



SAP

Low-Code / No-Code

Tools

Dietmar Steinbichler
SAP Solution Advisory



Volatile
Markets



Limited
Resources

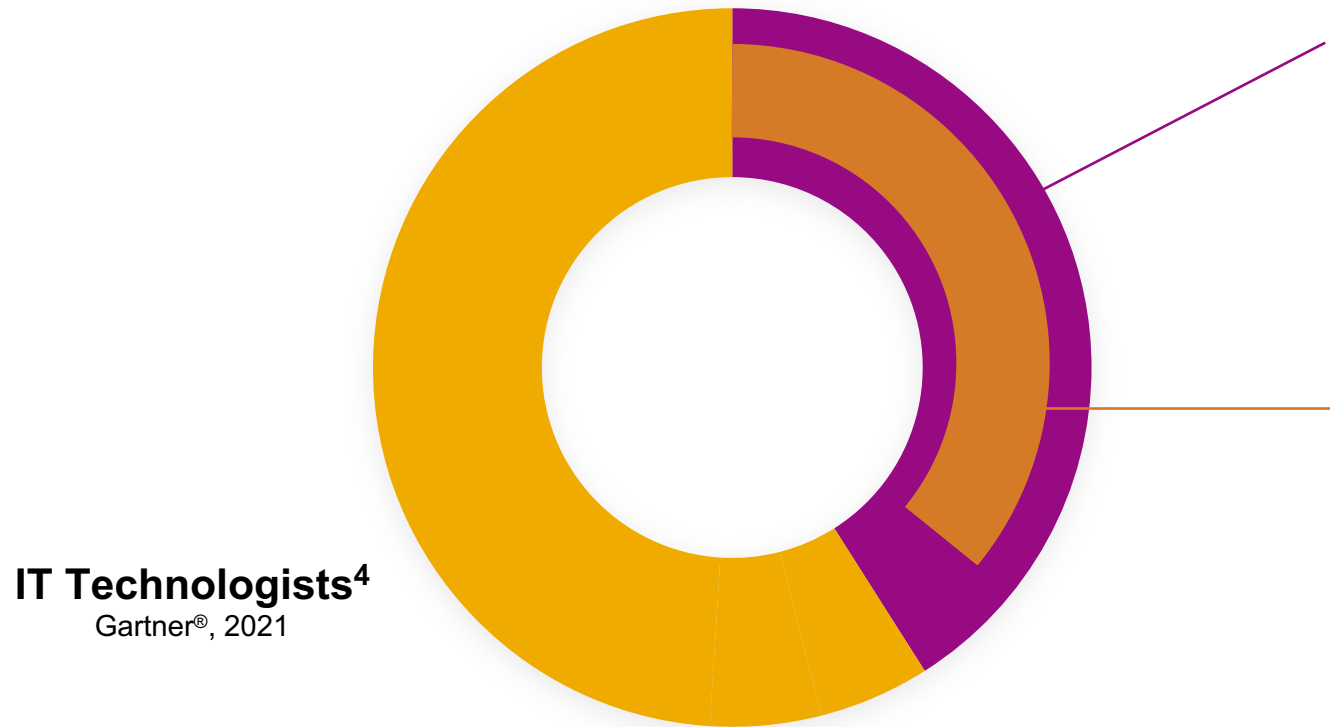


Complex
IT Landscapes



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

Enabling Citizen Development in Organizations to Increase Business Resilience



IT Technologists⁴

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

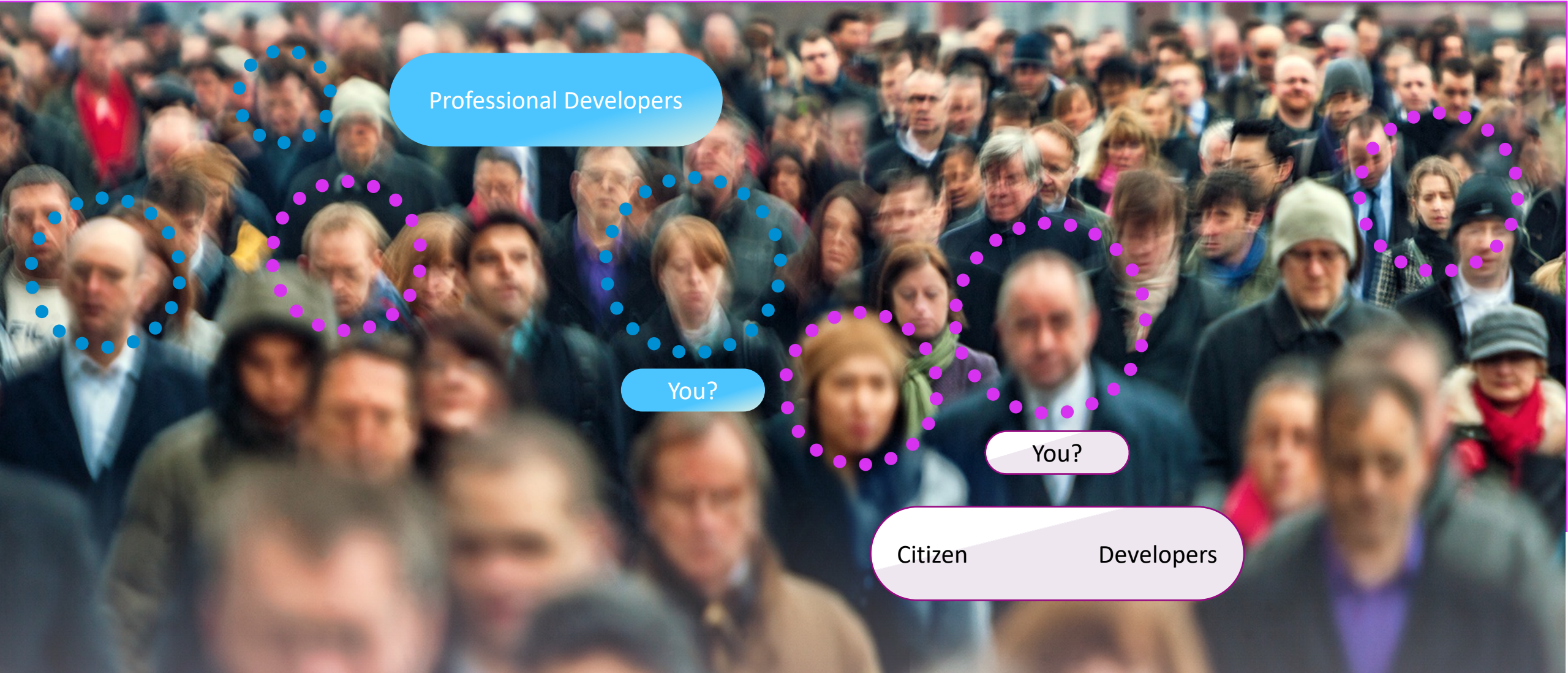
“About **80%** of these users are **citizen technologists** who create technology output as part of (or in addition to) their full-time roles (...). These non-IT personas can independently use **low-code and no-code** technologies to improve business efficiency, efficacy and agility.”⁴

Gartner®, 2021



Low-Code/No-Code increases the number of people in an organization that can deliver new apps and extensions and tackle business challenges

4. Gartner, Innovation Insight for Citizen Automation and Development Platforms, Keith Guttridge, Saikat Ray, Jason Wong, 24 September, 2021.
Charts/graphics created by SAP based on Gartner research. Source: Gartner, Inc., Innovation Insight for Citizen Automation and Development Platforms, Keith Guttridge, Saikat Ray, Jason Wong, 24 September, 2021.
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Professional Developers

You?

You?

