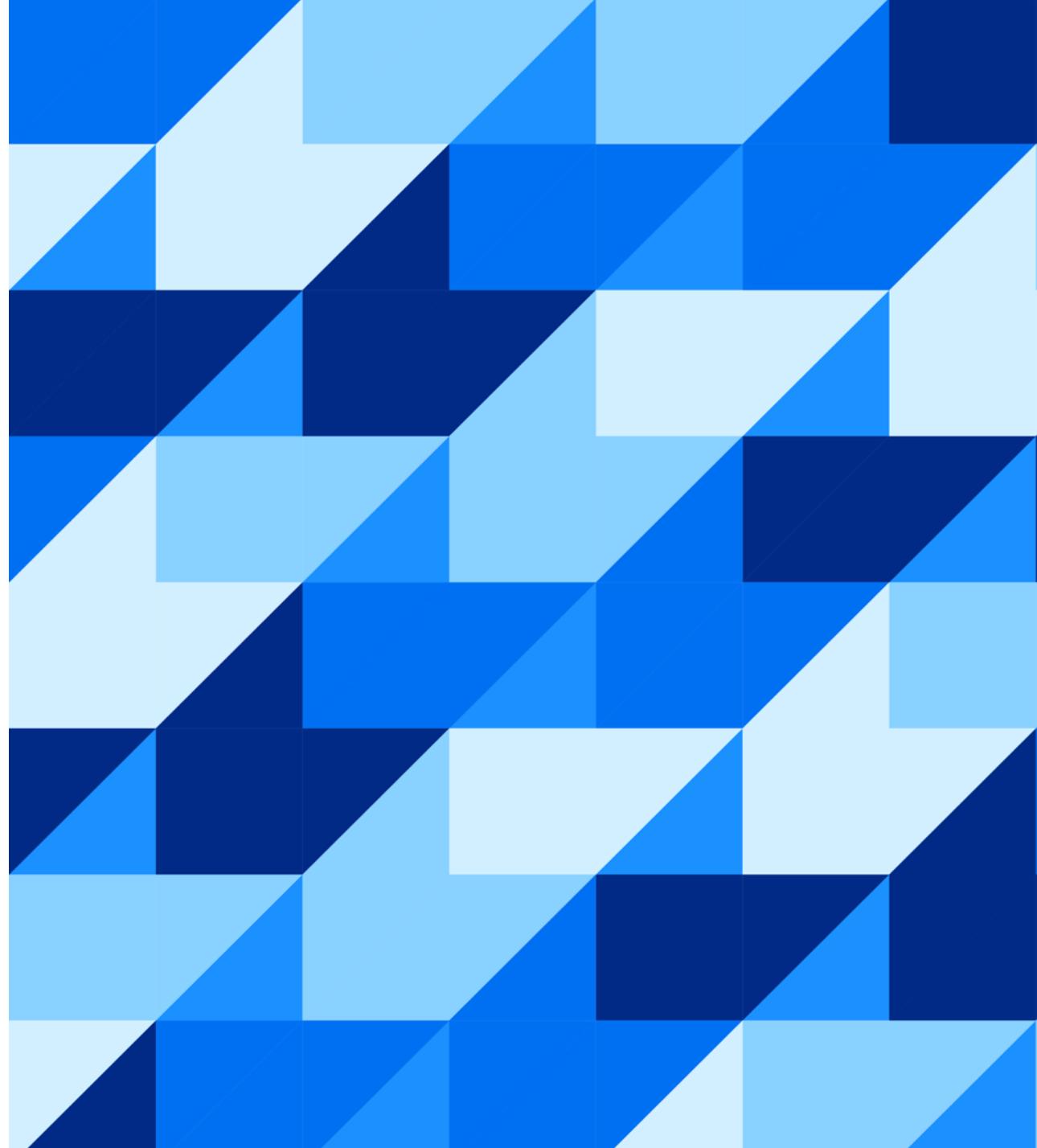# Extending SAP Fiori Apps in S/4HANA Cloud with SAPUI5 Adaptation Projects

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Public

Have you tried to extend SAP Fiori application?

Have you ever used SAPUI5 Adaptation Project?

