

A Collaboration of  and 

# SAP Enterprise Architect Global Summit

Virtual Event - March 1-3, 2022



## Low-Code/No-Code

Process Automation, Application Development and User Engagement with BTP

Sebastian Schrötel – VP, Head of Low-Code/No-Code Products SAP

# Critical Digitalization Challenges

Organizations Fail to Innovate at the Speed the Business Demands



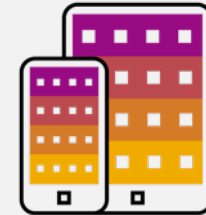
Rapidly evolving customer requirements accelerating demand for cloud solutions

“The pandemic is accelerating cloud demand, with 59% of enterprises expecting cloud use to exceed plans due to COVID-19.”<sup>1</sup>



Limited development resources, inhibiting digitalization

“Lack of skills was cited as the number-one challenge in a recent Gartner Research Circle survey, and CIOs identified the ‘lack of skills and resources’ as the biggest barrier to success.”<sup>2</sup>



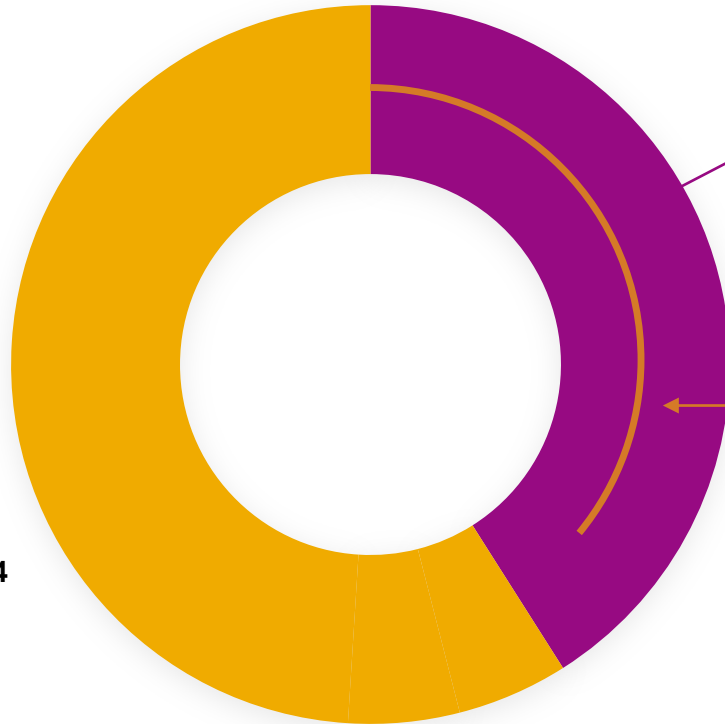
Complex IT landscapes, with a growing number of applications maintained by companies

Large companies maintain 129 different applications on average, with the total number increasing by 68% since 2015.<sup>3</sup>

1. “Maximizing the Impact of Technology Investments in the New Normal,” CIO Insider, Deloitte, 03 February, 2021, Khalid Kark, Jagjeet, Gill, and Tim Smith.
2. “Forecast Analysis: Low-Code Development Technologies,” 22 January 2021, Fabrizio Biscotti, Paul Vincent, Jason Wong, Laurie Wurster. GARTNER is the trademark and service mark of Gartner Inc., and/or its affiliates and has been used herein with permission. All rights reserved.
3. “Employees Are Accessing More and More Business Apps, Study Finds,” The Wall Street Journal, 07 February, 2019, Angus Loten.

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

## Enabling Citizen Development in Organizations to Increase Business Resilience




**IT Technologists<sup>4</sup>**  
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.”<sup>4</sup>

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.”<sup>4</sup>

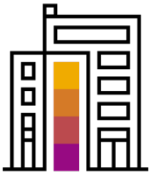
Gartner®, 2021

 **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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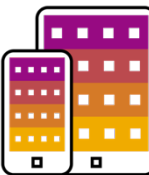
# Accelerate Development by Supporting a Low-Code/No-Code Approach

Application Development is Evolving with the Rising Popularity of Low-Code/No-Code Tools



“By 2025, **over 50% of midsize to large enterprises will have adopted an LCAP** as one of their strategic application platforms.”<sup>5</sup>

Gartner®, 2021



And “**70% of new applications** developed by enterprises will **use low-code or no-code technologies.**”<sup>6</sup>