Citizen

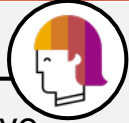
Developers

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

Meet the Growing Application Need

Scale development by empowering more employees

Professional developer

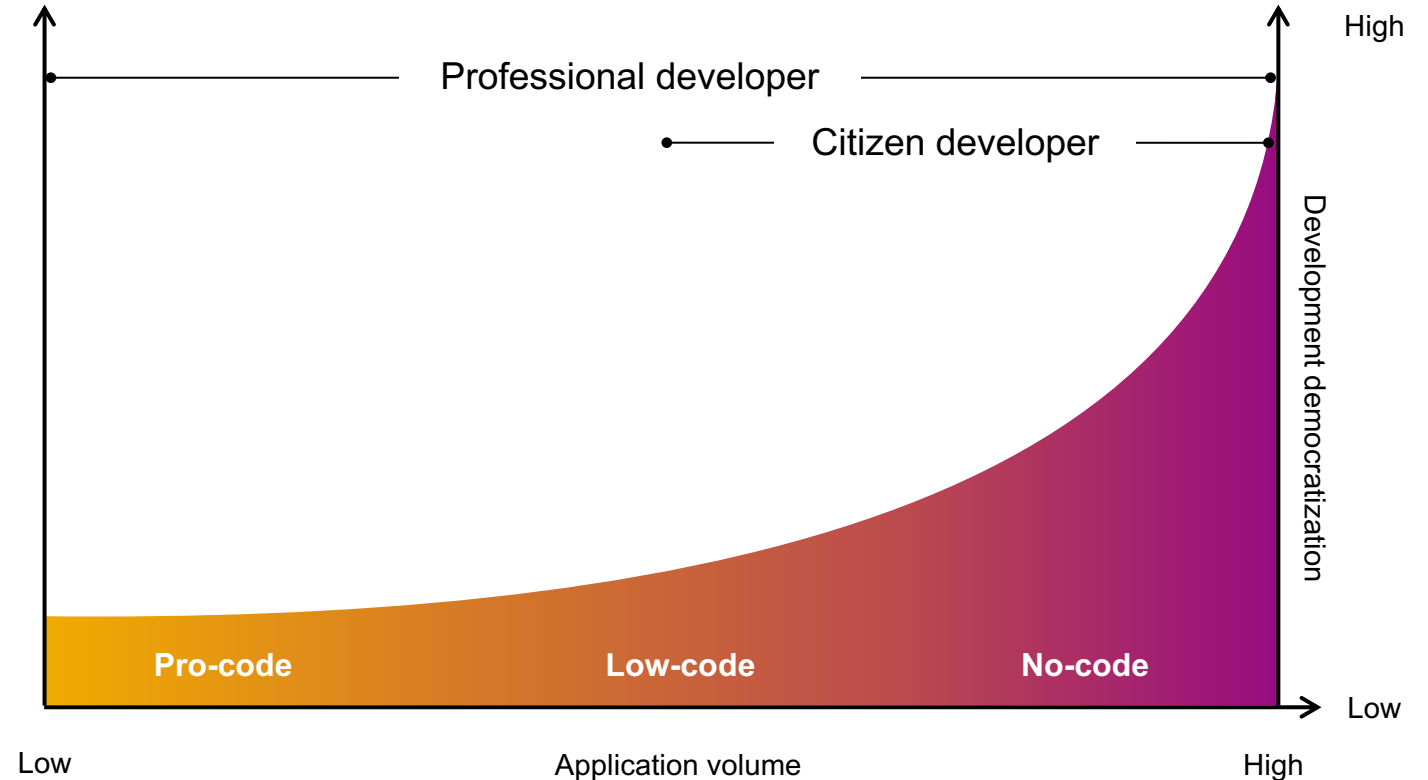


- Uses tools of choice to create cloud native applications and reusable services
- Designs, develops, deploys, tests, and hands over to production
- Understands the concept of a development lifecycle, testing, and versioning
- Ensures governance and security

