



SAP® PartnerEdge®

# Partner Certification Academies for SAP BTP

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

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Slides: Milton Chandras, SAP

FOR INTERNAL SAP AND PARTNER USE ONLY

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- Intro - About this Partner Certification Academies Webinar
- Theoretical Parts – Mapping to Learning Journey Unit 1 & 6
- SAP Build Process Automation – Mapping to Learning Journey Unit 2
- SAP Build Apps and SAP Extensions – Mapping to Learning Journey Unit 3 & 4
- SAP Build Work Zone – Mapping to Learning Journey Unit 5
- Outro - About Certification Exam And Other Webinars
- Final Summary – Revision for Certification Exam

# Intro



# Value of Partner Certification Academies



## Expand Skills

Gain expertise with SAP BTP to build on a unified platform & help customers accelerate innovation

## Enhanced Learning

Get a clear understanding of the courses and certification expectations at an accelerated pace

## SAP Experts

Engage with SAP experts to help navigate the content & get your questions answered live

## Free certification\*

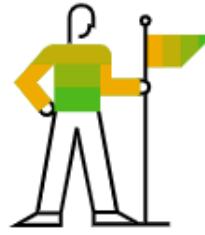
Eligible partners can get the cost of certification attempt(s) reimbursed\*

# Certification drives career growth and greater earning potential



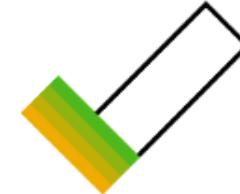
**28%**

salary or wage  
increase



**61%**

promotion and  
job advancement



**76%**

greater job  
satisfaction



**76%**

increased respect  
from peers



**74%**

more work autonomy  
and independence



**91%**

increased  
confidence in  
abilities

# Certifications are key for the new Partner Competency Framework

## Visualization of Branding & Logos on Partner Assets



- Earned competencies, no specialization details



- Single earned competency, with earned specializations

## Partner Finder

### Partner Example

A screenshot of the SAP Partner Finder interface. At the top, there are navigation links: 'At a Glance', 'Services', and 'Loca'. Below this, a section titled 'We Transform. SAP® Solutions into Value' features a video thumbnail of a wind turbine. Underneath, there's a 'Partner Value Prop' section with 'Contact Partner' and 'Share' buttons. A 'Competencies' section lists 'Business Technology Platform' and 'Customer Experience' with a '4 more' link. On the right, there's a small SAP Partner logo.

- Identify best fit partners based on experience and capabilities
- Customer to get competency and specialization details of each partner

Specializations	ESSENTIAL		
	SOLUTION CONSULTANTS	DELIVERED PROJECTS	SPECIALIZATIONS
Database and Data Management	3	1	1
Application Development and Integration	3	1	
Analytics and Planning	3	1	

ADVANCED			
SOLUTION CONSULTANTS	DELIVERED PROJECTS	SPECIALIZATIONS	PARTNER IP WITH BTP
5	3	2	

EXPERT			
SOLUTION CONSULTANTS	DELIVERED PROJECTS	SPECIALIZATIONS	PARTNER IP WITH BTP
10	5	3	1

# How does it work?



# Partner Certification Academies for SAP BTP

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

Pre-requisite	June 20th	June 22nd	June 29th
	Duration: 2,5 hours  • SAP solution knowledge • General expertise in specific business rules and processes for your domain or line of business • <a href="#">Discover SAP Business Technology Platform</a>	Duration: 2,5 hours  • Intro • Theoretical Parts – Unit 1 & 6 • SAP Build Process Automation – Unit 2	Duration: 1 hour  • SAP Build Apps and SAP Extensions – Unit 3 & 4 • SAP Build Work Zone – Unit 5 • Outro • Final Key Summary Points

This Academy is based on the [Utilize SAP Build for Low-Code/No-Code Applications and Automations for Citizen Developers](#) content which is part of the preparation for the associated certification exam [SAP Certified Citizen Developer Associate - SAP Build Low-code/No-code Applications and Automations \(C\\_LCNC\\_02\)](#).

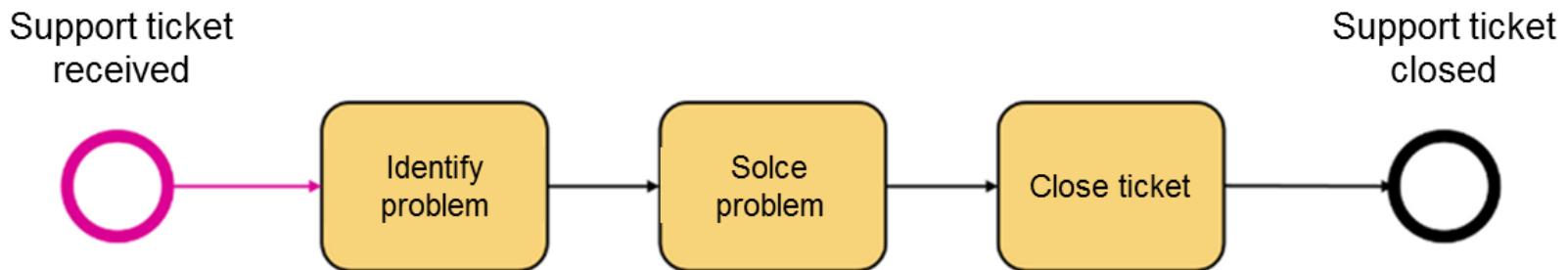
Please note that learning journey content and certification exam questions change occasionally and it is your own responsibility to ensure you are up to date with the latest learning content.

# Theoretical Parts



# What is a Business Process?

A business process is a repetitive set of tasks or activities that are completed to achieve a goal or outcome for a business.



A business process consists of a chain of activities, events and decisions.

# Forms of Business Processes

## 2 major forms of business processes

- Micro
- Macro

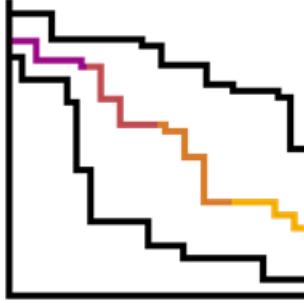
Micro Process	Macro Process
Small set of steps	Consists of many smaller processes within it
Designed to achieve a singular outcome	Larger process with a broader goal
Tend to be more linear and standardized	
Example. Submit help ticket => Receive Help => End	Example. Onboarding new employee <ul style="list-style-type: none"><li>• Creating user account</li><li>• Ordering equipment</li><li>• Etc.</li></ul>

# Long Tail Processes

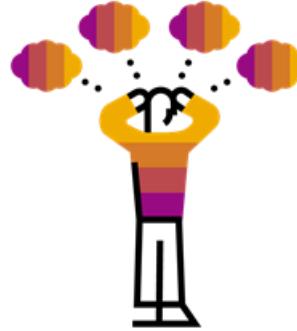
- Term to describe Micro process
- No definitive template for a process
- Multiple ways that the same process is completed
- Customized to individual situations, departments, organizations
- Undocumented, heavily reliant on manual steps

Great focus for citizen development

# Consequences of Poorly Defined Processes



Missed performance expectations



Reactivity, chaos  
and inconsistency



Generally poor  
morale among staff

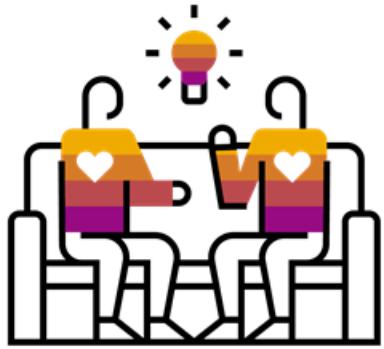


Long learning curve  
for new employees



Lack of quality and  
lower competitiveness

# Benefits of Processes that Run Like Clockwork



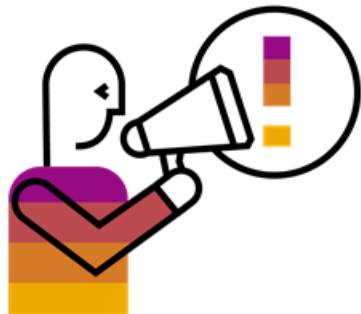
Time for creativity and problem-solving



Lower costs and increased productivity



Happier employees and customers



Better communication and employee accountability



Greater agility and responsiveness

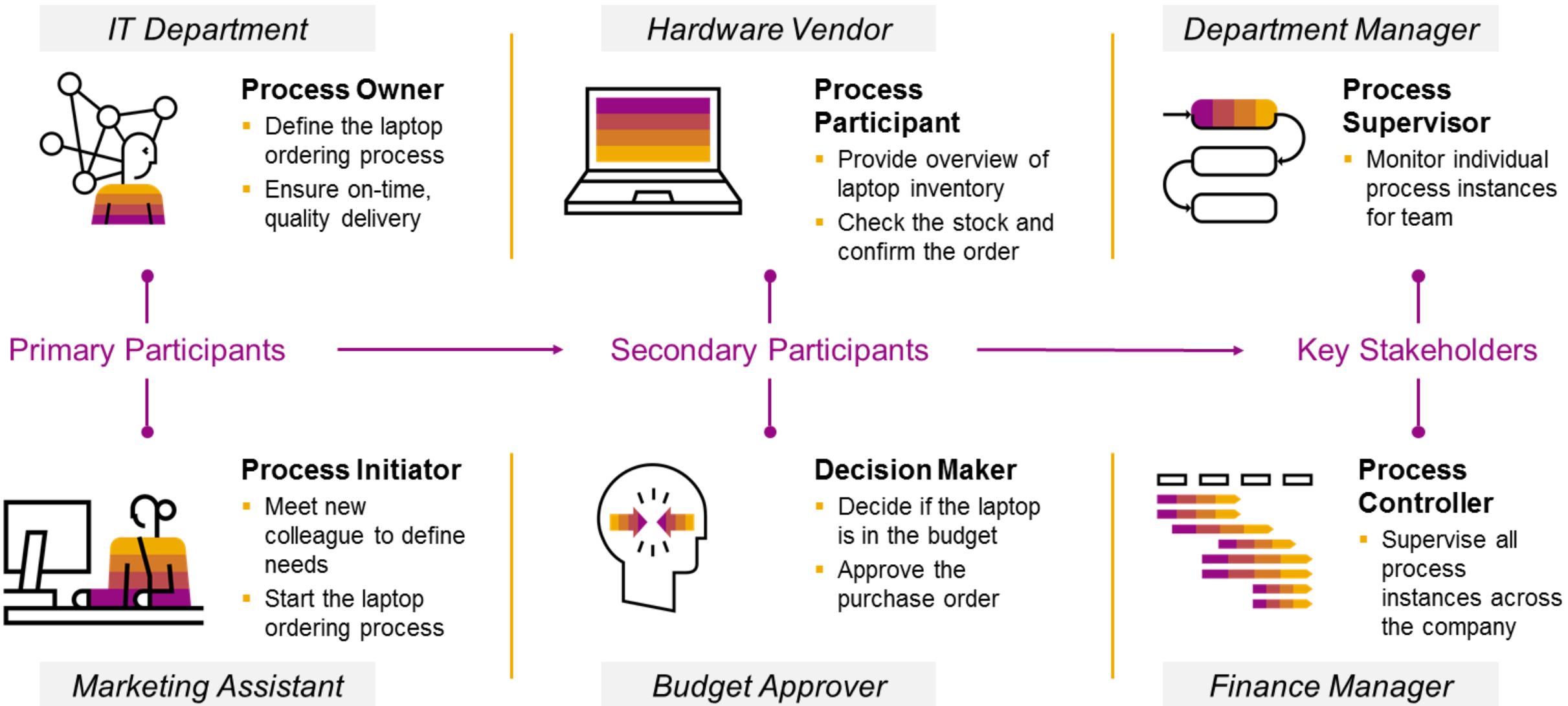
# Participants in an average Business Process

## 3 main types of participants

- Primary participant
- Secondary participant
- Need to be kept informed of process