Agenda
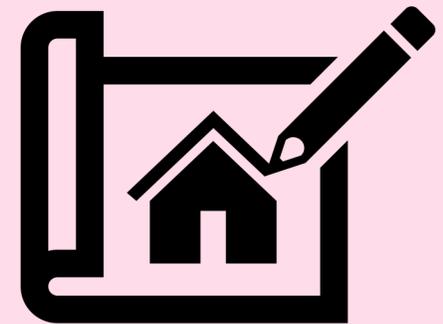
Why Extensibility?

What is SAPUI5 Adaptation Project?
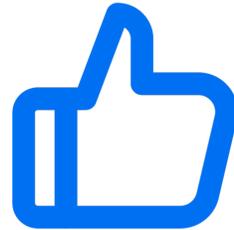
Demo!

Outlook

Why Extensibility?

A good user experience (UX) delivers measurable business benefits

Business value

Human value

Boost
productivity,
data quality

Decrease
training costs,
change requests,
user errors

Increase
user satisfaction,
customer loyalty,
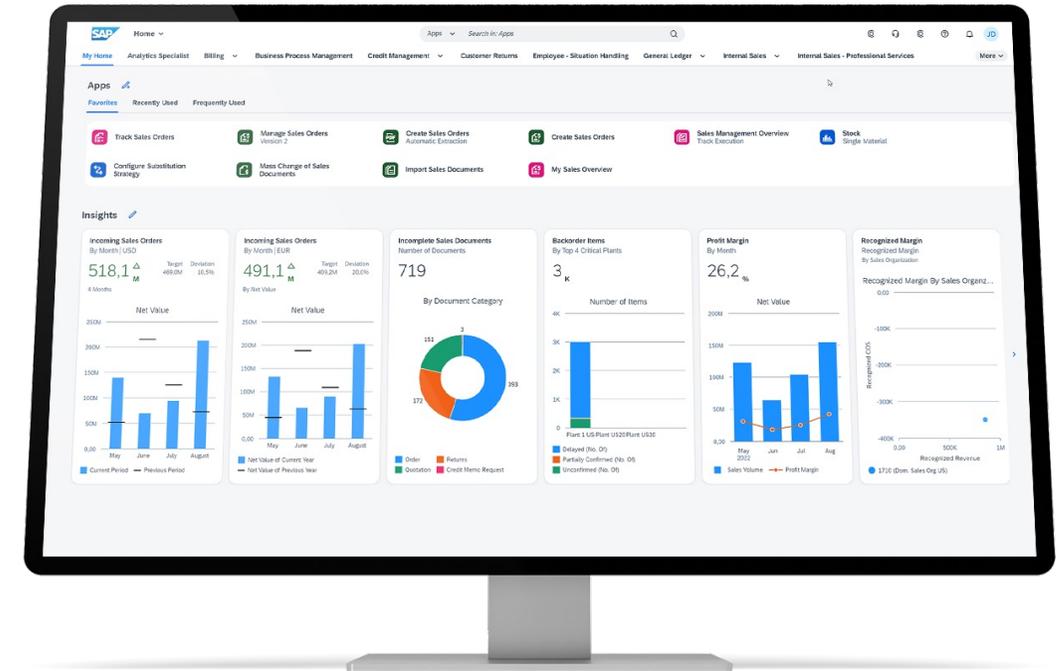solution adoption

Reduce
friction between IT
and business
around UX issues

SAP Fiori is the user experience for SAP

SAP Fiori is our user experience for the intelligent enterprise, enabling users to get their job done in an easy and delightful way.

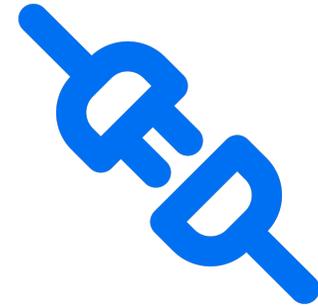SAP Fiori can be implemented on various UI technologies and platforms.

Why Extensibility?

