# The new role of the citizen developer: Can low-code solutions help with transformation?




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Product Manager – SAP Build Apps



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Head of Product Enablement – SAP Build

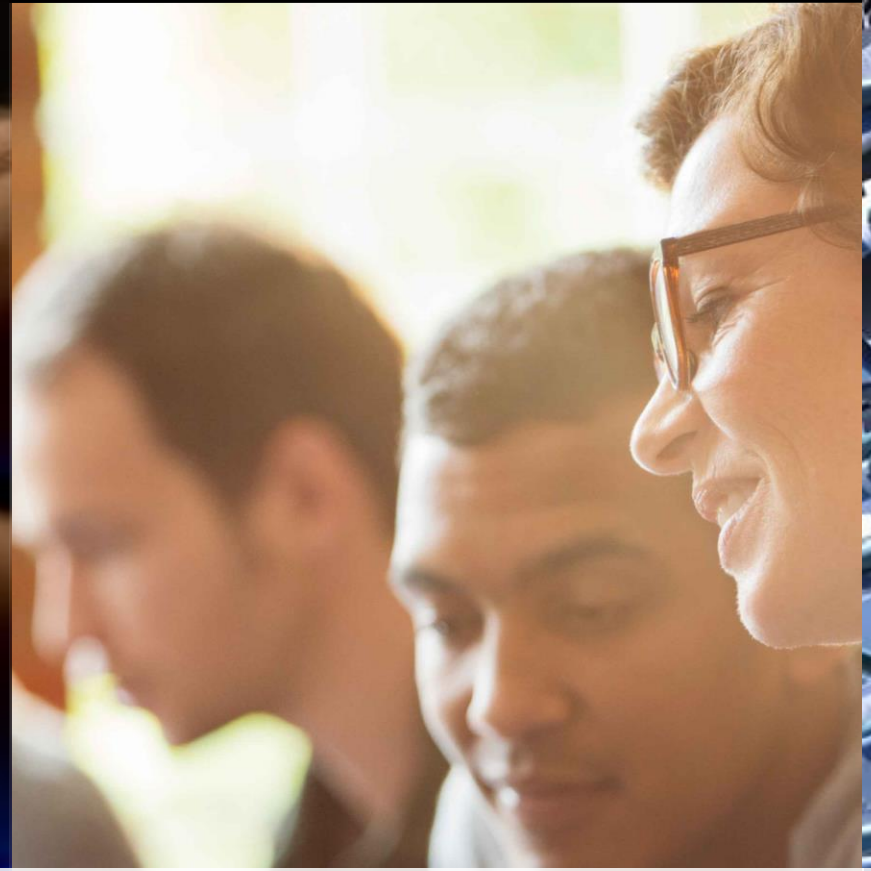

THE BEST RUN SAP

to <ode

or not

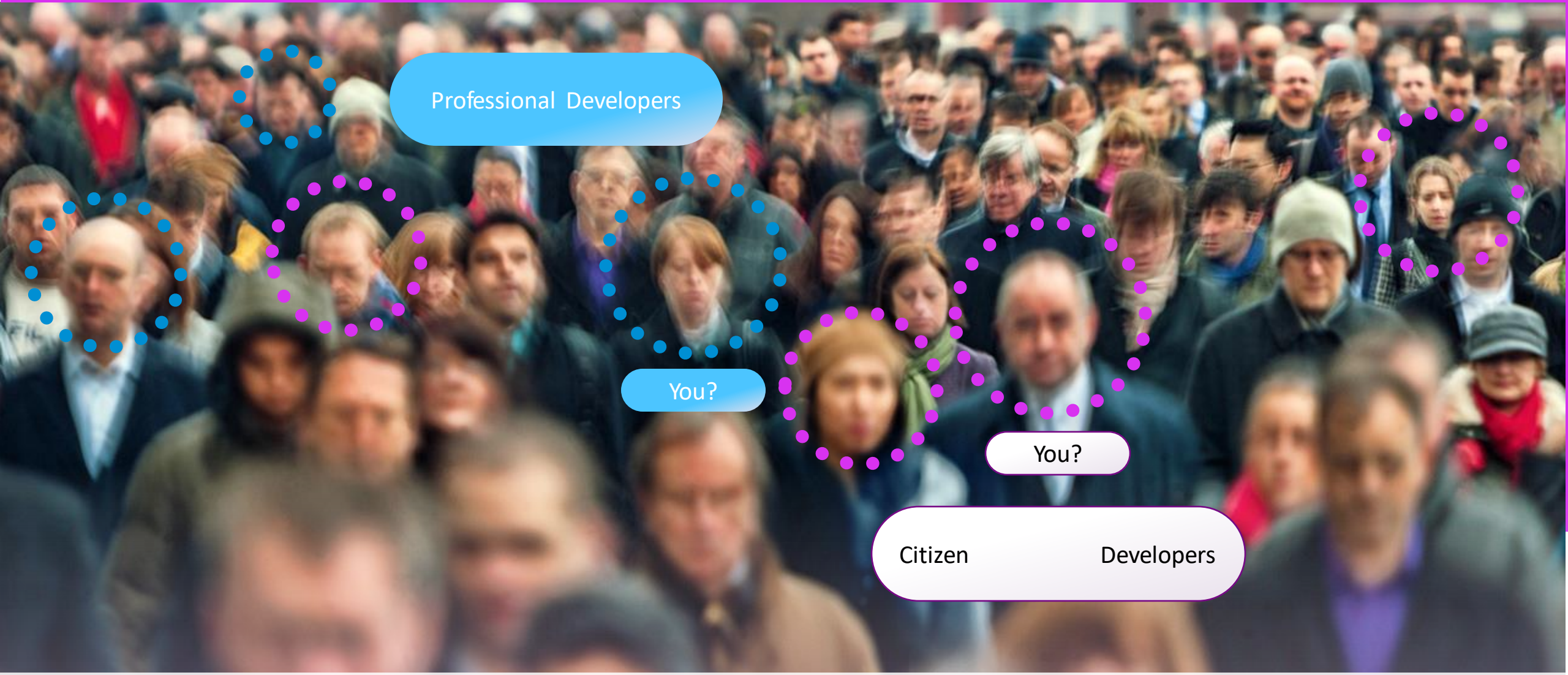
to → code

Volatile
Markets



Limited
Resources

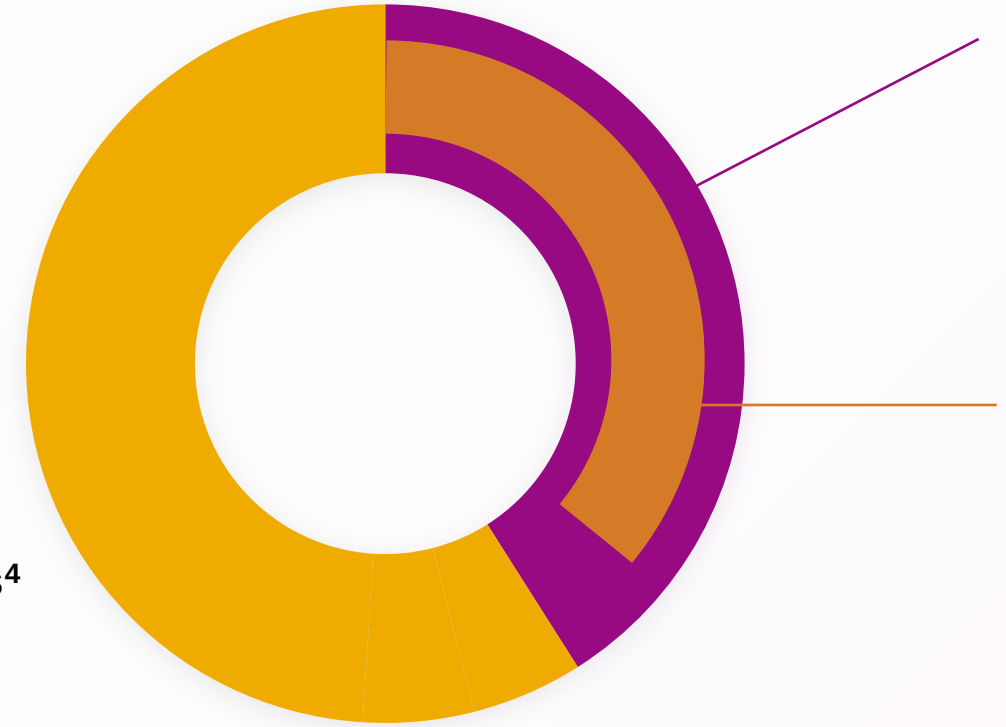
Complex
IT Landscapes




Low-Code/No-Code unleashes hidden workforce in companies

# Low-Code/No-Code Unleashes Untapped Workforce in Companies

## Enabling Citizen Development in Organizations to Increase Business Resilience



**IT Technologists[4]**
Gartner®, 2021

"In the 2021 Gartner Reimagining Technology Work Survey, respondents indicated that — on average — **business technologists** make up **41%** of their organization's workforce." [4]