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





Build Visually



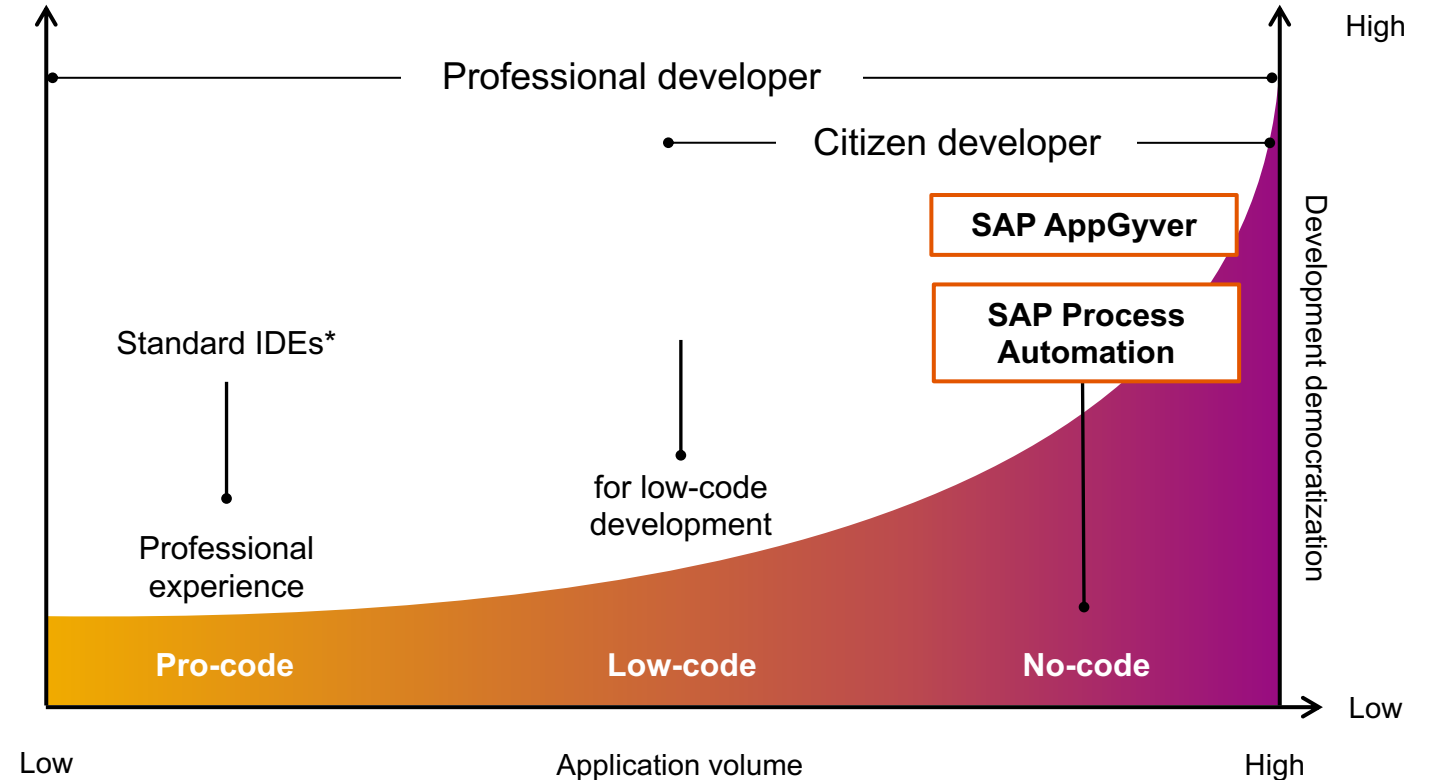
Integrate Seamlessly



**Scale Without
Compromise**

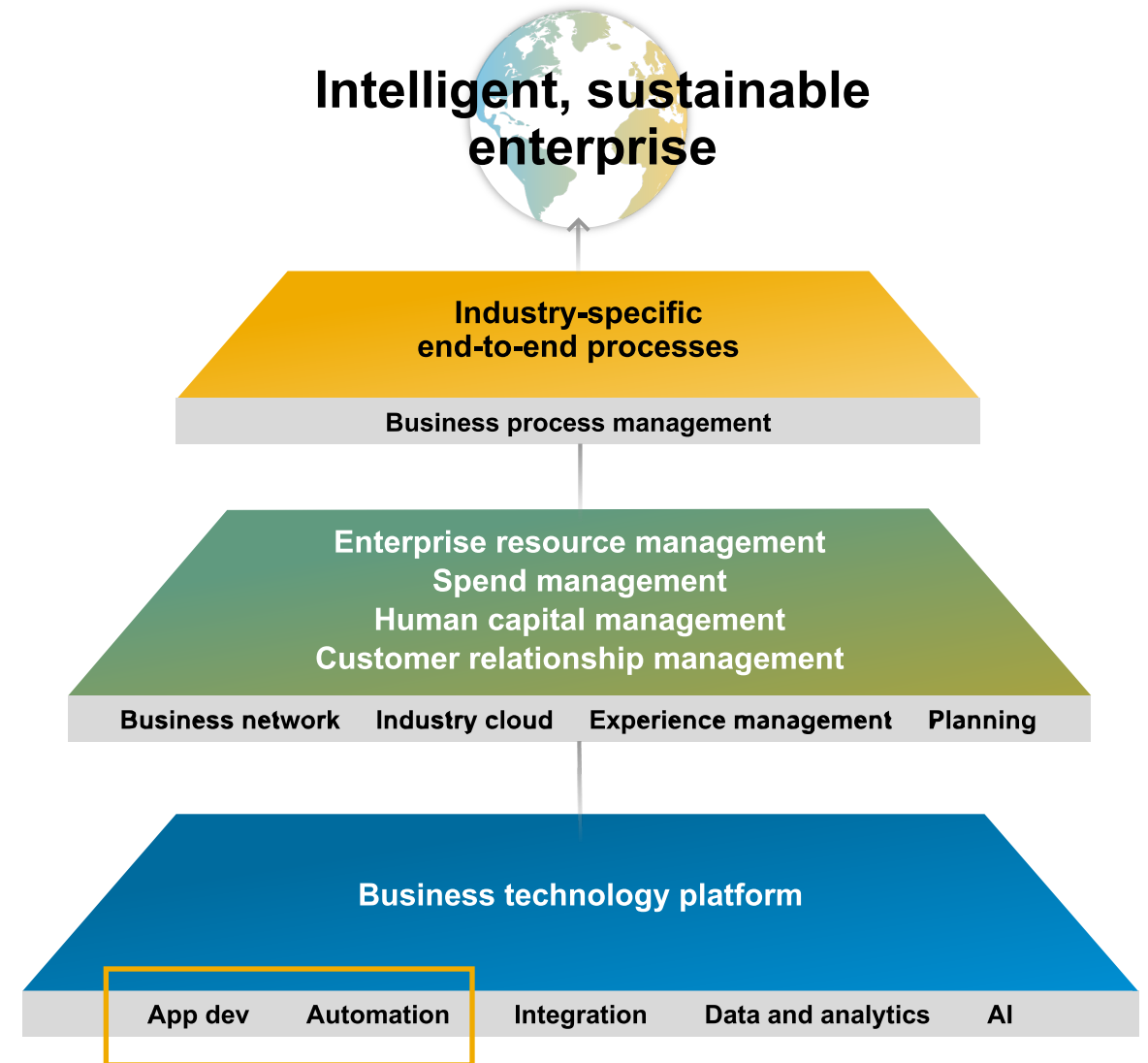
Create and Deliver Enterprise Applications Faster

No Matter the Skill Level

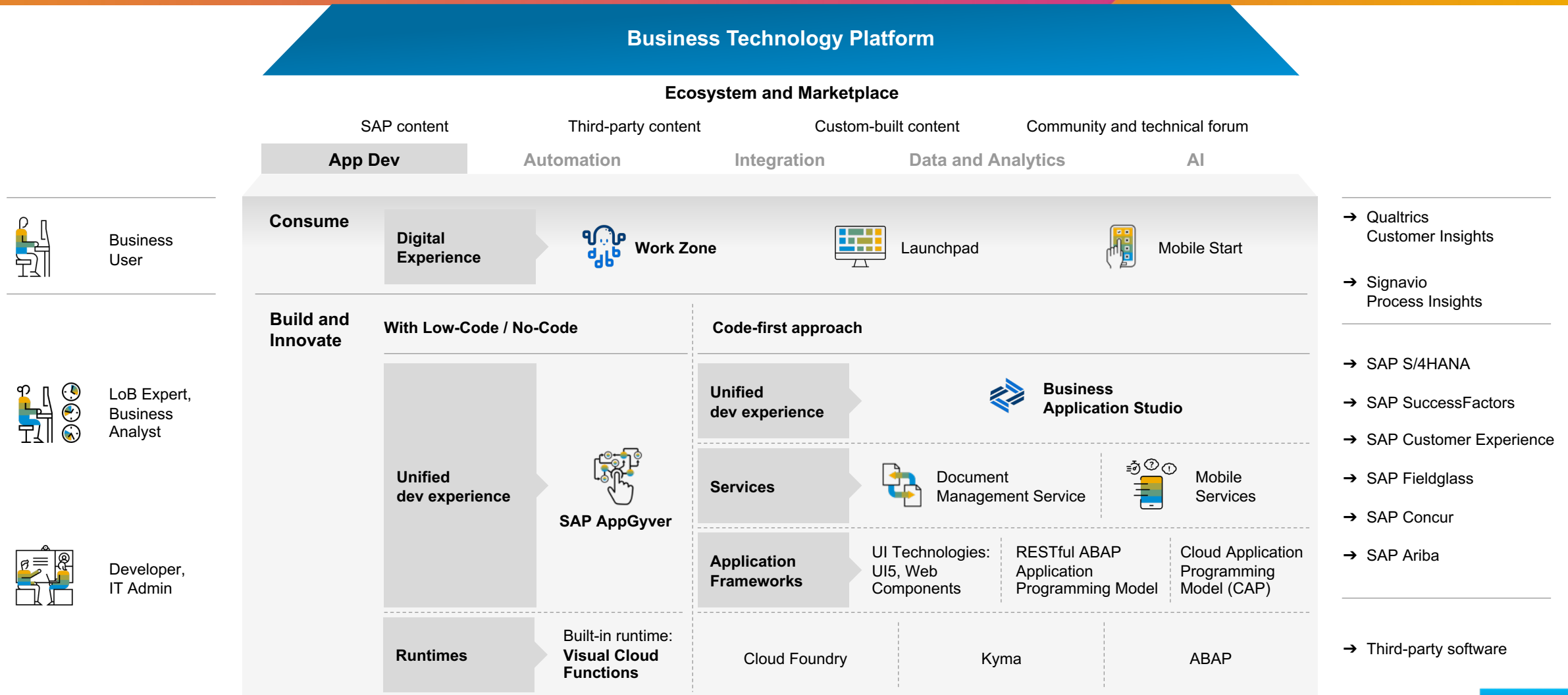


*i.e., VS Code + extensions

Enable every enterprise
to become an **intelligent,
sustainable enterprise**



BTP Application Development – SAP AppGyver



Introducing SAP AppGyver

Boost Application Development with low-code/no-code capabilities

SAP AppGyver



Empowers citizen and professional developers to deliver pixel-perfect standalone apps and extensions in a full no-code composition environment

Low-Code/No-Code Application Development



Stand-alone and SAP
App Extensions



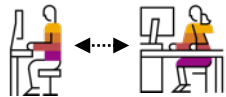
Extensive UI Component,
Theming and Layout,
Fiori, native web



Service modeling w/
simplified cloud application
programming model



Service center for API
discovery &
consumption



Development continuum
Citizen Dev → Pro Dev



Multi-channel
Support, Mobile & Web

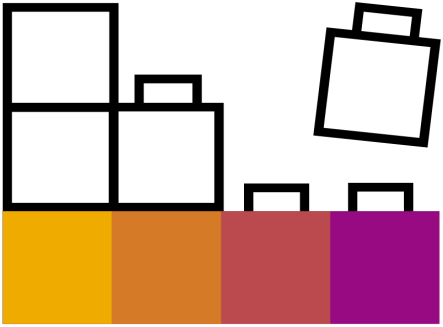


Visual process
management &
Business Logic



Enterprise Grade
DevOps governance on
BTP

Boost development agility and unleash innovation



SAP AppGyver

The No-Code Approach

Increase development efficiency while eliminating coding effort. Build full-stack apps intuitively for Web, iOS and Android.