Gartner®, 2021

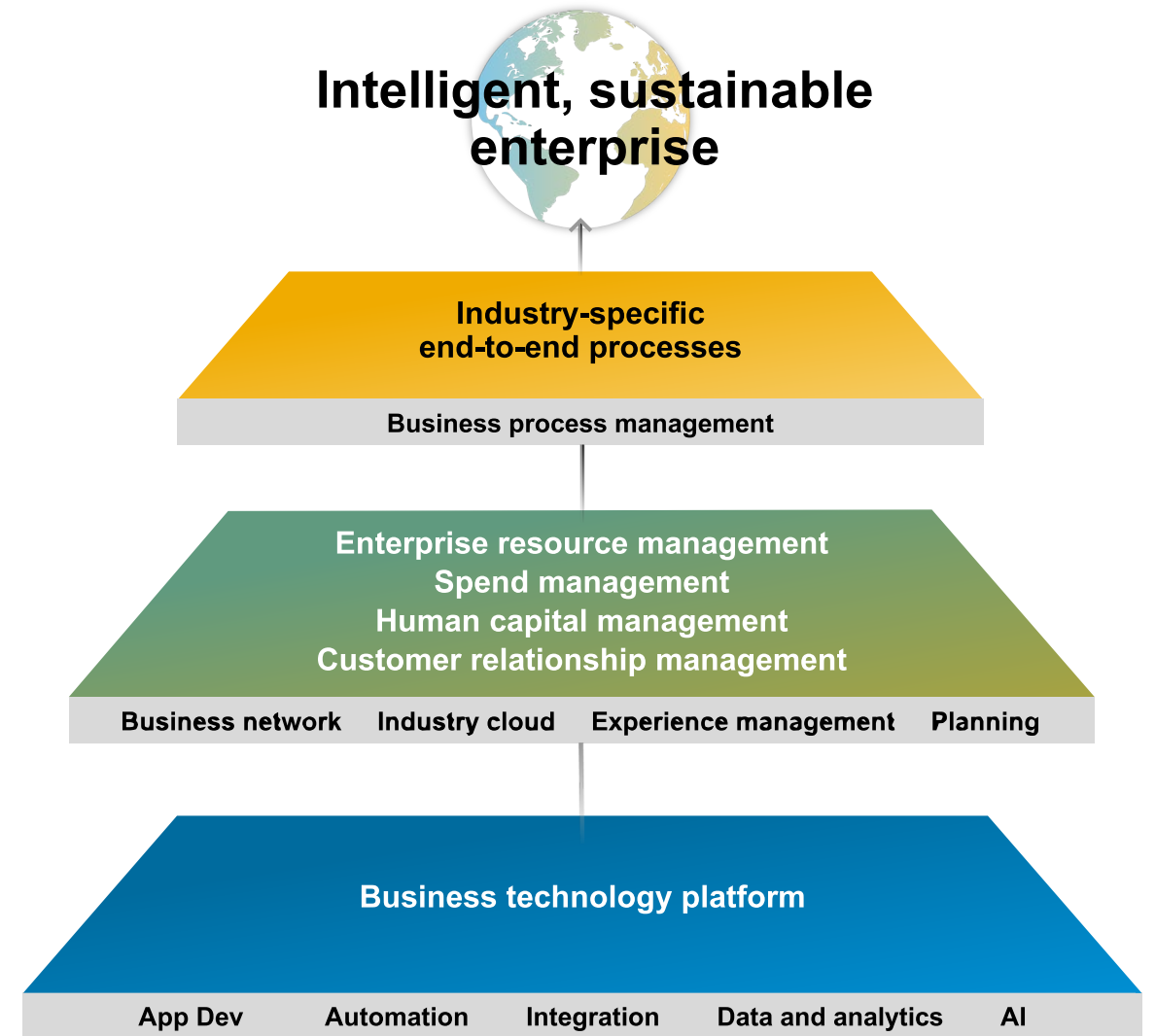
5. Magic Quadrant™ for Enterprise Low-Code Application Platforms, 20 September 2021, Jason Wong, Kimihiko Iijima, Adrian Leow, Akash Jain, Paul Vincent.

6. “Gartner Forecast Analysis: Low-Code Development Technologies,” 22 January 2021, Fabrizio Biscotti, Paul Vincent, Jason Wong, Laurie Wurster.

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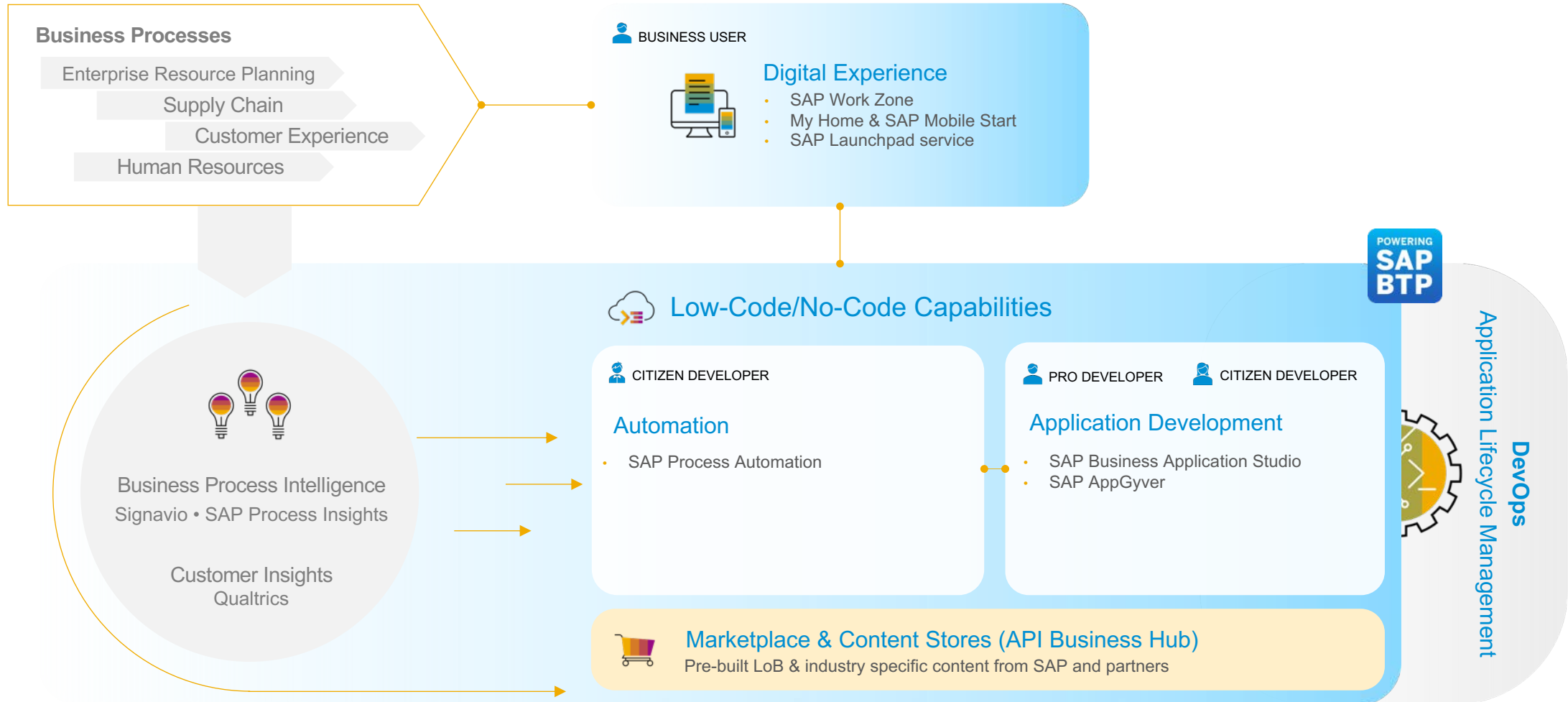