SAP delivers **thousands of standard apps**[1]
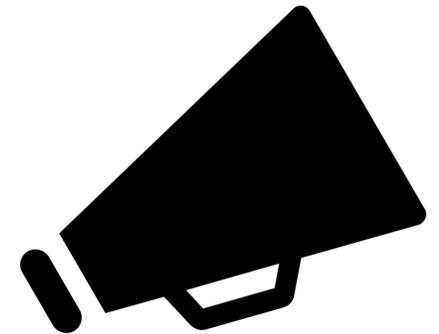
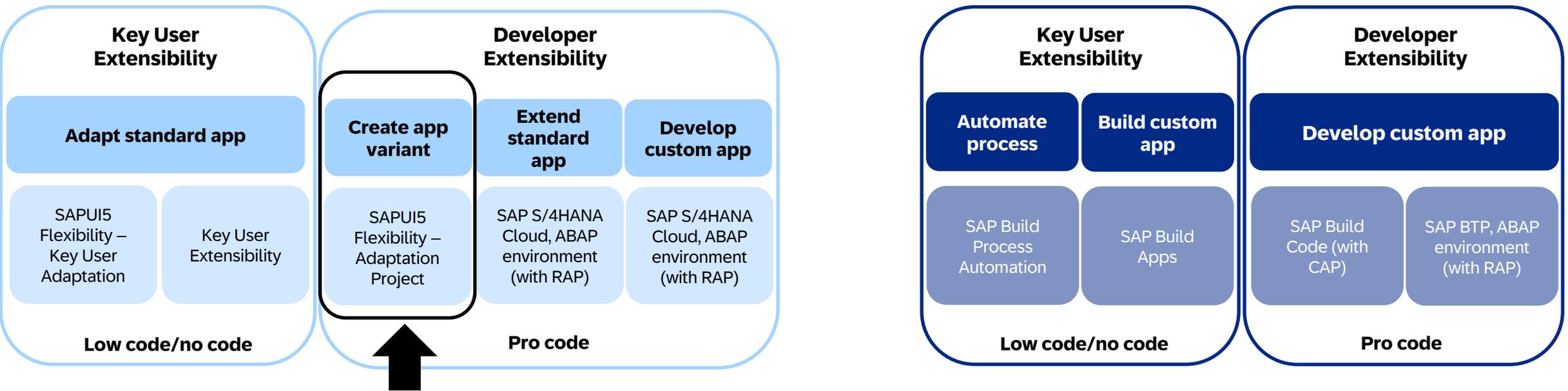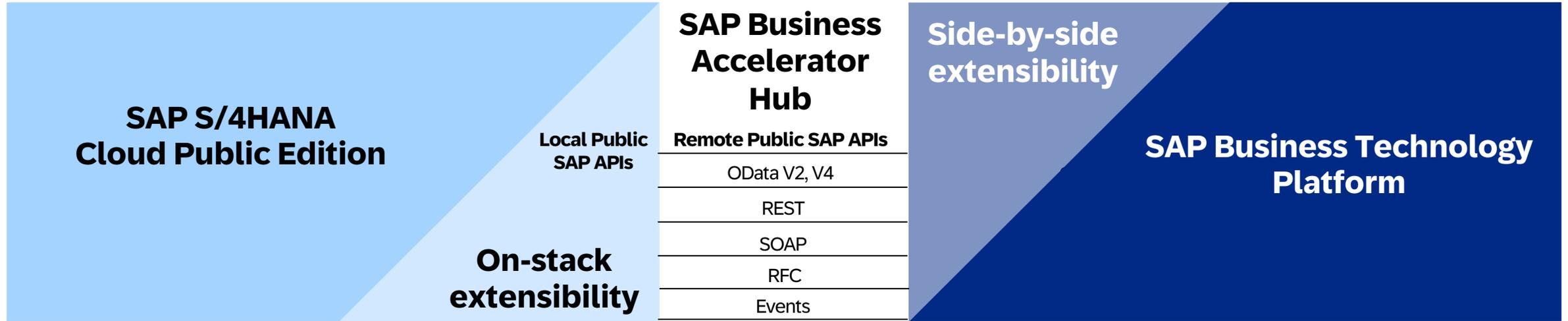Customers still ask for more because of their **diverse use cases**

"One size fits all" is often not realistic

[1] Fiori Reference Library

To **customize UX** of standard apps, a harmonized yet powerful **extensibility solution** is required