Gartner®, 2021

"About **80%** of these users are **citizen technologists** who create technology output as part of (or in addition to) their full-time roles (…). These non-IT personas can independently use **low-code and no-code** technologies to improve business efficiency, efficacy and agility." [4]

Gartner®, 2021

Citizen Technologist = Citizen Developer = Business Builder

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# Meet the Growing Application Need

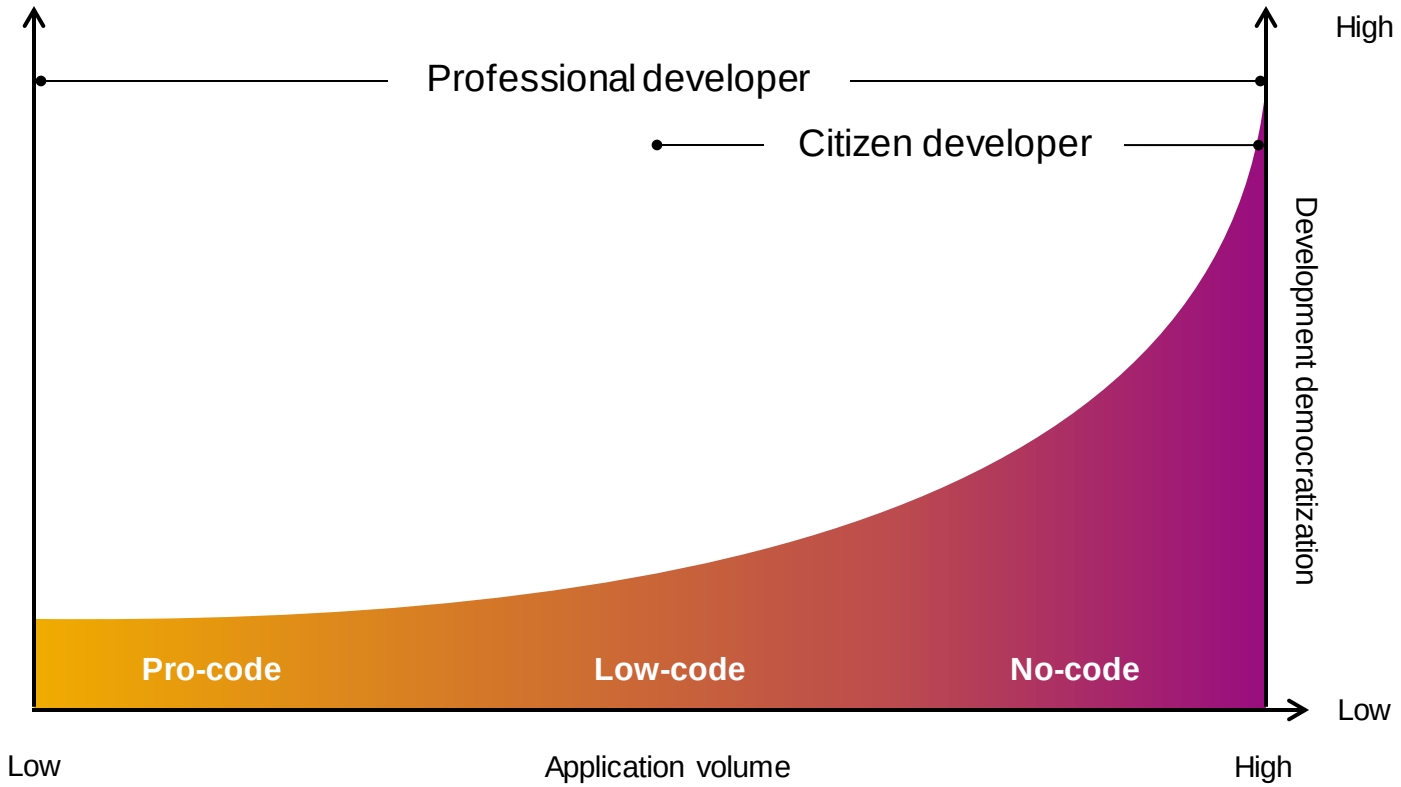
## Scale Development by Empowering More Employees

### Professional developer

- Uses tools of choice to create cloud native applications and reusable services
- Designs, develops, deploys, tests, and hands over to production
- Understands the concept of a development lifecycle, testing, and versioning
- Ensures governance and security

### Citizen developer

- Creates and publishes low-code/no-code apps and customizations with close links to business contexts
- Is unaware of testing, go-live, versioning, and termination but learns through citizen development education
- Ensures governance and security through IT-sanctioned tools and platform-supported processes

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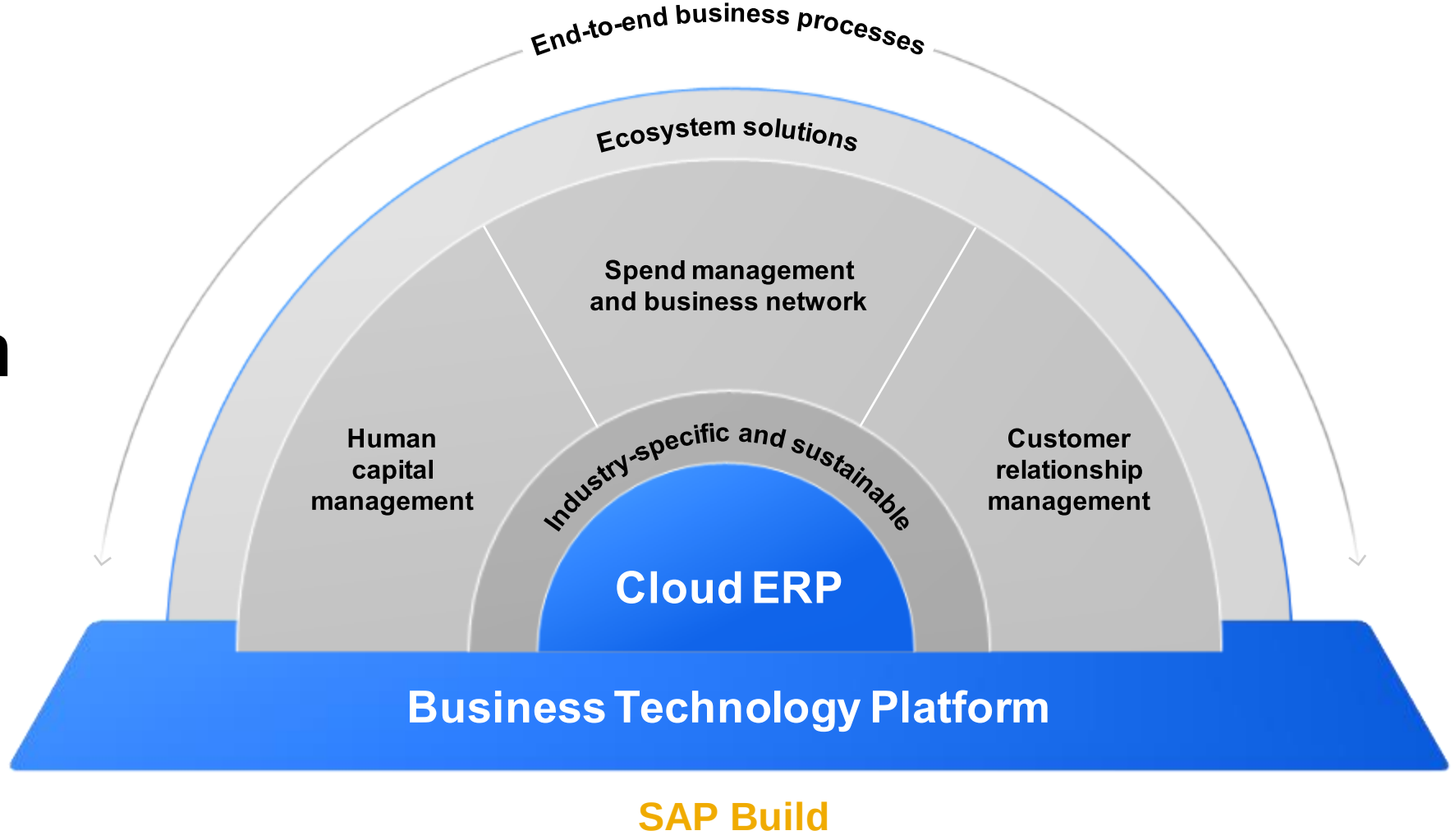
# Enable every enterprise to become an intelligent, sustainable enterprise