Primary Participant	Secondary Participant	Need to be kept informed
Process owners, Process initiators	Process Participants, Decision makers	Instance status, Metrics visibility
Example. Ordering a new laptop	Example. Ordering a new laptop	Example. Ordering a new laptop
<b>Process owner</b> <ul style="list-style-type: none"><li>• Defines and owns the entire process</li><li>• IT department</li></ul> <b>Process initiator</b> <ul style="list-style-type: none"><li>• Hiring manager, HR, New employee</li></ul>	<b>Process participant</b> <ul style="list-style-type: none"><li>• Hardware vendor</li></ul> <b>Decision maker</b> <ul style="list-style-type: none"><li>• Approver</li></ul>	Informed about individual instance <ul style="list-style-type: none"><li>• Manager</li></ul> Informed about wider overview <ul style="list-style-type: none"><li>• Financial controller</li></ul>

# Roles Involved in a Laptop Ordering Process



# Business Process Management (BPM)

- Business Process Management is how an organization can analyze, measure and improve its processes
- Can bring great benefits
- Can also create resistance to adaptation
- Important to strike right balance between standardization and flexibility
- **Methodology itself is not a software, but can be greatly facilitated by software**

# Business Process Management Software

Enterprise level software that enable business to design, model, execute, automate, monitor and improve their process

## Benefits

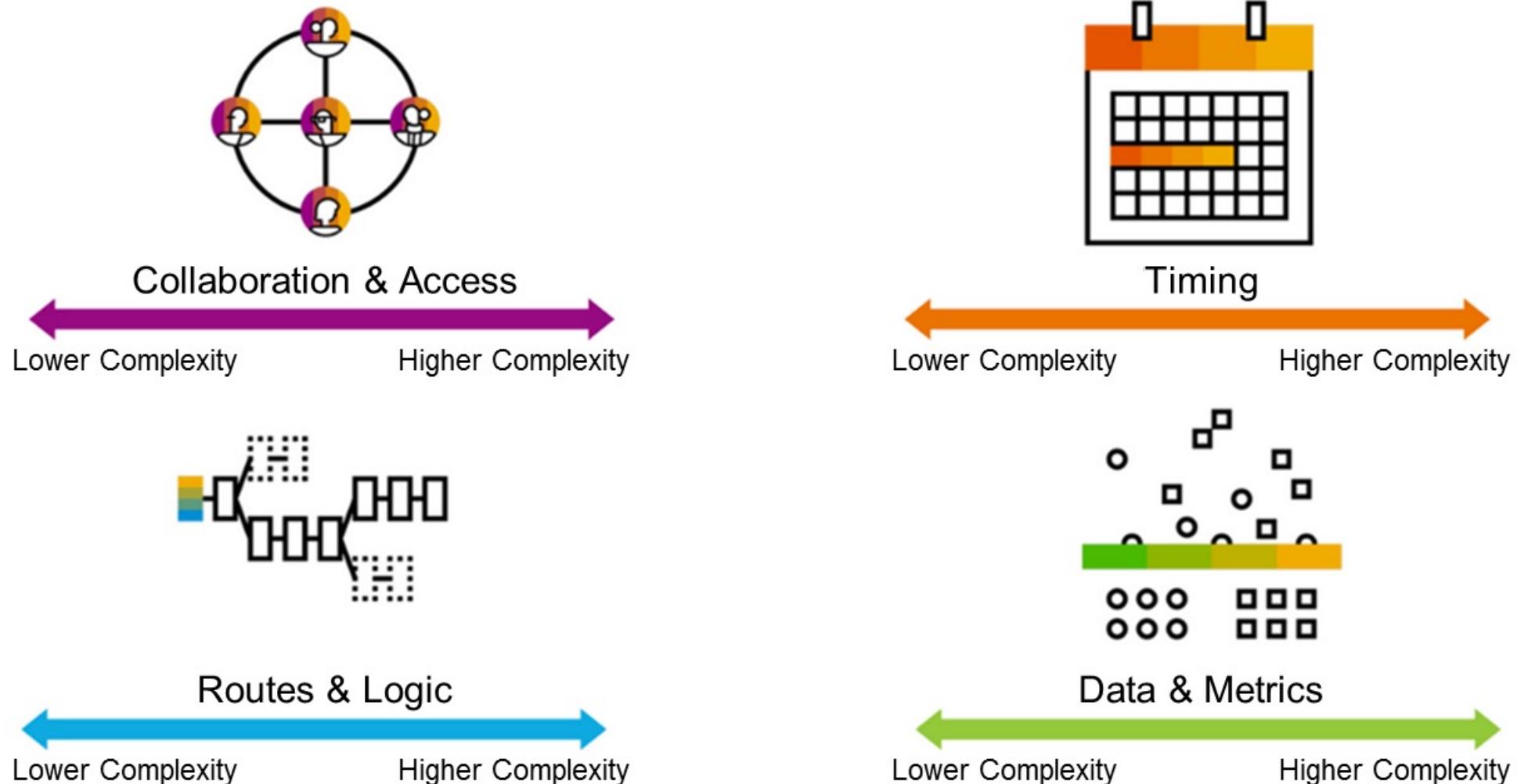
- Efficiency – standardized set of tools to manage processes
- Identify problems quickly
- Collaboration between departments – easier and automatic
- Frees people from doing boring / chaotic work

## Automation Capabilities

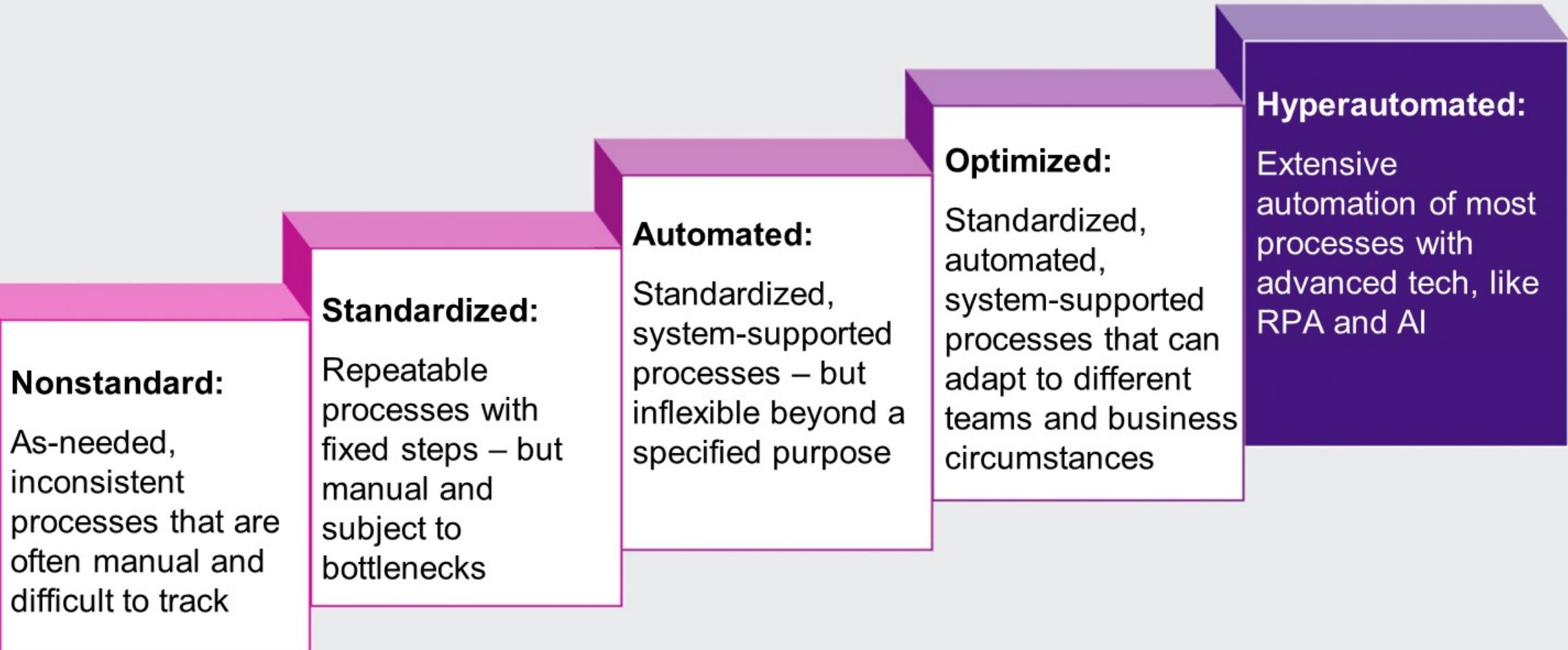
- Process automation – Perform complex business process automatically

# Factors for Complexity

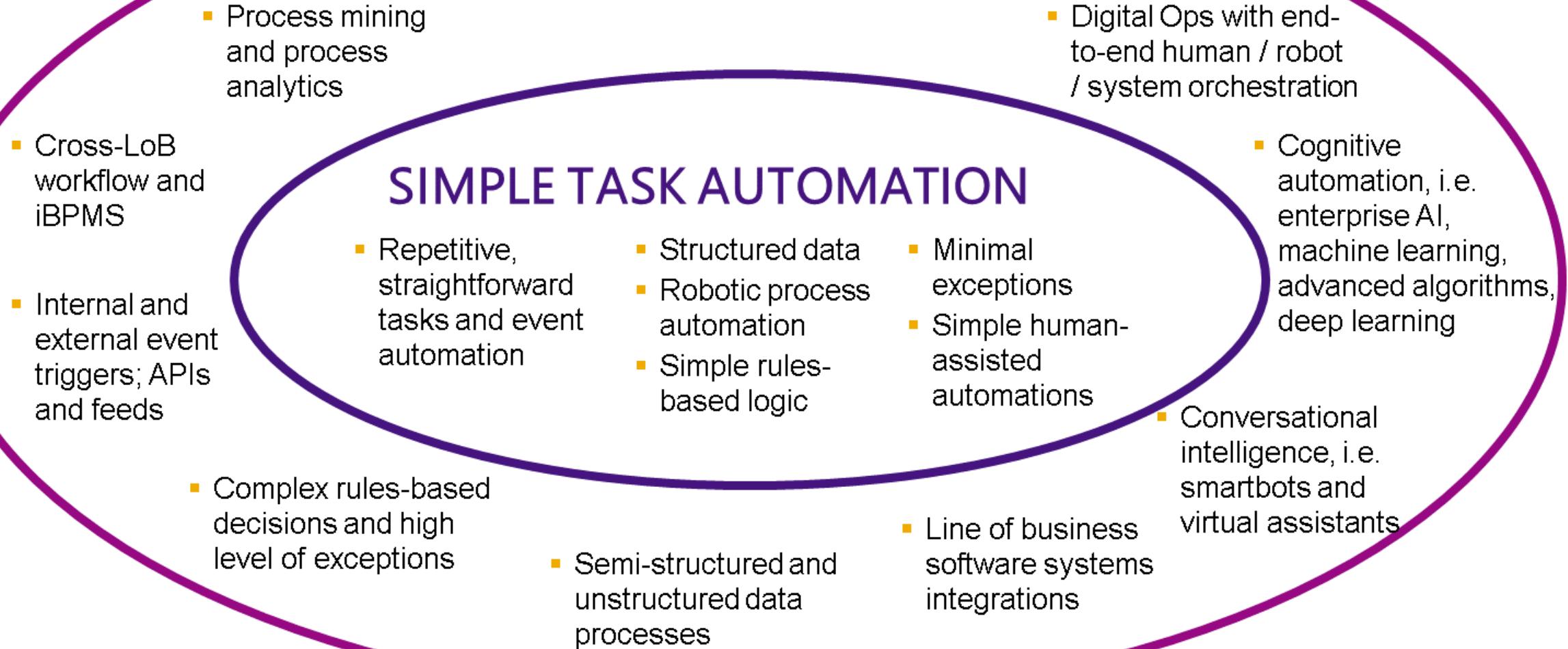
Each business process has unique goals, paths and needs. There are four key factors that increase the complexity of mapping, running and automating a business process.