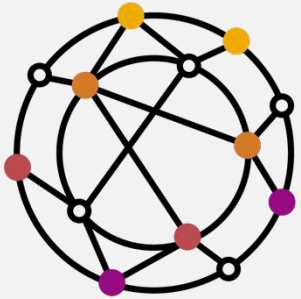
# Enable every enterprise to become an **intelligent, sustainable enterprise**



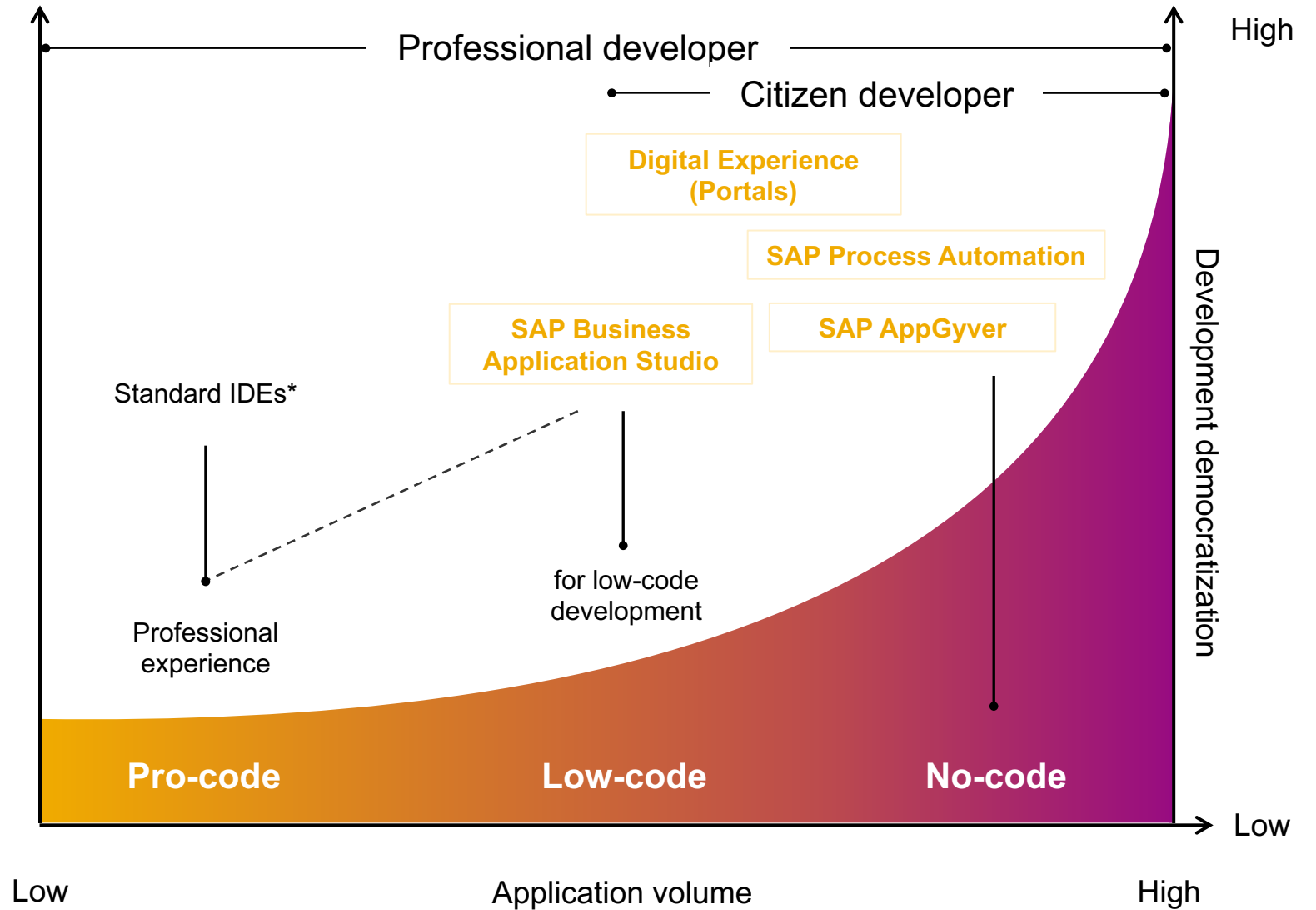
# Low-Code/No-Code offering to tackle today's market challenges