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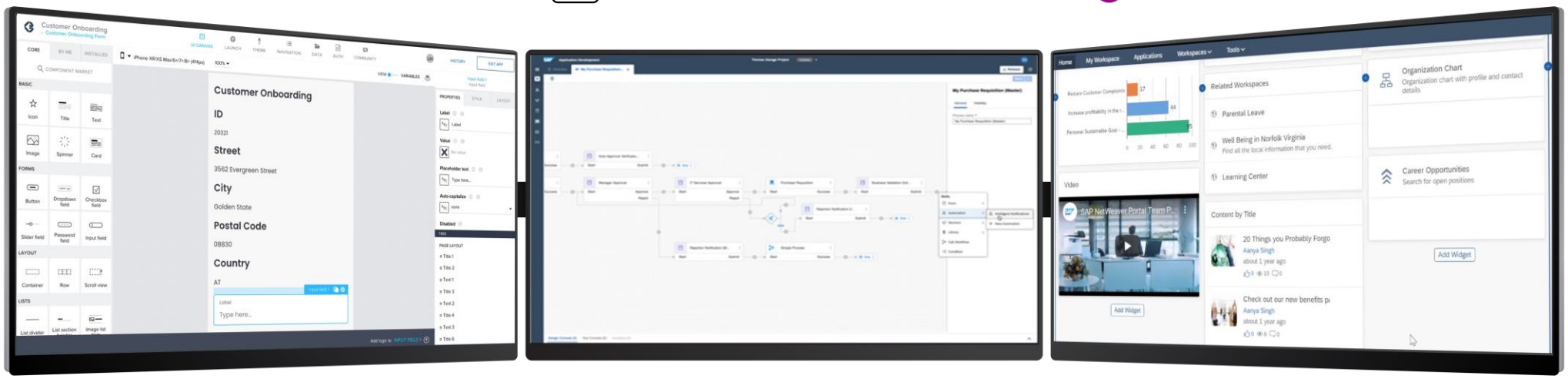
# SAP Build

Create and augment enterprise apps, automate processes, and design business sites, all visually

Compose apps

Automate processes

Design business sites




SAP Build Apps

SAP Build Process Automation

SAP Build Work Zone

**Build visually**

**Integrate smoothly**

**Collaborate effectively**

**SAP Business Technology Platform**

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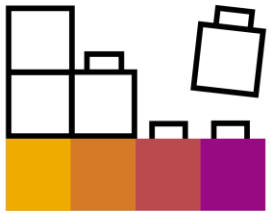
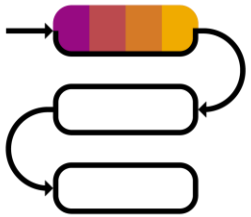
## SAP Business Technology Platform

### SAP BUILD

**Work Zone**



**Apps**



**Process Automation**

### CODE-FIRST TOOLING

**SAP Business Application Studio**

*Java, JavaScript*

**ABAP Platform**

SAP Cloud Application Programming Model
SAP Mobile Services, SAP Fiori Elements, SAPUI5 ...

**Low-Code/No-Code**

**Pro-Code**

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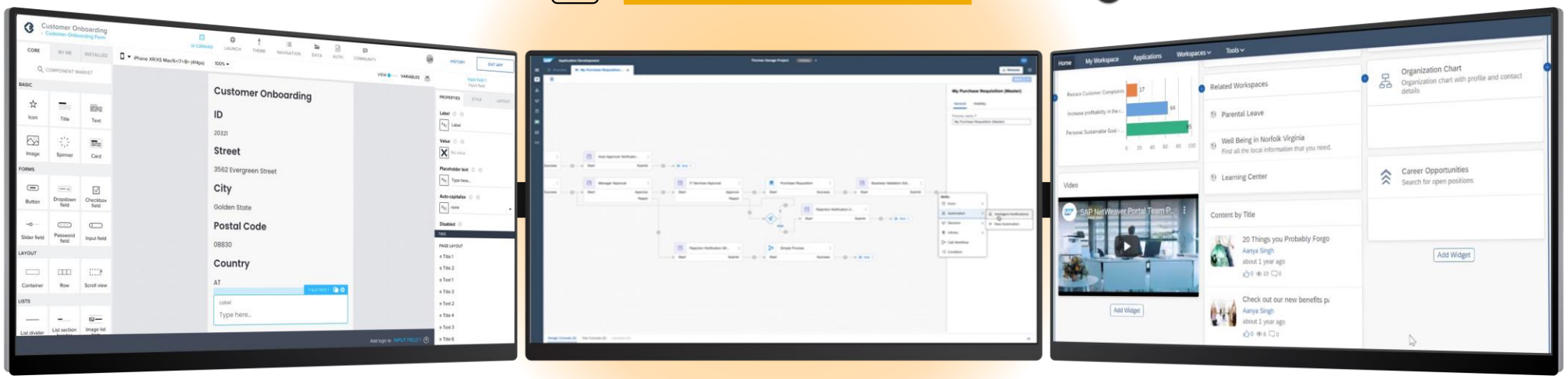


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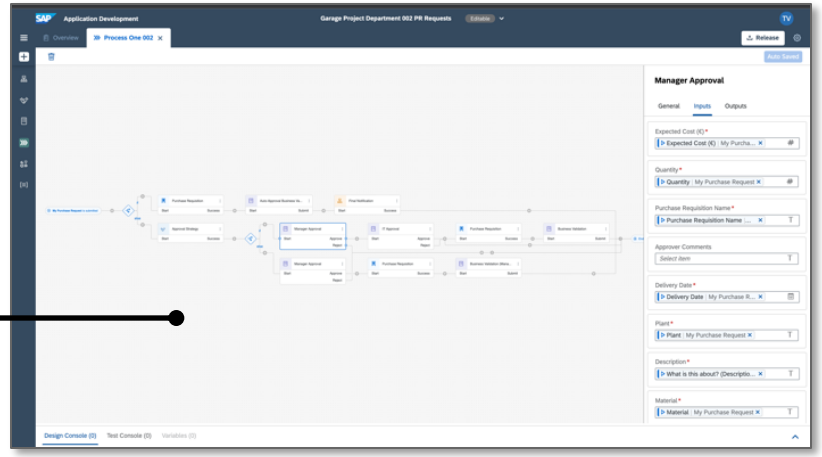
# SAP Build Process Automation