# The Process Automation Maturity Spectrum



# HYPERAUTOMATION



# Enterprise Problems and LCNC Solutions

## Enterprise problems driving move to Hyperautomation

- Exponential increase in data
- Global shortage of skilled IT personnel
  - In 2021, shortage close to 40 million IT folks globally
  - Expected to reach more than 85 million IT folks by 2030

## Hyperautomation using newer technology

- Artificial Intelligence (AI), Machine Learning (ML), Robotic Process Automation (RPA)
- Combined with Low-Code / No-Code tools

## **Challenges of organizations' digitalization**

Organizations today are facing critical digitalization challenges and they struggle to innovate at the speed the business demands.

Rapidly evolving customer requirements are accelerating the demand for cloud solutions.

Limited development resources are inhibiting digitalization.

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

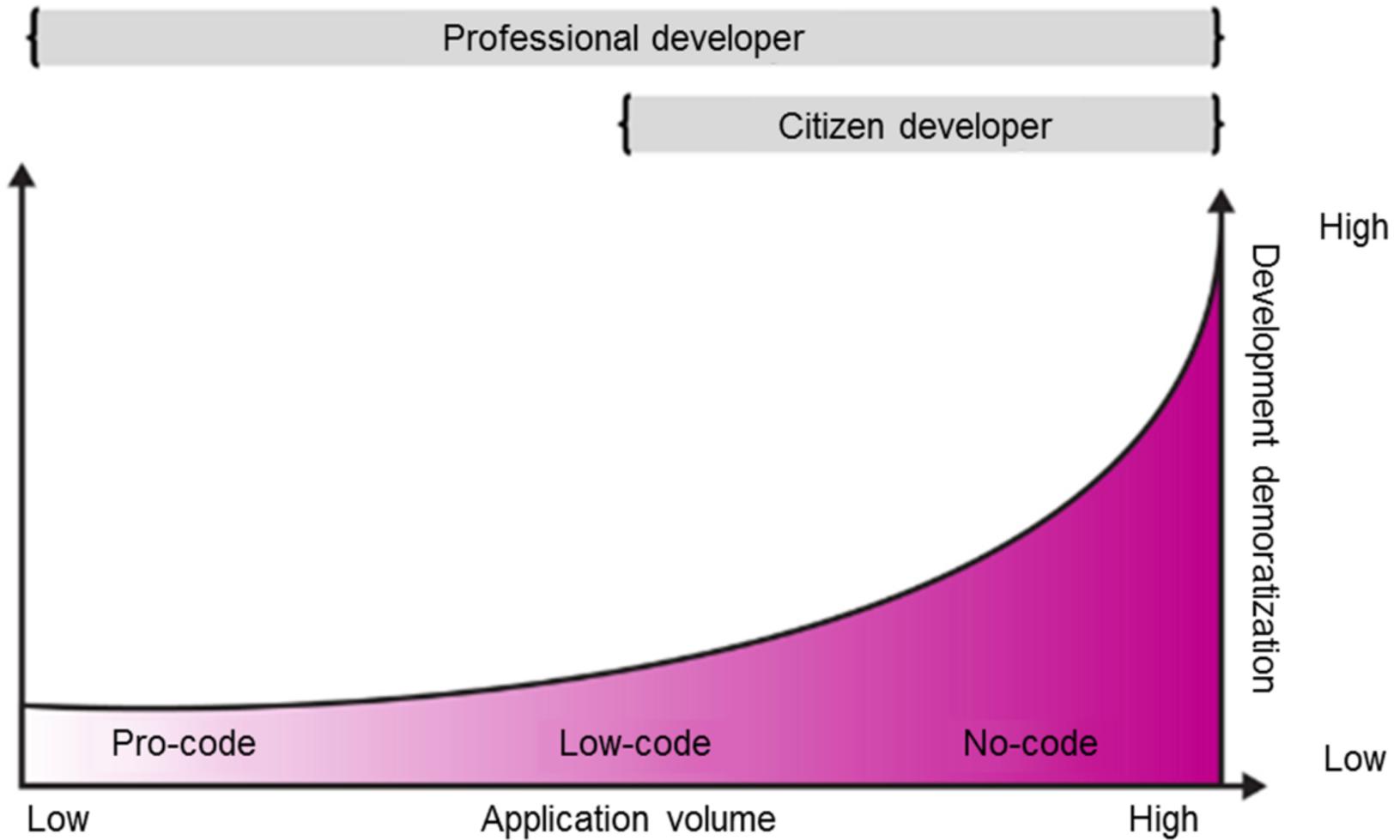
# Challenges, Roadblocks, Coping Strategies

- No overarching strategy or roadmap
- Lack of transparency about software in use
- Incomplete or missing documentation
- Inadequate training opportunities
- Drawbacks of Shadow IT
  - Any kind of technical workaround not approved by IT
  - Can be quick fixes for urgent needs, but with dire consequences

# Low-Code / No-Code adoption

- IT department can set up a citizen development **Center of Excellence**
  - Define the strategy and goals for implementing low-code / no-code program
  - Actively help the growth of citizen development at your company
- Find or create stakeholders – Right program to roll out
- Training is vital – for all key personas
- Fast wins by leveraging pre-built content

# Citizen Developer



# Citizen Development and Low-Code/No-Code Platform

## versus code-first platform



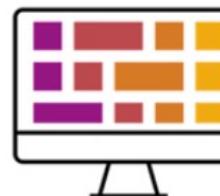
**Enhanced ROI** by optimizing existing investments using simplified SAP integrations



**Maximized speed and agility** through accelerated delivery



**Increased adoption** of new processes and applications



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



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



**Reduced the total cost** of enterprise software development

# Low-Code / No-Code Development

## No-Code Development

- Disruptive technology
- Primary Participant of a Business Process

## Low-Code Development

- Slightly more complex than No-Code
- Some knowledge of logic and analytical thinking

# SAP Build

- SAP Build Process Automation (f.k.a. SAP Process Automation)
  - Jumpstart automation projects with 340+ line-of-business and industry-specific process content packages, RPA bots and connectors
  - Action projects can encapsulate APIs as simple to use logic and make them available to business users for use in low-code projects.
- SAP Build Apps (f.k.a. SAP AppGyver)
  - Build mobile and web apps using 500+ templates and pre-built business logic components
  - REST integration wizard for modern APIs, SAP BTP Authentication for login and access control, and native integration with SAP Service Cloud.
- SAP Build Work Zone (f.k.a. SAP Work Zone and SAP Launchpad service)
  - Boost time to value with pre-built line-of-business-specific content packages (for example, for SAP Success Factors)
  - Leverage APIs and pre-built UI-integration cards to create a single access point to applications, processes, information, and data on any device.

## **Identify typical scenarios for automation and applications**

- Automate manual, repetitive tasks such as copy-pasting data into a spreadsheet.
- Digitalize manual and semi-automated processes, for example, capital expenditure approvals.
- Automate when there is a high volume of process steps, think of entering sales order data.
- Automatically aggregate data from multiple systems, and purchase record updates.
- Extend and adapt the standard flows of your business applications (SAP or non-SAP, on-premise or in the cloud), for example adding several levels of approvals for a sales order.
- Automate end-to-end cross-application workflows, that span several systems (for example your ERP and your human resources (HR) systems), in employee onboarding processes.

# **End-to-End processes (with sub-processes) for automation**

- Lead-to-cash (finance) –capital expenditure approvals, invoice approvals, and account opening.
- Hire-to-retire (HR) —relocation, visa permits, HR employee self-services, managing contingent workers.
- Design-to-operate (general) –updating master data records, document approval, and lead generation workflows.
- Source-to-pay (procurement) –return order process, incident management, procurement data collection.

# SAP Build Personas

## Professional developers

- Code-first programmers with skills in various coding languages and technologies who designs, develops, tests and deploys cloud native apps and reusable services following a development lifecycle with testing and versioning.

## Citizen developers (a.k.a. business builders)

- No coding skills, but deep business expertise and technical acumen (not necessarily IT-skills). Builds and publishes LCNC apps and customizations. Uses IT-sanctioned tools and platform-supported processes. Is unaware of DevOps aspects but learns through citizen developer education.

## IT administrators

- The DevOps team has the IT skills to build, run, manage, and maintain the software systems, security and governance.
- IT departments want to use low-code/no-code because data and processes are too fragmented. Legacy systems are limited and slow to improve, and they are unable to respond quickly to business requirements.

## Fusion teams:

Business users and experienced developers can collaborate on projects using the development solutions that best fit their respective skills.

- Business users: domain expertise
- Experienced developers; leverage code-first solutions to develop complex logic and make it available for business users
- IT: safeguard operations

# Set Up SAP Build

## Prerequisites for the free editions

- Open BTP Pay-as-you-go Enterprise Account (not Trial Account) [Get an Account on SAP BTP to Try Out Free Tier Service Plans](#)
- SAP Build Process Automation
  - Run the booster: [procedure](#)
  - robotic programming automation: download Desktop Agent <https://tools.hana.ondemand.com/#cloud> (Windows OS only)
- SAP Build Apps
  - Run the booster: [procedure](#)
  - Install Preview app on mobile devices (from [GooglePlay](#) for Android phone or [Apple Store](#) for iPhone)
- SAP Work Zone: no hands-on exercises in this Learning Journey (details in [a dedicated Learning Journey](#))

# Learning Channels

## **Finding More Ways to Learn the SAP Build Toolset**

In this topic, you will learn about the available channels to find information about low-code / no-code learning and SAP Build content:

- SAP Learning
- SAP Discovery Center
- SAP Community
- SAP Help Portal
- SAP Build YouTube
- SAP Build LinkedIn

# What have we learnt so far

- What is a Business Process ?
- Key roles in a Business Process
- What is Business Process Management and its software ?
- Process automation in your business
- Challenges of implementing automation
- New field of Hyperautomation
- What are Citizen Development, LCNC?
- Key personas of LCNC
- Challenges, roadblocks and coping strategies to LCNC
- Low-Code / No-Code adoption

# Key Summary Points

Primary Participant	Secondary Participant	Need to be kept informed
Process owners, Process initiators	Process Participants, Decision makers	Instance status, Metrics visibility
Example. Ordering a new laptop  <b>Process owner</b> <ul style="list-style-type: none"><li>• Defines and owns the entire process</li><li>• IT department</li></ul> <b>Process initiator</b> <ul style="list-style-type: none"><li>• Hiring manager, HR, New employee</li></ul>	Example. Ordering a new laptop  Process participant <ul style="list-style-type: none"><li>• Hardware vendor</li></ul> Decision maker <ul style="list-style-type: none"><li>• Approver</li></ul>	Example. Ordering a new laptop  Informed about individual instance <ul style="list-style-type: none"><li>• Manager</li></ul> Informed about wider overview <ul style="list-style-type: none"><li>• Financial controller</li></ul>

# Key Summary Points

## Hyperautomation

Rapidly identify and automate as many business and IT processes as possible

Achieved using multiple technologies, tools, platforms including

- Artificial Intelligence (AI)
- Machine Learning (ML)
- Robotic Process Automation (RPA)
- Business Process Management Software (BPMS)
- Low code No code tools

# Key Summary Points

## 2 major forms of business processes

- Micro
- Macro

Micro Process	Macro Process
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# Key Summary Points

