SAP Fiori: Latest Innovations and Outlook

Thomas Reiss, SAP

April 24, 2024

How we live determines how we want to work.

SAP's user experience helps all users get their jobs done more easily, with better outcomes

Not only good-looking!

Easy to use and **enjoyable**, helping users work **better, together**

In SAP software, as a user, your work is...

Enjoyable

Better
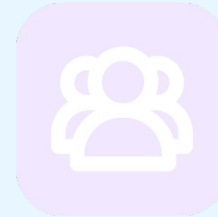

Together

In SAP software, as a user, your work is...

Enjoyable

- Modern and accessible UI
- Integrated workplace
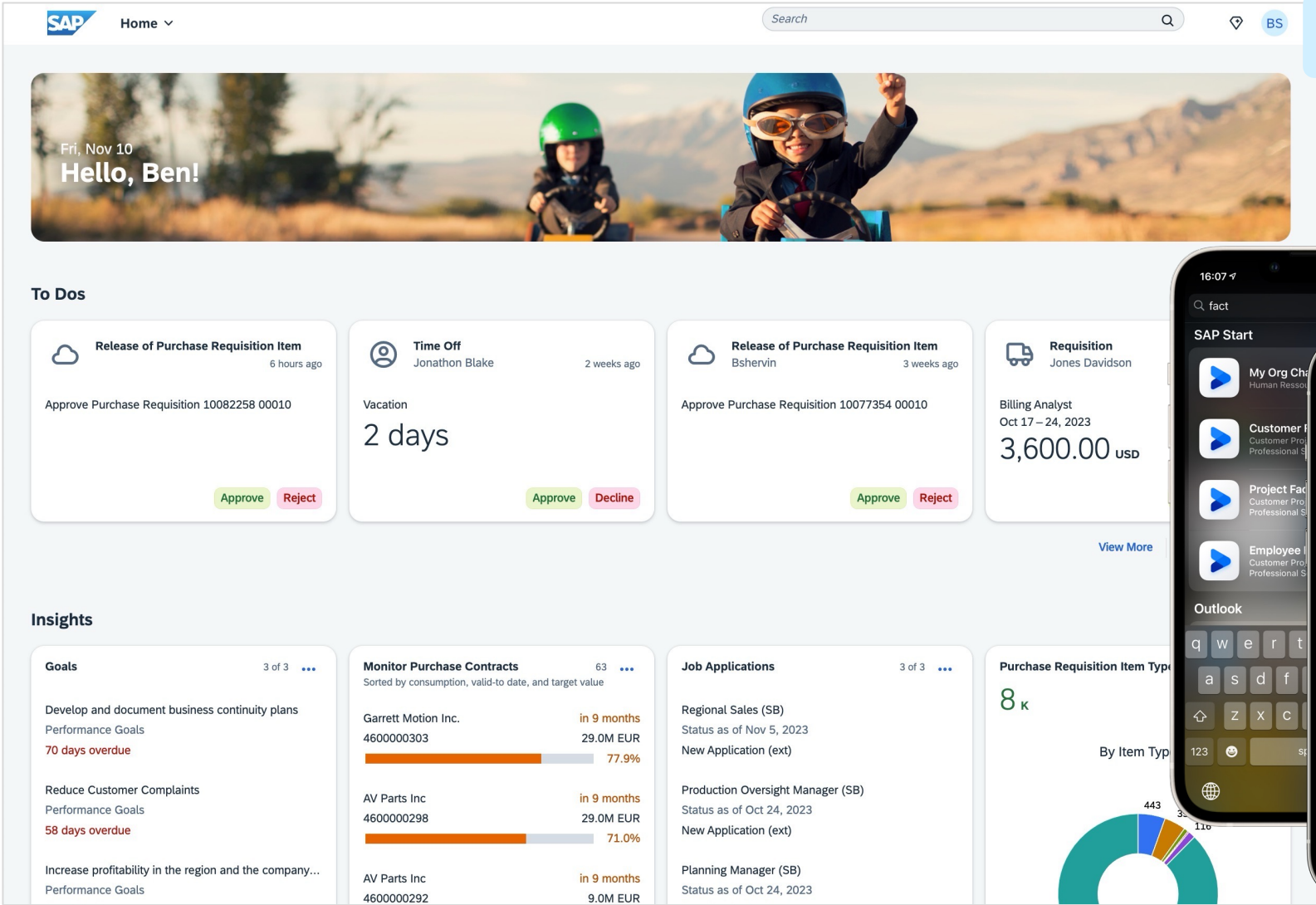- Adaptable based on your needs

Better

Together

In SAP software, as a user, your work is...

Enjoyable

- **Modern and accessible UI**
- Integrated workplace
- Adaptable based on your needs

Better

Together

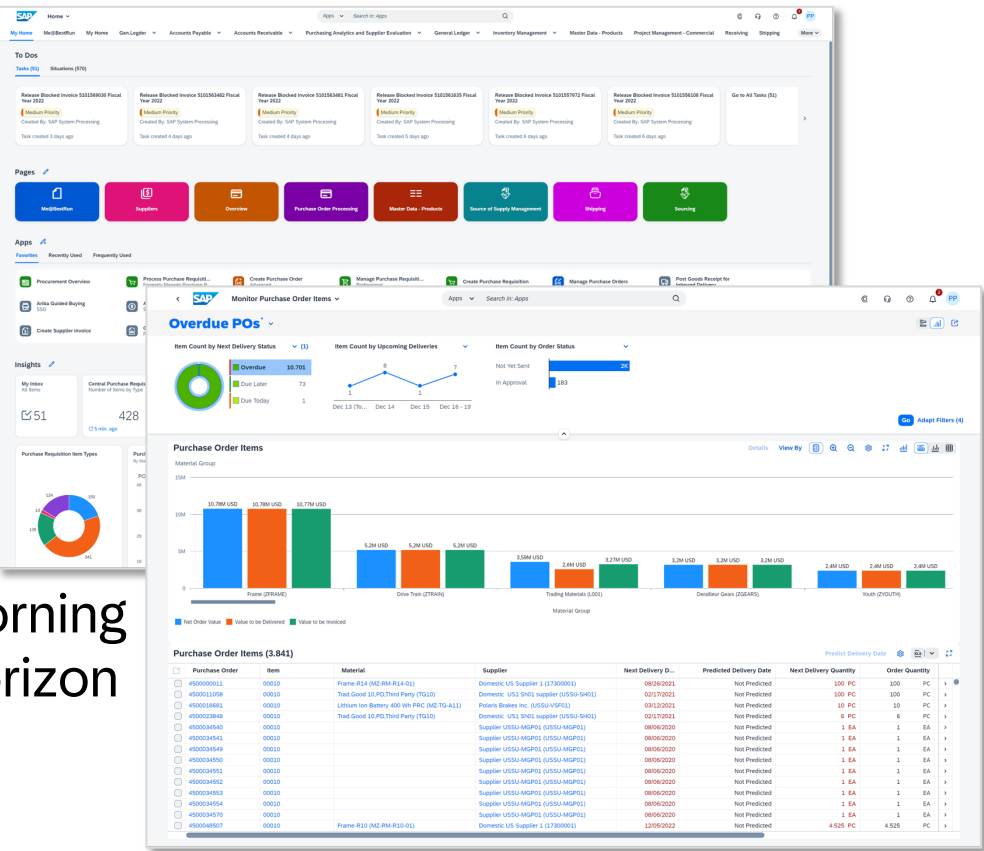# Looks good and is accessible to everyone
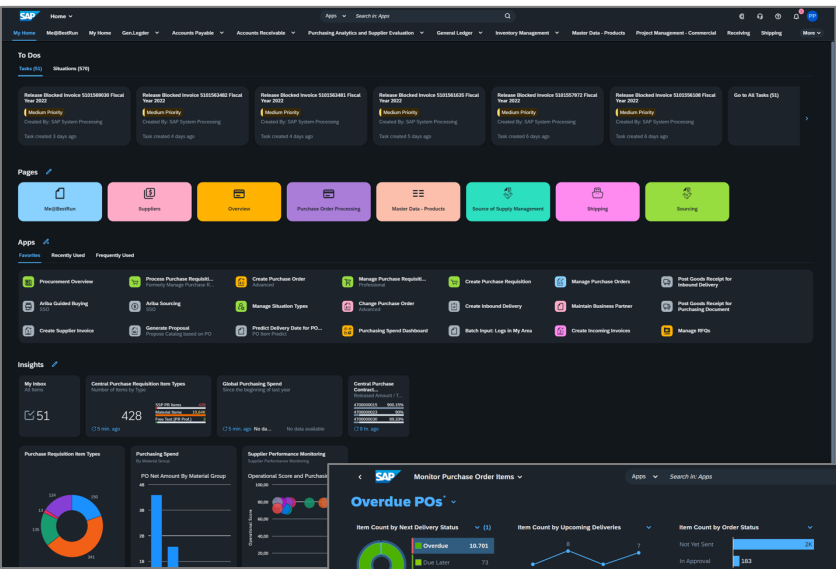

Web

SAP Start

SAP Mobile Start

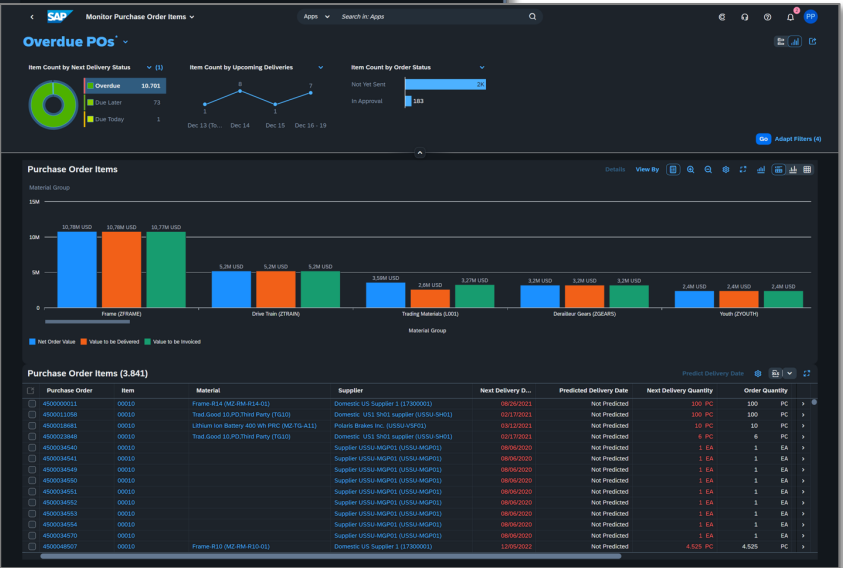**Mobile**

SAP Fiori visual design: Horizon themes

Morning Horizon

For low-light environments

Evening Horizon

Also available for accessibility: high contrast light and dark themes

Examples show SAP S/4HANA Cloud, private edition 2208

SAP SuccessFactors with Horizon

SAP Ariba with Horizon

SAP Ariba Category Management

SAP Ariba Shopping Mobile App
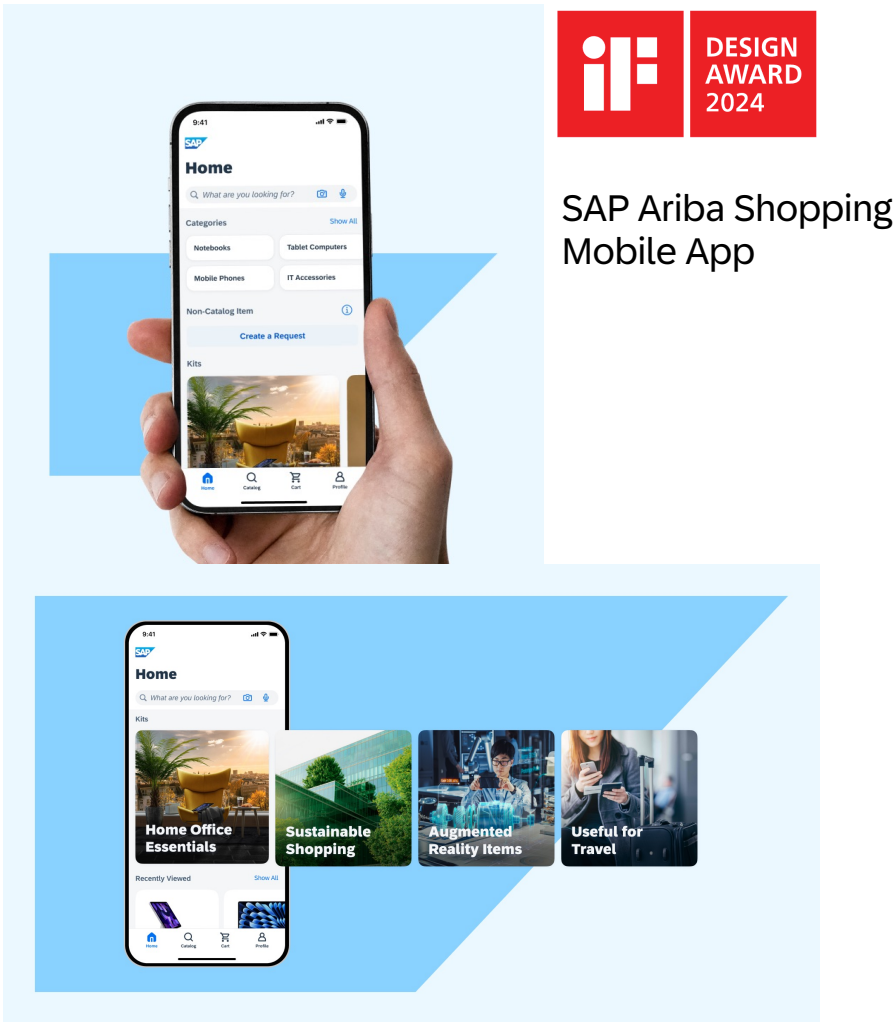
Updated Horizon visual theme: better home page contrast