How to extend SAP S/4HANA Cloud Public Edition

SAP S/4HANA Cloud Public Edition

SAP Business Accelerator Hub

Side-by-side extensibility

Local Public SAP APIs

Remote Public SAP APIs

| OData V2, V4 |
| REST |
| SOAP |
| RFC |
| Events |

On-stack extensibility

SAP Business Technology Platform

Key User Extensibility

Adapt standard app

| SAPUI5 Flexibility – Key User Adaptation | Key User Extensibility |

Low code/no code

Developer Extensibility

| **Create app variant** | **Extend standard app** | **Develop custom app** |
| SAPUI5 Flexibility – Adaptation Project | SAP S/4HANA Cloud, ABAP environment (with RAP) | SAP S/4HANA Cloud, ABAP environment (with RAP) |

Pro code

Key User Extensibility

| **Automate process** | **Build custom app** |
| SAP Build Process Automation | SAP Build Apps |

Low code/no code

Developer Extensibility

Develop custom app

| SAP Build Code (with CAP) | SAP BTP, ABAP environment (with RAP) |

Pro code

SAPUI5 Flexibility

Different personas and their needs

Developer

Key user

End user

"I **develop** new or change existing apps **for everybody**."

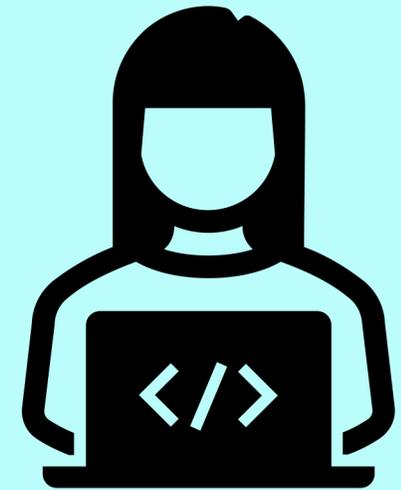"As a **business expert**, I **adapt** apps for **my line of business**."

"I **personalize** apps for **myself**."

SAPUI5 flexibility – All you need to know

Try it yourself: https://ui5.sap.com > Demo apps > SAPUI5 flexibility demo apps
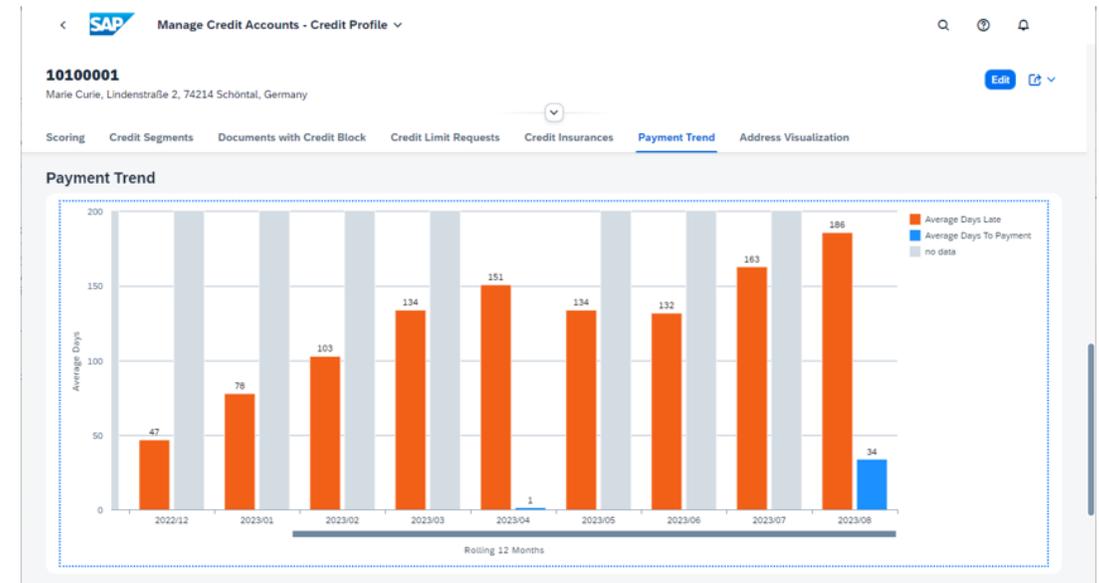
SAPUI5 Adaptation Project

SAPUI5 Adaptation Projects

Developers can create an SAPUI5 adaptation project in **SAP Business Application Studio** to **generate a variant** of a standard app in which they define **business-specific changes**.