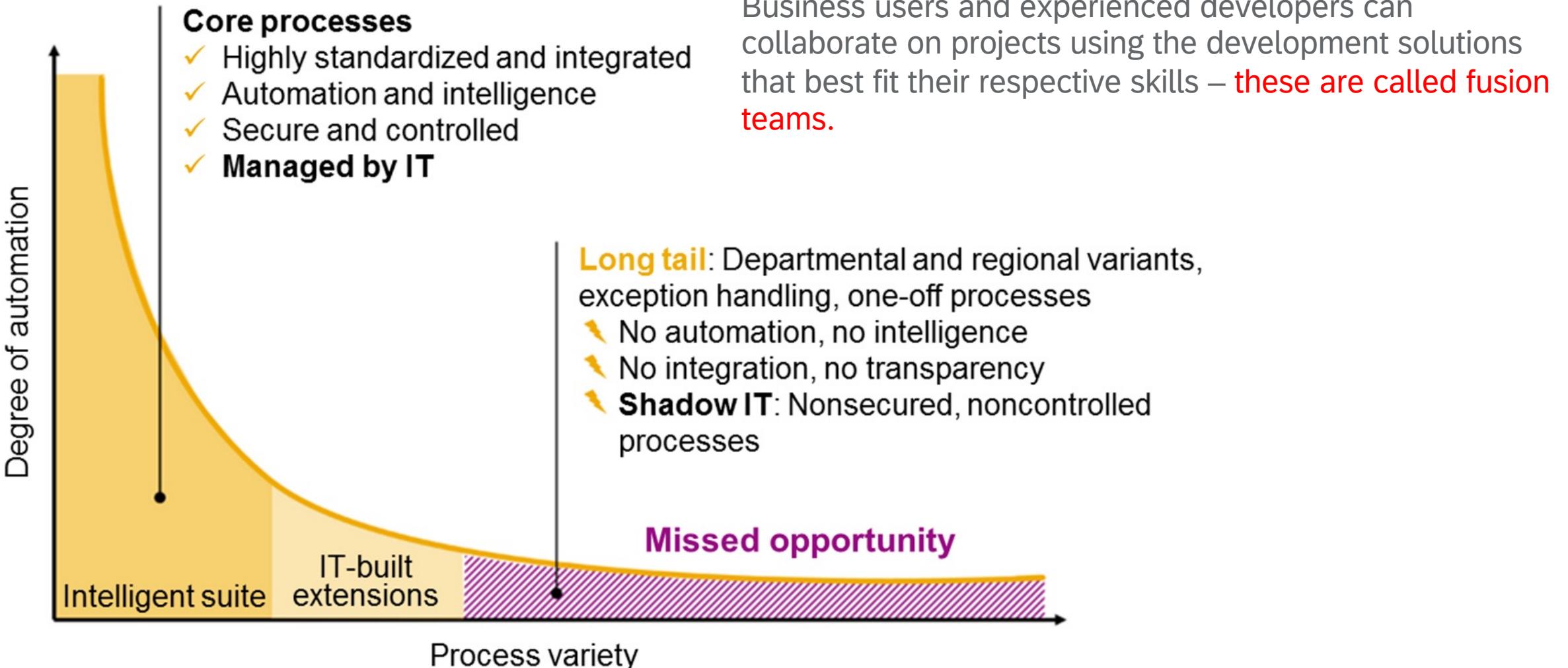
## Question 3

*Choose the correct answer.*

A business process which is customized to individual situations, departments, or organizations is known as a what?

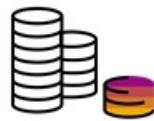
- Long tail process
- Long lead process
- Long legged process
- Long side process

# Key Summary Points



# Why choose low-code/no-code application development from SAP?

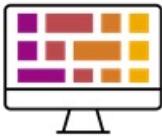
Our no-code/low-code approach offers valuable benefits for your business.



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



**Maximized speed and agility** through accelerated delivery



**Increased adoption** of new processes and applications



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



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



**Reduced total cost of development**



# Key Summary Points

## Question 6

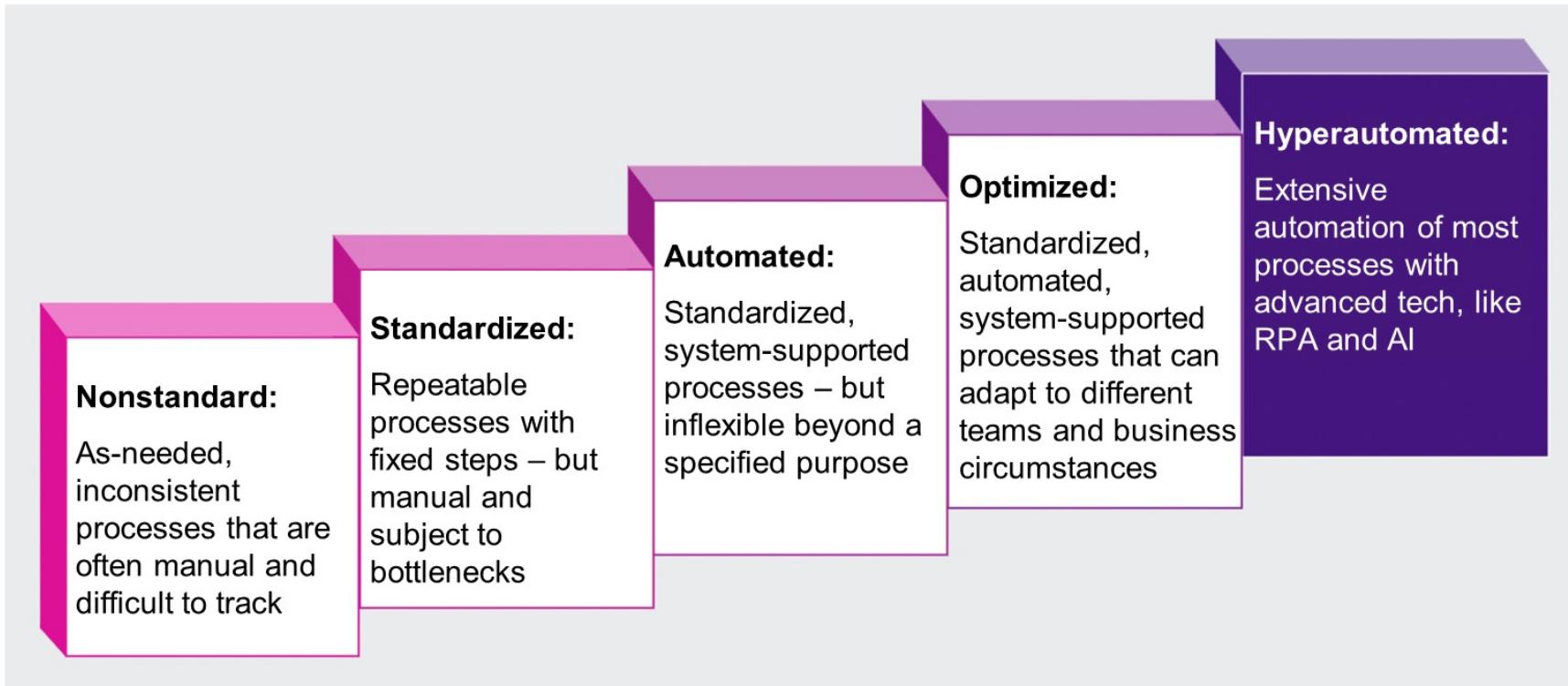
*Choose the correct answer(s).*

Which of the following are considered a benefit of a well-defined business process?

- Improved efficiency
- Streamlined communication
- Increased organizational agility
- Reduced headcount

# Key Summary Points

## The Process Automation Maturity Spectrum



# Key Summary Points

## Question 14

*Choose the correct answer(s).*

Which of the following are typically major features of Business Process Management Software (BPMS)?

- ✓  Drag and drop form builder
- ✓  Visual process designer
- ✓  Testing and simulation tools
- Video editing

# Key Summary Points

## Question 17

*Choose the correct answer(s).*

Timing is one of the key complexity factors involved in automating business processes. What are the other three?

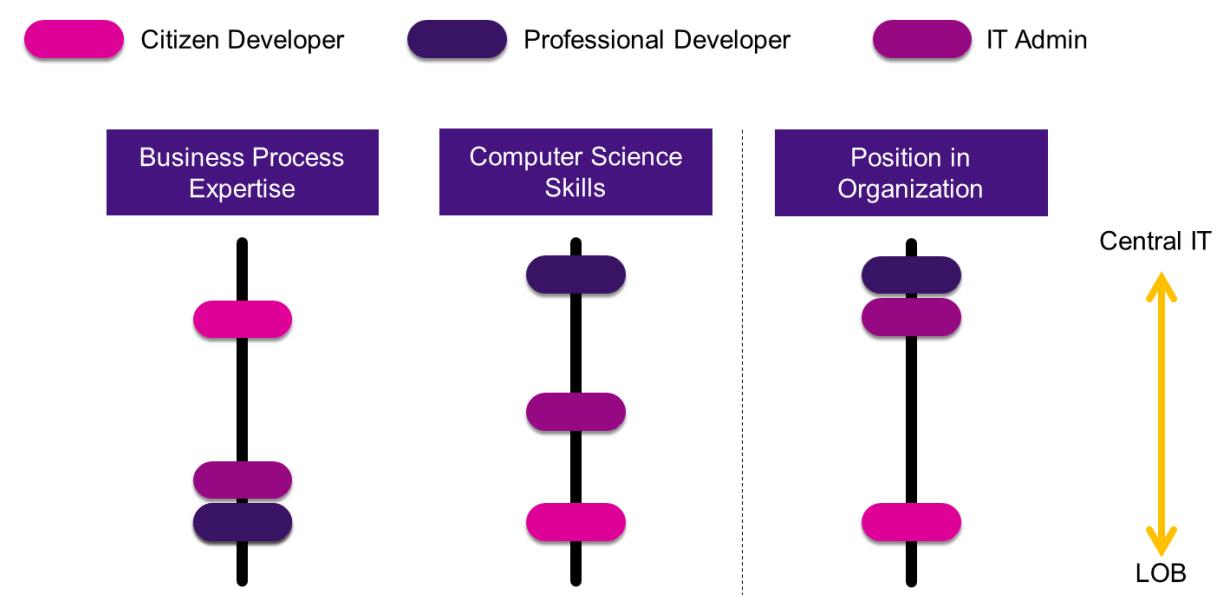
- Collaboration and access
- Routes and logic
- Affordability
- Data and metrics



# Key Summary Points

- Citizen Developers
  - Primary Participant, Business users
  - Low computer science skills
- Professional Developers
- IT Administrators

Summary of Skills Along the Developer Continuum



# Key Summary Points

## Enterprise problems driving move to Hyperautomation

- Exponential increase in data
- Global shortage of skilled IT personnel
  - In 2021, shortage close to 40 million IT folks globally
  - Expected to reach more than 85 million IT folks by 2030

## Hyperautomation using newer technology

- Artificial Intelligence (AI), Machine Learning (ML), Robotic Process Automation (RPA)
- Combined with Low-Code / No-Code tools

# Key Summary Points

- Drawbacks of Shadow IT
  - Any kind of technical workaround not approved by IT
  - Can be quick fixes for urgent needs, but with dire consequences

# Key Summary Points

## Question 1

*Choose the correct answer(s).*

What problems are low-code / no-code and citizen development able to address for the enterprise?

- A worldwide shortage of skilled IT workers.
- Growing IT backlogs.
- The prevalence of shadow IT.
- Too many low-quality enterprise resource management systems.

# Key Summary Points

## Question 2

*Choose the correct answer.*

What is no-code development primarily intended for?

- To help employees that are process experts to automate tasks and build simple applications.
- To replace the need for professional developers in big companies.
- To simplify complex development projects.

# Key Summary Points

## Question 3

*Choose the correct answer(s).*

How does hyperautomation relate to low-code /no-code and citizen development?

- It doesn't, only professional developers can work with hyperautomation technologies.
- It allows citizen developers to work with robotic process automation.
- It makes intelligent technologies, such as AI, more accessible.
- It takes care of simple task automation.

# Key Summary Points

## Question 6

*Choose the correct answer(s).*

What are the benefits of low-code / no-code and hyperautomation to companies?

- Maximize the value they can get from existing applications.
- Increasing customer satisfaction due to faster working speed with fewer errors.
- Increasing employee satisfaction by minimizing their time on boring, repetitive work.
- No training required for employees to get started.