Before
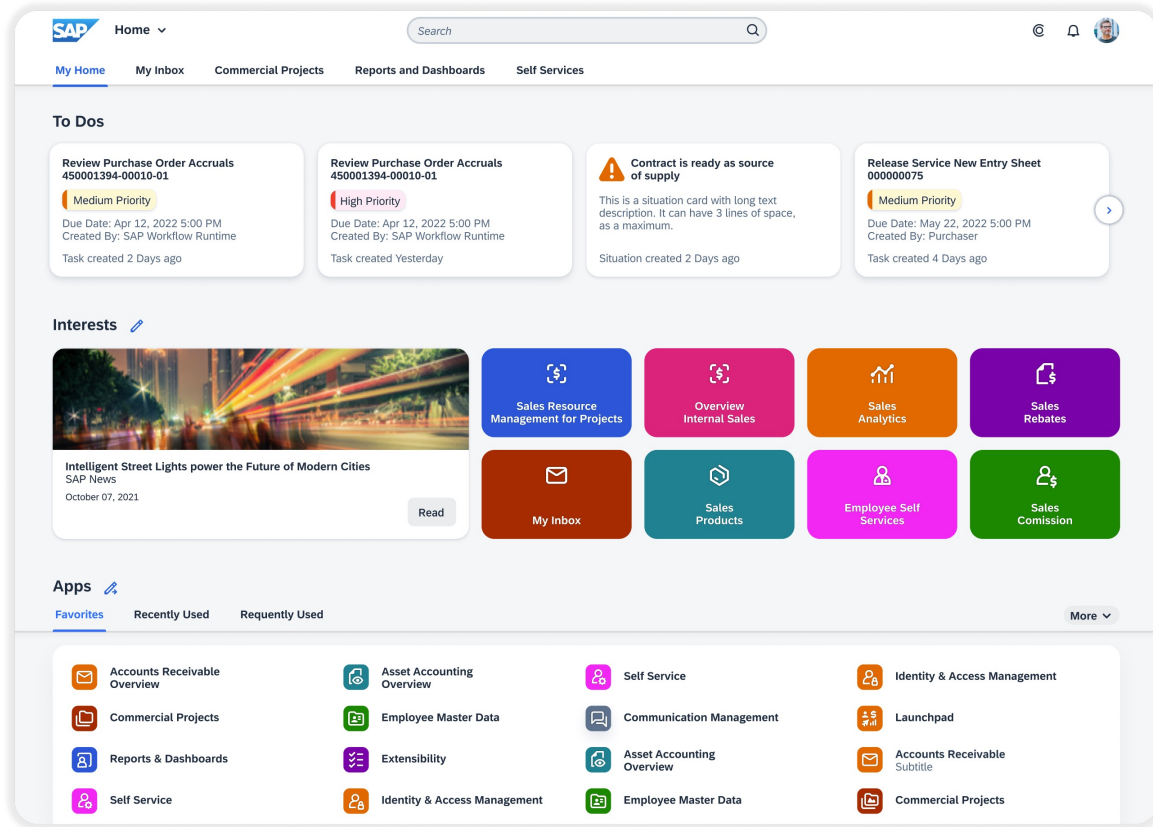
After
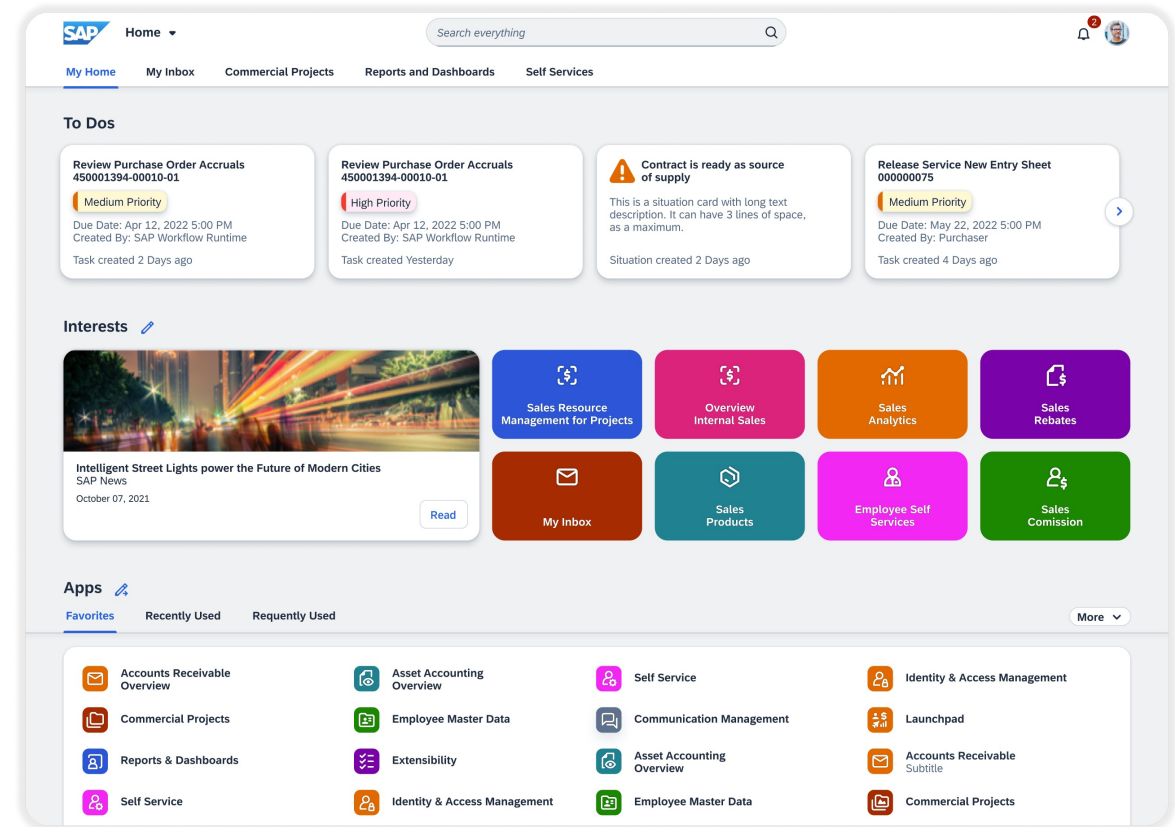
Better contrast via darker gray background

Cards more visible via darker shadow

Search field more prominent with more shadow

Updated Horizon visual theme: Flexible Column Layout updates

Before
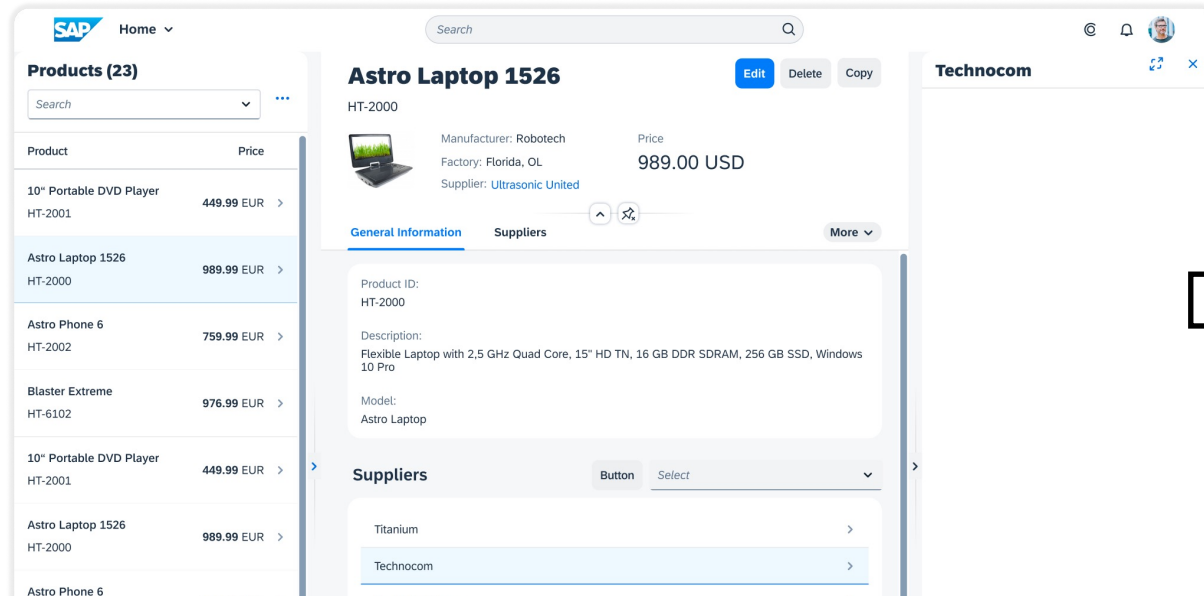
After
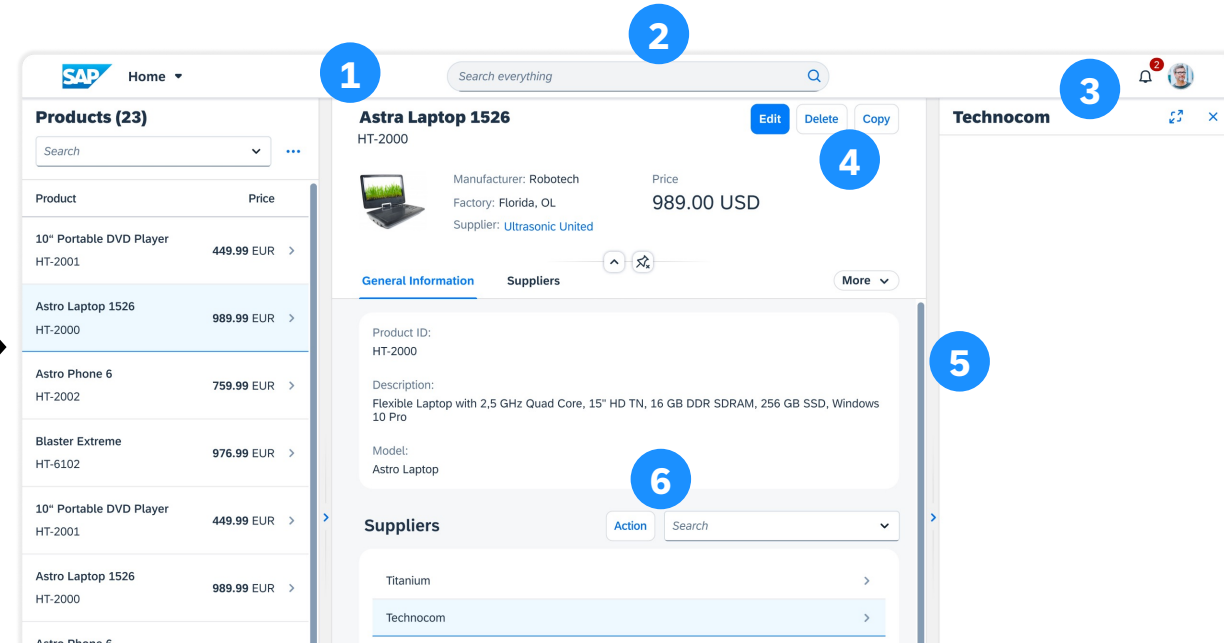
1. Smaller title.
2. Search field more visible
3. Shell header splitter line separates header from rest.
4. Buttons updated, no gray buttons.
5. Better contrast: splitter.
6. Input fields and buttons white instead of gray.

#3 and #5 are specific to the Flexible Column Layout.

Less white space: up to six columns in object pages

On wider screens, sections within an object page can now display six columns.