An app variant **exists in parallel** to the standard app on which it's built and can be **assigned to separate groups of business users.**

Advantage: cost-saving and lifecycle-stability

For example, visualize complex data in an app variant for casual users.

Tutorial	[Work with SAPUI5 adaptation projects](#)
SAP Help Portal	[Developer Adaptation](#)
	[Extending an SAP Fiori Application](#)

How does it work?

Legend

SAP/partner owned
Customer owned

End User

Developer

assigned to

implements

Business Catalog

Business Role → exposes → IAM Business Catalog

Adaptation Project

SAP Fiori Tools

exposes
(simplified)

exposes

deploys

Tile

IAM App

provides
access

exposes

Tile

references

references

references

| C0 - extend		C1 - stable		Adaptation Project
BSP App	uses →	OData Service	← uses	BSP App (copy)
SAP Fiori App		Annotations		Annotations(copy)

copy

copy

Demo

Outlook

What is in the works:

- Enhanced generation process with auto-completion in package and transport selection
- New redesigned adaptation editor with great improvement in performance
- Support of S/4 HANA cloud in MS VSCode Adaptation Project extension
- Adaptation Project support for BTP ABAP Environment – expected 2405
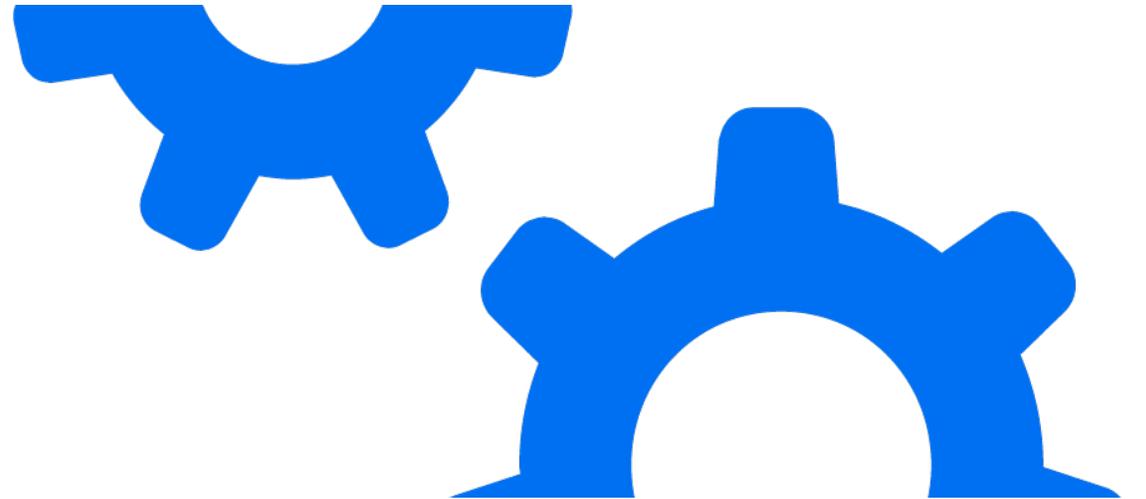
What's the benefit?