# Key Summary Points

## Question 7

*Choose the correct answer(s).*

What are some challenges and roadblocks to implementing low-code / no-code and citizen development?

- No overarching strategy or roadmap.
- Processes are not clearly documented or understood.
- Affordability
- Lack of training programs.

# Key Summary Points

## Question 9

*Choose the correct answer(s).*

**What is pre-built content?**

- Content packages that have been pre-built to address common automation use cases in the enterprise.
- Development packages that only professional developers can use.
- Workflows and bots that have been developed for out-of-box use and can be found in marketplaces.
- Pre-built content is training material that must be learned in order to start using low-code / no-code.

# Key Summary Points

## Question 10

*Choose the correct answer(s).*



How can you foster citizen development in your company?

- Find or create stakeholders that believe in the problem and solution.
- Promote and take the trainings offered to learn about it.
- Start with pre-built content and the easiest use cases.
- Leave it to the IT department to inform the organization when the timing is right.

# SAP Build Process Automation



# Getting started with SAP Build Process Automation

## Pre-requisites

- Setting up SAP Build Process Automation using the Booster
- Install and setup desktop agent

<https://tools.hana.ondemand.com/#cloud>

### SAP Intelligent Robotic Process Automation: Desktop Components for Trial

SAP Intelligent Robotic Process Automation is a hybrid solution made of three components:

- Desktop Studio for designing the automation processes
- Cloud Factory trial tenant for orchestrating the automation
- Desktop Agent for executing the automation

Find below the desktop components, i.e. Desktop Studio and Desktop Agent, that are required to design and execute your bots.

For more information on how to install and set up these desktop components, see the [documentation](#).

Operating System	Version	File Size	Download
Windows (x86_64)	2.0.18.63	324.3 MB	<a href="#">sap-intelligent-roa-2.0.18.63.msi (sha1)</a>
Windows (x86_64)	2.0.19.50	324.3 MB	<a href="#">sap-intelligent-roa-2.0.19.50.msi (sha1)</a>
Windows (x86_64)	2.0.20.91	324.3 MB	<a href="#">sap-intelligent-roa-2.0.20.91.msi (sha1)</a>
Windows (x86_64)	2.0.21.103	324.3 MB	<a href="#">sap-intelligent-roa-2.0.21.103.msi (sha1)</a>
Windows (x86_64)	2.0.22.91	324.3 MB	<a href="#">sap-intelligent-roa-2.0.22.91.msi (sha1)</a>
Windows (x86_64)	2.0.23.85	324.3 MB	<a href="#">sap-intelligent-roa-2.0.23.85.msi (sha1)</a>

### More Information

The downloads are provided under the terms of the [SAP DEVELOPER LICENSE AGREEMENT](#).

# Getting started with SAP Build Process Automation

The screenshot shows the SAP Cloud Platform Subaccount service marketplace interface. On the left, a navigation sidebar lists various services under categories like Overview, Services, Connectivity, Security, Entitlements, and Usage Analytics. The 'Instances and Subscriptions' link under the Services category is highlighted with a red box. The main content area displays a table of applications to which the subaccount is subscribed. The table has columns for Application, Plan, and Labels. One row for 'SAP Process Automation' is highlighted with a red box. The application details are as follows:

Application	Plan	Labels
Web access for ABAP	default	
SAP AI Launchpad	standard	
Document Information Extraction UI	default	
Event Mesh	standard	
SAP IoT	oneproduct	
Integration Suite	standard_edition	1 label
<b>SAP Process Automation</b>	<b>standard</b>	
SAP Conversational AI	standard	
SAP AppGyver	standard	
SAP Business Application Studio	standard-edition	
Launchpad Service	standard	
Subscription Management Dashboard	application	

# Introducing SAP Build Process Automation

## Important new tool for Hyperautomation

- SAP Build Process Automation
- Business Process expert can digitize your workflows using LCNC

## Things to consider for Business Automation



Rapidly changing,  
very volatile market  
conditions

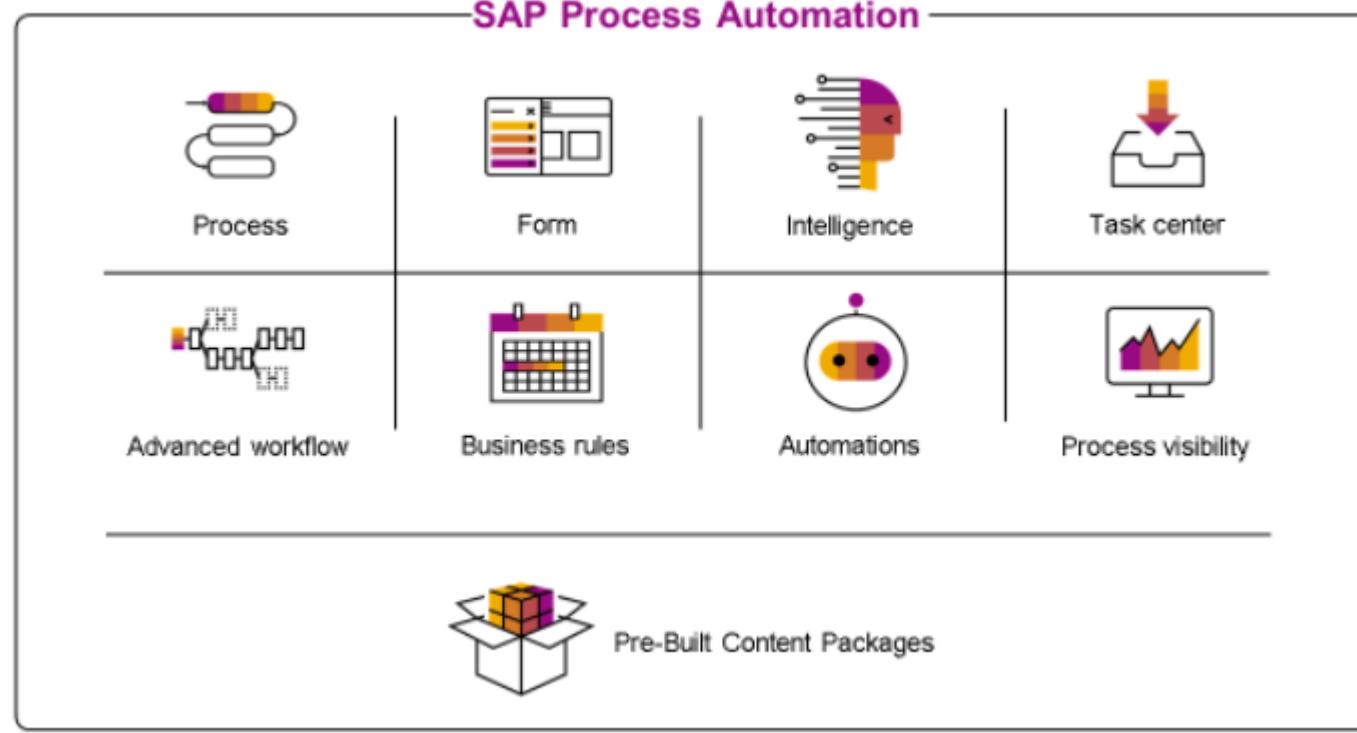


Being connected  
to the relevant  
business applications



Acquire the tools that will  
let you deliver a solution  
yourself

# Introducing SAP Build Process Automation



**Process:** ability to create processes using drag and drop tools

**Advanced workflow:** reuse workflows from SAP Workflow Management

**Form:** view information, approve and reject requests

**Business rules:** include policies in the process flow

**Intelligence:** make use of some ML

**Automations:** use RPA for automations

**Process visibility:** monitor performance of processes

**Task center:** one inbox to handle all the tasks

**Content:** pre-built, directly usable packages

# Introduction to SAP Build Process Automation



Simplify automation



Automate faster



Operate confidently

# Use cases for automation

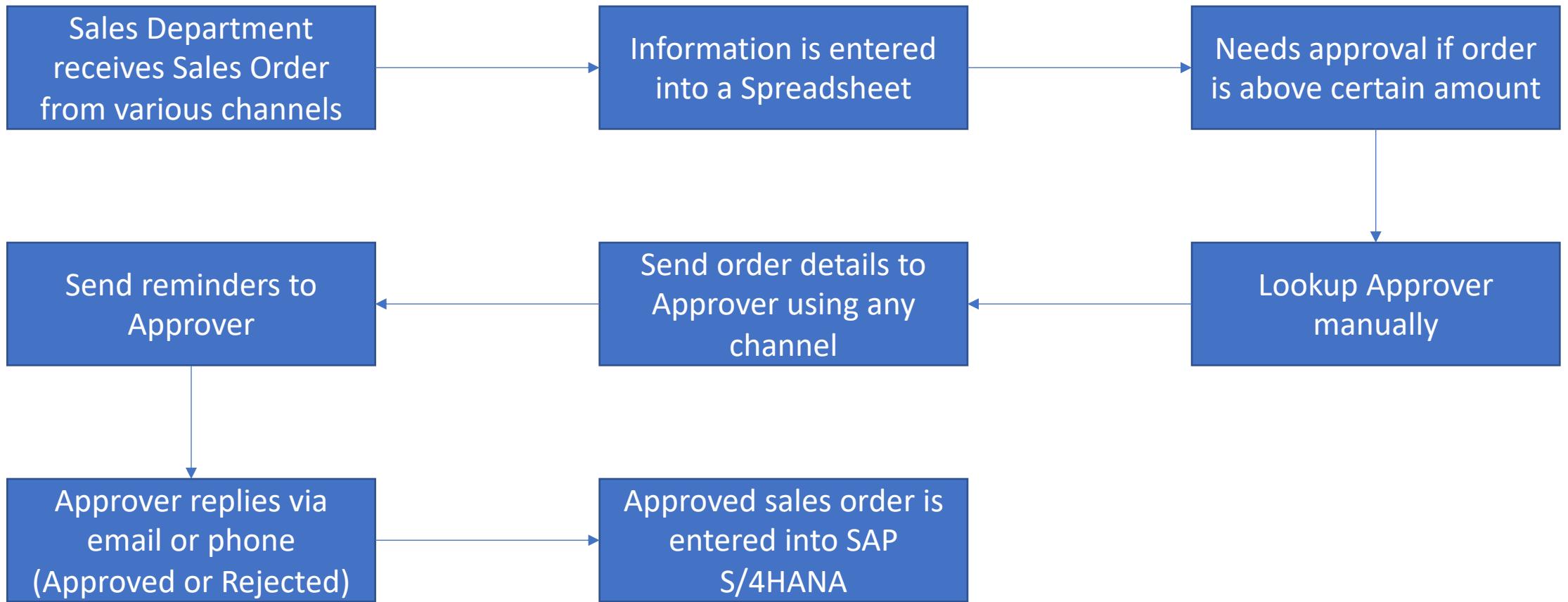
**Lead-to-cash** – for example, capital expenditure approvals, invoice approvals, account opening.