App development, process automation and digital experience





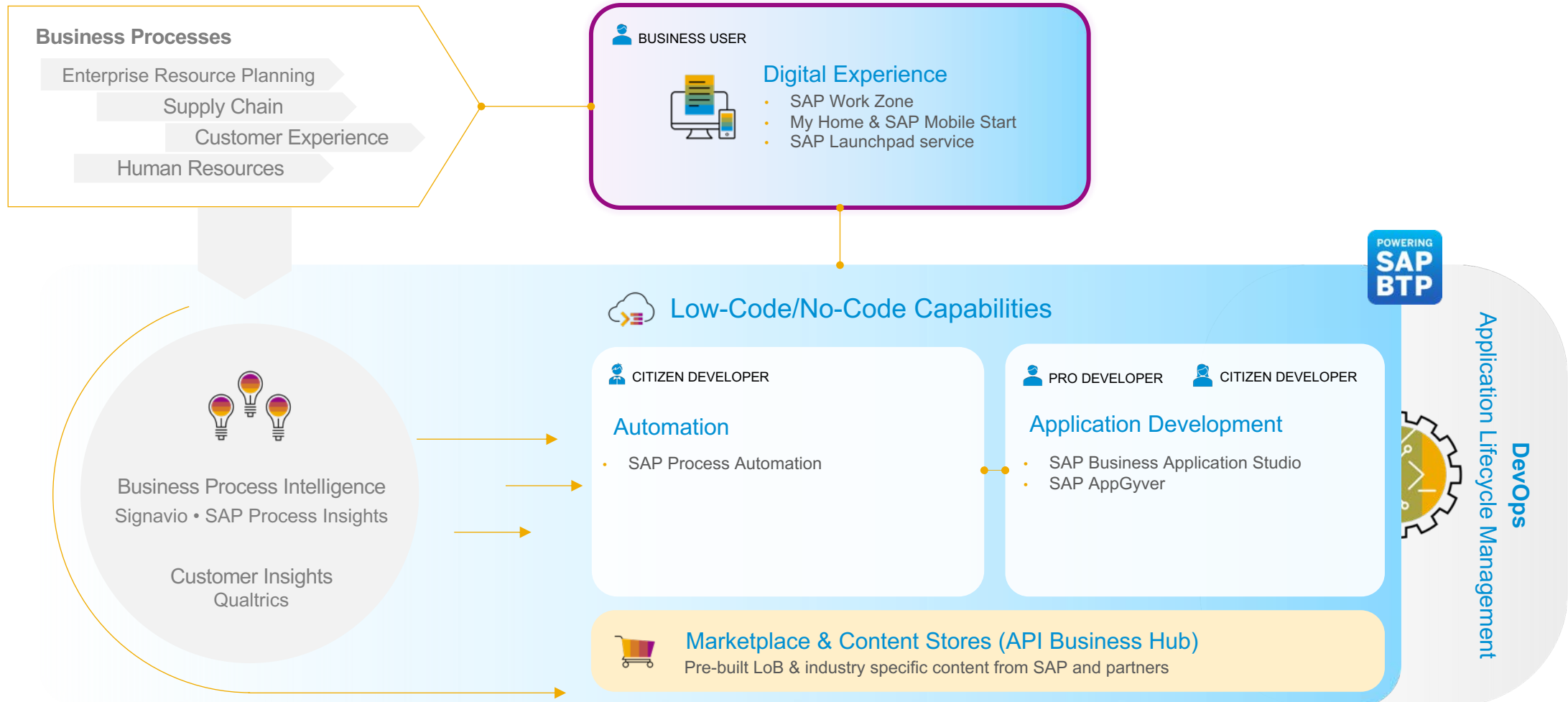
Create a **unified developer experience** that allows every developer to build apps fast, no matter the skill level



\*i.e. VS Code + extensions

# Low-Code/No-Code offering to tackle today's market challenges

## A seamless digital experience





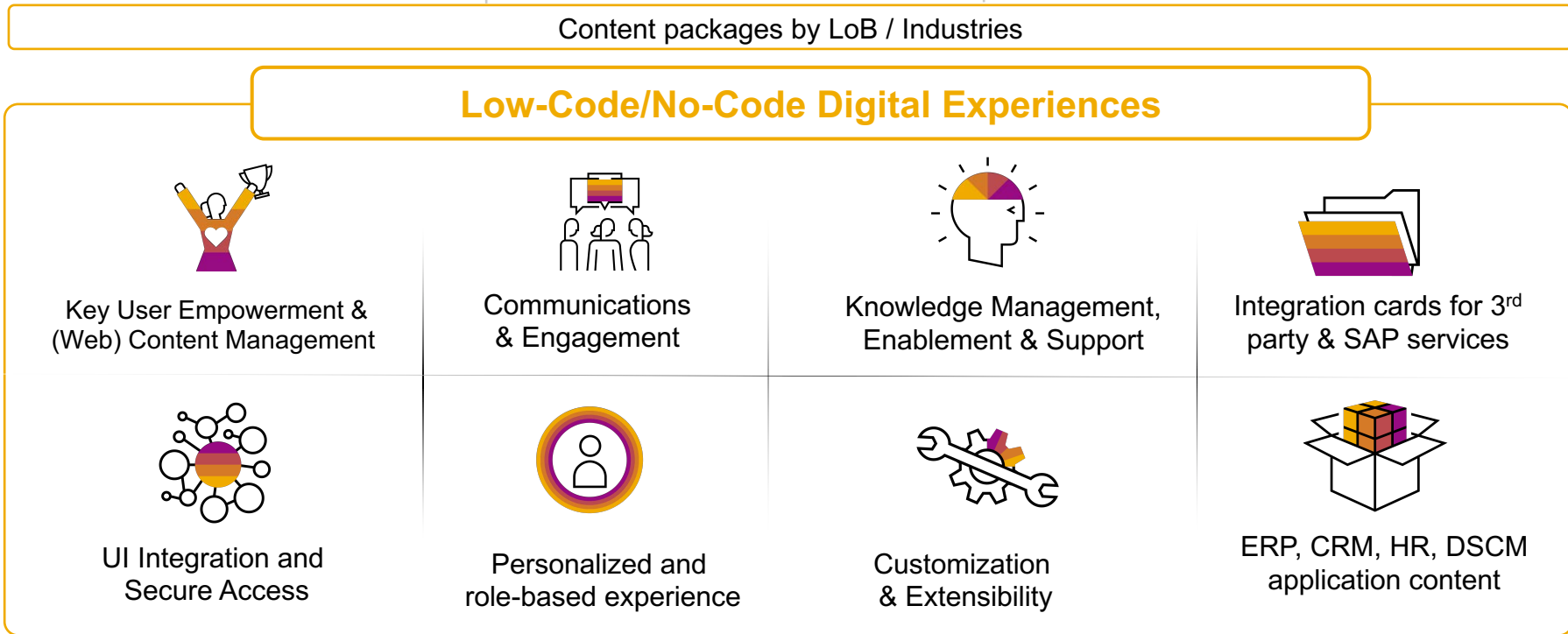
# Digital Experience Services: SAP Work Zone & SAP Launchpad Service

Improving productivity by connecting processes, apps and data into seamless digital experiences