- Simplified creation of UI's with **drag-and-drop functionality**
- Integration with external data using **predefined integrations** and custom connectors
- Ability to create any logic with **flow functions**



- Support for over **400 built-in formula functions**
- **Vast enablement opportunities and community** support to help no-coders get started to rapidly create and distribute sophisticated enterprise apps



- **Visual cloud functions** empower users to assemble full-stack apps with data models and business logic, without writing code
- Easily **compose APIs** with the same no-code paradigm used for the front-end



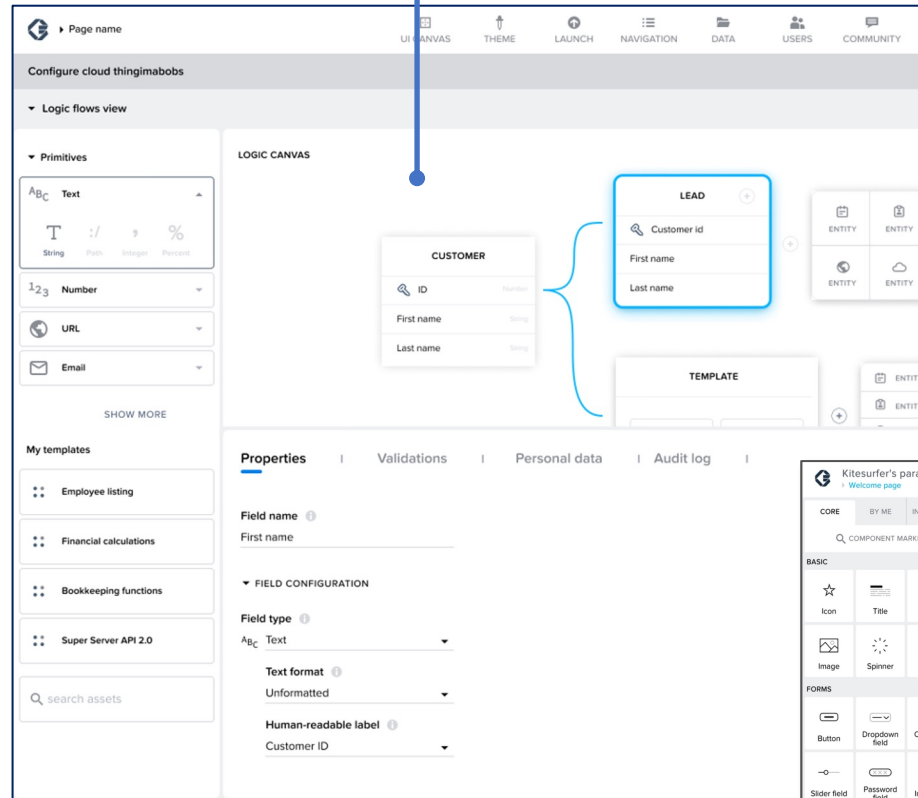
- Trusted by Fortune 500 companies and **more than 300,000 users**

Key Capabilities of SAP AppGyver

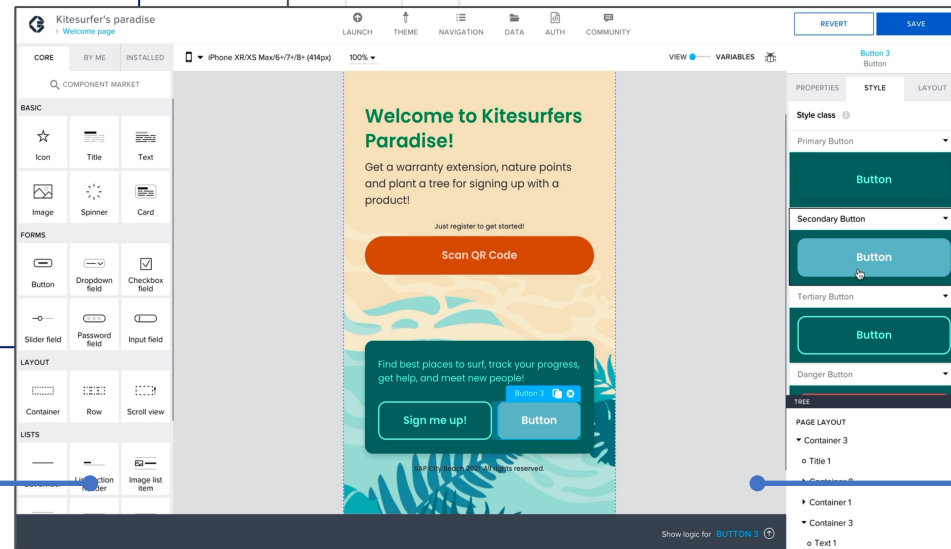
Powerful Features for Full-Stack No-Code Application Development

Visual data modelling

with Visual Cloud Functions*

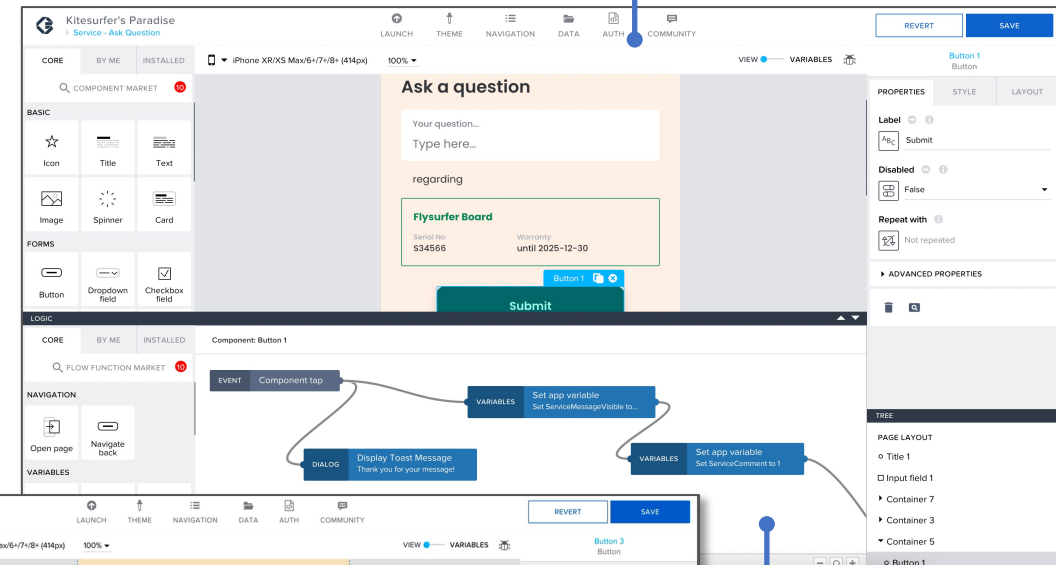


No-Code Drag & Drop UI with customizable components



Formulas for Data Transformation

REST and OData API connectivity



Visual Business Logic

Multiplatform Support



*Q4 release see [SAP AppGyver Roadmap \(Items 1 and 2\)](#)