Just one of the numerous improvements in details
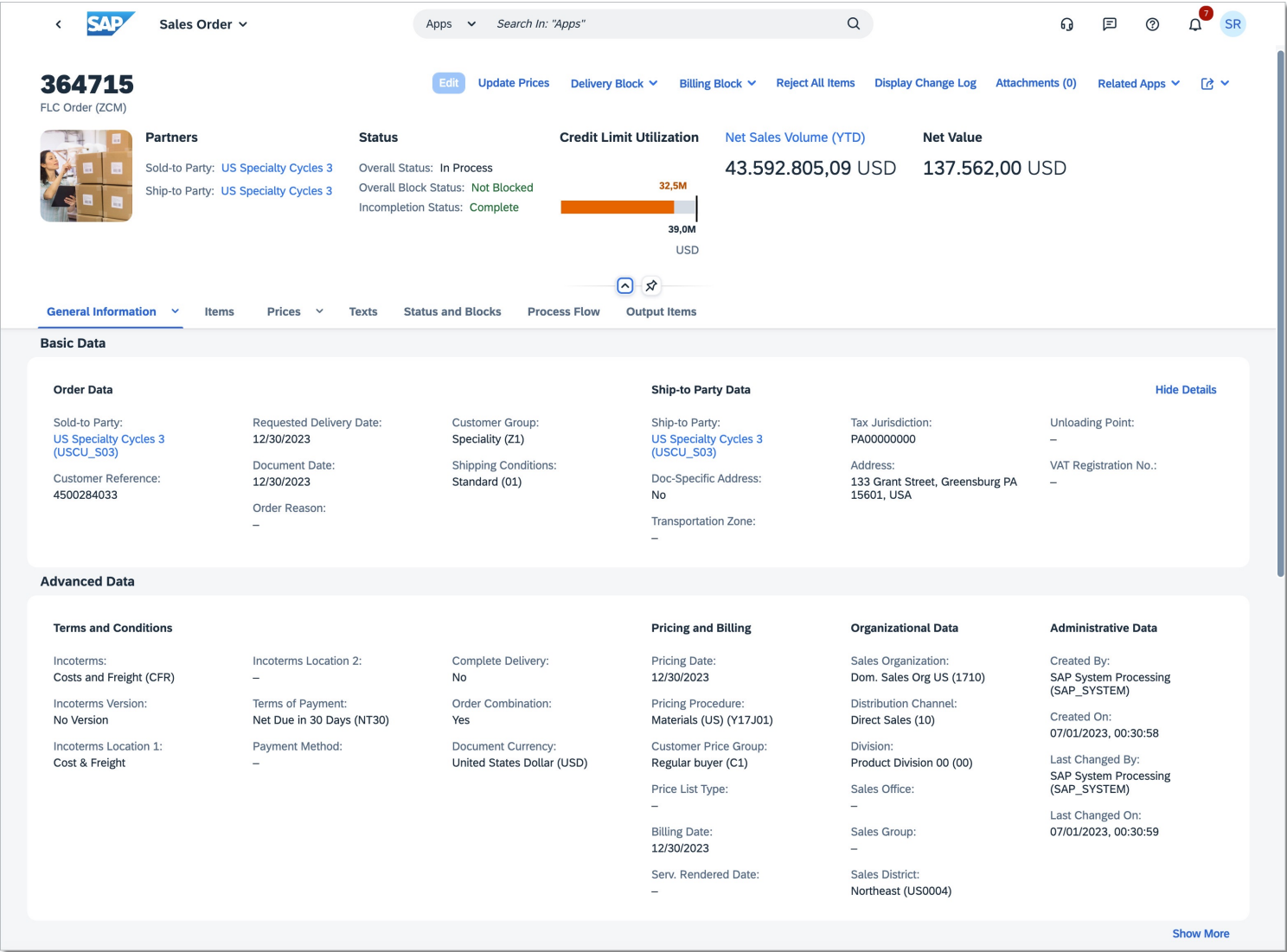
In SAP software, as a user, your work is…

Enjoyable

- Modern and accessible UI
- **Integrated workplace**
- Adaptable based on your needs

Better

Together

Easy and convenient access to SAP solutions

Cross-system entry point
Central access to apps, tasks, notifications, and (unstructured)
content across multiple SAP systems and cloud solutions

SAP BTP — Web Browser — SAP Mobile Start

SAP Start | SAP Build Work Zone

Product home pages
Access relevant business content within a single
SAP system or cloud solution

| SAP S/4HANA Cloud | SAP Success Factors | SAP S/4HANA (on prem) | other solutions |

Organize apps and analytics in pages
Organize resources per business role

Apps
Details and in-depth exploration
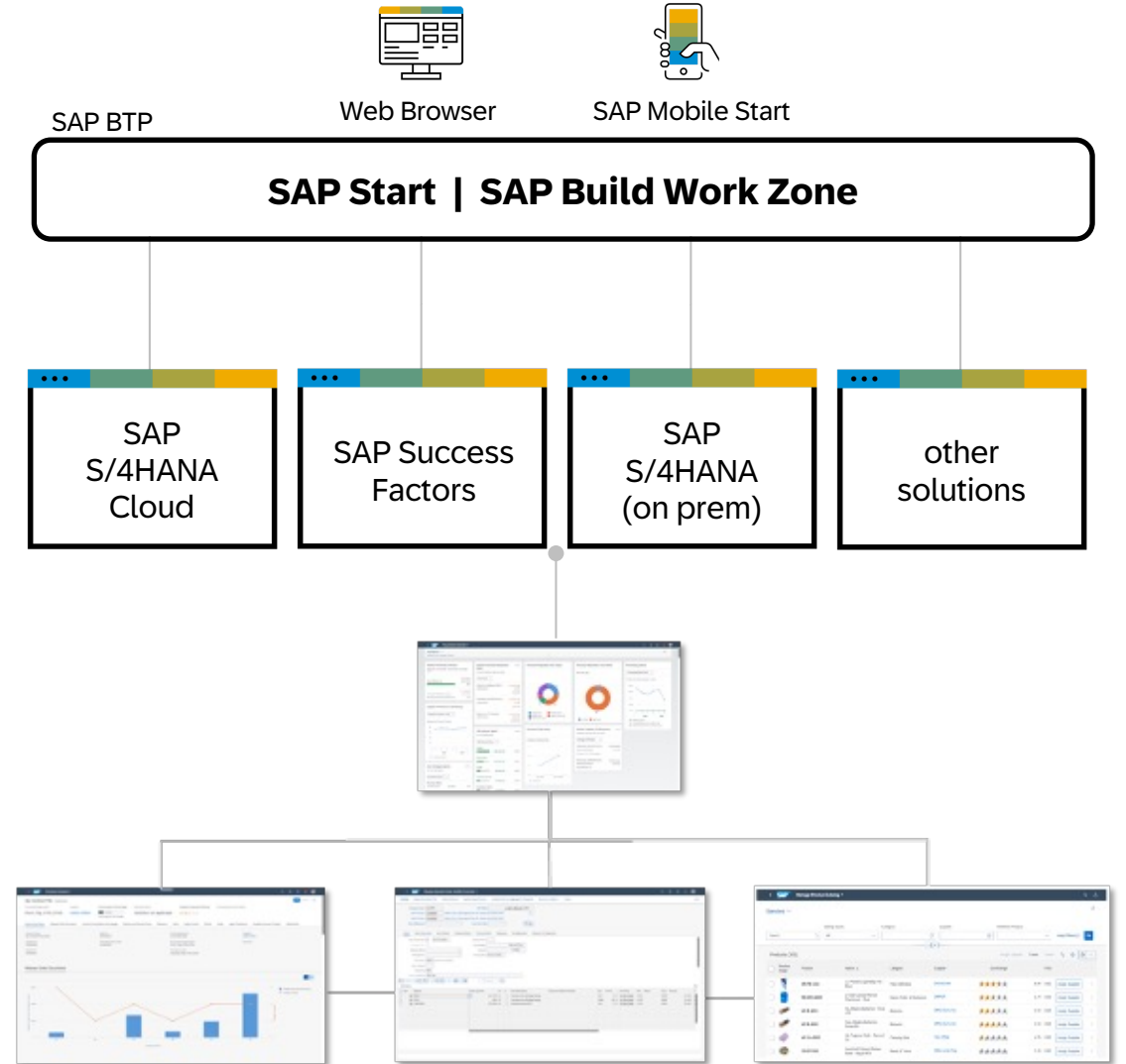
SAP Start

1. **Search for apps**
   from all connected solutions

2. My *To-Dos* (my tasks)
   from all solutions connected
   to SAP Task Center

3. **Insight cards**
   from all connected solutions
   with navigation to apps

   - From SAP S/4HANA Cloud, a
     user's cards on the *My Home*
     page are automatically made
     available for SAP Start

SAP Build Work Zone, standard edition

SAP Start scope plus these:

1. **Navigation menu** **New** accessing remote and local pages

2. **Flexible page builder** **New** Can embed ToDos & Insight Cards sections from SAP Start

3. **Applications and tiles section**

4. **Integration with cloud and on-premise systems**

5. **Custom apps and UI Cards** **New**

6. **Shell extensions**

Design prototype

SAP Build Work Zone,
advanced edition

Additional features:

1. Enhanced menu builder

2. Interactive workspaces created by business users

3. Blend SAP & 3rd party apps, business data & web content in a unified experience

4. Premium business content packages[1,2]

5. Company-wide knowledge base

6. MS Teams integration[1]

1. Not presented in the slide
2. Delivered with SAP SuccessFactors Work Zone
3. SAP Mobile Start planned to provide access to advanced edition

Public

This is the current state of planning and may be changed by SAP at any time without notice.

SAP Labs preview[3]

18

Demo: Integration with SAP Start example

Fri, Oct 20
Hello, Ben!

To Dos

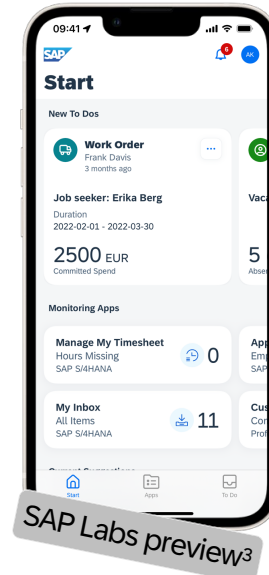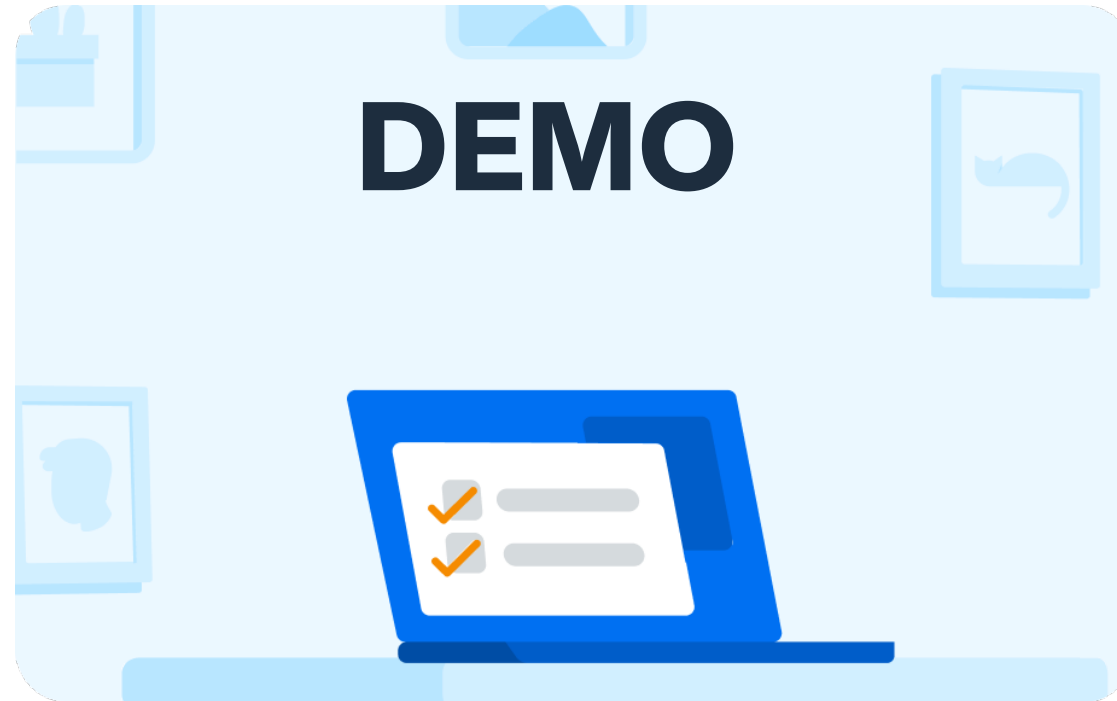|			
☁️ **Release of Purchase Requisition Item** 2 days ago Approve Purchase Requisition 10077147 00010 Approve Reject	☁️ **Release of Purchase Requisition Item** 3 days ago Approve Purchase Requisition 10076984 00010 Approve Reject	🚚 **Requisition** Jones Davidson 3 days ago Billing Analyst Oct 17 – 24, 2023 **3,600.00** USD Approve Reject	🛒 **Procurement Purchase Requisition** Jonathon Blake 1 week ago PR8055 - Apple MacBook Pro 2021 16 **2,400.00** USD Approve Deny

🔄 **Load New Tasks**   View More | ⮐ SAP Task Center

Insights

Goals   1 of 1 •••

Reduce Customer Complaints
Performance Goals
37 days overdue

Monitor Purchase Contracts   68 •••
Sorted by consumption, valid-to date, and target value

AV Parts Inc   in 10 months
4600000298   29.0M EUR
▮▮▮▮▮▮▮▮▯▯▯▯   **63.0%**

AV Parts Inc   in 10 months
4600000292   9.0M EUR
▮▮▮▮▮▮▮▮▮▮▯▯   **82.7%**

Garrett Motion Inc.   in 10 months
4600000303   29.0M EUR
▮▮▮▮▮▮▮▯▯▯▯▯   **55.7%**

Purchase Requisition Item Types •••

5 K

By Item Type

322
335
69
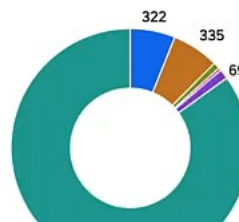
Off-Contract Spend   58 •••
As % of total spend | By Material Group