**Hire-to-retire** – for example, relocation, visa permits, HR employee self-services, managing contingent workers.

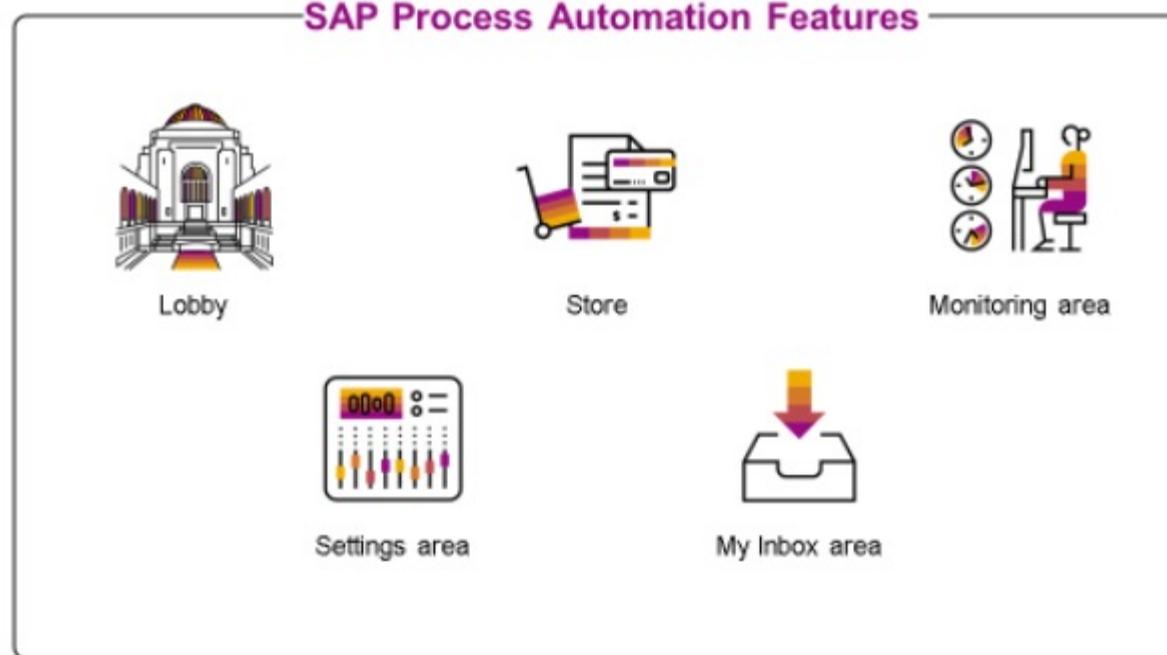
**Design-to-operate** – for example, updating master data records, document approval, lead generation workflows.

**Source-to-pay** – for example, return order process, incident management, procurement data collection.

# Sales Order Management Approval



# SAP Build Process Automation Features



**SAP Application Development**

Lobby    Store    Monitor    Settings

1    2    3    4

Quick Start    Hide

5

This screenshot shows the SAP Application Development interface. At the top, there's a navigation bar with the SAP logo, the text "Application Development", and tabs for "Lobby", "Store", "Monitor", and "Settings". Below the navigation bar, there are four large orange circles numbered 1, 2, 3, and 4, which likely correspond to the features shown in the diagram above. On the left, there's a "Quick Start" button. On the right, there are two circular icons: one containing the number 5 and another with a downward arrow and the letters "HS". A vertical scroll bar is visible on the far right.

# SAP Build Process Automation Features

## Lobby

- Create, manage, deploy business processes

## Store

- Browse, add and use pre-packaged projects offered by SAP

## Monitor

- View and manage specific processes, automation jobs

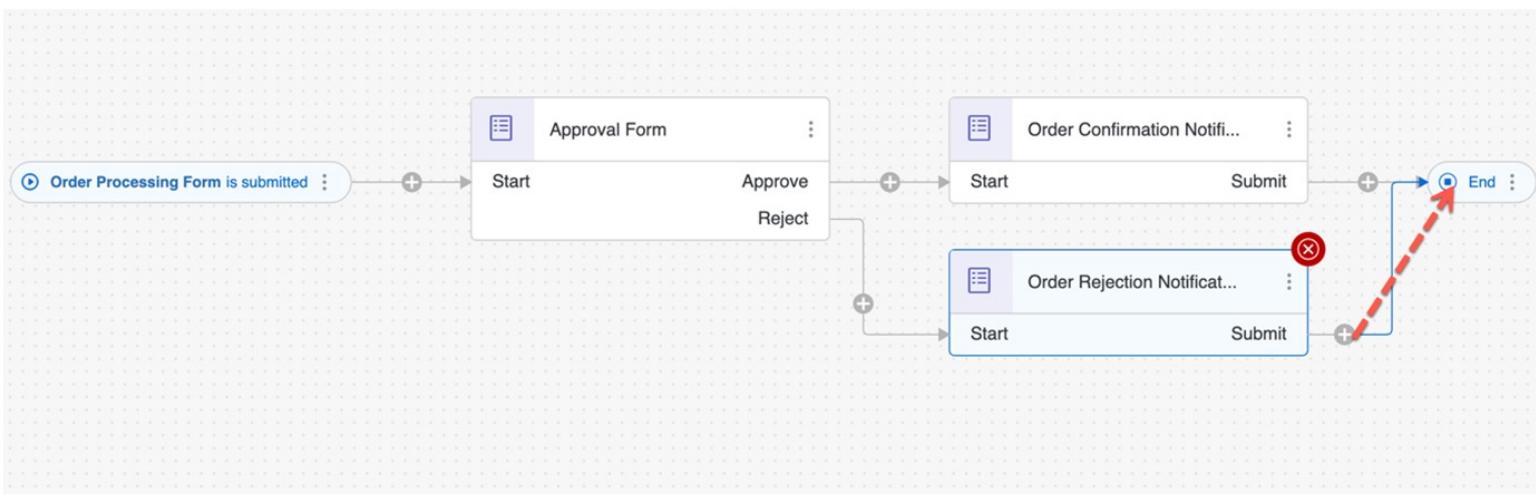
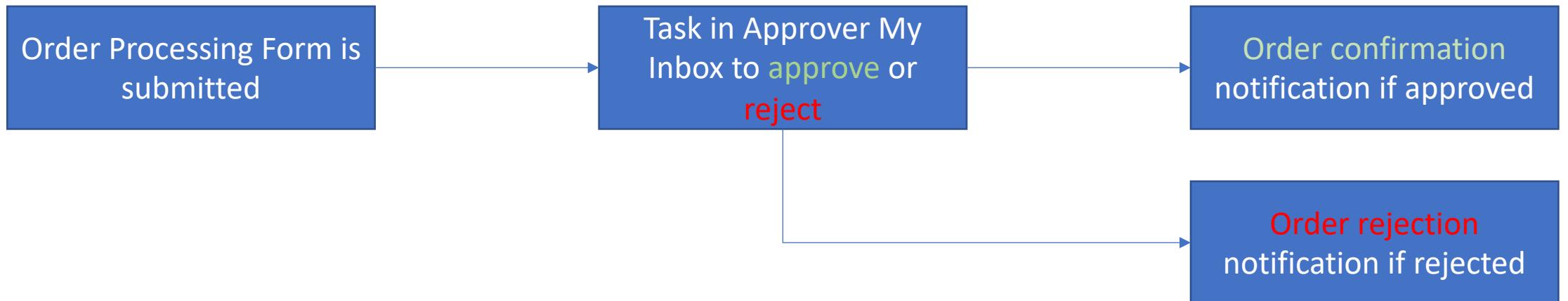
## Settings

- Configure and manage desktop agents, backend settings, API keys

## My Inbox

- Displaying processing your tasks

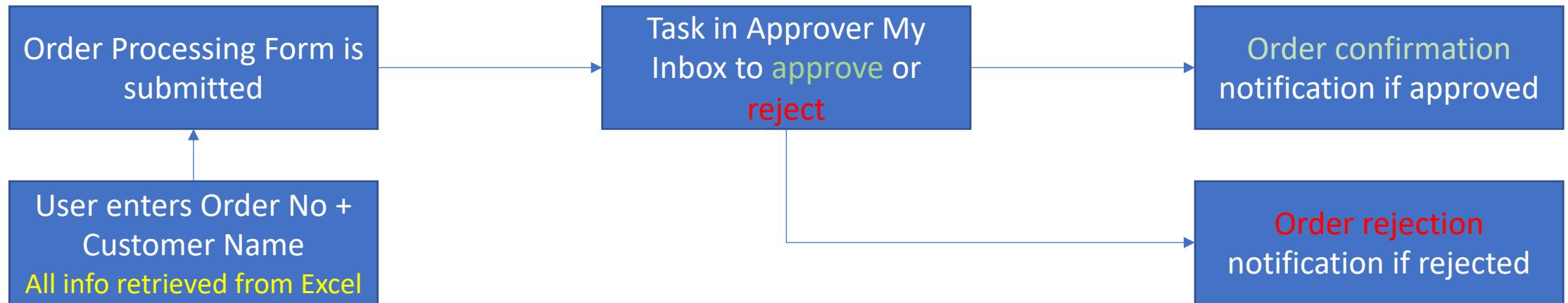
# Get started with a Business Process



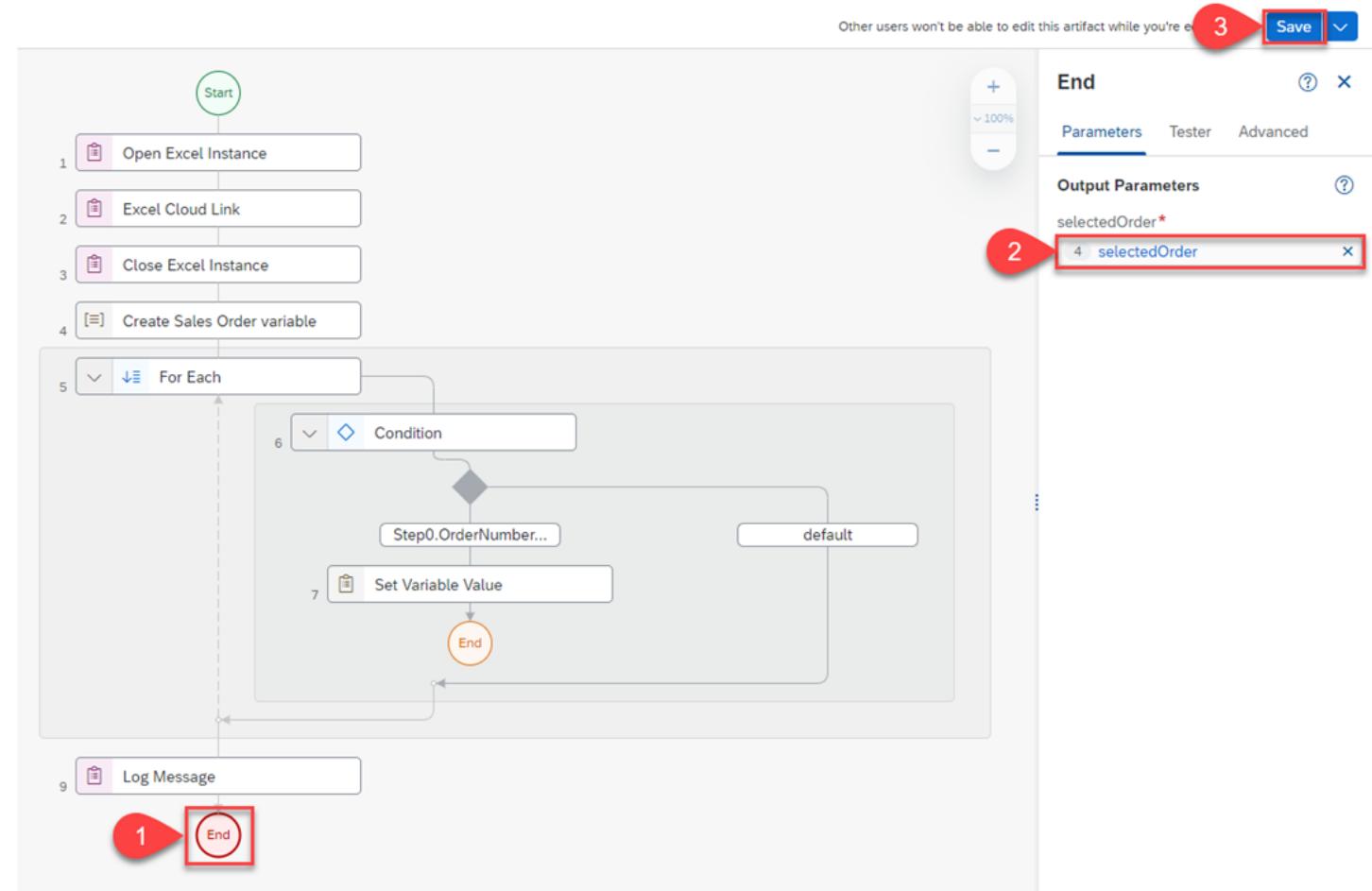
# Steps involved

- Create 4 forms
  - Order Processing Form
  - Approval Form
  - Order Confirmation Notification Form
  - Order Rejection Notification Form
- Connect them all together