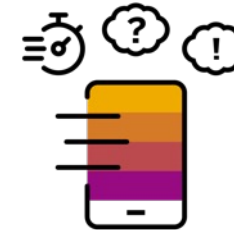
SAP AppGyver common use cases



Fast Mobile App Development



Easy Development of Web Applications



Rapid Prototyping and UI Testing



Extending Existing Apps and Systems



Developing Internal Business Apps for Operations



Meeting Software Demand in Niches

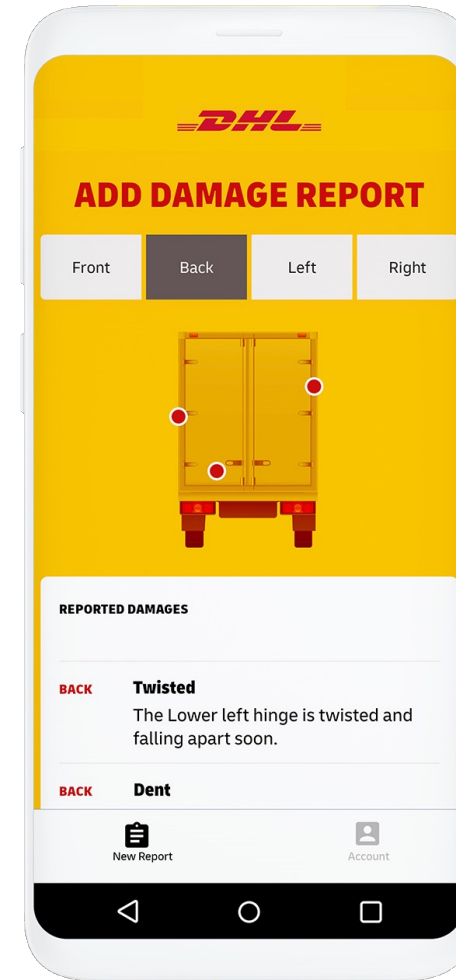
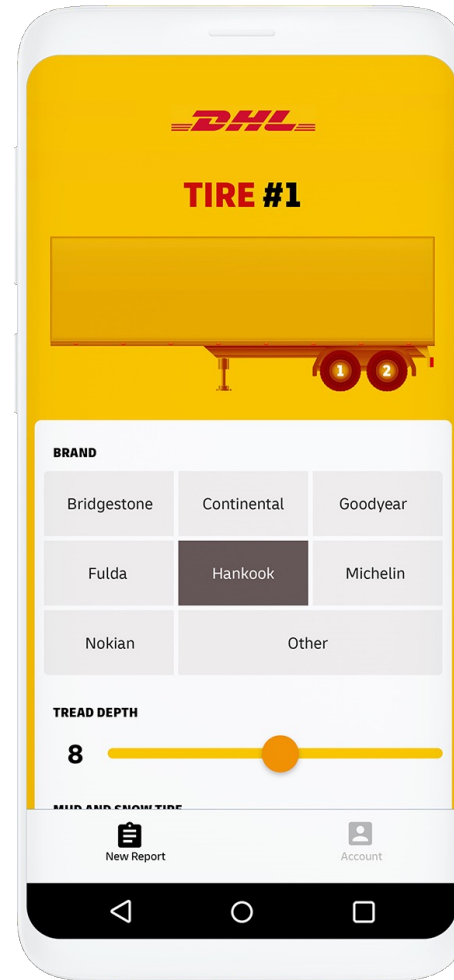
Customer Success: DHL Freight

Scaling European Fleet Management with One Application

Using SAP AppGyver, international logistics firm DHL Freight created an application to better manage damage reports for its trailer fleet across Europe. Created by a small team, the app increased the reliability of reporting while making inspections more convenient for employees in the field.

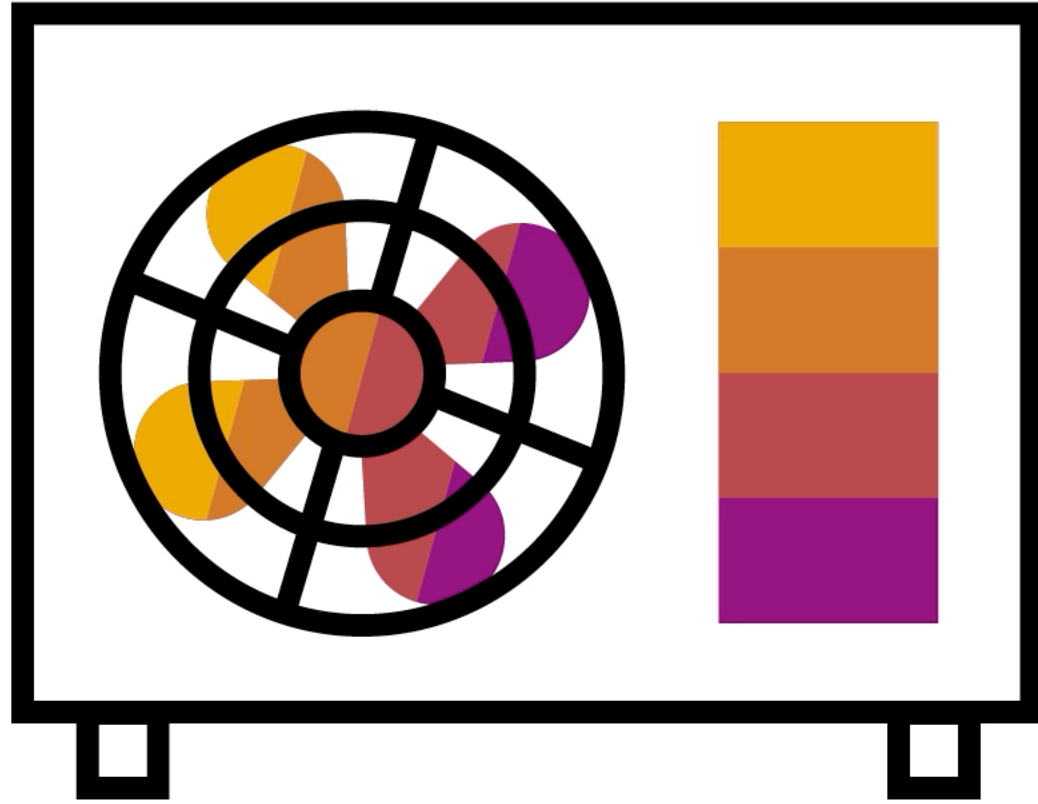
App features:

- Integration with the company's trailer fleet data
- Role- and region-based user authentication
- Localization to multiple languages
- Native iOS and Android apps, and a Web-based administrative interface



SAP AppGyver Demo





BTP Automation – SAP Process Automation

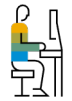
Business Technology Platform

Ecosystem and Marketplace

SAP content Third-party content Custom-built content Community and technical forum

App Dev **Automation** Integration Data and Analytics AI

SAP Process Automation



Business User

Consume

Process UI (Launchpad)