Frame   80 %
▮▮▮▮▮▮▮▮▮▮▮▯   698.7M EUR

Drive Train   81 %
▮▮▮▮▮▮▮▮▮▮▯▯   312.5M EUR

Derailleur Gears   79 %
▮▮▮▮▮▮▮▮▮▯▯▯   167.7M EUR

Youth   100 %
▮▮▮▮▮▮▮▮▮▮▮▮   167.3M EUR

Non-Managed Spend   23 •••
As % of total spend | By Material Group

Not assigned   100 %
▮▮▮▮▮▮▮▮▮▮▮▮   290.9B EUR

Trading Materials   0 %
▯▯▯▯▯▯▯▯▯▯▯▯   0.0 EUR

Finished Goods   0 %
▯▯▯▯▯▯▯▯▯▯▯▯   0.0 EUR

Auxilliary substaces   0 %
▯▯▯▯▯▯▯▯▯▯▯▯   0.0 EUR

SAP Mobile Start: New innovations
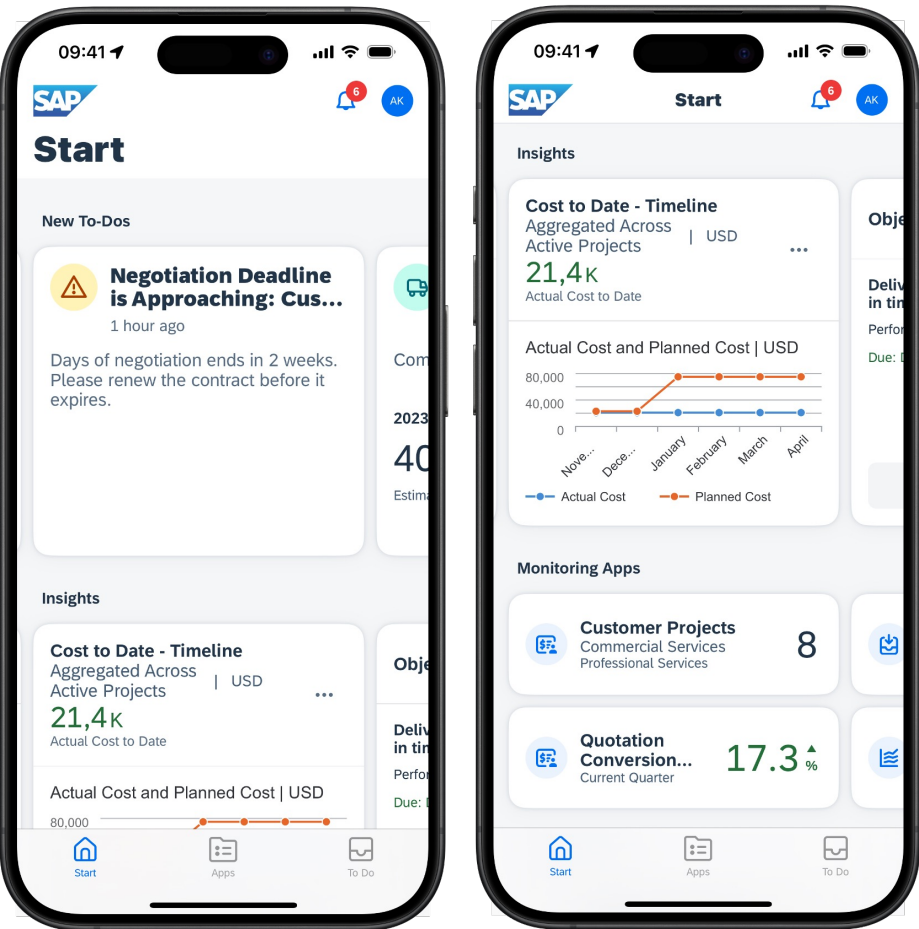
Situation Handling via To-Dos Insight Cards from SAP Start

Watch Companion App for iOS

Complications*

Monitoring information and number of tasks

To Dos

List of your To Dos, with details and filter option

Take Action

Take action on suitable tasks right from your watch
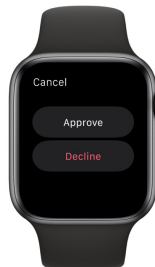
Monitoring Info

Get your monitoring info on your watch
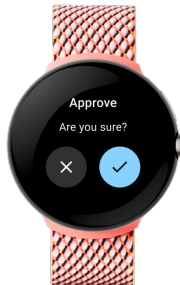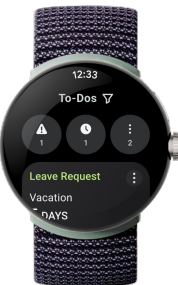
and
for Android

Demo: Integration with SAP Mobile Start

09:41

SAP
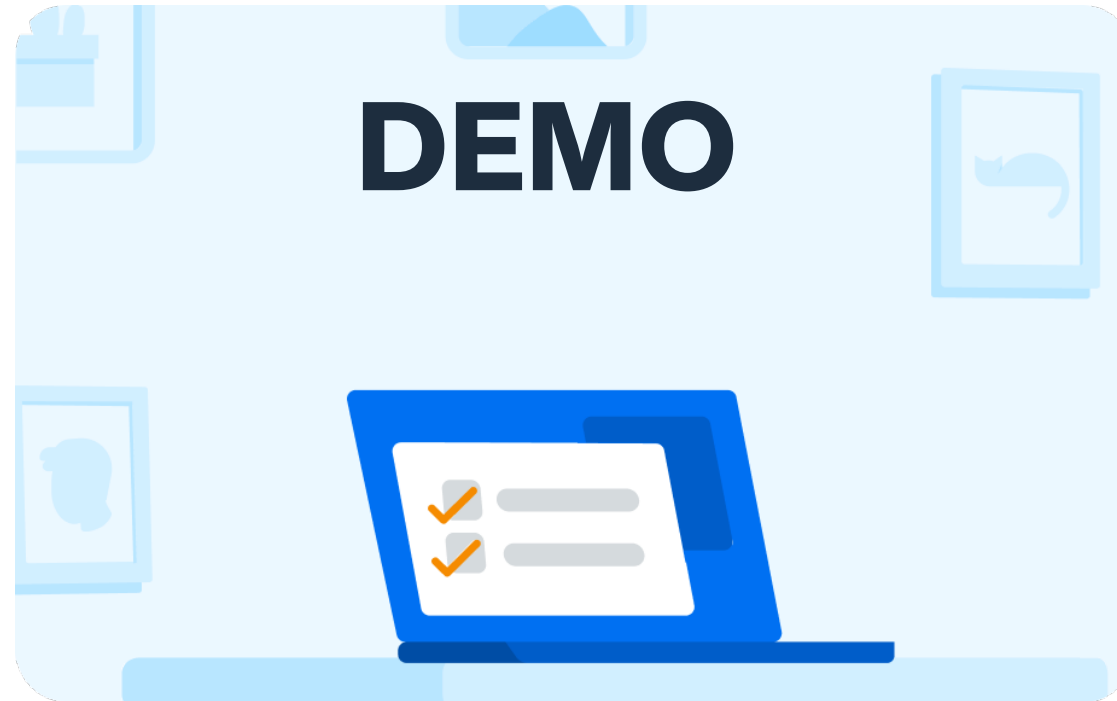
Start

New To-Dos

Release of Purchase Requ...
Unknown Author • 12 ho...

Approve Purchase Requisition 10077147 00010

Item Description: Extension Tub...

Unit of Measure: EA

Expected Value: 0

Insights   See All

Goals   •••

Reduce Customer Complaints

Performance Goals

37 days overdue

Start   Apps   To Do

SAP Mobile Start now available on Apple Vision Pro

Start screen
Uses the improved
iPad layout

SAP Mobile Start now available on Apple Vision Pro

Multiple screens
Users can open up multiple apps, and work with them directly

New *My Home* for
SAP S/4HANA Cloud
SAP S/4HANA

Overview *My Home* in SAP S/4HANA

Search & Launch any of your apps instantly

Personalize the sections shown on the page and their display order

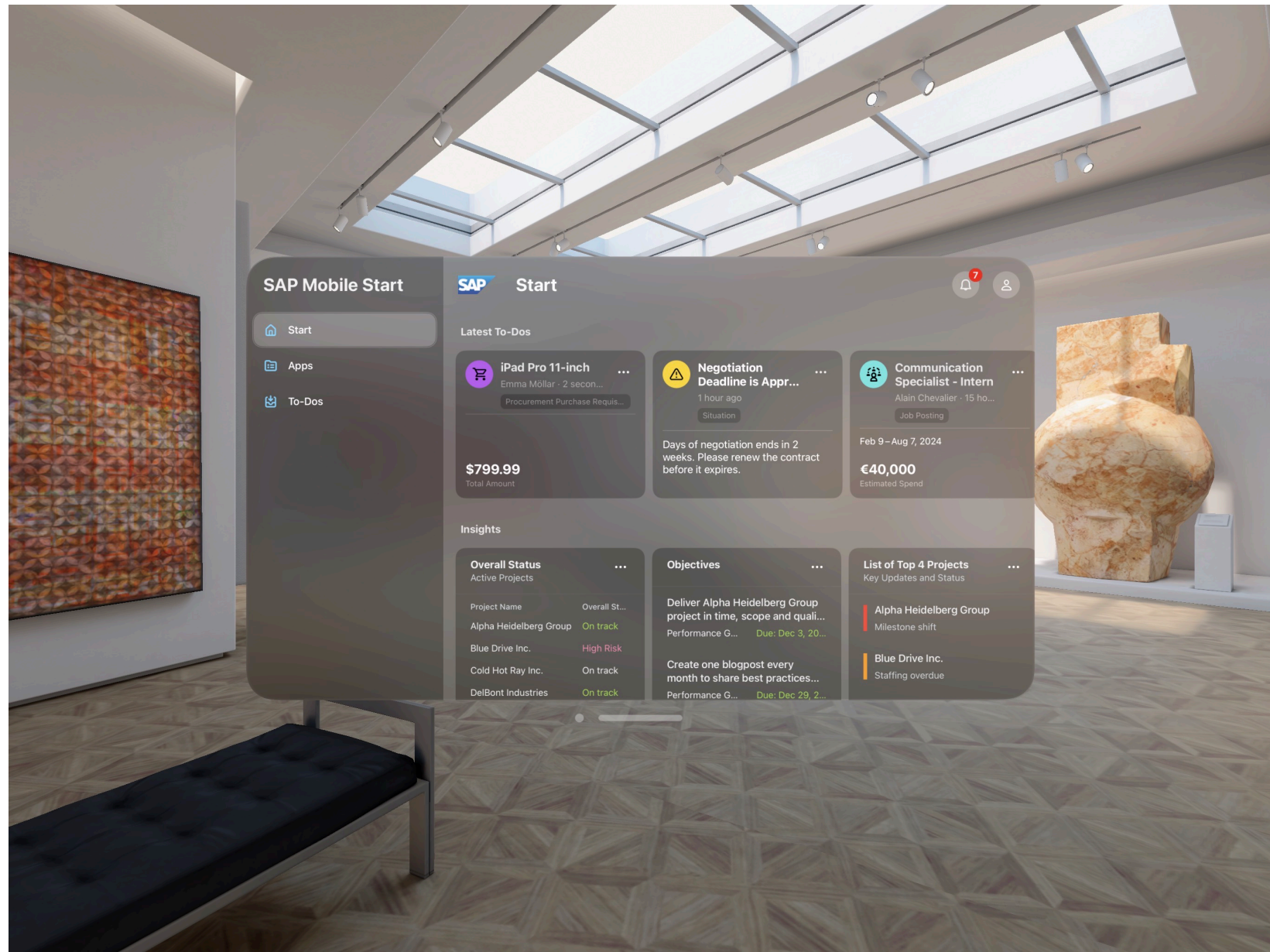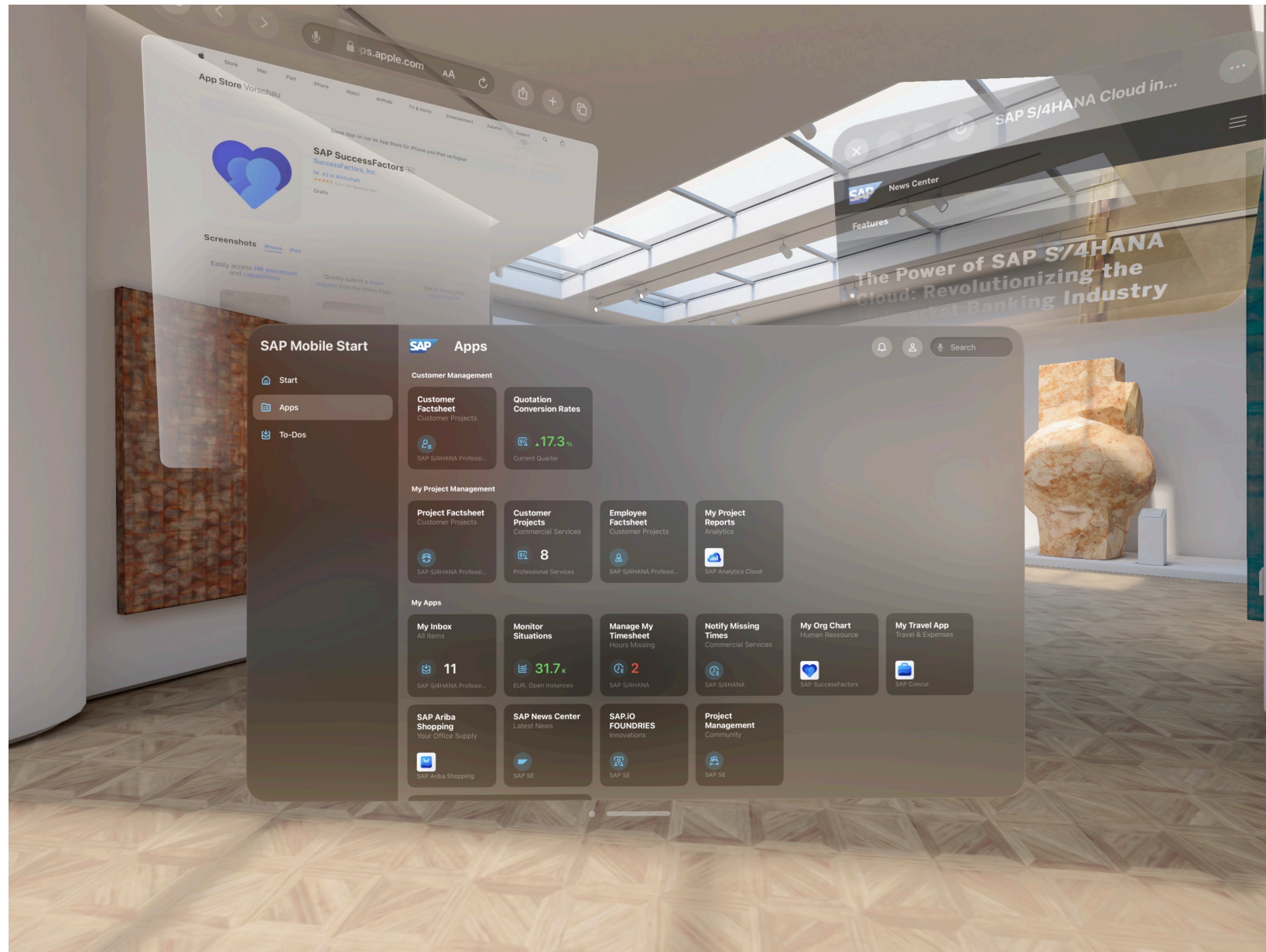**Access** your To Do list of My Inbox and My Situations items