Mobile experience:  
SAP Mobile Start

Desktop (web)  
experience



**My Home**  
(central entry point)

**SAP Launchpad service**  
(foundation)

**SAP Work Zone**  
(premium capabilities)

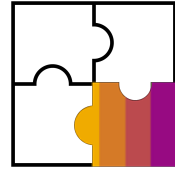
**Business (Key) users**

**Content Managers & Administrators**

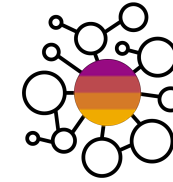
**(Citizen) Developers**

- Central access to SAP and custom-built apps & extensions, as well as third-party solutions (cloud / on-premise)
- Personalized, role-based user experience with search, tasks, notifications, cards, micro-experiences, and more.
- Engaging digital workplace & employee portal experience blending business data with unstructured information (docs, news, video, etc.)
- Empower business users with self-services for information sharing & enablement (knowledge base, forum, wiki)

# Digital Experience Services **Common Use Cases**



**Integration of custom apps, extensions and third-party solutions**



**UX Integration: unified access to SAP apps, tasks and processes**



**Create sites blending business data and unstructured information**



**Collaborative Knowledge Sharing & Enablement**



**Digital Workplace & NextGen Portal**

# Customer Stories: Cross-industry and Line of Business

Customers are seeking a unified access point blending applications & content:



## Creating a Sustainable and More Competitive Sports Club with SAP Work Zone

**SAP Work Zone** provides a contemporary and independent working environment which collects and propagates collective knowledge on and off the pitch. **50% fewer requests** to Coach Enablement and Development as content access is now self-service based.

[More information](#)



## Transforming the Learning Experience with SAP SuccessFactors

Utilizing **SAP SuccessFactors Work Zone**, a user-centric digital personal development platform was implemented. It provides a **centralized access point** to different previously not paired technologies with “consumer grade” user experience.

[More information](#)



## Enforcing Regional Networks to Connect Migrants with Vital Services

Utilizing **SAP SuccessFactors Work Zone**, Landratsamt Rhein-Neckar-Kreis – a county in Baden-Württemberg, Germany - create a **digital communication and collaboration platform** to connect authorities and volunteers across the region. The so-called “Integration Portal” would serve as a one-stop shop for the coordination of support services for migrants and refugees

[More information](#)