Automate more simply, more quickly, and more confidently

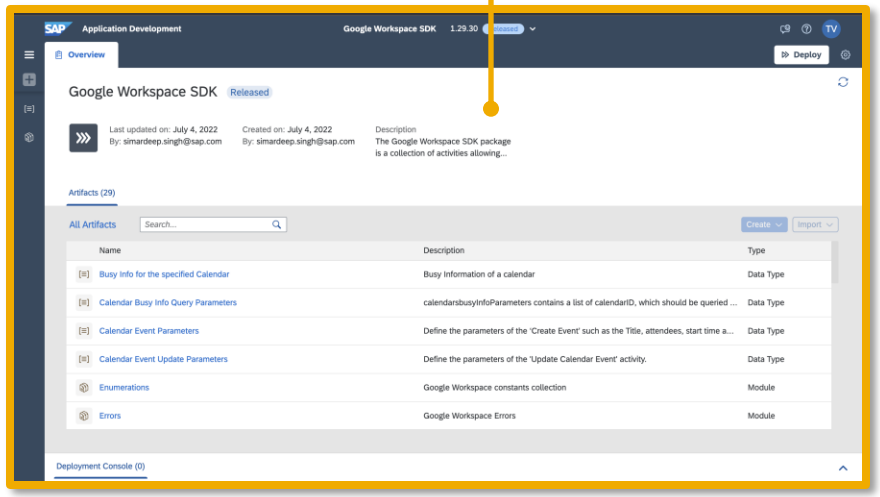
Process Builder

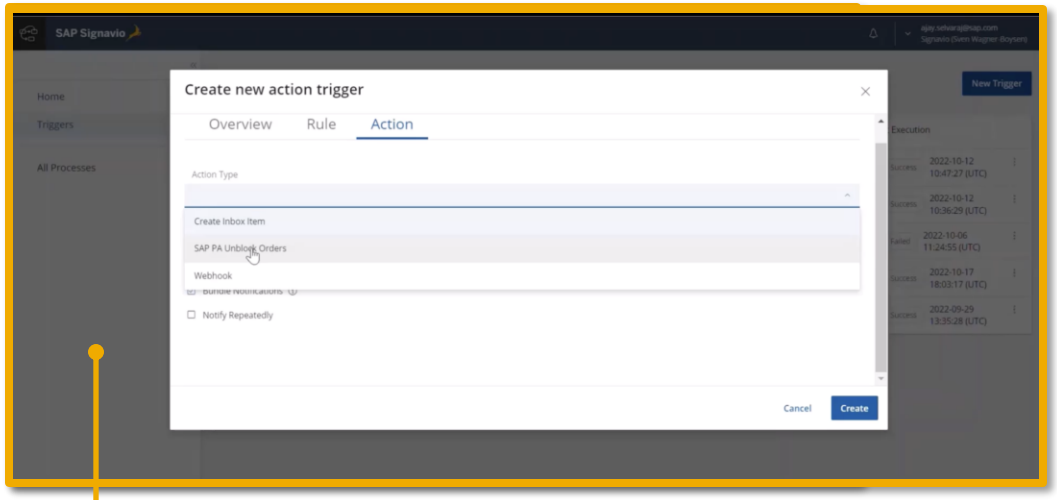



One **process builder** combining workflow, forms, rules, robotic automations, and visibility in a straightforward, intuitive modeling language

**NEW:** Google Workspace SDK

Google Workspace




**NEW:** Integration with SAP Signavio

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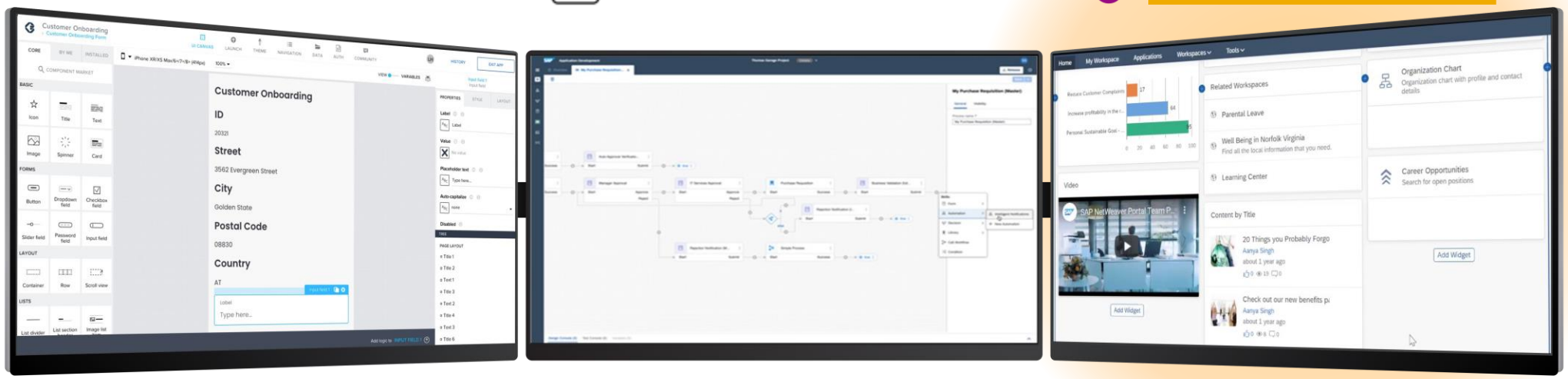


SAP Build Apps

SAP Build Process Automation

SAP Build Work Zone

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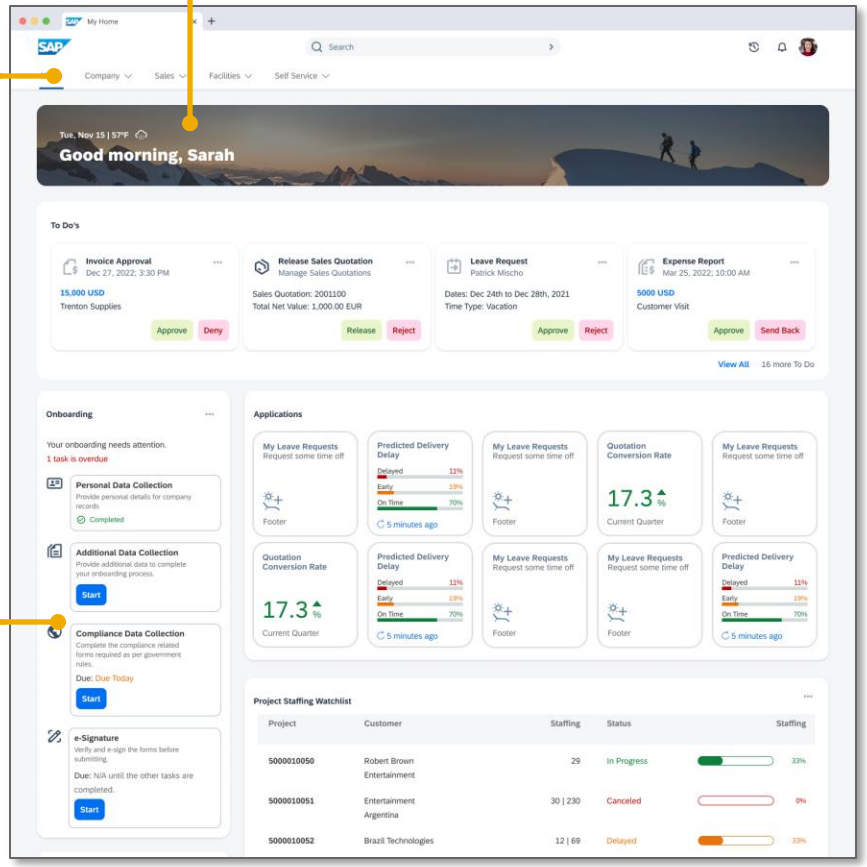
# NEW: SAP Build Work Zone Editions with common foundation