Collaborate with Task creators via MS Teams

Personalize the content of each section

Access relevant system News and your most critical pages quickly

Identify instantly which page an app belongs to (Color coding)

Add Apps

Launch your most relevant apps

Monitor your business thanks to Dynamic or Smart Business tiles

Show more content of a section (only when additional content exists)

Track your business trends through your pinned cards

Demo: *My Home* in SAP S/4HANA (Cloud and On-Premise)
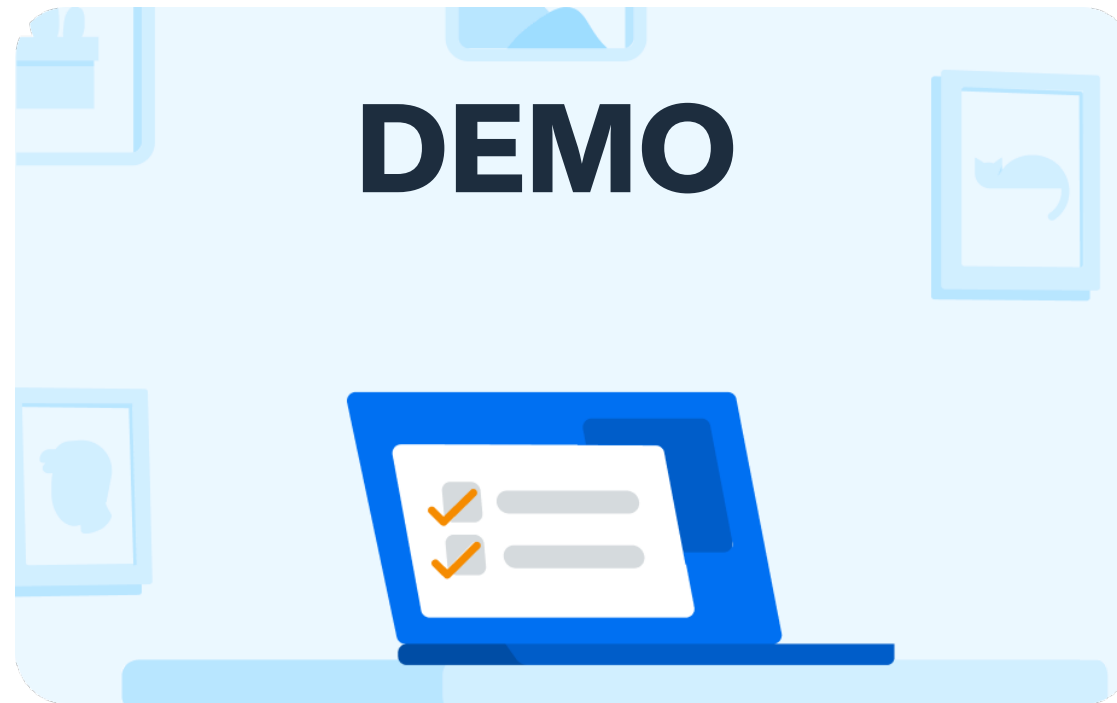
[Demo video](#)

In SAP software, as a user, your work is...

Enjoyable

- Modern and accessible UI
- Integrated workplace
- **Adaptable based on your needs**

Better

Together

Beyond the personalization of your home page just shown...

SAPUI5 Flexibility: adapting SAP application layout and interaction
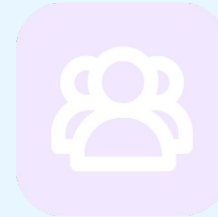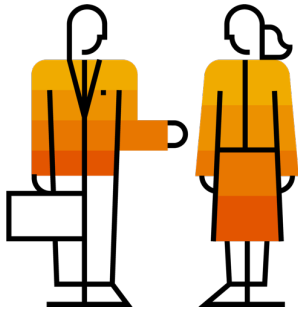
End user

Key user

Developer

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

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

"I **adapt with code** existing apps **for everybody – modification-free**"

SAPUI5 flexibility – all you need to know

SAP Fiori for SAP S/4HANA – What is Key User Extensibility and Who are your Key Users

Using developer adaptation projects

Introducing SAPUI5 Adaptation Projects in Visual Studio Code **NEW**

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

Key User Adaptation for SAP Fiori Elements

Extending SAP S/4HANA Cloud Public Edition using SAPUI5 adaptation projects **NEW**

In SAP software, as a user, your work is...

Enjoyable

Better

- With insights from embedded analytics
- More efficient with automation
- Smarter with AI guidance

Together
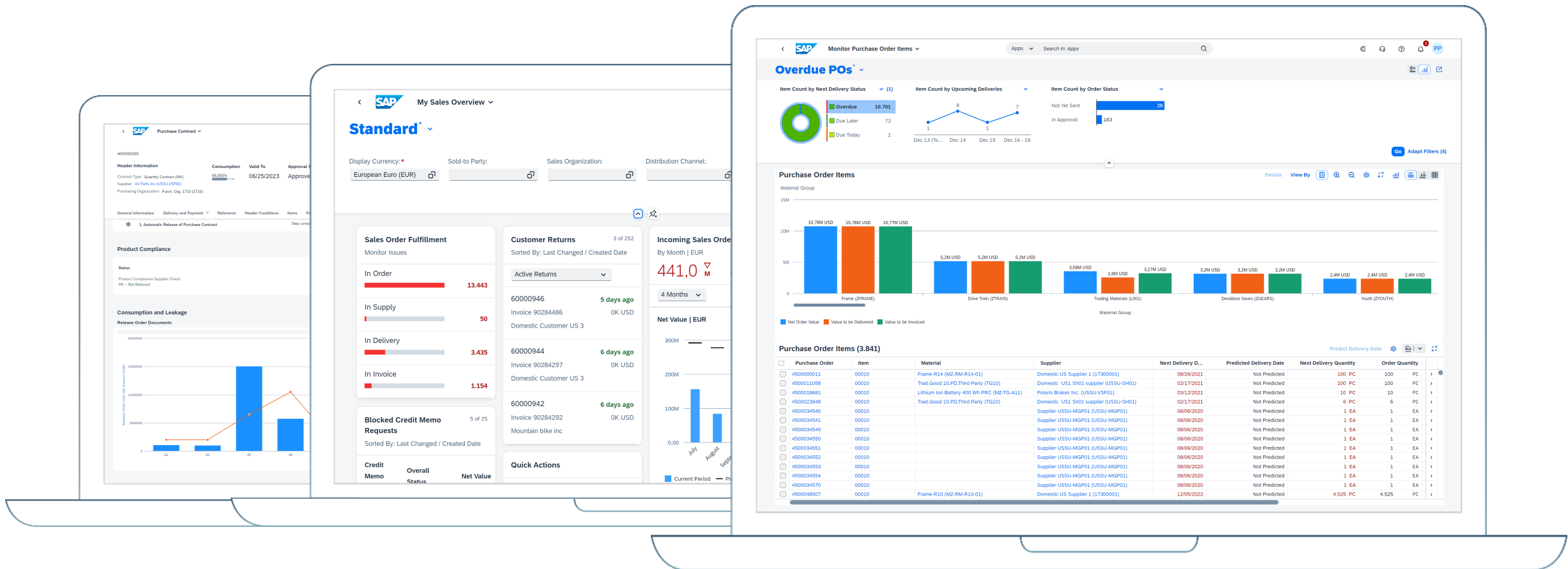
In SAP software, as a user, your work is...

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- **With insights from embedded analytics**
- More efficient with automation
- Smarter with AI guidance

Together

SAP Fiori with Embedded Analytics

Analytical insights for users doing their daily business – build easily with SAP Fiori elements

SAP Mobile Start with analytics widgets

Integration with SAP Analytics Cloud available now

In SAP software, as a user, your work is...

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- Smarter with AI guidance

Together

AI & Situation Handling SAP S/4HANA example: Payment Advice handling

AI Automation

Payment advice received from customer as PDF

Automated creation of Payment Advice

AI Augmentation

Invoices skipped in the payment advice.

The payment advice may not cover one or more unpaid invoices for substantial amounts that were submitted during the same time…

Situation created 2 hours ago

Notification in *My Home*

User navigation to Situation view of Payment Advice

Invoices skipped in the payment advice.

2 hours ago

The payment advice may not cover one or more unpaid invoices for substantial amounts that were submitted during the same time period as the rest of the invoices in this payment advice.

Close Situation

Situation Handling news:
- 140+ standard use cases
- Extended framework for custom use cases

In SAP software, as a user, your work is…

Enjoyable

Better

- With insights from embedded analytics
- More efficient with automation
- **Smarter with AI guidance**

Together

SAP Fiori Design Guidelines – with AI updates
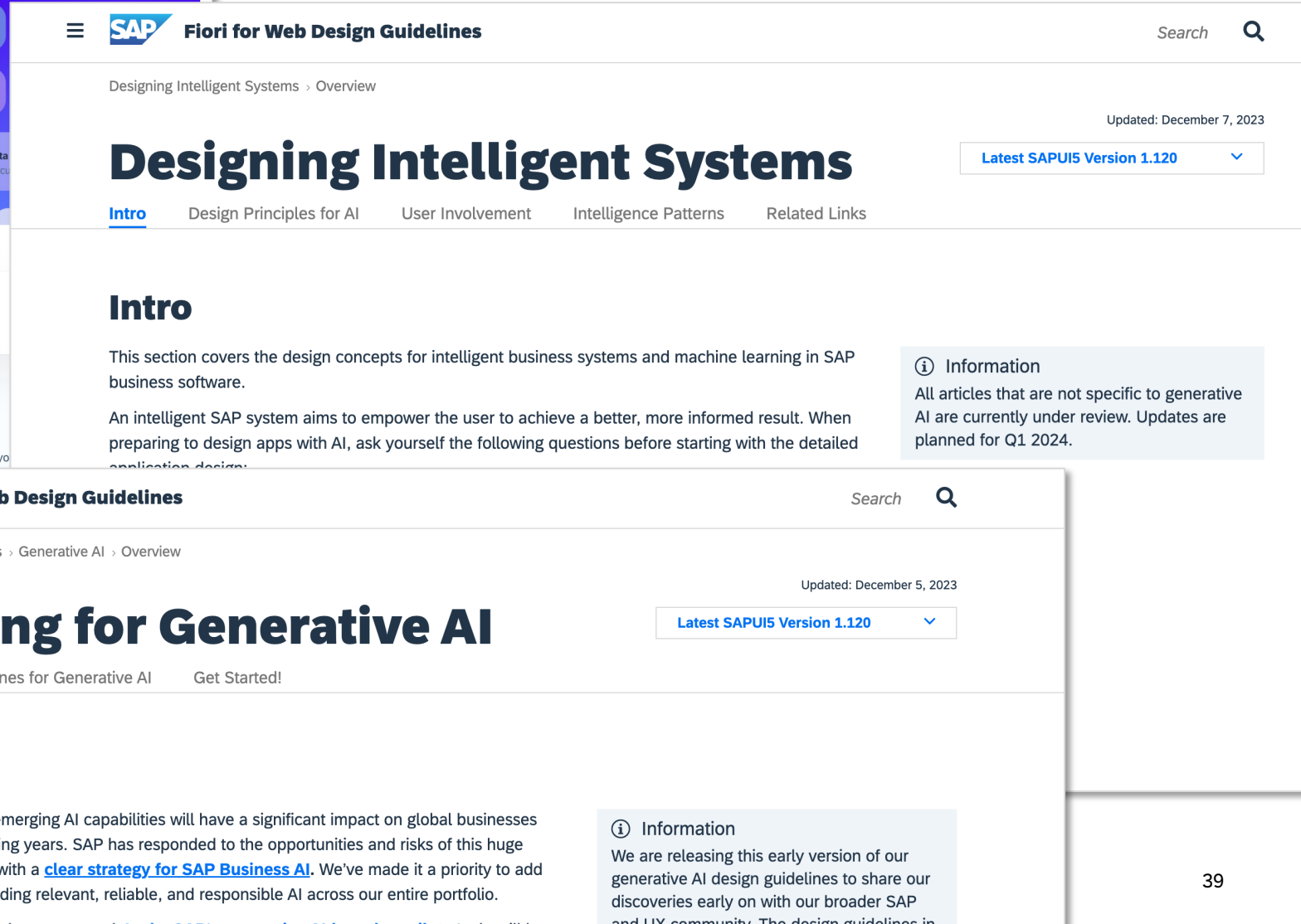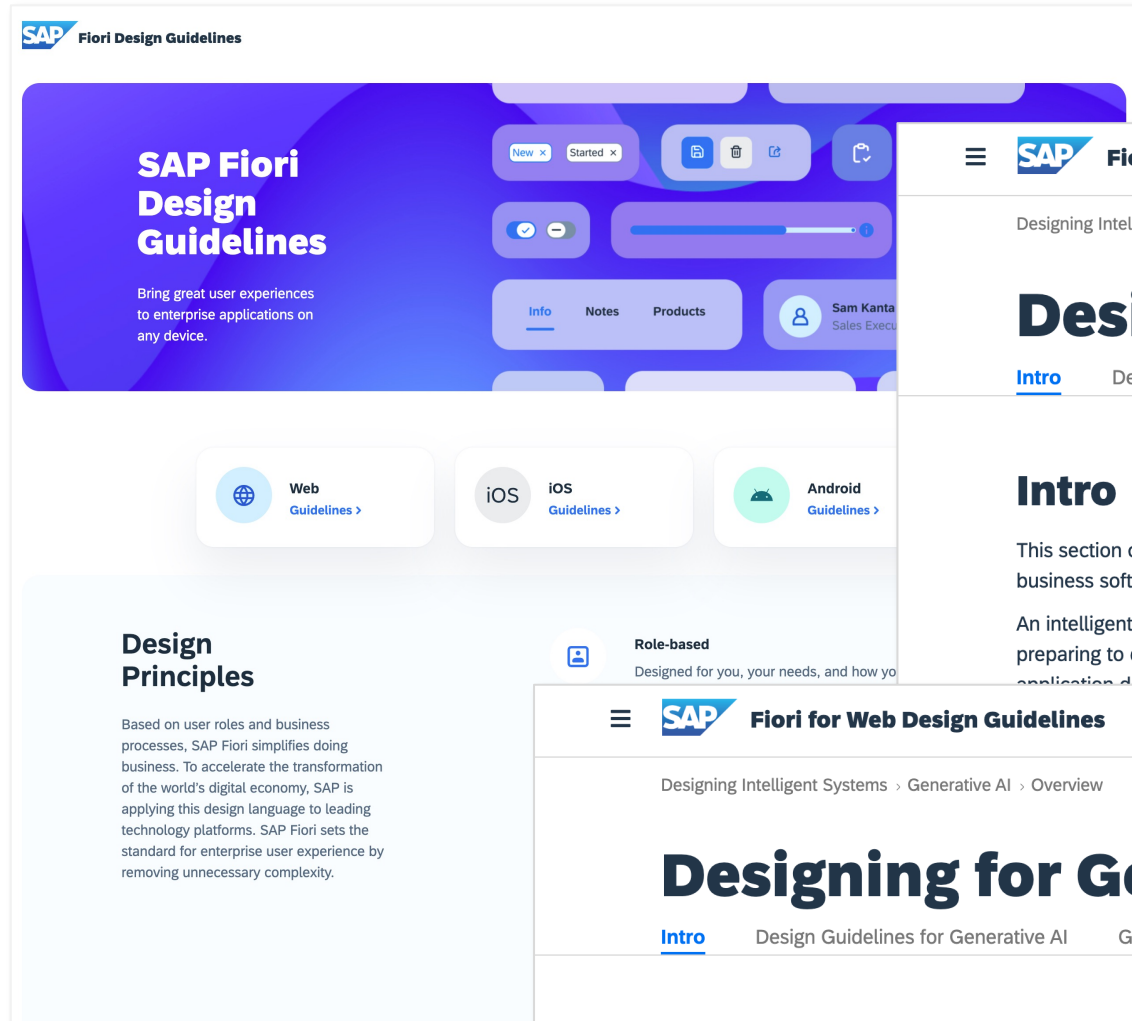
Recommendations via generative AI