# Boosting Business Process with Automation



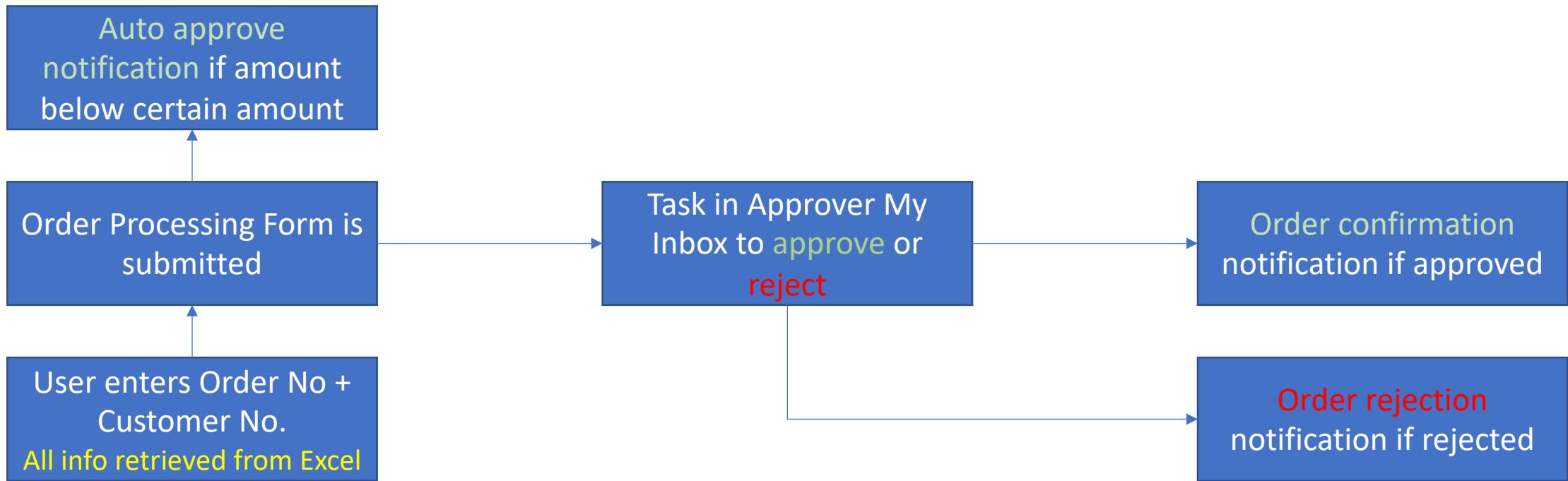
# Boosting Business Process with Automation



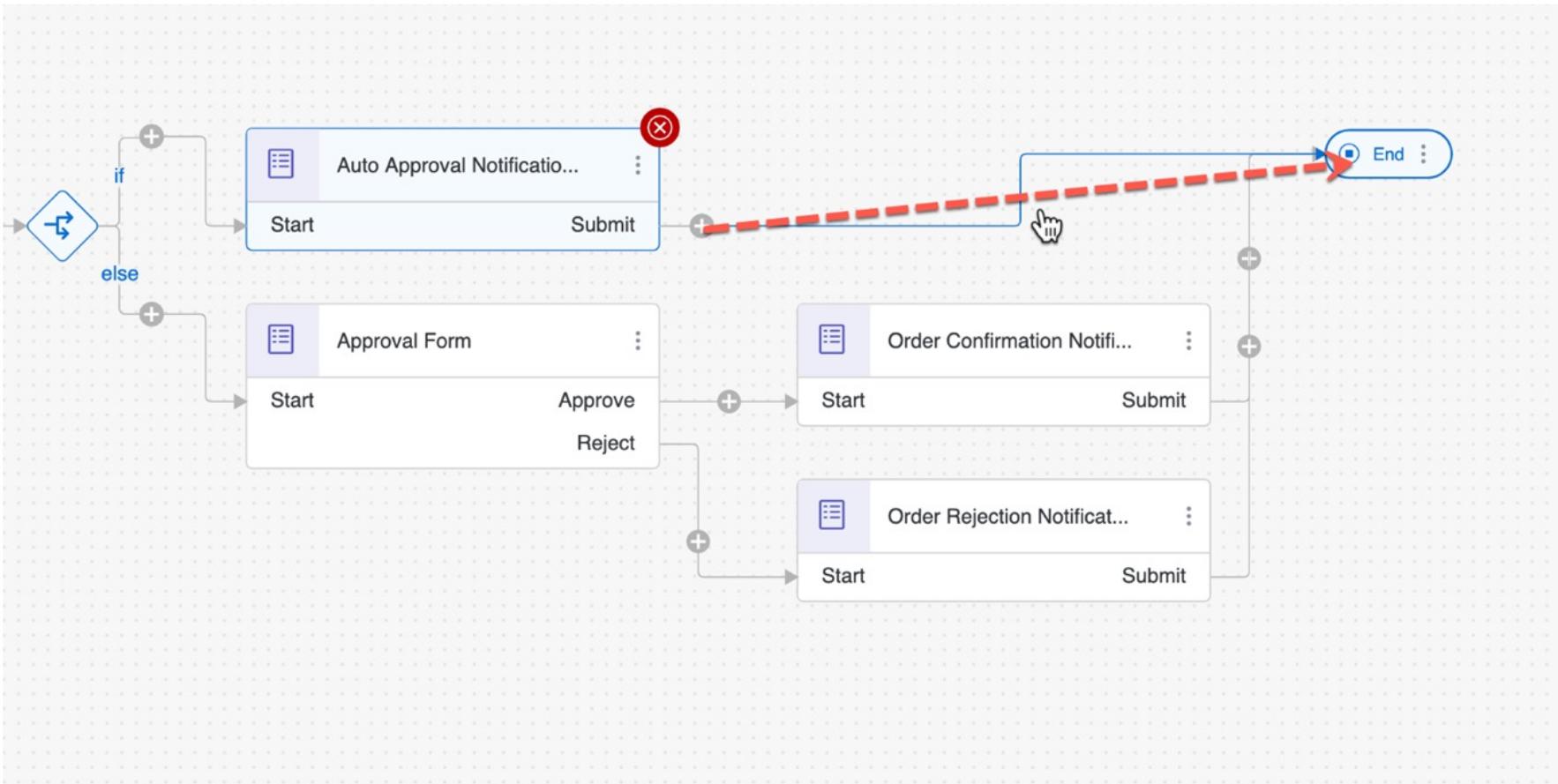
# Steps involved

- Add new automation
  - Open Excel instance
  - Read data into a variable: **Orders**
  - Close Excel instance
  - Loop through **Orders**
    - If order number matches, retrieve row values... Exit loop

# Controlling the flow



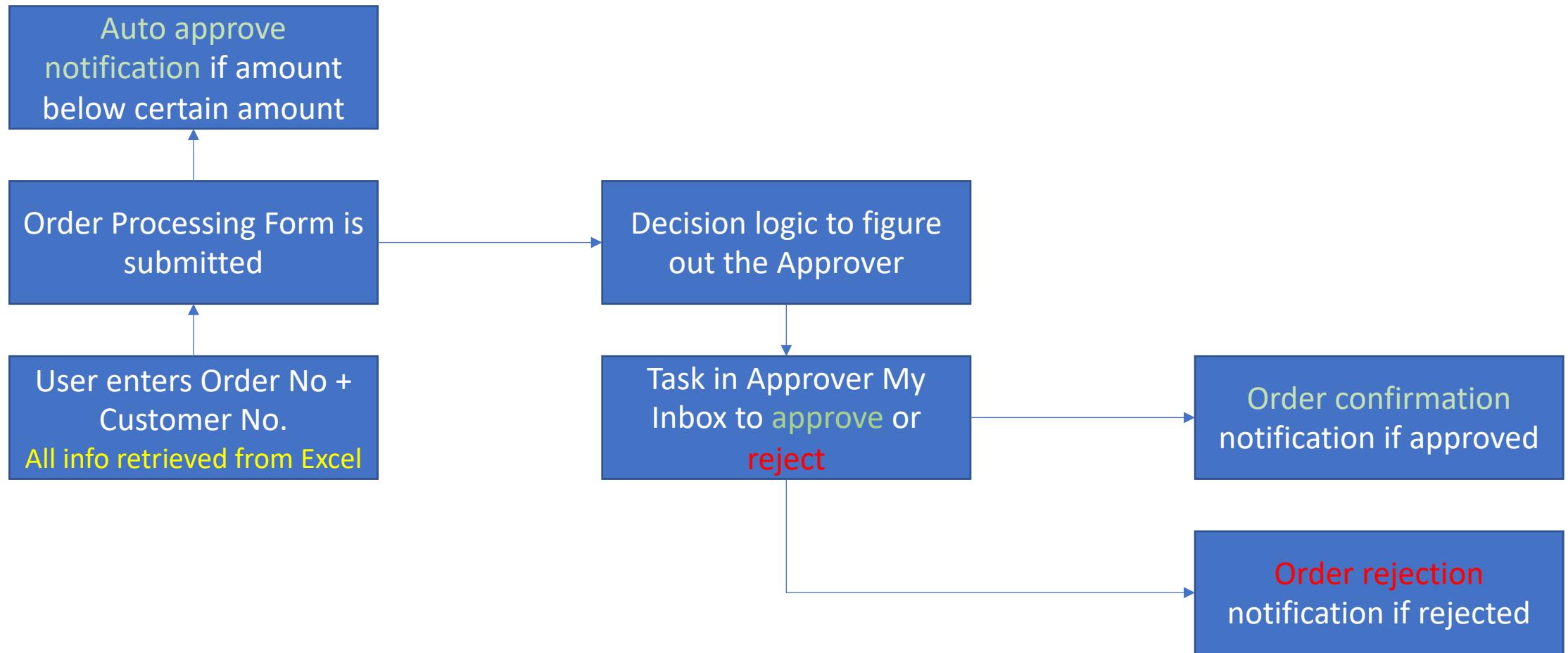
# Controlling the flow



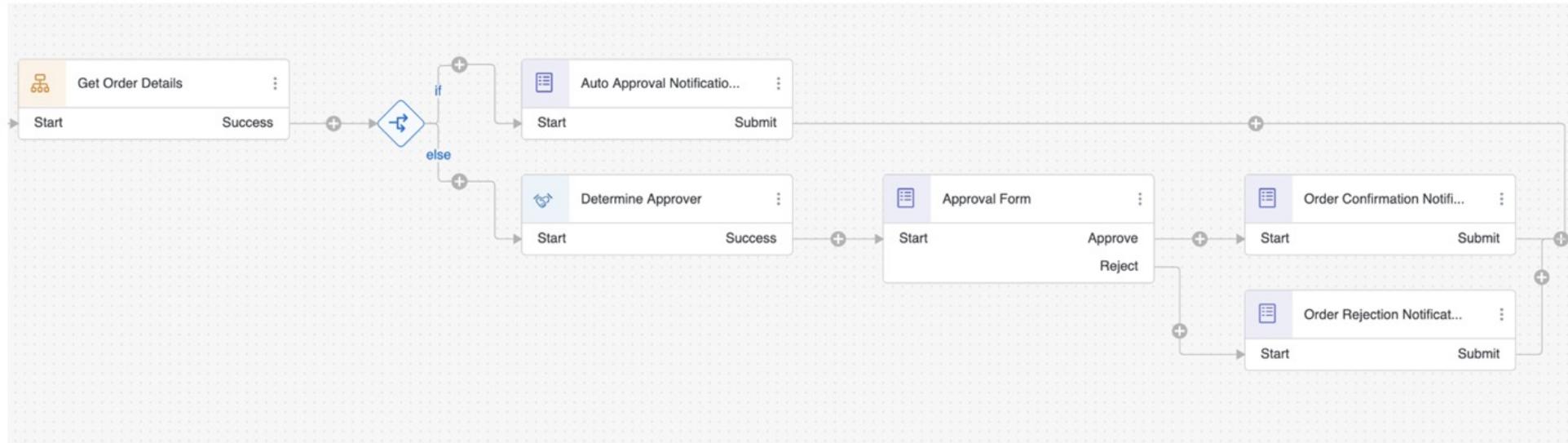
# Steps involved

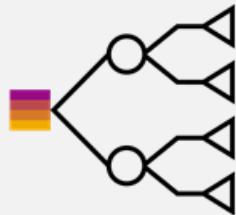
- Add new condition
  - Criteria: Order amount < 100000
  - If **true** – New automatic approval form

# Improving the process with decision logic



# Improving the process with decision logic





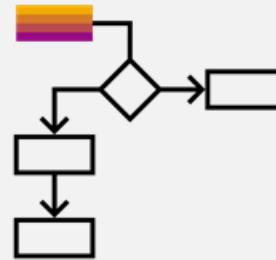
## Decision

Capability through which you can model and manage complex business logic in a well-formed structure that is easy to maintain.