Forms



Task Center



Process Workspace

→ Qualtrics Customer Insights

→ Signavio Process Insights



LoB Expert, Business Analyst

Build and Automate

No-Code Process Design Studio



Process Builder



Store Content access

→ SAP S/4HANA

→ SAP SuccessFactors

→ SAP Customer Experience

→ SAP Fieldglass

→ SAP Concur

→ SAP Ariba



Forms & Approvals



Decisions



Actions



Automations



Process Visibility



Business Developer, Developer

Process Automation Runtime



Workflow



Business Rules



RPA



Automated Document Processing

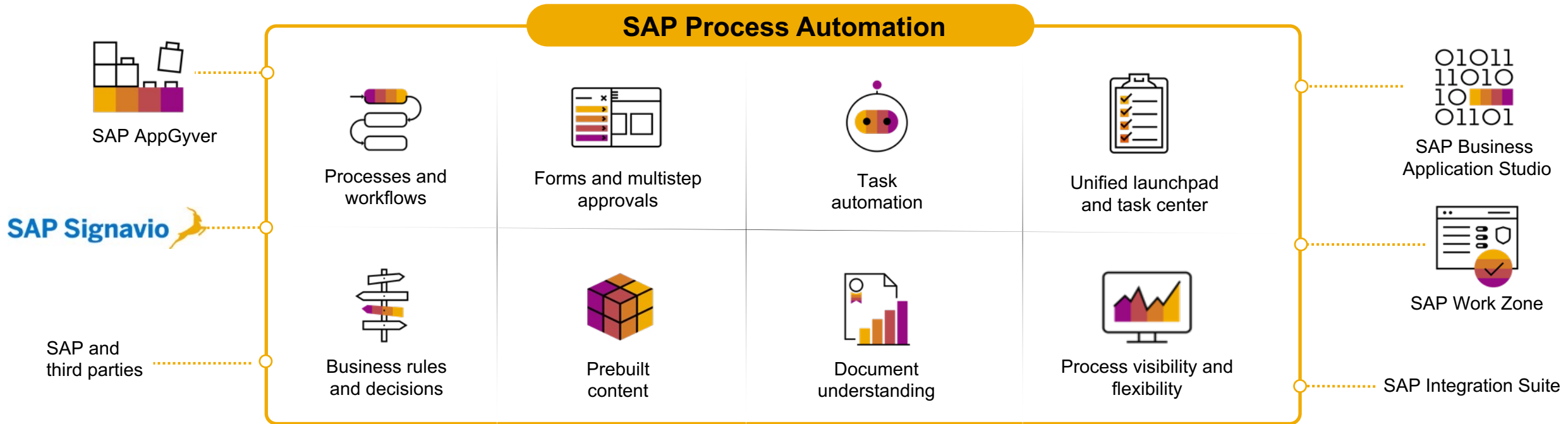


Embedded AI Services

→ Third-party software

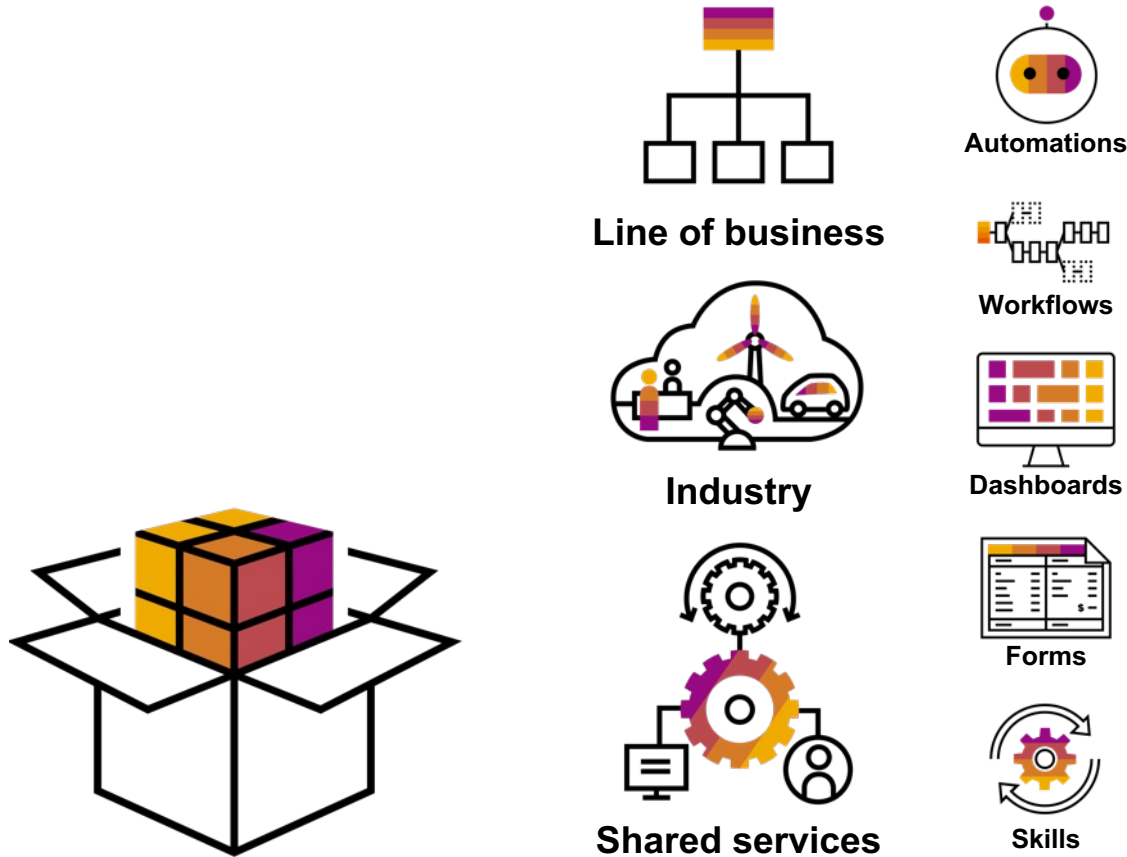
SAP Process Automation

Capabilities: Citizen automation and workflows for line-of-business builders



- New **citizen automation user experience** (process builder, forms builder)
- **Workflow management** capabilities available (business rules, process visibility, process flexibility)
- Embedded **RPA capabilities** to readily combine bot automations with workflows
- Integrated **AI-capabilities for document information extraction** at no extra cost
- Content and **reusable artifacts** (such as bots, workflow components, process steps, actions)
- **Unified launchpad and task center** for citizen developer applications and automations
- [Free tier](#) availability & new [free learning journeys](#) & customer-driven, competitive [roadmap](#)

Accelerate business transformation with prebuilt content packages



- **Jump-start automation development** while making use of **best practices**
- Select from a wide variety of **prebuilt, directly usable packages**
 - across lines of business
 - industries
 - shared functions
- Content ranges from
 - **templated automations** (bots)
 - **processes** (workflows)
 - **process visibility dashboards**
 - **form** templates
 - **actions** (called skills)to **complete automation packages combining artifacts**