Improving productivity leveraging two harmonized solutions

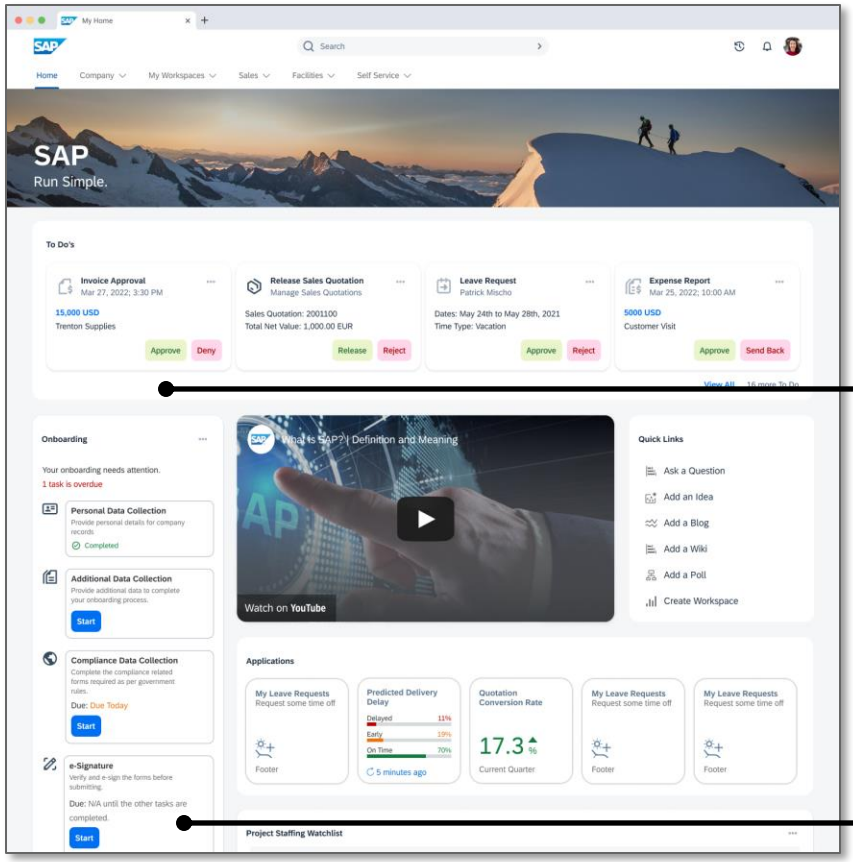
**NEW:** Flexible page builder

**NEW:** Navigation menu accessing remote and local pages

**NEW:** Custom apps and UI Cards




SAP Build Work Zone, Standard




SAP Build Work Zone, Advanced

Self-Service Onboarding for SAP Cloud Identity

UI Integration Card Context Awareness

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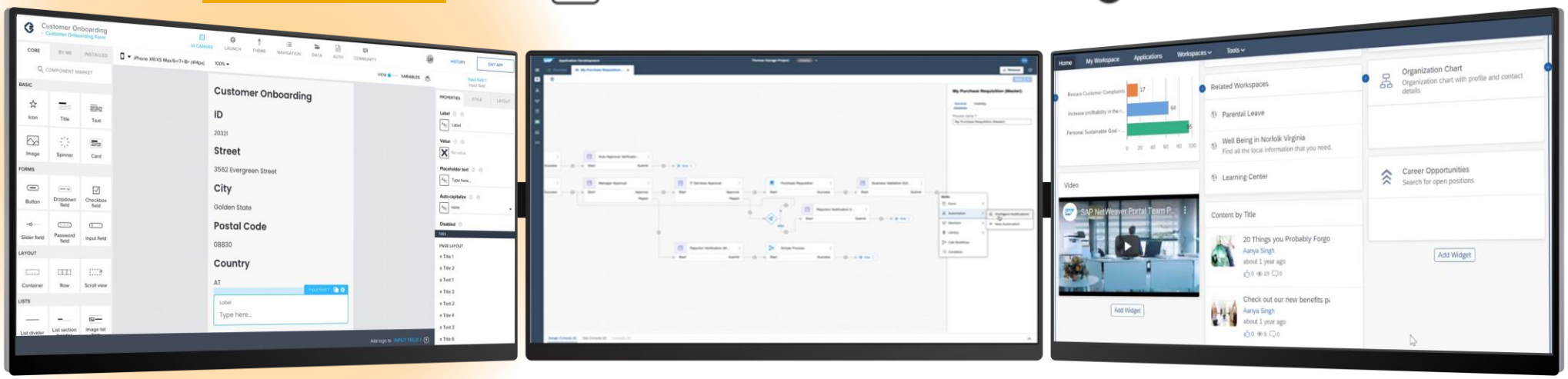


SAP Build Apps

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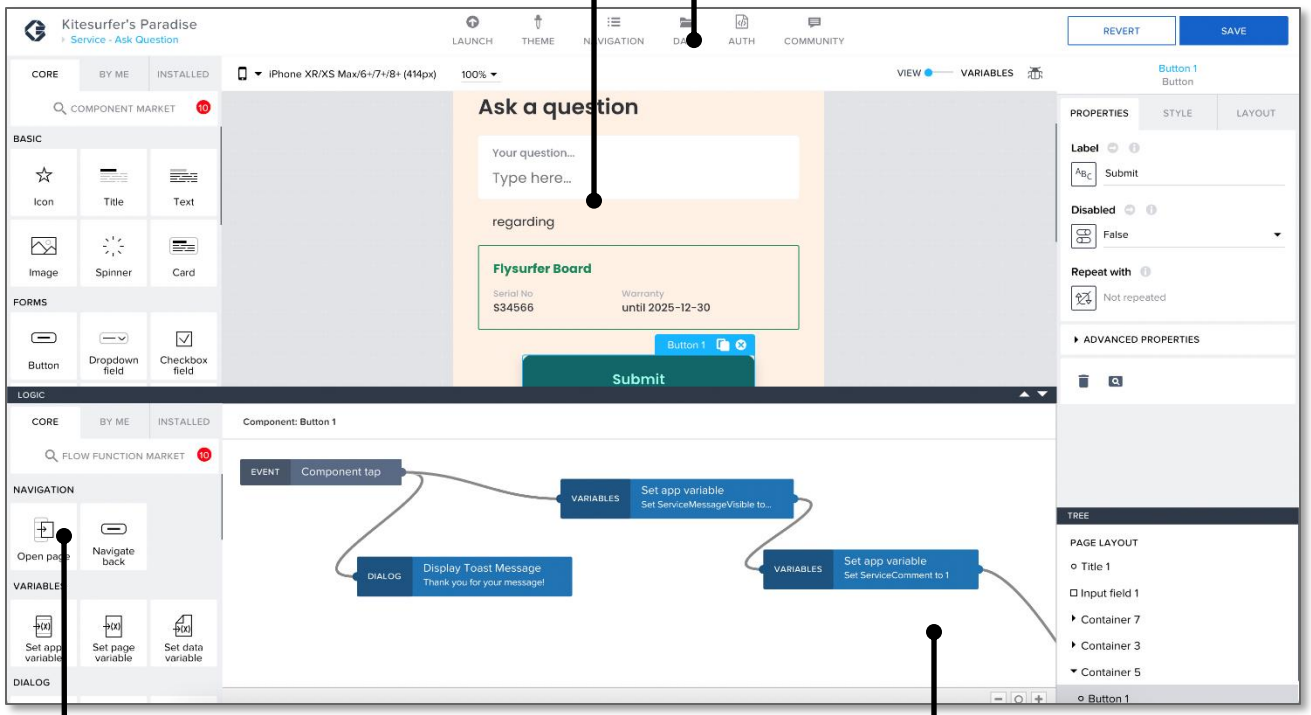
# SAP Build Apps