# How to get started



SAP Community



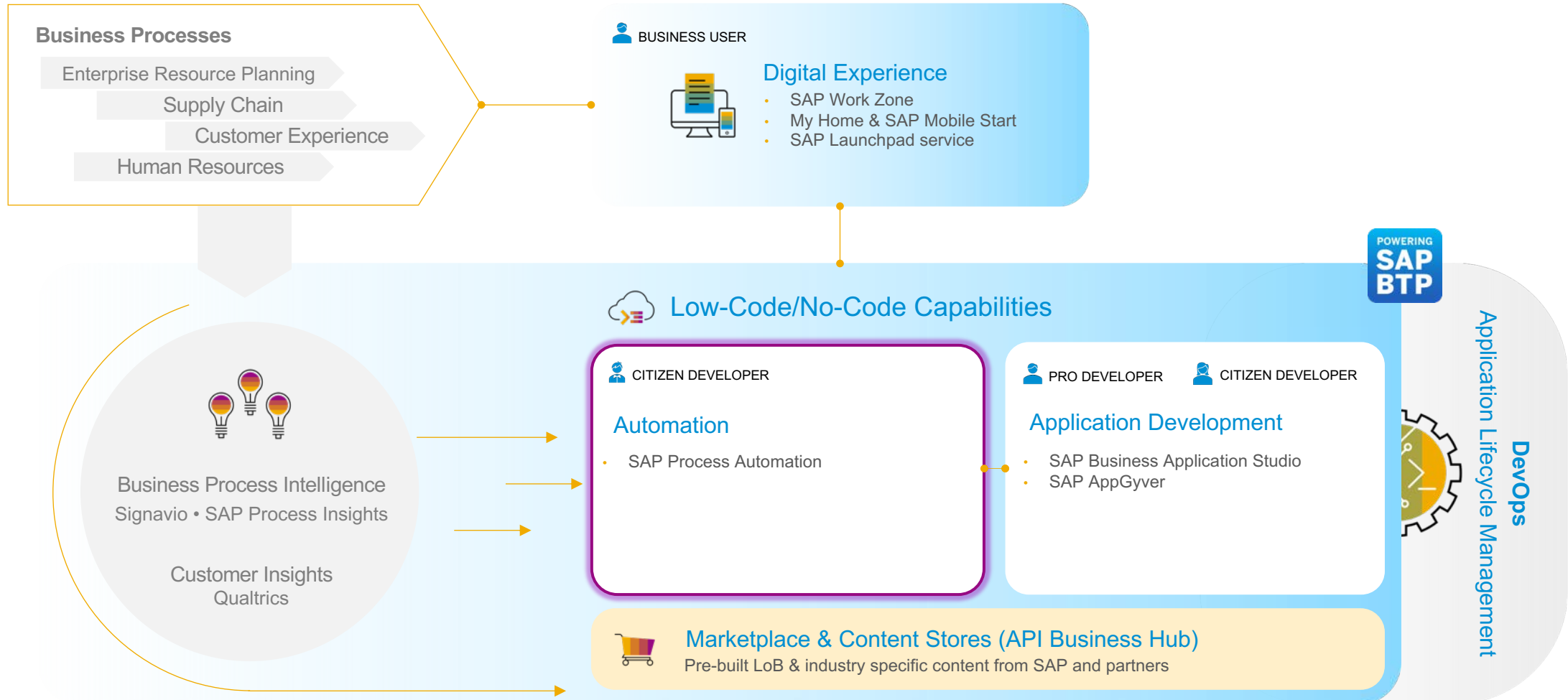
Free Tier

Follow **Digital Experience**  
on Social Media



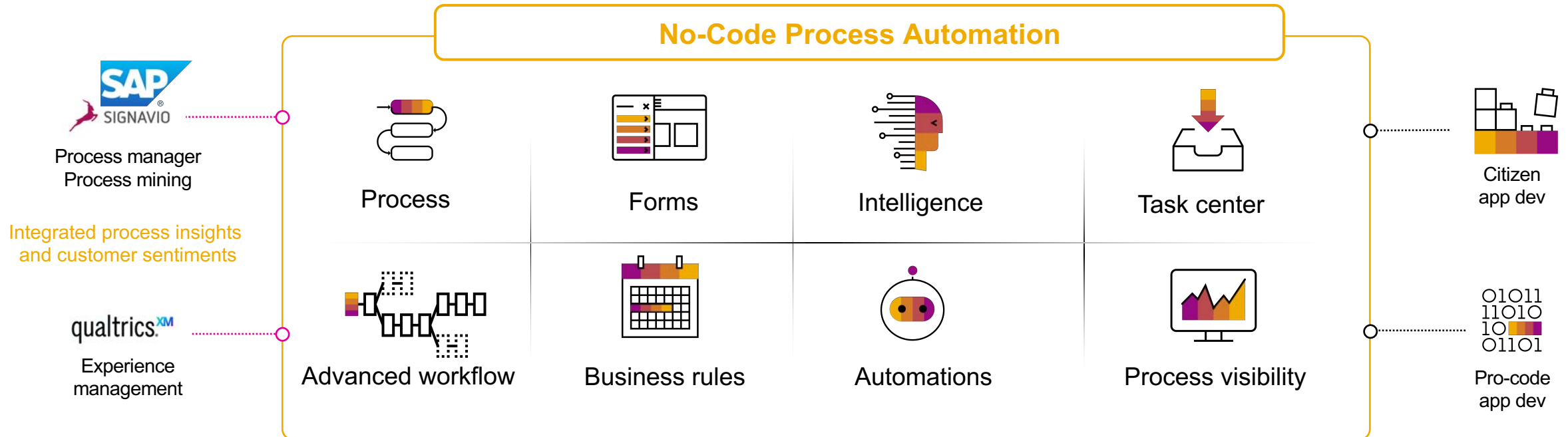
# Low-Code/No-Code offering to tackle today's market challenges

Enhanced efficiency through automation



# Introducing SAP Process Automation

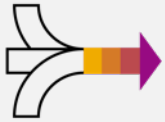
Capabilities: Citizen automation for line-of-business builders



- New **citizen automation user experience** (process builder, forms builder)
- All **advanced workflow management** capabilities available (rules, process visibility, process flexibility, AI)
- Embedded **RPA capabilities** to readily combine bot automations with workflows
- Content and **reusable artifacts** (such as bots, workflow components, process steps, actions)
- **Unified launchpad and task center** for citizen developer applications and automations
- **Integrated** with SAP applications, leveraging **SAP application development tools for extensions** (LCNC to pro-code)

# SAP Process Automation

Combining workflow management and RPA capabilities with a no-code citizen developer experience



Combined **capabilities** from SAP **Workflow Management** and SAP **Intelligent Robotic Process Automation** services.



**Intuitive citizen developer experience** to **automate workflows and processes** using visual features that require no coding expertise.



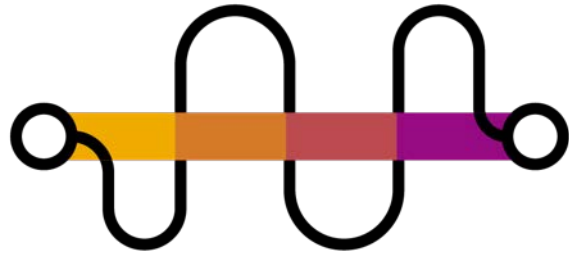
Increased capacity to drive process automation by **empowering business experts to become citizen developers**.



Leveraging the power of no-code, citizen developers can build, adapt, improve, and innovate business processes with minimum assistance from scarce IT resources.

# 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



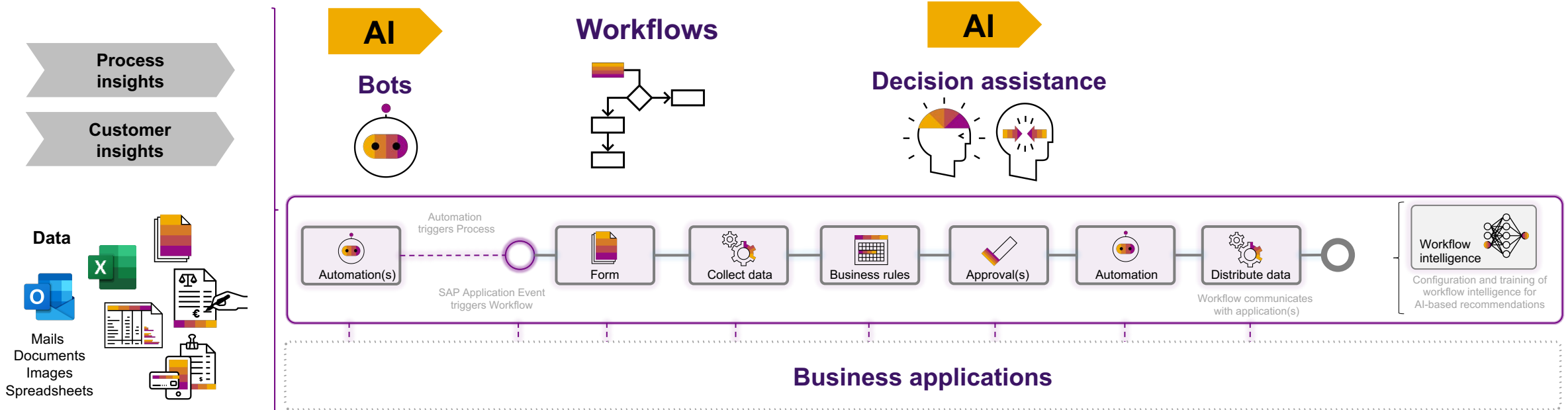
## Operate Confidently

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



# Embedded Intelligence and Decision Support

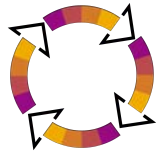
## Adding the value of AI in business process automation



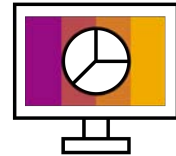
**SAP Process Automation** enables LoB experts **without additional cost** to