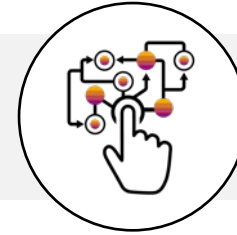
SAP Process Automation use cases



Automate manual, repetitive tasks



Enable “lights-out” automation of high-volume process steps



Automatically aggregate data from multiple systems

Lead to cash

Capital expenditure approvals

Invoice approvals

Account opening

Hire to retire

Relocation

Visa permits

HR employee self-services

Management of contingent workers

Design to operate

Master data record updates

Document approvals

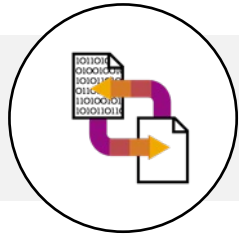
Lead-generation workflows

Source to pay

Return-order process

Incident management

Procurement data collection



Digitalize manual and semi-automated processes

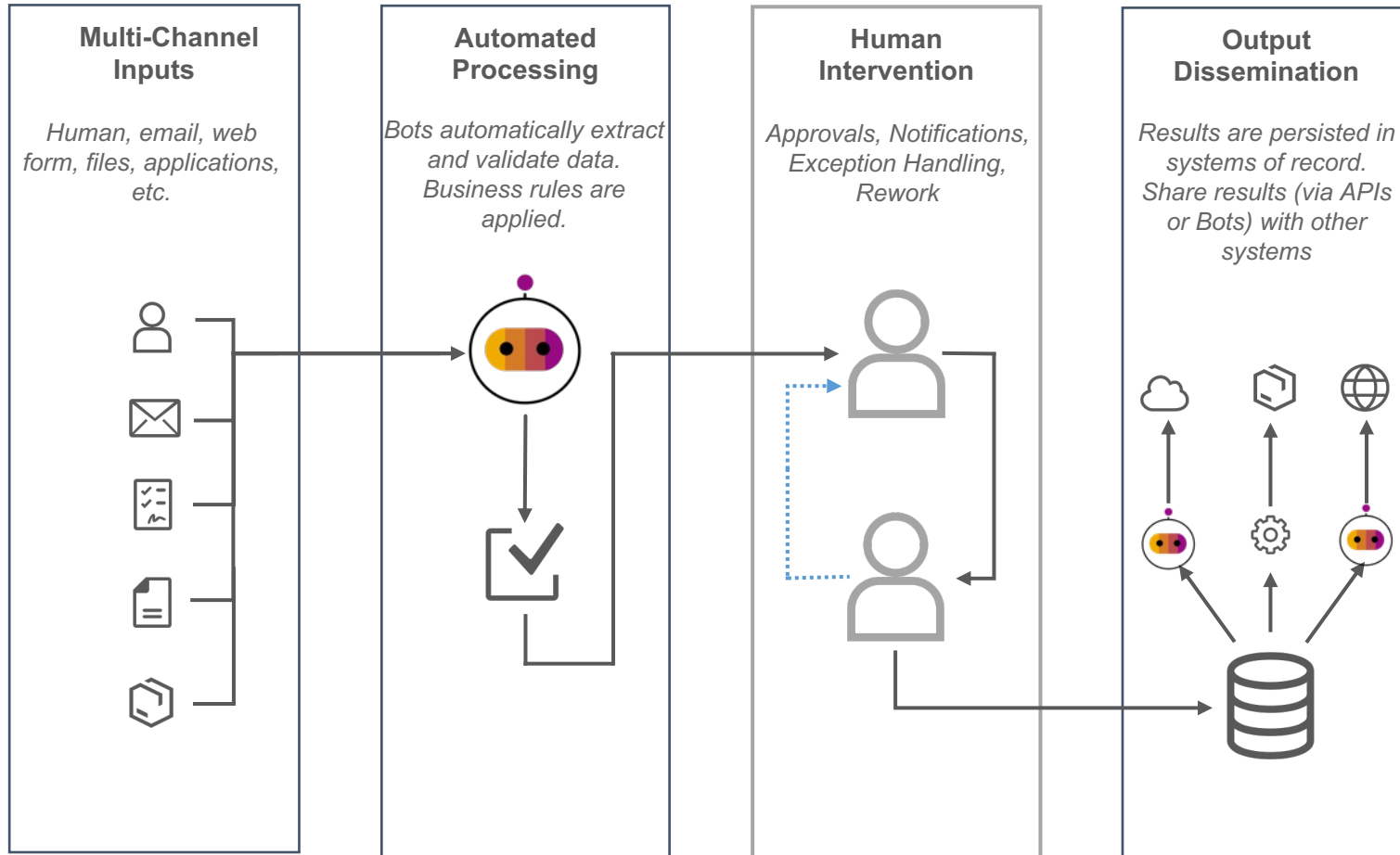


Extend and adapt standard application flows



Automate comprehensive cross-application workflows

Human Intervention Use Cases Examples



Human Resources

- Employee Onboarding
- Expense Approvals

Finance

- CapEx Requests
- Project Budget Approval
- Payment Reminders
- Invoice Processing
- Expense Approvals

Sourcing / Procurement

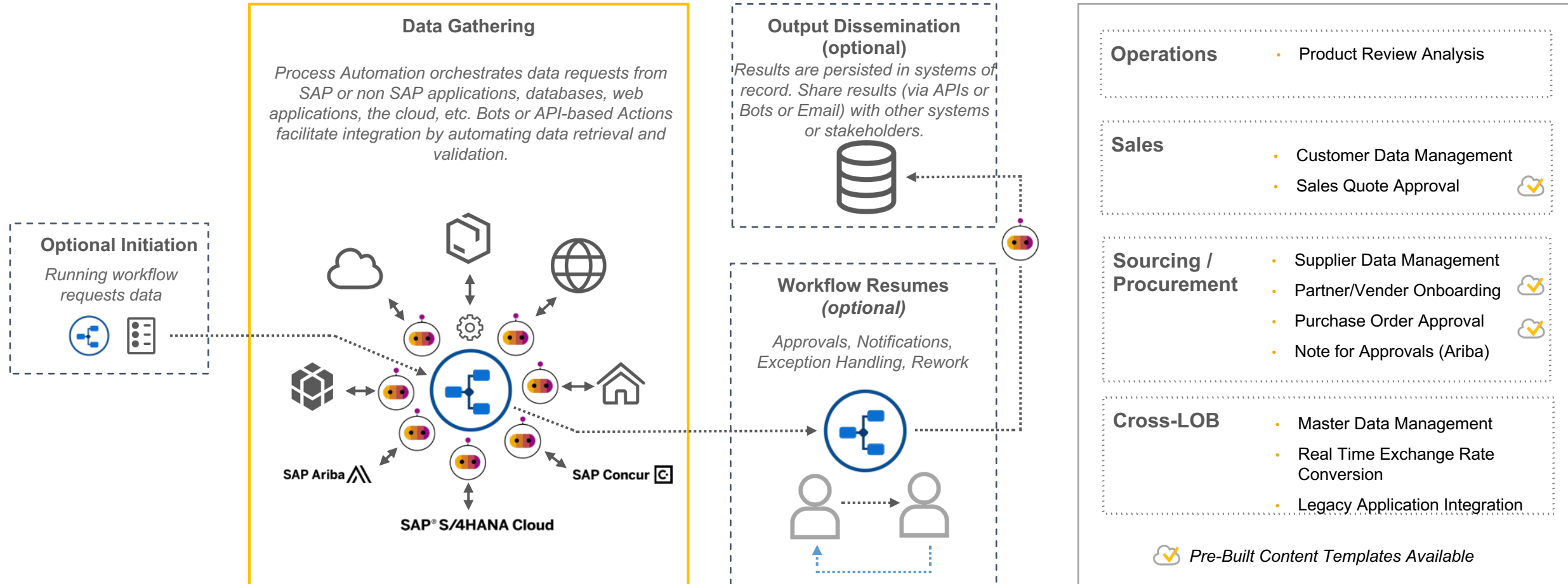
- Purchase Requisition
- Sales Order Approval
- Payment Change Request
- Line item Approvals

Asset Management/ Operations

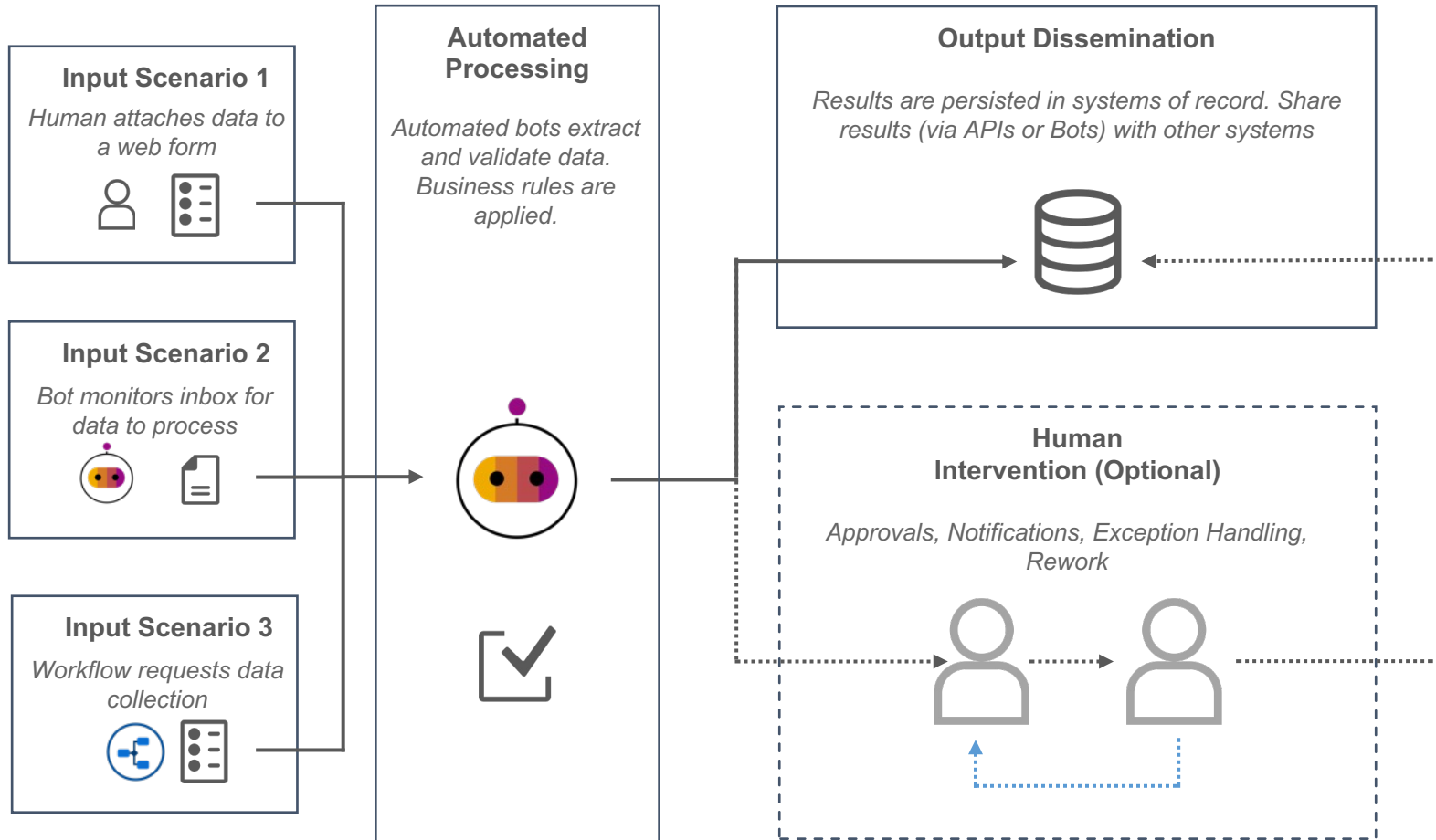
- Lease Termination
- Asset Write Off
- Contract Extension
- Contract Termination