Powerful features for full-stack visual development

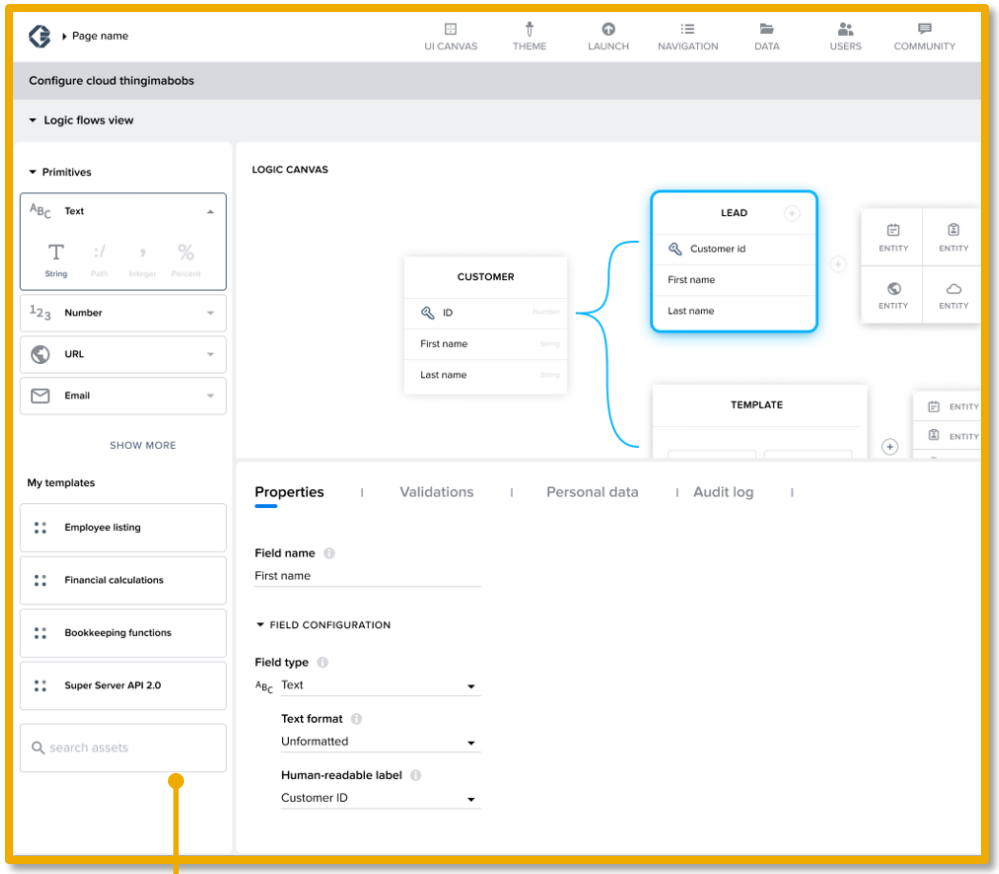
Drag & Drop UI Design

Formulas for data transformation and API connectivity




Customizable components and 400+ built-in formula functions

Visual business logic




**NEW: Visual data modeling with visual cloud functions**

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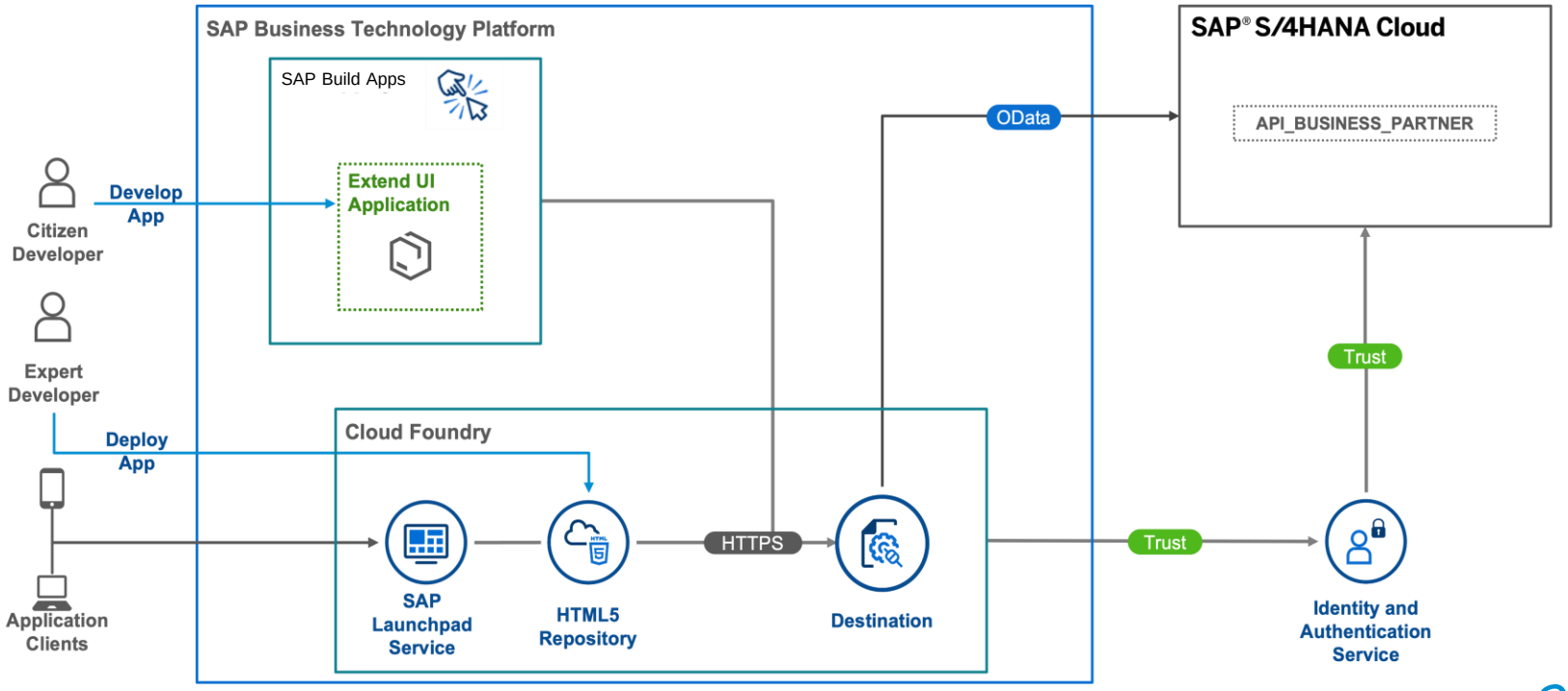
# Demo

# Extension scenario

## Use SAP Build Apps to build Side-by-Side UI Extensions for SAP S/4HANA

Example scenario: a sales executives meets different business partners and needs access to the latest business partner information on the go. They need a simplified, custom UI application which can run on a mobile device or tablet.




Check out the SAP Discovery Mission

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# Extension scenario

## Use SAP Build Apps to build Side-by-Side UI Extensions for SAP S/4HANA

1. Create a new page for the user interface
2. Add BTP Authentication
3. Connect the app to S/4 HANA Cloud system
4. Select the data set we want to use
5. Connect the data to UI via data variables
6. Decide which data we want to see listed
7. Preview the newly created web application

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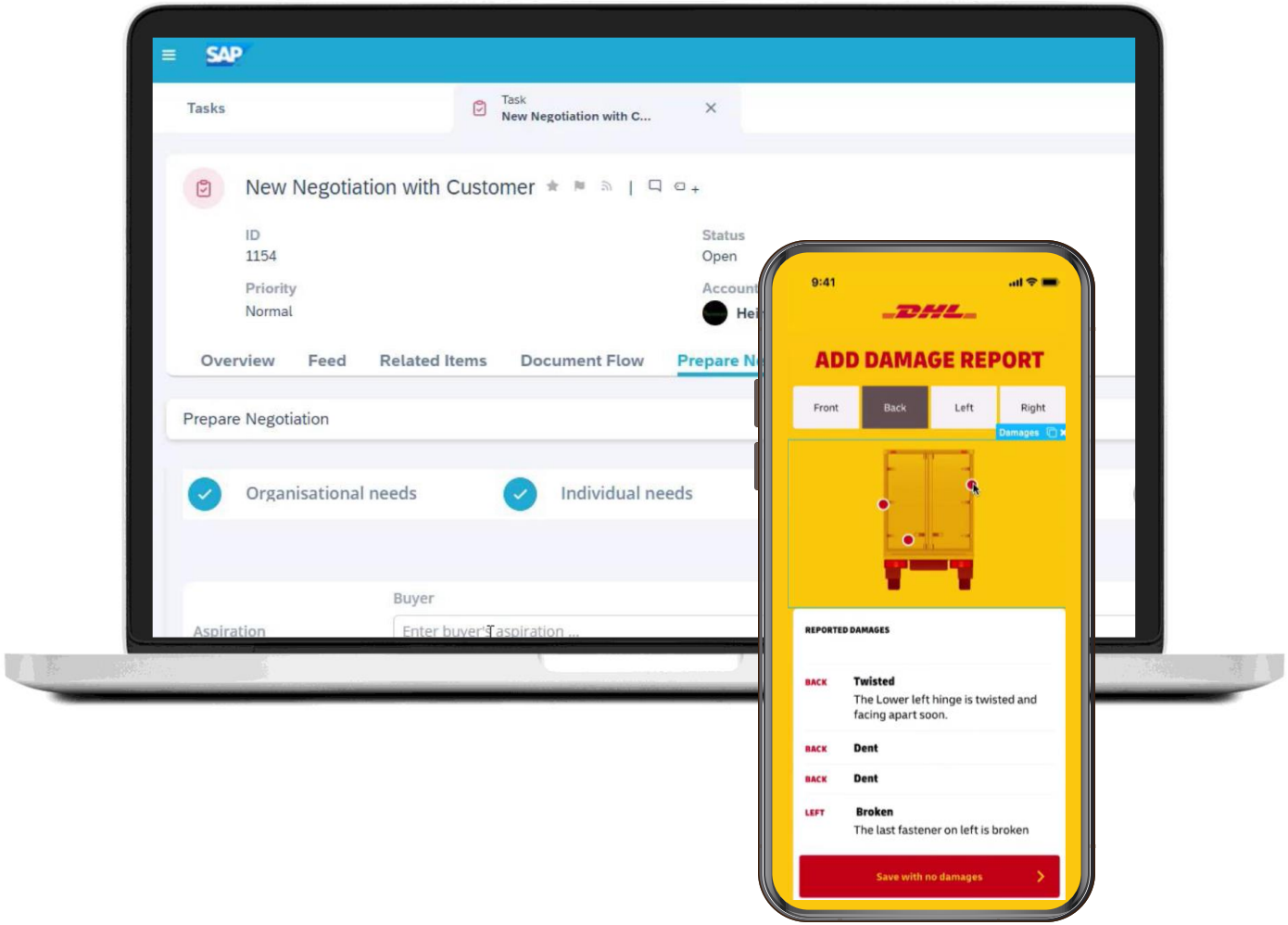
# SAP Build Apps Use Cases,

## Integration with SAP Solutions for Rapid Customer Innovation




| CX | SuccessFactors |
| --- | --- |
| Customer Self Service<br>Field Service App<br>Negotiation Methodology<br>Calculate Churn Rate | Recruiting App<br>Vaccination Certification<br>Calculate Workforce Seniority |
| Supplier Sustainability<br>Invoice Accuracy | Expose Available to Promise to Partner<br>Calculate Capacity Utilization |
| **Ariba** | **S/4HANA** |

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# Start exploring SAP Build Apps today