- Use machine learning for recommended actions based on workflow data correlation and attribute importance for the decision (**document attribute recommendation**)
- Configure and train machine learning explainability (MLX) for recommendations with confidence levels without any data science experience
- Leverage **document information extraction and classification** with bot automations
- **Classify and route business documents** to the right process, extract data from different sources and create records (such as sales order)

# SAP Process Automation Use Cases



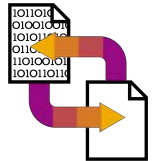
**Automate manual, repetitive tasks**



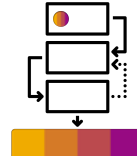
**“Lights-out” automation of high volume process steps**



**Automatically aggregate data from multiple systems**



**Digitalize manual & semi-automated processes**



**Extend and adapt standard application flows**



**Automate end-to-end cross-application workflows**

## Example Processes for Automation

**Lead to Cash**

Capital Expenditure Approvals

Invoice Approvals

Account Opening

**Hire to Retire**

Relocation

Visa Permits

HR Employee Self Services

Managing Contingent Workers

**Design to Operate**

Master Data Record Update

Document Approval

Lead Generation Workflows

**Source to Pay**

Return Order Process

Incident Management

Procurement Data Collection

# The Voice of our Customers



“SAP Process Automation will support many SAP customers in **digitalizing their paper-based processes** and **optimizing transparency and cycle time**. Integrating it with other SAP solutions offers the possibility for employees to **get rid of repetitive tasks** so that they can **focus on higher value topics**.”

*Stefan Schmidtke, SAP Application Manager, Stadtwerke Gelsenkirchen*

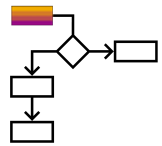


„I actually had a lot of fun testing SAP Process Automation as I was able to **build a process including a bot without any help in a very short time** – and that without being a developer! I already have some **concrete ideas what scenarios** I can use the tool for in the future.”

*Katja Nawrath, SAP Business Process Expert, Freudenberg*

# The Path to SAP Process Automation

Move to process automation at your own speed or make a fresh start



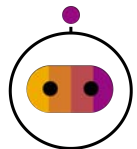
## SAP Workflow Management

### Starting from

- All workflow management capabilities, same runtime – no migration
- Workflow components, process steps, and business rules as reusable artifacts
- Side-by-side usage with reuse of existing content and workflow editor (LCAP)

### Looking for

- Additional **citizen developer user experience** including native RPA/process builder
- **Live process content** plus growing new content artifacts (templates, skills)



## SAP Intelligent Robotic Process Automation

### Starting from

- All automation capabilities, same runtime – no migration efforts
- Automation components, application, data, automations as reusable components
- Side-by-side usage with reuse of existing bot content

### Looking for

- Additional **citizen developer experience** for automating **E2E business processes**
- **Additional artifacts** such as forms, business decision rules, and process visibility
- **RPA content** plus growing new content artifacts (templates, skills)



## New customers

- Explore **no-code process automations** with a **citizen developer experience**
- Build simple forms and **departmental process improvements**
- Benefit from a growing list of **prebuilt business content** and new skills



SAP Process Automation

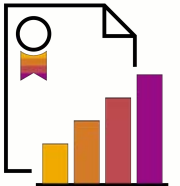


# How to get started



SAP Community

Read our [Solution Brief](#)