Pre-Built Content Templates Available

Information Orchestration Use Cases Examples



Intelligent Data Processing Use Cases Examples



Human Resources

- Leave Request
- Resume Mining

Sales

- Lead Processing
- Order Approval

Finance

- Purchase Record Updates ✓
- Collection Reminders ✓
- Statement Uploads ✓
- Accrual Data Collection
- Advise of Payment
- Invoice Approvals

Sourcing / Procurement

- Vendor Onboarding ✓
- Project Creation ✓

Asset Management/ Operations

- Asset Creation Requests ✓
- Plant Creation
- Product Change Request ✓

SAP Process Automation: SAP S/4HANA Finance Scenario Examples

Key Automation Opportunity Areas	Financial Operations	Record to Report	Treasury	Tax	Enterprise Risk & Compliance
	Receivables Management	Financial Accounting	Payment	Tax Filing	Identity & Access Governance
	Payables Management	Financial Close	Bank Communication	Tax Reconciliation	International Trade Management
Use Case Examples	1. Automatic posting of payment advices 2. Automatic posting of invoices 3. Automated collection reminders	1. Automatic GL entries with approval workflow 2. Financial closing tasks	1. Bank statement upload 2. Reconciliation & reporting	1. Reconciliation between forms 2. Fill-in tax returns & upload 3. Collection of tax certificates	1. Crawling agency portals to retrieve data 2. Automated generation of an audit plan
SAP Process Automation Benefits	5%-50% reduction in customer billing, credit, and collections costs	40%-70% reduction in days to close annual books	ZERO Manual errors	2%-10% Improved working capital	Up to 100% Audit & Governance compliance as per policy

REHAU automated its business workflows to boost efficiency and enable employees to focus on fulfilling strategic goals.

The SAP Innovation Services team enabled REHAU to implement **SAP® Intelligent Robotics Process Automation** (SAP Intelligent RPA) services on SAP S/4HANA® Cloud and:

- Become the first go-live of SAP Intelligent RPA and intelligent technologies packages in the Asia Pacific Japan region
- Achieve greater process efficiency through automatic billing workflows
- Upload 1,000 financial accounting documents automatically, turning four days of work into a 10-minute task
- Create a bot that automatically processes 3,000 production orders to be technically completed, and another 3,000 to be closed and deleted
- Process 500 orders per batch for improved order closing, transforming an entire day's work for one employee into a two-minute task for a bot

“We used SAP Intelligent RPA to automate use cases that required significant manual intervention and redundant work. This **saves us time and cuts down on human error**, and our employees are spending more time on innovative work.”

Chengbo Yu, CIO, Asia Pacific Region, REHAU Polymer China Co. Ltd



REHAU Polymer
China Co. Ltd
Taicang, China
www.rehau.com

Industry
Mill products

Employees
452

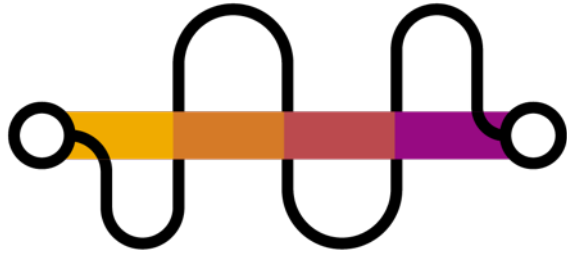
Revenue
US\$99.75 million
(2018)

Featured Solutions and Services
SAP Intelligent Robotic Process Automation, intelligent technologies packages, SAP S/4HANA Cloud, and SAP Innovation Services



SAP Process Automation

A simpler and faster way to enhance business efficiency and agility with confidence



Build with Simplicity

Simplify automation with visual drag-and-drop tools and industry specific content



Automate Faster

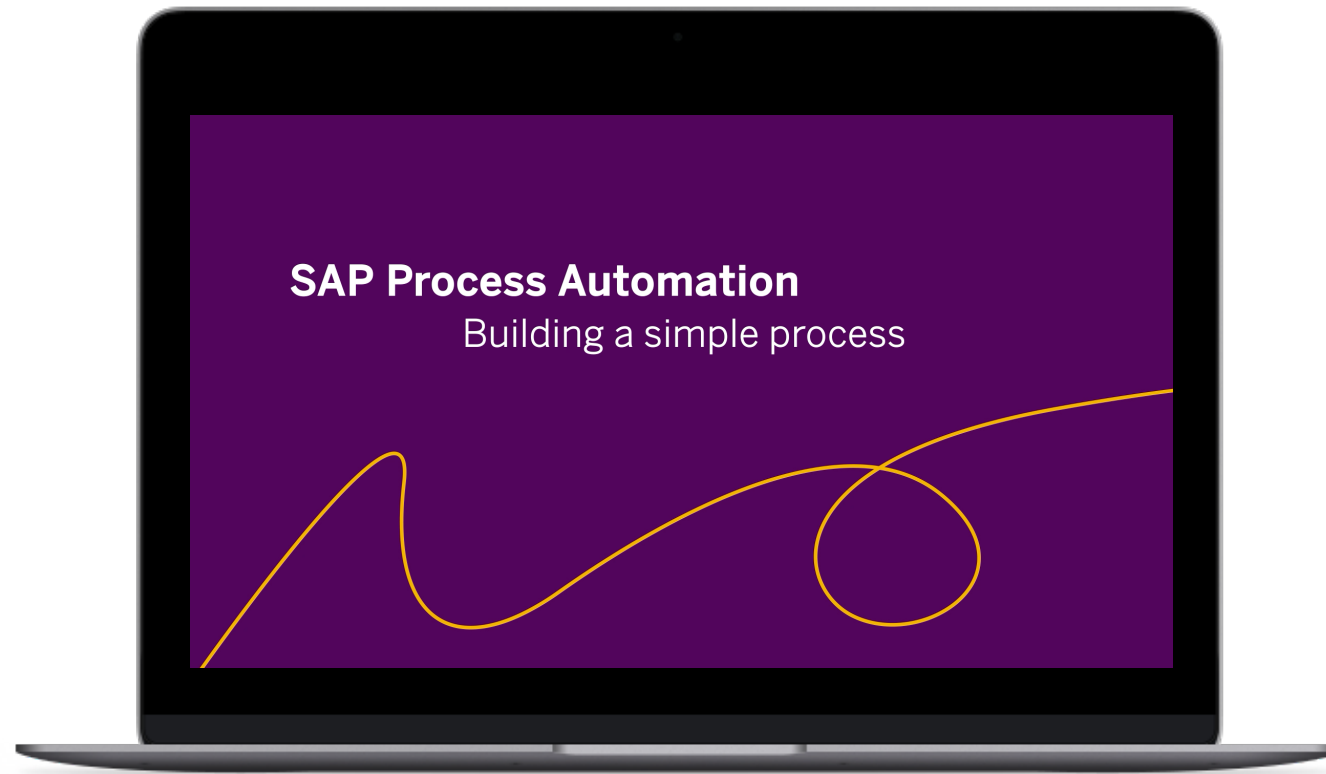
Automate faster with business context in a unified workflow management and robotic process automation solution



Operate Confidently

Operate confidently on a trusted, enterprise-grade multi-cloud platform

SAP Process Automation Demo



SAP Process Automation

Building a simple process



How to get started

How to get started with SAP's low-code/no-code solutions – SAP Process Automation

For More Information on SAP Process Automation:

Exchange knowledge: [SAP Community](#)

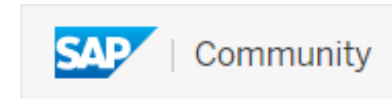
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How to get started with SAP's low-code/no-code solutions – SAP AppGyver

For More Information on SAP AppGyver:

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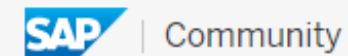
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