Facilitates a **cost-efficient UI change process** for extending apps
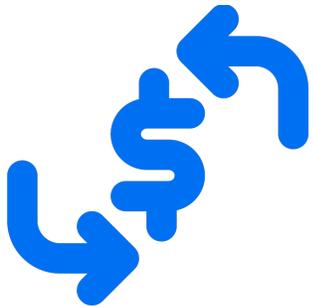
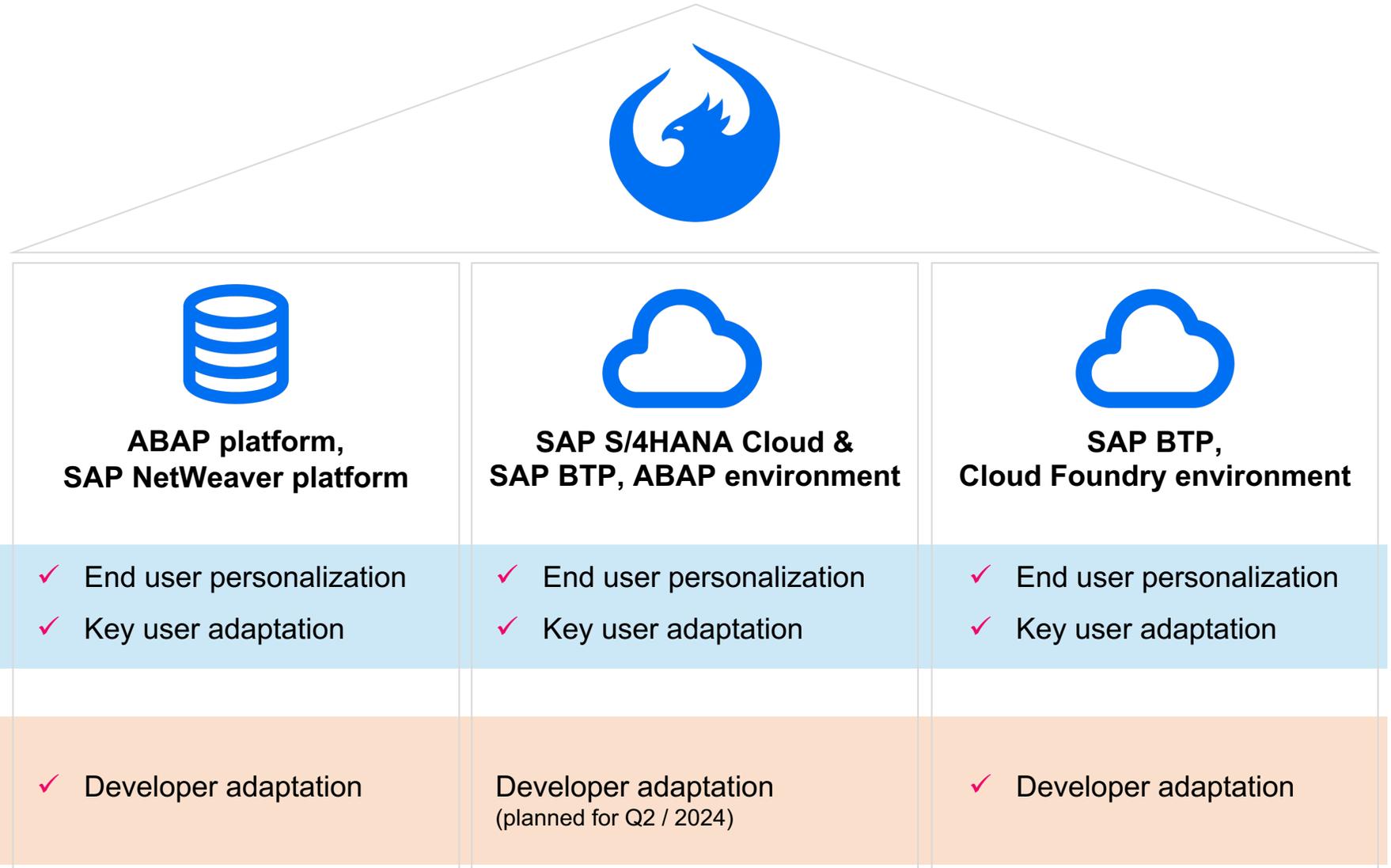Provides **intuitive low-code/no-code tooling** tailored to the needs of target personas

Ensures **lifecycle-stable and modification-free** UI changes based on deltas

Generic framework capability allows **massive scales** automatically to all UI5 stakeholder

Availability

	ABAP platform, SAP NetWeaver platform	**SAP S/4HANA Cloud & SAP BTP, ABAP environment**	**SAP BTP, Cloud Foundry environment**
At runtime in SAP Fiori launchpad	✓ End user personalization ✓ Key user adaptation	✓ End user personalization ✓ Key user adaptation	✓ End user personalization ✓ Key user adaptation
At design time in SAP Business App Studio adaptation project	✓ Developer adaptation	Developer adaptation (planned for Q2 / 2024)	✓ Developer adaptation

SAPUI5 flexibility – Features and Availability

Useful links

[Tutorial Group: Work with SAPUI5 adaptation projects](#)

[Documentation: What is SAPUI5 flexibility?](#)

[SAPUI5 Roadmap](#)

Q&A

Thank you.

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