## How to test?

| | SAP Build Apps Sandbox | SAP BTP Free Tier Model |
|---|---|---|
| Costs | **0 EUR** | **0 EUR** |
| Test duration | 30 Days | No limitation |
| Usage limitation | • Only for test purposes<br>• BTP integration features can't be tested as no access to SAP BTP is available<br>• No integration to SAP Build Workzone or SAP Build Process Automation<br>• Sharing of Projects isn't possible<br>• No Deployment of Apps only Preview possible | • Only for test purposes<br>• Limited to one instance per global account.<br>• 2 Successful standalone builds per platform (Android, iOS) for each of your apps. Errored builds do not count against the quota.<br>• Cloud functions instance will be stopped at regular intervals and when inactivity is identified.<br>• Storage 64 MB per instance |
| Switch to productive model | You can't switch from the same SAP BTP Global account to a paid plan – you have to re-configure everything on a new SAP BTP account | You can switch from the same SAP BTP Global account to a paid plan |
| Availability | SAP BTP EU10 only | SAP BTP EU10 and US10 |
| Access requirements | Email address | • Email address, mailing address and phone number<br>• Credit card number is necessary |
| Blog or link to access SAP BTP | • Link to the sandbox<br>• Announcing the SAP Build Apps Sandbox - SAP Community Groups | https://blogs.sap.com/2022/11/25/sap-build-apps-free-tier-individual-access/ |

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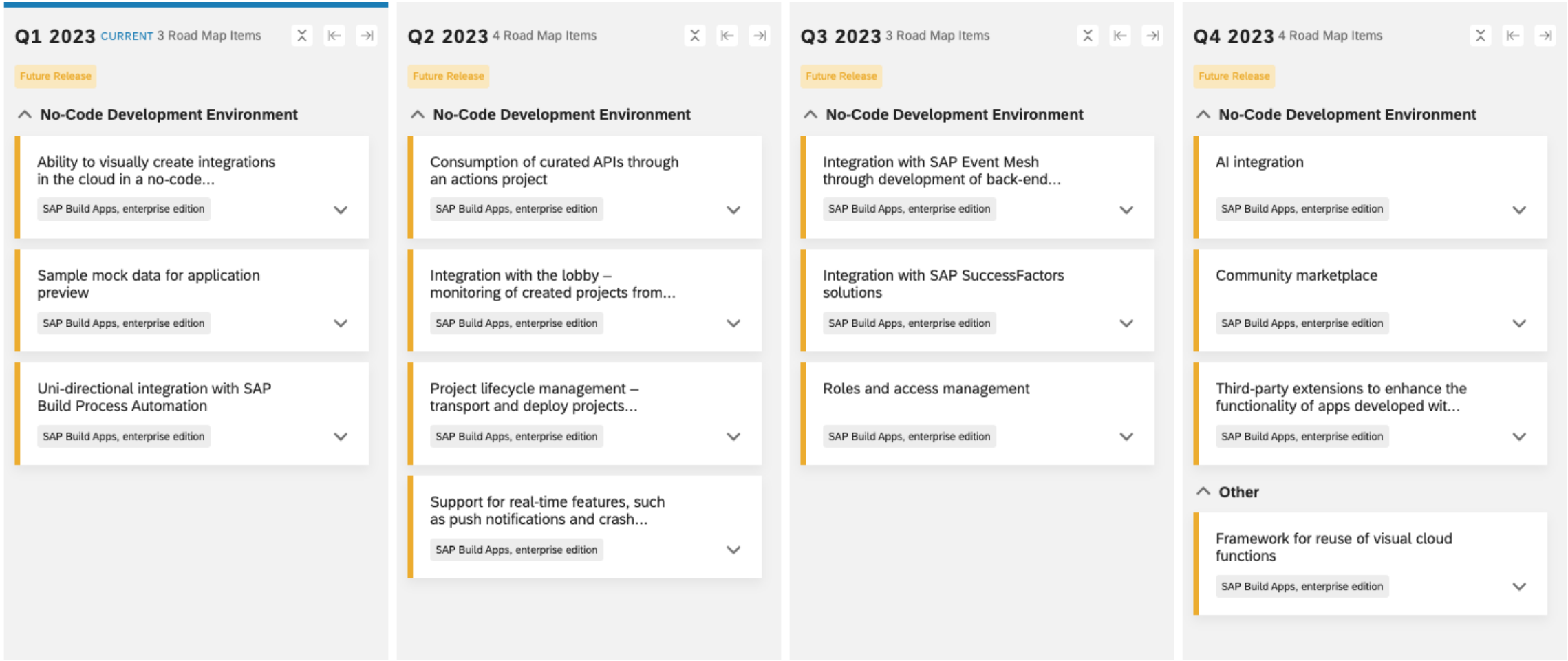
# Roadmap

# SAP Build Apps | External Roadmap

Link to Roadmap Explorer

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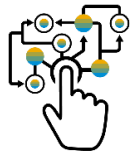
# SAP Build Roadmap 2023: How the low-code superpower will evolve

Continued investment in best-in-class low code app development and automation features

## Automate your business



Continuous process flow, orchestration and automation enhancements with managed complexity for SAP and non-SAP and market-leading simplicity

Embedded AI and Process Intelligence such as intelligent approval recommendations, content recommendations, AI decision design

## Build apps faster

Continuous No-Code developer experience to visually create and build beautiful consumer grade and secure Apps both frontend and biz logic with Visual Cloud functions

Data capabilities enhancements and Integration expansion to easily build data driven and intelligent Apps

## Design business sites with ease

Run a central entry point and enhance the SAP user digital experience with a common foundation between SAP Start and SAP Build Work Zone

Increase business agility with improved business user administration capabilities to easily manage multiple personalized business sites

## Deeper SAP Application Integration

Seed Low-Code extension tools for SAP Business Apps CX, HXM, S/4HANA and Intelligent Spend Mgt, support Buying360 and SFSF Guided Experiences

Enhanced Action Builder with semantic discovery and configuration of APIs and library of Action content for simple integration with SAP Graph & SAP API Business Hub

## Business Accelerators & Content Packages

Industry-specific and LoB content for HXM, CX and Procurement packages and templates to accelerate adoption

Amplify collaboration with a Unified Store and Marketplace for SAP, partners and customers to discover, purchase and consume content and templates

## Governance for IT Admins

Empower citizen developers to build applications that are safe, secure while being compliant with IT

Govern key stages of the project lifecycle, strengthen collaboration in fusion teams, enable consistent life cycle management and monitoring

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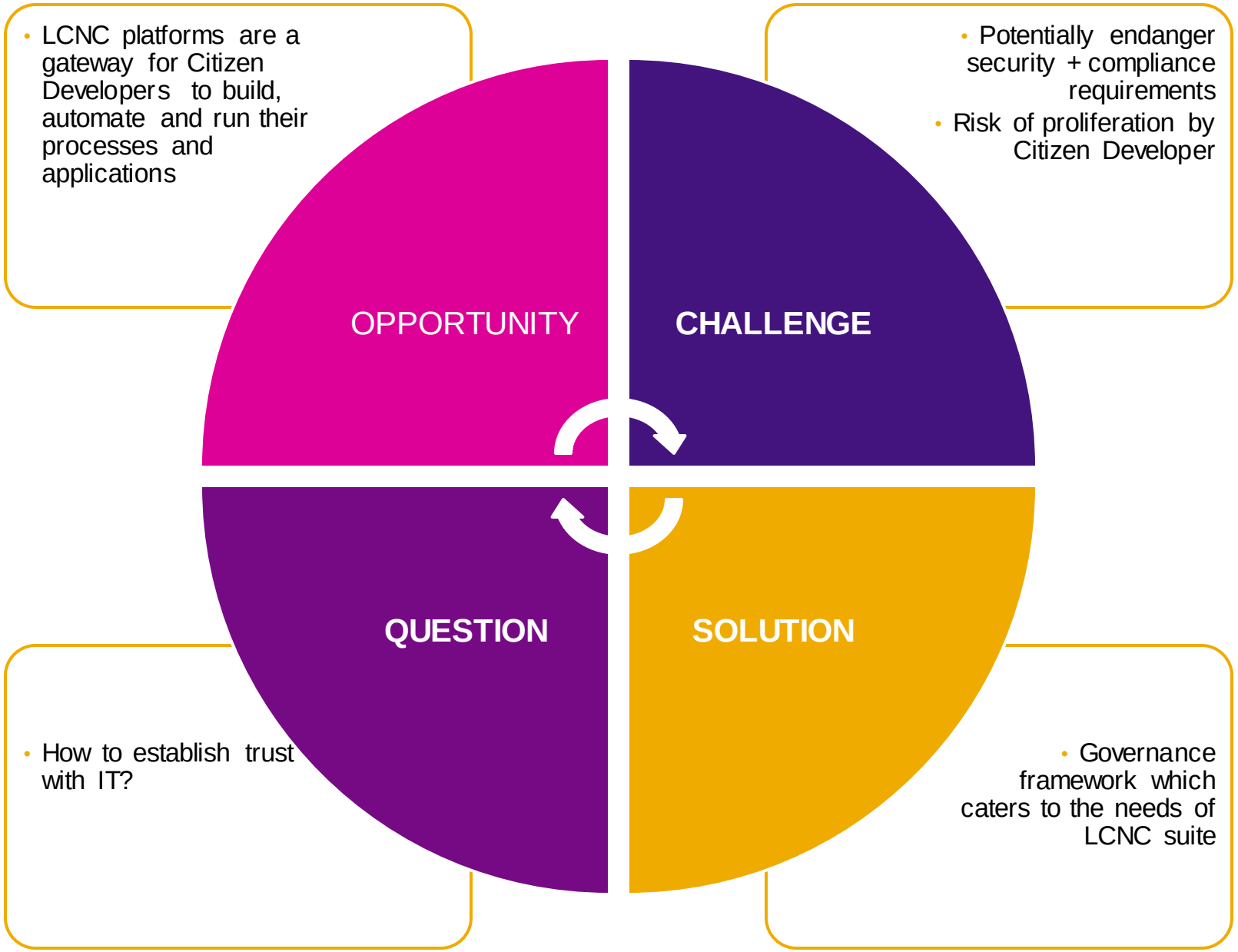
# “With great power comes great responsibility”