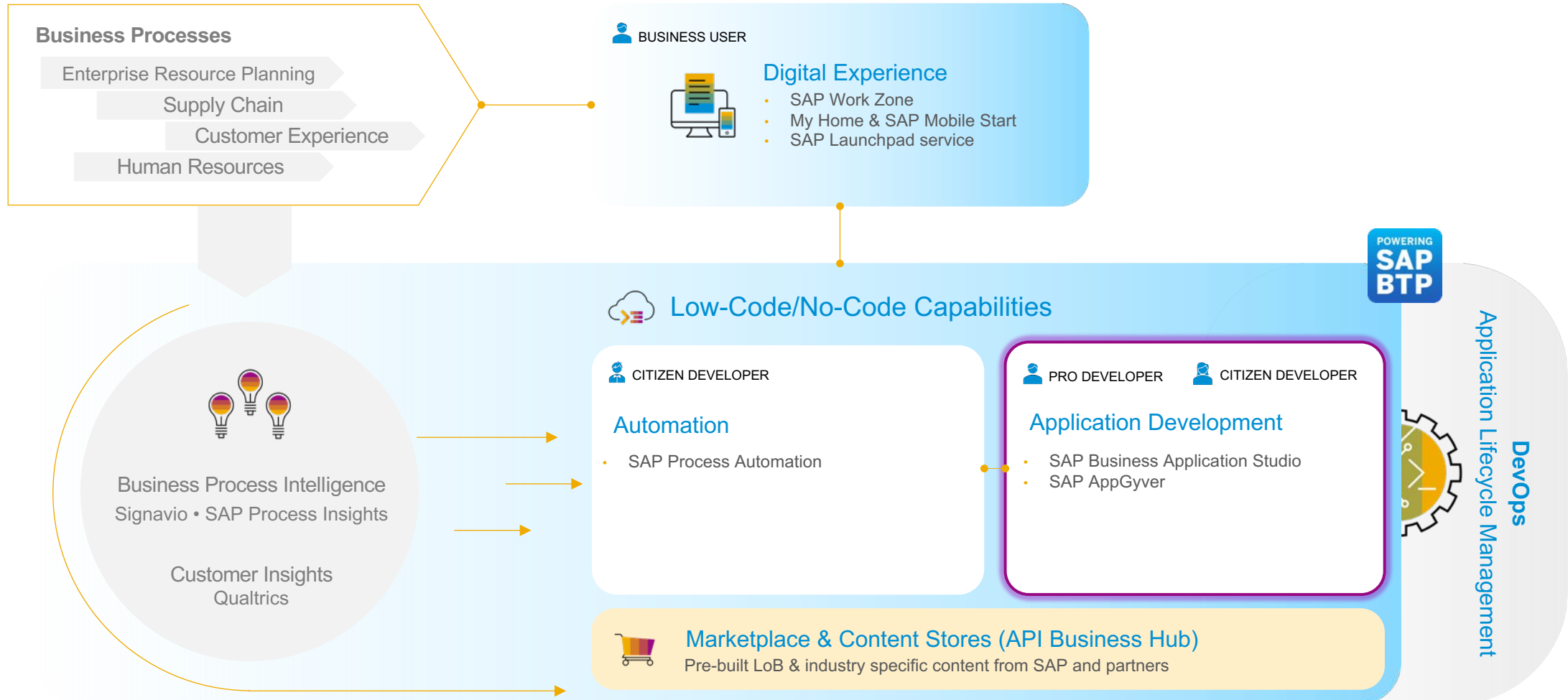


Follow **SAP Process Automation**  
on Social Media



# Low-Code/No-Code offering to tackle today's market challenges

Accelerated time to value with low-code/no-code application development



# Introducing SAP AppGyver and SAP Business Application Studio

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

## SAP Business Application Studio

Boosts development productivity with a low-code experience based on the SAP opinionated technology (CAP, Fiori, UI5, HANA and more)



## Low-Code/No-Code Application Composition



Stand-alone and SAP App Extensions



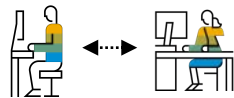
Extensive UI Component, Theming and Layout, Fiori, native web



Service modeling w/ simplified cloud application programming model



Service center for API discovery & consumption



Development continuum  
Citizen Dev → Pro Dev



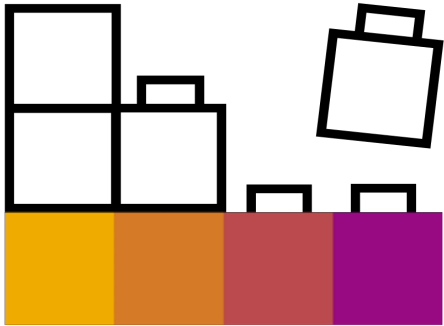
Multi-channel Support, Mobile & Web



Visual process management & Business Logic



Enterprise Grade DevOps governance on BTP



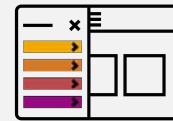
## Why SAP AppGyver?

# The No-Code Approach

Increase development efficiency while eliminating coding effort. Build 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



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



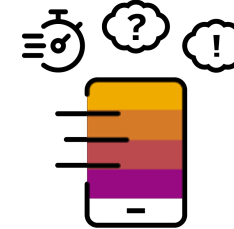
# SAP AppGyver – Use Cases



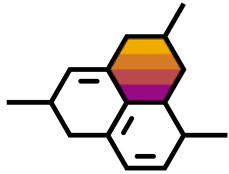
**Fast Mobile App Development**



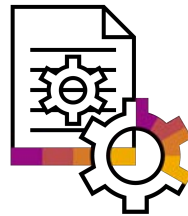
**Easy Development of Web Applications**



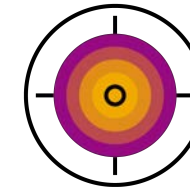
**Rapid Prototyping and UI Testing**



**Extending Existing Apps and Systems**



**Developing Internal Business Apps for Operations**



**Meeting Software Demand in Niches**

## Examples from Production



Self Service Ticketing App integrated with SAP Service Cloud



Self-created Mobile App to Manage Damage Reports for Trailer Fleet



Multiple Business Apps for Manufacturing, Logistics and eCommerce (Configurator)

# Boost Development Agility and Unleash Innovation

A unified developer experience from no-code to pro-code

SAP AppGyver



SAP Business Application Studio  
for Low-Code Development

Front-end apps with custom functionality & design for stand-alone apps & LoB side-by-side extensions

What type of applications can I create?

Template-based Fiori apps, applications extensions, and backend services for SAP opinionated technology (e.g., CAP, UI5)

Integrate with REST APIs and OData

How to integrate to other SAP solutions?

SAP Integrations using APIs/events, cloud application programming (CAP), Fiori elements, mobile services

Everything done with no-code tools

How to create apps and extensions?

Low-code capabilities that can be expanded with pro-code tools

Multiplatform deployment, app stores, and web

Where can I deploy to?

Multiplatform deployment

Citizen and professional developer with no-code

Who can create apps?

Professional and advanced citizen developer with low-code, easily dive into pro-code

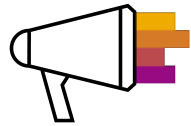
Extending applications

When to use what?

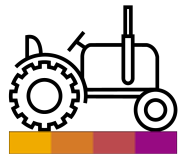
Professional and advanced citizen developer building and extending SAP applications on BTP & LoBs

# 2021 Gartner® Magic Quadrant™ for Multiexperience Development Platforms

## SAP Business Application Studio is SAP's IDE to Deliver Seamless Multiexperience App Practices



“Gartner Inc. has named SAP as a **Leader in Gartner Magic Quadrant** for Multiexperience Development Platforms for the second year in a row”.<sup>7</sup>



**CLAAS**, a global agricultural machinery manufacturer, uses SAP Business Technology Platform, which helped them to achieve a **95%** employee satisfaction, a **40% reduction** in development costs, and **faster** time to market.<sup>8</sup>

Gartner, “Magic Quadrant for Multiexperience Development Platforms” July 26, 2021. This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from SAP.

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For further information, please see <https://news.sap.com/2021/08/sap-positioned-leader-2021-gartner-multiexperience-development/>.

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Figure 1: Magic Quadrant for Multiexperience Development Platforms



# How to get started



**SAP AppGyver**  
**Community Edition**  
for no-code developers



**SAP Business Application Studio**  
**Free Tier** for low-code/  
pro-code developers

Join our [SAP community](#) and follow us on Social Media



**Q&A**



# Thank you.



**Sebastian Schroetel**

VP, Head of Low-Code/No-Code Products

SAP

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