Example

Job description generation

Joule – your digital assistant

Knows your unique role and acts as your work copilot across SAP applications.

Get quick answers and smart insights on-demand for faster decision-making.

Available for business users and also for developers!

Planned Innovation

This is the current state of planning and may be changed by SAP at any time without notice.

Joule interaction patterns for SAP S/4HANA Cloud
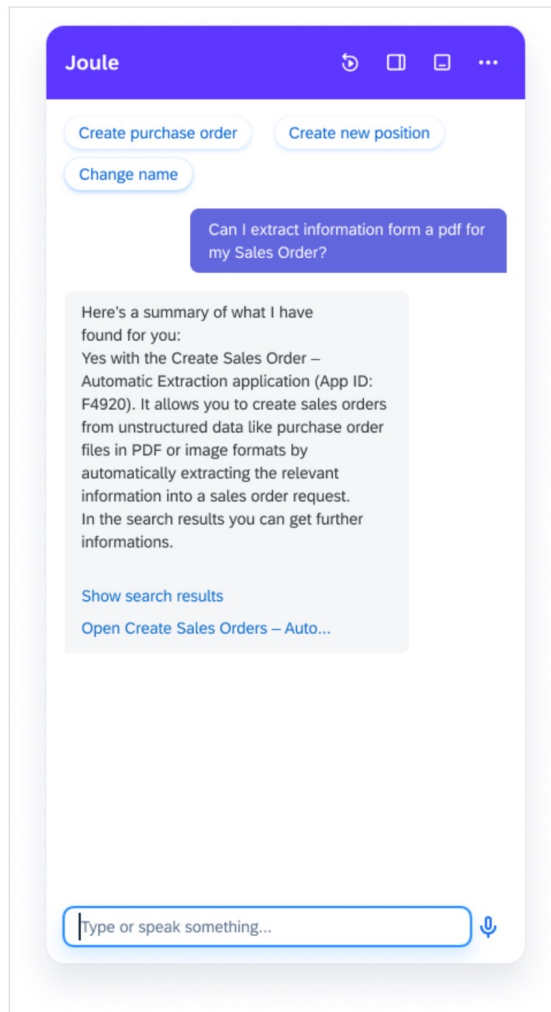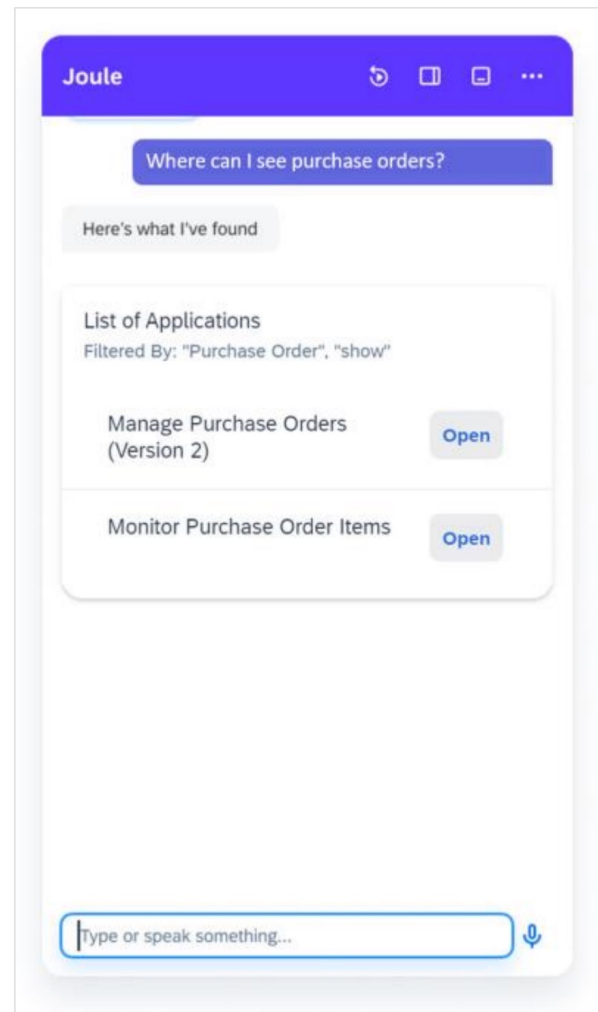
Informational

Navigational

Transactional

This is the current state of planning and may be changed by SAP at any time without notice.
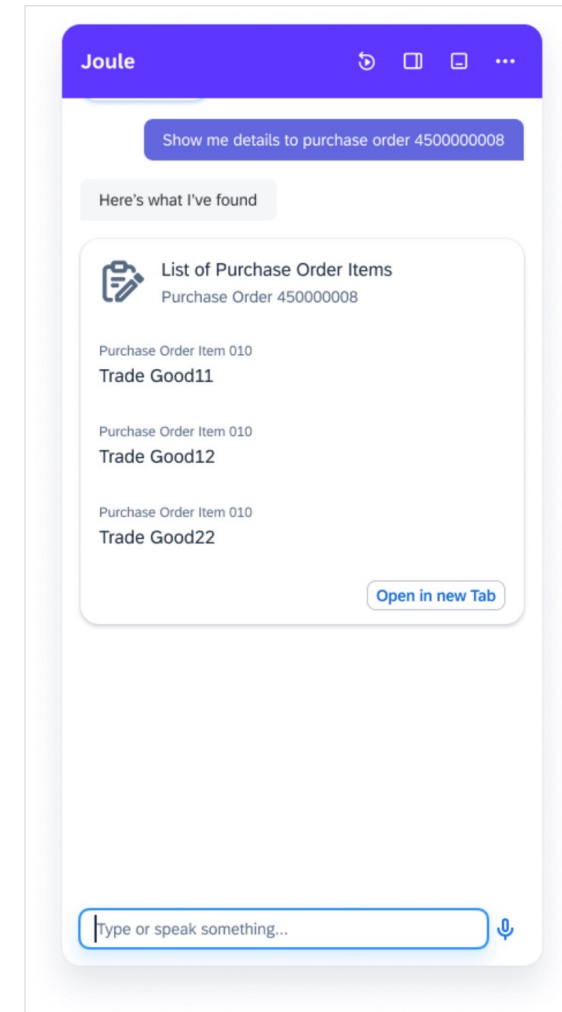
Preview Demo: Joule in SAP S/4HANA Cloud
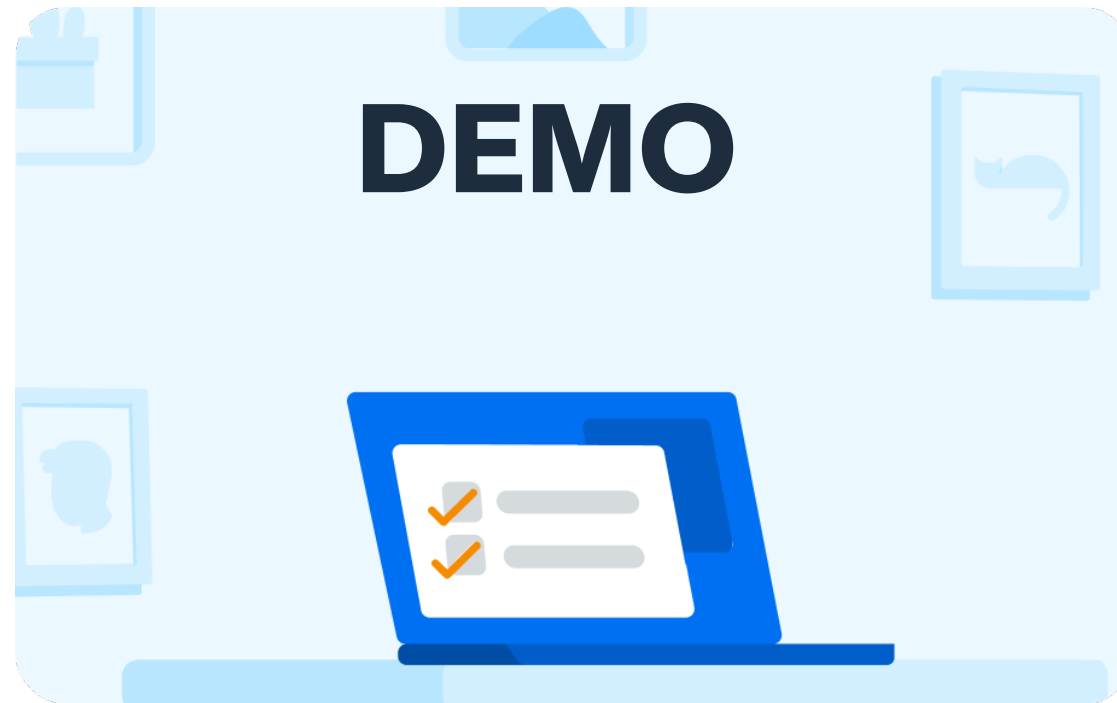
[Demo video](#)

Joule Road Map 2024
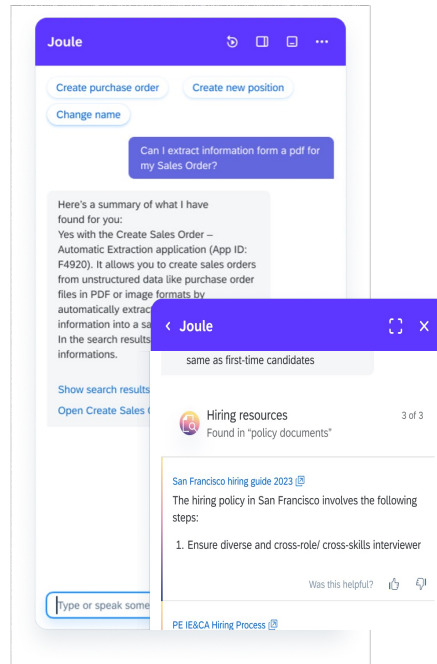
Informational Pattern for customer documents

Summarized answers on uploaded documents, via RAGe
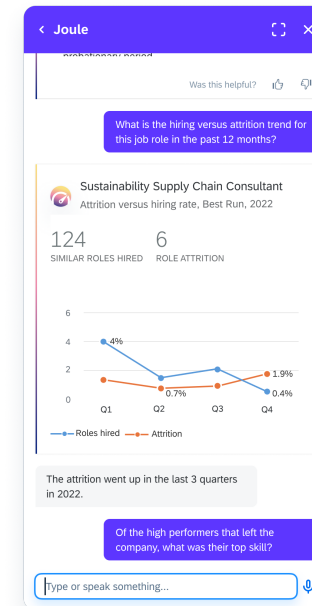
Transactional Pattern for Analytics

Summarizes reports, users can refine interactively within context of the chat
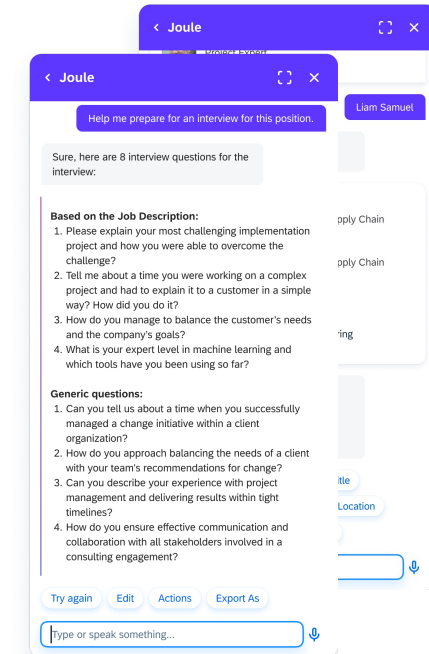
Transactional Pattern enhancements

Enhanced interactions on business data

*RAGe = Retrieval Augmented Generation for enterprise

This is the current state of planning and may be changed by SAP at any time without notice.