- Low-code tooling is revolutionizing the application and process development experience
- Critical need to need to counter shadow–IT with good governance
- SAP enables every enterprise to be a robust, extensible, secure and compliant enterprise

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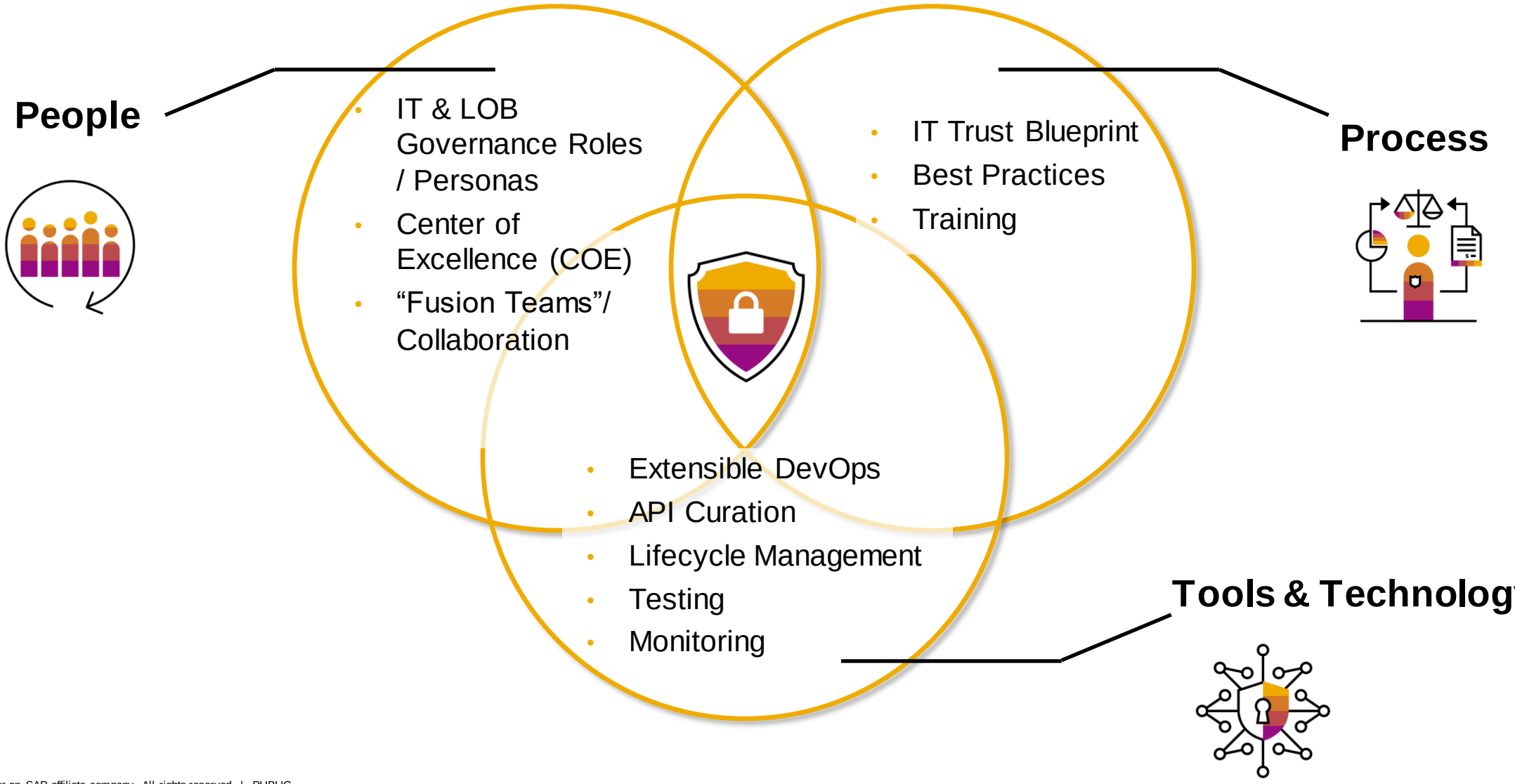
# IT Trust | Governance Triad

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# Become an SAP Builder

Utilize SAP Build for Low-Code / No-Code Applications & Automations for Citizen Developers

## Learning Journey for Business Experts

**SAP Learning**

**Unit 1:**
Become a Citizen Developer with SAP Learning

**Unit 2:**
Developing a Process with SAP Build Process Automation

**Unit 3:**
Compos-ing a No-Code Mobile App with SAP Build

**Unit 4:**
Developing a No-Code Extension with SAP Build Apps

**Unit 5:**
Creating a Business Site with SAP Build Work Zone

**Unit 6:**
Continuing Your Citizen Developer Learning Journey

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# Why SAP Build

Bringing business & IT together to deliver new innovations

**Enhanced ROI** by optimizing existing investments using simplified integrations from SAP

**Increased adoption** of new processes and applications

**Accelerated time to value**, using support for best practices with industry- and LoB-specific prebuilt content

**Maximized speed and agility** through accelerated delivery

**Greater collaboration** through co-development between business and IT

**Reduced total cost** of development

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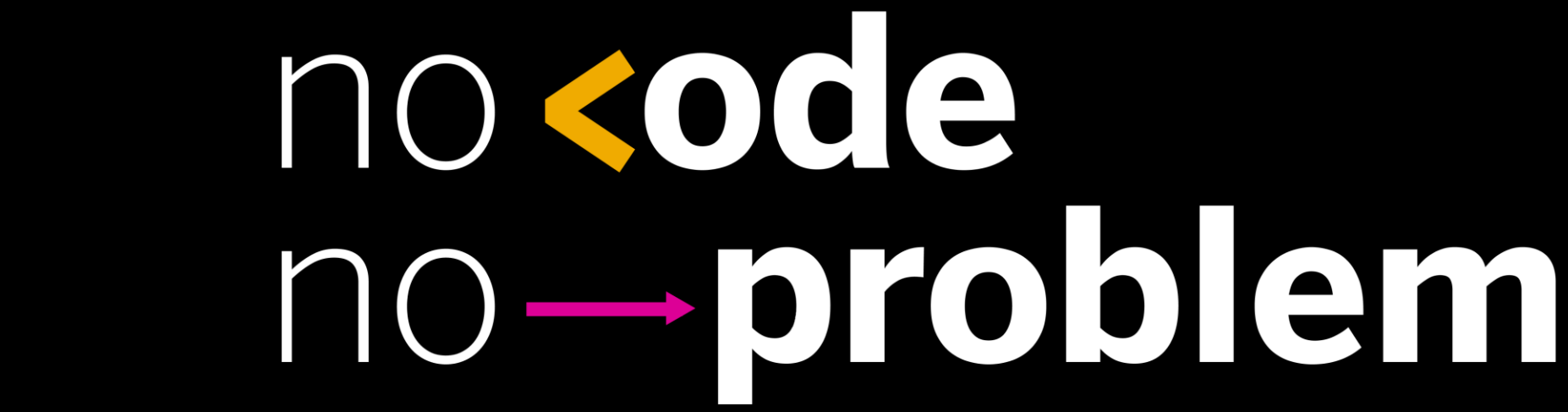
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