In SAP software, as a user, your work is...

Enjoyable

Better

Together

- Built in collaboration
- Direct teams integration
- One source of the truth

Collaborative Draft with SAP Fiori elements v4

Jointly edit business objects

Invite colleagues

In lists, see drafts, and who else is editing

Embedded collaboration: SAP Collaboration Manager

Embedded **chat-based collaboration**, allowing users to:

- Take notes
- Ad-hoc chat with other users
- Share and annotate screenshots
- Share the business context
- Upload and share files

SAP Collaboration Manager – new features
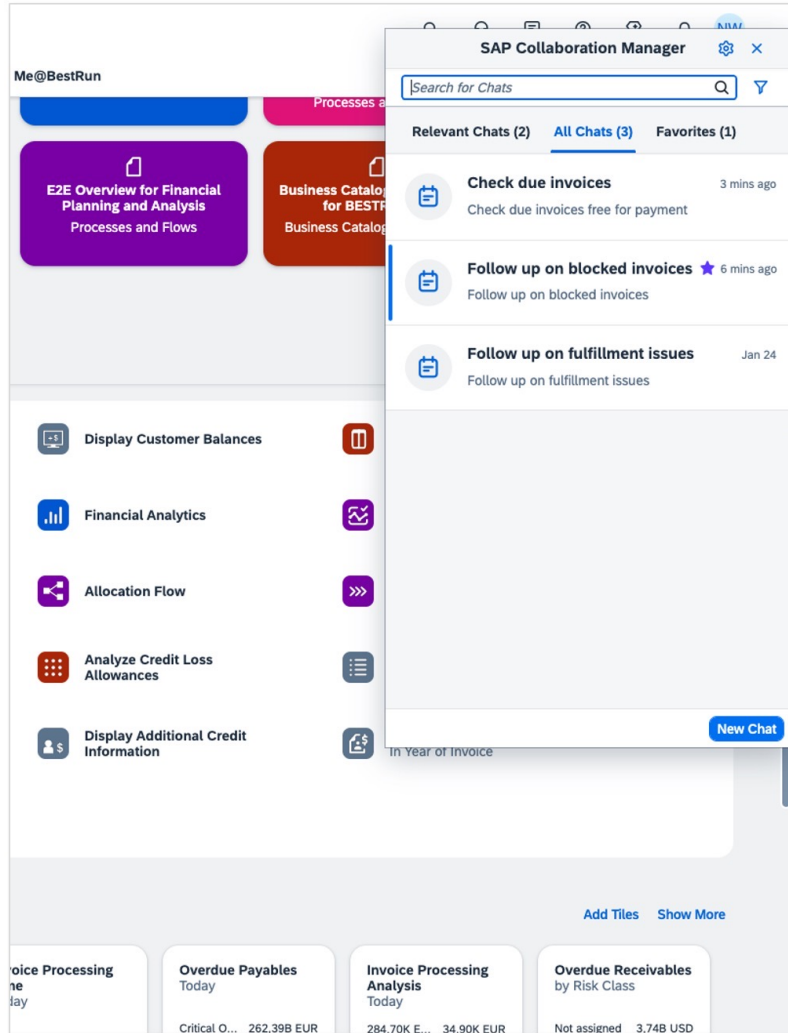
Users can **organize** their **chats** and **notes better:**

- Favorites
- Set chats to unread

SAP Collaboration Manager – new features
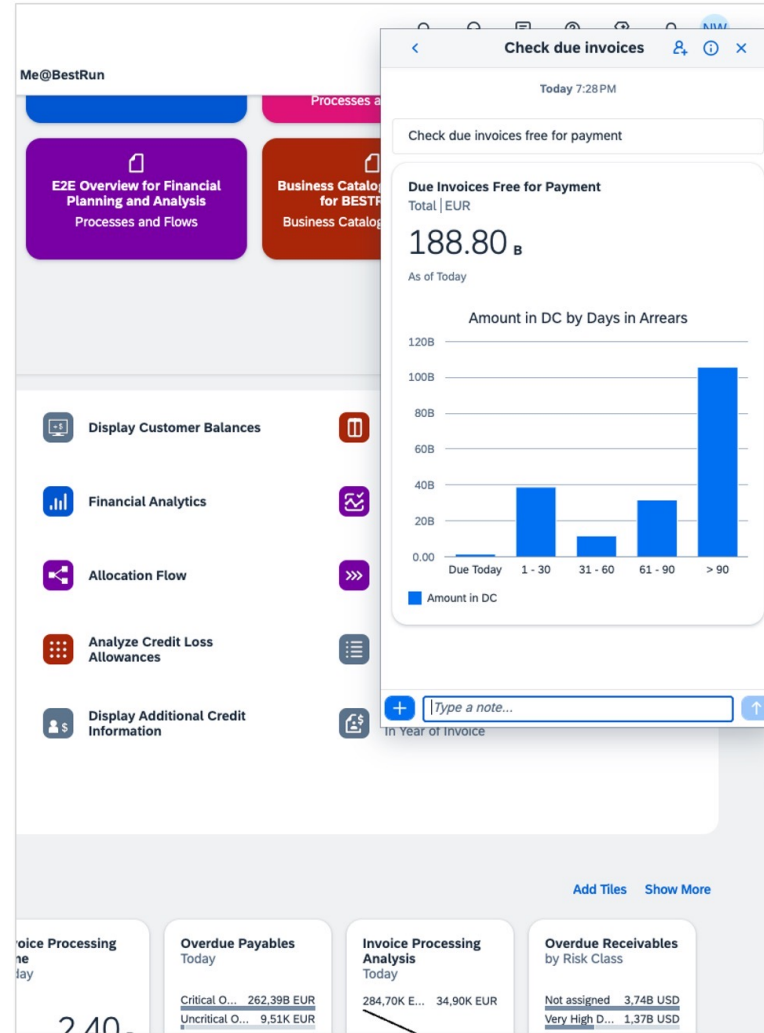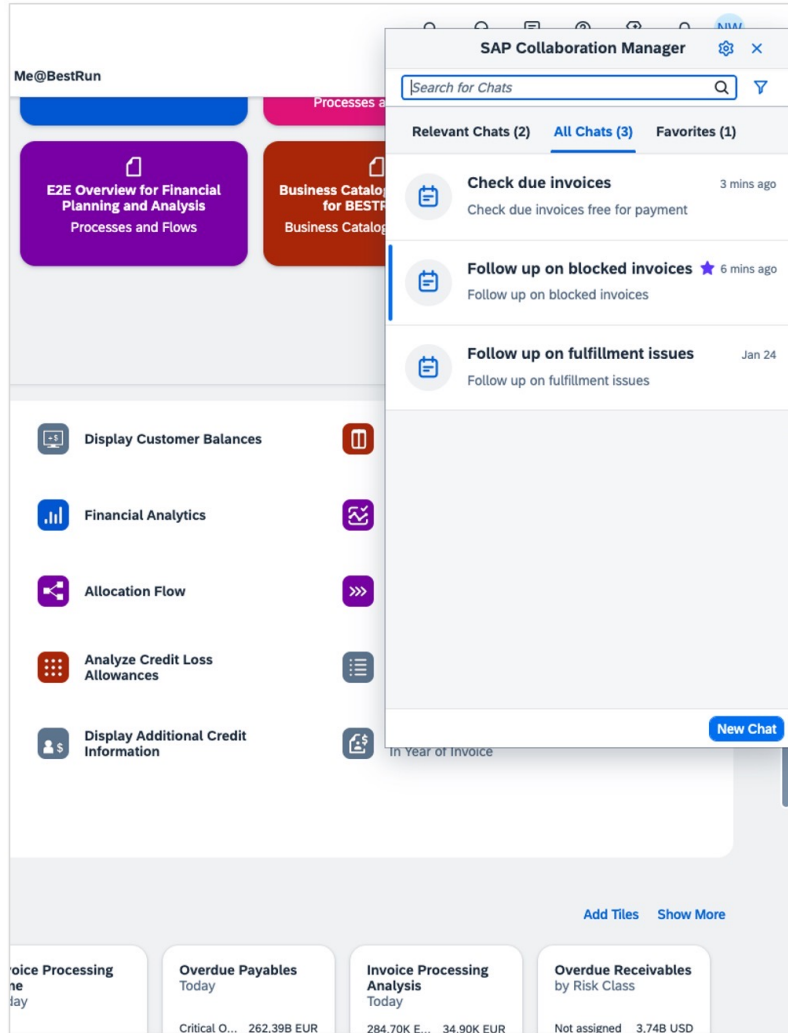
Users can **organize** their **chats** and **notes better:**

- Favorites

- Set chats to unread

- Add insight cards

Collaboration via Microsoft Teams

Share as chat / share as tab

- Seamless integration
- Access to live data
- Pre-integrated
- No additional costs*

*Microsoft Teams needs to be licensed separately

AUC1 October 31st ⌄

Display Change Log   View Reversal Logs   ⬆ ⌄

Company Code:	Ledger Group:	Journal Entry:	Journal Entry Date:	Posting Date:	Fiscal Year:	Fiscal Period:	Journal Entry Created By:
AUC1 (Comp.... ✕			10/31/2023	=2023 ✕	=10 ✕		

Journal Entry Type:	Journal Entry Category:
RV (Billing doc... ✕	(Normal docu... ✕

Go   Adapt Filters (6)

Journal Entries   Predictive Journal Entries

Journal Entries (9) Standard ⌄

Create   Upload   Copy   Reverse   Create Correspondence   ⌄ Display

☐	Journal Entry	Journal Entry Type	Company Code	Journal Entry D...	Posting Date	Amount in Company Code C...		Document Header Text	Journal Entry Created By	
☐	9400002780	RV (Billing doc.transfer)	AUC1 (Comp.Code AUC1)	10/31/2023	10/31/2023	16.254,00	AUD		SAP_SYSTEM (SAP System Processing)	›
☐	9400002779	RV (Billing doc.transfer)	AUC1 (Comp.Code AUC1)	10/31/2023	10/31/2023	20.412,00	AUD		SAP_SYSTEM (SAP System Processing)	›
☐	9400002778	RV (Billing doc.transfer)	AUC1 (Comp.Code AUC1)	10/31/2023	10/31/2023	7.560,00	AUD		SAP_SYSTEM (SAP System Processing)	›
☐	9400002777	RV (Billing doc.transfer)	AUC1 (Comp.Code AUC1)	10/31/2023	10/31/2023	13.660,00	AUD		SAP_SYSTEM (SAP System Processing)	›
☐	9400002776	RV (Billing doc.transfer)	AUC1 (Comp.Code AUC1)	10/31/2023	10/31/2023	191.240,00	AUD		SAP_SYSTEM (SAP System Processing)	›
☐	9400002775	RV (Billing doc.transfer)	AUC1 (Comp.Code AUC1)	10/31/2023	10/31/2023	27.320,00	AUD		SAP_SYSTEM (SAP System Processing)	›
☐	9400002774	RV (Billing doc.transfer)	AUC1 (Comp.Code AUC1)	10/31/2023	10/31/2023	180.387,00	AUD		SAP_SYSTEM (SAP System Processing)	›
☐	9400002773	RV (Billing doc.transfer)	AUC1 (Comp.Code AUC1)	10/31/2023	10/31/2023	8.253,00	AUD		SAP_SYSTEM (SAP System Processing)	›
☐	9400002772	RV (Billing doc.transfer)	AUC1 (Comp.Code AUC1)	10/31/2023	10/31/2023	23.580,00	AUD		SAP_SYSTEM (SAP System Processing)	›

Collaboration with embedded generative AI
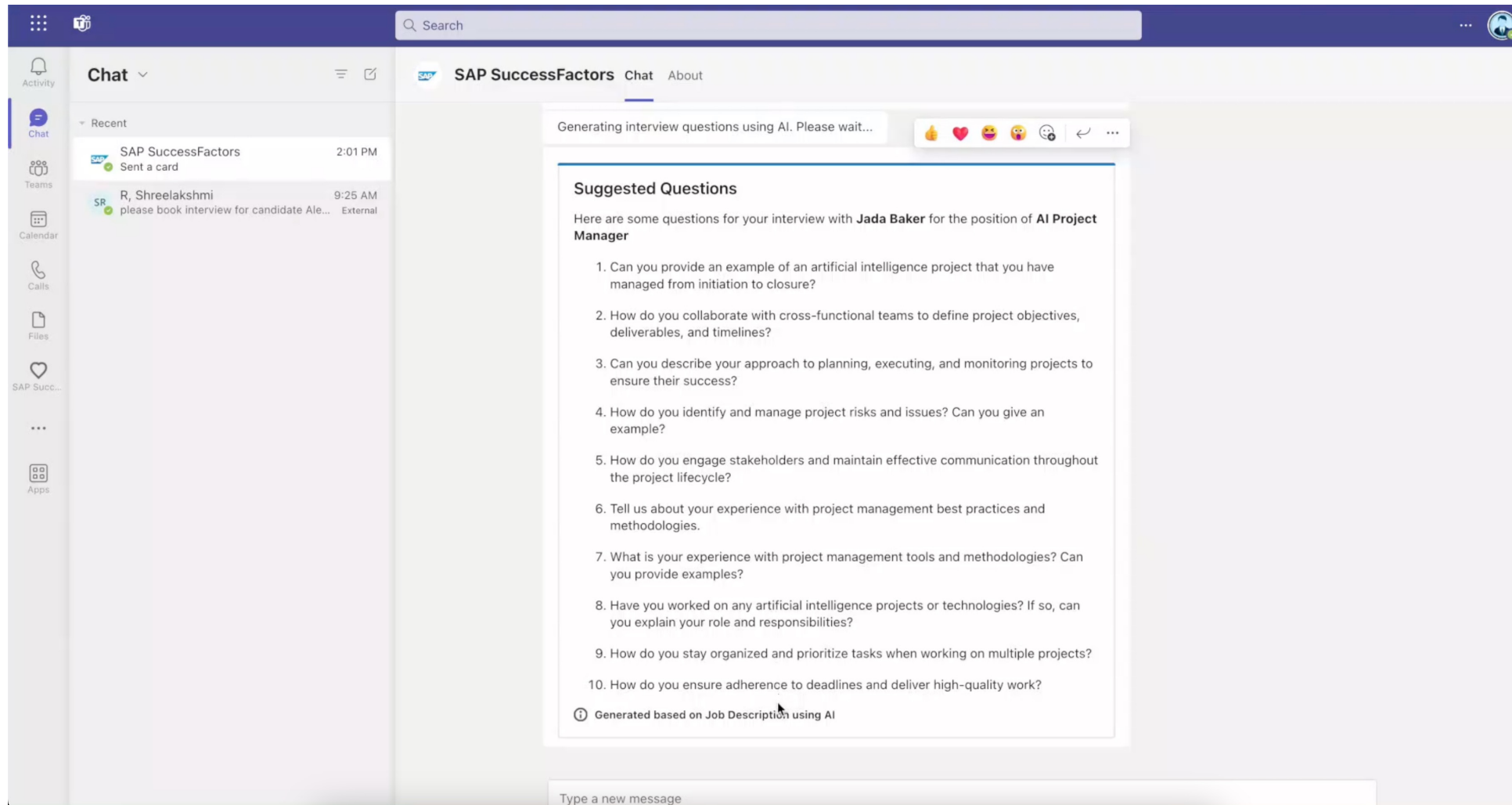
Example

Interview questions generation embedded in Microsoft Teams

SAP's user experience helps all users get their jobs done more easily, with better outcomes

Not only good-looking!

Easy to use and **enjoyable**, helping users work **better, together**

This is just today...

...our UX is constantly evolving leveraging innovations which can help users

SAP Fiori big picture

Design System	**Values**	**Principles**	**Practices**
	SAP Fiori Design Languages	Guidelines and Assets	

Tools & Technologies*

	SAP Fiori **Web**		SAP Fiori **Native Mobile**	SAP Fiori **Conversational UX**
SAP Fiori tools	**SAP Build Code** SAP Business Application Studio	SAP Mobile Development Kit		

SAP Fiori **Web**

- SAP Fiori tools
- **SAP Build Code** — SAP Business Application Studio
- SAPUI5
- SAP Fiori elements
- SAP Web Components
- SAP Screen Personas (for Classic UIs)
- SAP Start / SAP Build Work Zone

SAP Fiori **Native Mobile**

- SAP Mobile Development Kit
- SAP BTP SDK for iOS
- SAP BTP SDK for Android
- SAP Mobile Start

SAP Fiori **Conversational UX**

- AI Foundation on SAP BTP
- Joule

Portfolio of apps

- SAP S/4HANA
- SAP Customer Experience
- SAP Analytics Cloud
- SAP SuccessFactors
- SAP Ariba
- SAP Concur
- ...

*These are the main tools and technologies for custom development of SAP Fiori apps (web and native mobile).

SAP BTP = SAP Business Technology Platform

SAP Fiori big picture - focus on developing web and mobile apps

Values	Principles	Practices

Design System

SAP Fiori Design Languages   Guidelines and Assets

Tools & Technologies*

SAP Fiori **Web**	SAP Fiori **Native Mobile**	SAP Fiori Conversational UX

SAP Build Code
SAP Business Application Studio

SAP Fiori tools				SAP Mobile Development Kit	
SAPUI5	SAP Fiori elements	SAP Web Components	SAP Screen Personas (for Classic UIs)	iOS SDK	Android SDK

AI Foundation
on SAP Business Technology Platform

SAP Start / SAP Build Work Zone   SAP Mobile Start   Joule

Portfolio of apps

SAP S/4HANA	SAP Customer Experience	SAP Analytics Cloud	SAP SuccessFactors	SAP Ariba	SAP Concur	…

*These are the main tools and technologies for custom development of SAP Fiori apps (web and native mobile)

There are several ways to build SAPUI5 apps

SAP Fiori elements
Floorplans
Best when desired app is close to a standard pattern
- Reduce time, coding to develop and maintain apps
- Match look and feel of apps that SAP ships

Flexible Programming Model
Building Blocks
Best to add standard functionality to a custom page
- Speed development by using pre-built blocks
- Combine building blocks for more complex designs

Freestyle SAPUI5
SAPUI5 controls
Best to have full control of every item on the screen
- Allow complete customization of your app
- Shift more maintenance of the app to the dev team

More Efficiency ← → **More Flexibility**

Flexible Programming Model blends SAP Fiori elements and freestyle SAPUI5

Using OData V4, developers have a **range of options** instead of an either/or decision

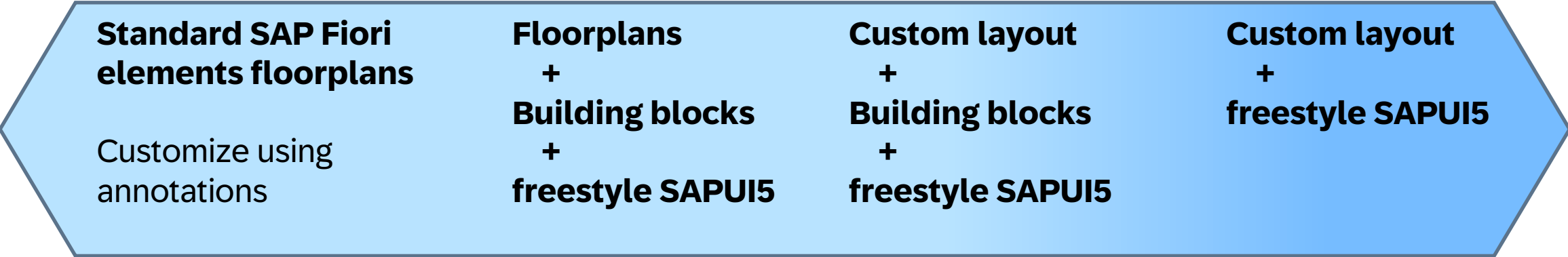| **Standard SAP Fiori elements floorplans**

Customize using annotations | **Floorplans**
+
Building blocks
+
freestyle SAPUI5 | **Custom layout**
+
Building blocks
+
freestyle SAPUI5 | **Custom layout**
+
freestyle SAPUI5 |

Efficiency ⇐⇒ **Flexibility**

SAP Fiori elements
Metadata-driven
SAPUI5 development
using annotations

Freestyle SAPUI5
JavaScript framework
and UI library

People are increasingly mobile
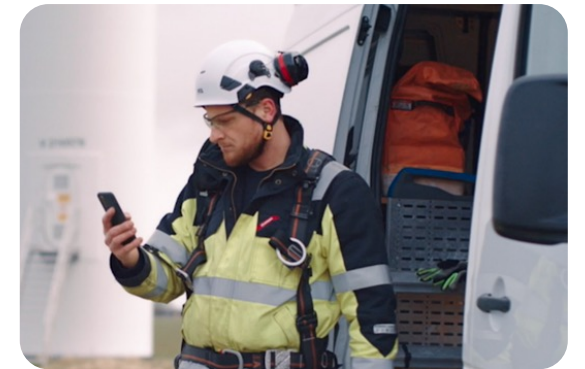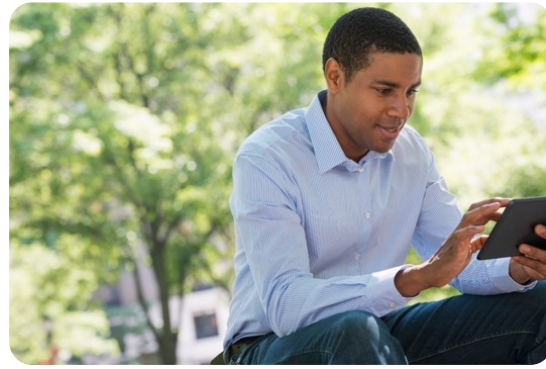
A hybrid workforce is the future.

**Using both remote and on-site parts of the same solution
to maximize effectiveness.**

Mobile design system – with Horizon
End to end: Design to technology
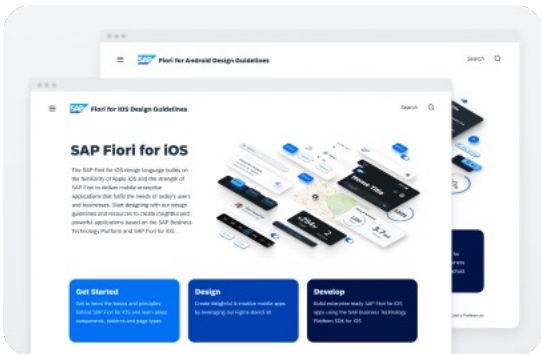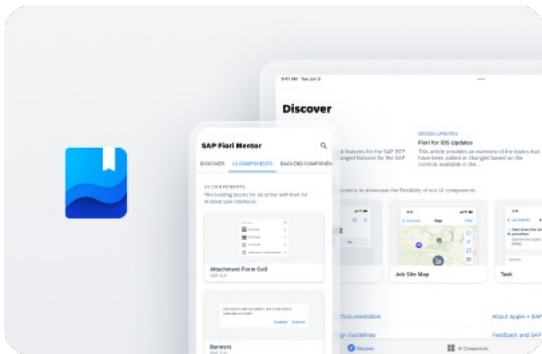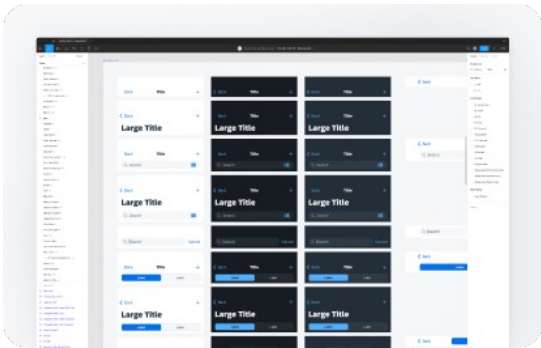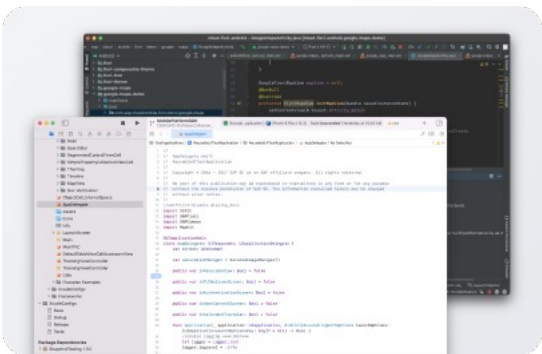

Design guidelines
Android   iOS

SAP Fiori Mentor mobile app for iOS and Android
Android & iOS

UI kits
Android   iOS

Software development kits
Android   iOS

Learn more

General information on SAP User Experience

► [SAP Fiori product page](#) get an overview

► [SAP Fiori topic page in the SAP community](#)
links to detailed information and blogs, e.g.
design guidelines, road map, documentation, rapid
development with SAP Fiori elements

Additional information for this presentation

► SAP Fiori road map: [Technology](#); [Applications and Technology](#)

► Blog posts:

    ► [UX Update: What's new SAP S/4HANA 2023 (on-premise & private cloud)](#)

    ► [User Experience Advances with SAP S/4HANA 2023 FPS01 (Private Cloud and On-Premise)](#)

    ► [SAP UX Innovations in Public Cloud Products, Joule, AI, Entry Points, Apple Vision Pro and more](#)

    ► [How to use SAP Fiori elements, SAPUI5 freestyle or a mix of both…](#)

► [SAP Fiori apps reference library](#)

Thank you.

Contact information:

Thomas Reiss
thomas.reiss@sap.com

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