## Policy/Policies

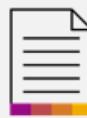
A decision consists of one or more policies. Each policy consists of a collection of rules.



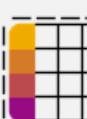
## Decision Diagram

a flow chart that describes the execution flow of the decision logic from the input to the output.

## Rules



Decision Table Rule



Text Rule

# Steps involved

- Add decision to your process
  - Create the rules using decision table
  - Rules will be executed in strict order (order in which they are added to policy)

Shipping Country	Order Amount	User Group	Email
India, Germany	Between 100,000 to 300,000	A	sindy.zhan@sap.com
	Greater than 300,000	B	sindy.zhan@sap.com

# Release, Deploy and Run the Business Process

The screenshot illustrates the workflow for releasing, deploying, and running a business process:

- Release Phase:** A modal dialog titled "Release Project" is open. It contains fields for "Version" (radio buttons for "Contains only patches", "Contains minor changes" (selected), and "Contains significant changes which may impact dependent projects"), "Version Number" (text input: "1.3.0"), "Version Comment" (text area: "added decision to the process and adapted the process"), and an "Optimize for faster execution" checkbox. Buttons for "Release" and "Cancel" are at the bottom.
- Deployment Status:** In the main interface, the "Sales Order Management" process card shows its status as "1.3.0 Released".
- Execution Phase:** The "Sales Order Management" process card is shown in the "Order Management" section, with a "Released" status indicator highlighted by a red box.
- Deployment Phase:** A separate screenshot shows the "Deploy" button highlighted by a red box in the top right corner of the interface.

Page footer details:

- Last updated on: March 10, 2022
- Created on: March 9, 2022
- By: You
- Description: [Redacted]

# Getting visibility into your process

The image displays two screenshots of the SAP Application Development interface, illustrating the creation and configuration of a visibility scenario.

**Screenshot 1: Process Overview**

This screenshot shows the SAP Application Development interface with the "Process" tab selected. A red box highlights the "Visibility Scenario" option under the "Form" category. The interface includes a sidebar with navigation links like Automation, Alert, Application, Project Pane, and User Task. The main area shows two entries for Stephan.Schluchter@sap.com, both dated February 4, 2022.

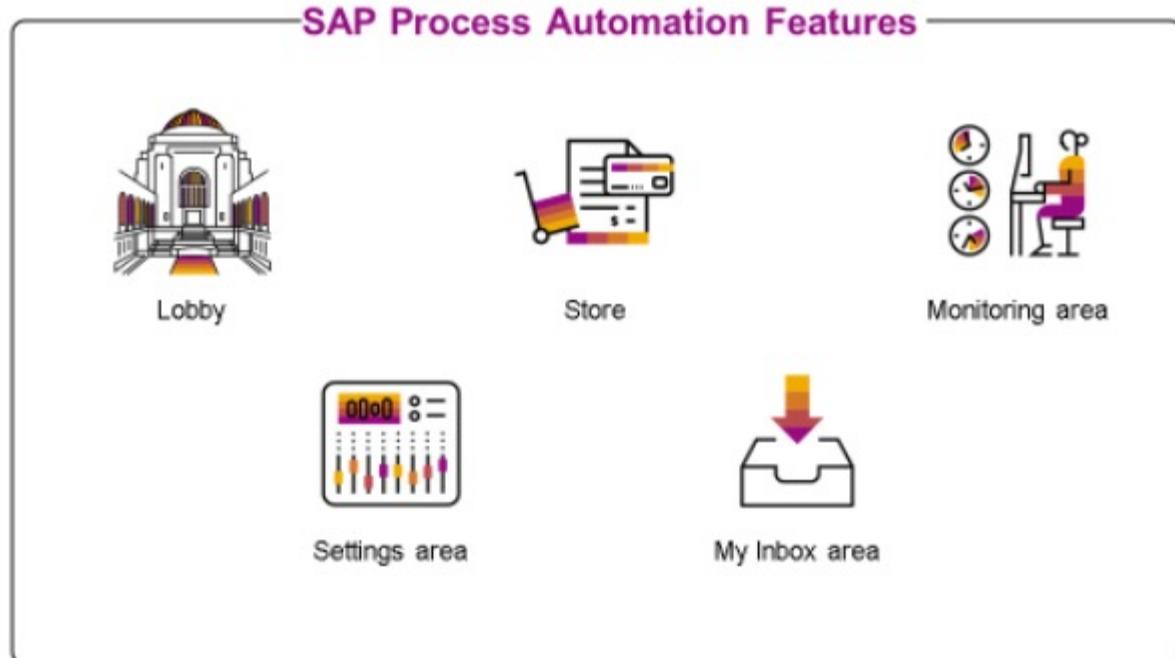
**Screenshot 2: Visibility Scenario Configuration**

This screenshot shows the configuration of a visibility scenario named "\*Sales Order Visibility Sc...". The "Status" tab is selected. A dropdown menu for "Target Type" is open, showing options: None, Constant, and Attribute. The "Constant" option is selected. The "Sub-Status" section lists "Critical" and "On Track" status types. On the right, configuration details are shown: Name: Critical, ID: CRITICAL, and Description: Status of the instance is critical when one of the sub-statuses defined evaluate:

# What have we learned so far

- Introduction to SAP Build Process Automation
- Workflows, Forms
- Automation
- Monitoring

# Key Summary Points



The screenshot shows the SAP Application Development interface with the following elements:

- SAP Application Development** logo and title.
- Navigation bar with tabs: **Lobby** (underlined), **Store**, **Monitor**, and **Settings**.
- A horizontal row of four orange circles, each containing a number from 1 to 4, corresponding to the points listed below.
- Quick Start** button on the left.
- A vertical scroll bar on the right.
- Two circular icons on the right: one yellow with the number 5 and download arrow, and one blue with the letters HS.
- Hide** button on the far right.

# Key Summary Points

## Lobby

- Create, manage, deploy business processes

## Store

- Browse, add and use pre-packaged projects offered by SAP

## Monitor

- View and manage specific processes, automation jobs

## Settings

- Configure and manage desktop agents, backend settings, API keys

## My Inbox

- Displaying processing your tasks

# Key Summary Points

---

Q2. What do you have to verify before you run a business process that contains one automation or more in it?

---

- A The Integration of a chatbot with your business process
- B The configuration of an email server
- C The Desktop Agent settings and registration
- D The complete installation of a web server



Correct

Correct. You need to verify the Desktop Agent settings and registration, before you run a business process that contains one automation or more in it.

# Key Summary Points

---

Q4. Where can an end user work on forms?

---

A Process Workspace

 My Inbox

C Monitor Workflow Application

D ChatBot



Correct

Correct. End users can work on forms in My Inbox.

# Key Summary Points

Q1. In what ways can forms be used?

A For sending email

 For approving a sales order

 For sending notification to requestor

D For accessing automation

 Correct

Correct. Forms can be used for approving a sales order and for sending notification to requestor.

[Order Processing Form](#)

[Approval Form](#)

[Order Confirmation Notification Form](#)

[Order Rejection Notification Form](#)

# Key Summary Points

Q8. What are the benefits of using forms?

 Quick, simple, and easy way to create interactive UI

 B Create documents for process

 One layout, one access and traceable action

 Streamline approvals in the business process

 E Send email templates to users

 Correct

Correct. One benefit of using forms is that it is a quick, simple and easy way to create interactive UI. Other benefits of using forms are that you only have one layout, one access and traceable action, and streamline approvals in the business process.

# Key Summary Points

Q5. What do have to do in the Business Process after the design of your automation?



A Add a chatbot into your business process

Verify and map the inputs and outputs of the artifacts including the designed automation

C Check for task in the Inbox

D Develop a custom script in javascript to achieve the integration

Correct

Correct. After the design of your automation, you have to verify and map the inputs and outputs of the artifacts including the designed automation in the Business Process.

# Key Summary Points

Q6. Which configurations are necessary for Process Conditions?

 A Add a condition to the process

 B Map the condition input with process content

 C Configure If and else conditions

 D Define the process flow for different conditional paths

 E Add environment variables

 F Correct

Correct. The following configurations are necessary for Process Conditions: Add a condition to the process, Configure If and else conditions and Define the process flow for different conditional paths.

# Key Summary Points

Q7. What are different components of **Decisions**?

Input data object

Decision table

C Form

Decision diagram

E Business Logic

Correct

Correct. Input data object, Decision table and Decision diagram are different components of Decisions.

# Key Summary Points

Q9. Which steps will you take while designing a decision?

A Create policy, configure rule service, and add rules.

 Create decision, create data object, and configure input & output.

C Integrate decision with process using API.

 Create decision table rules, configure settings, and add rows

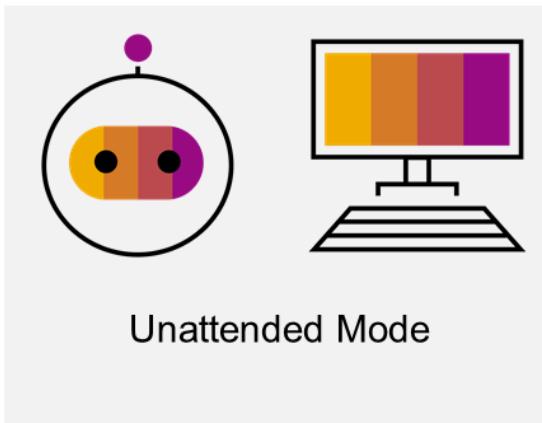
 Correct

Correct. While designing a decision you will take the following steps: Create policy, configure rule service, and add rules, as well as create decision table rules, configure settings, and add rows.

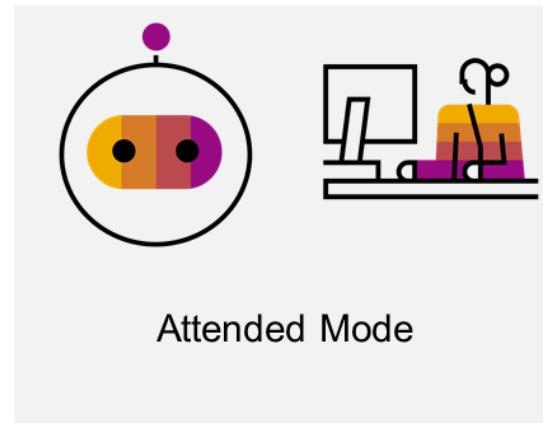
# Key Summary Points

SAP Robotic Process Automation services are delivered in 2 ways

- Unattended Mode
- Attended Mode



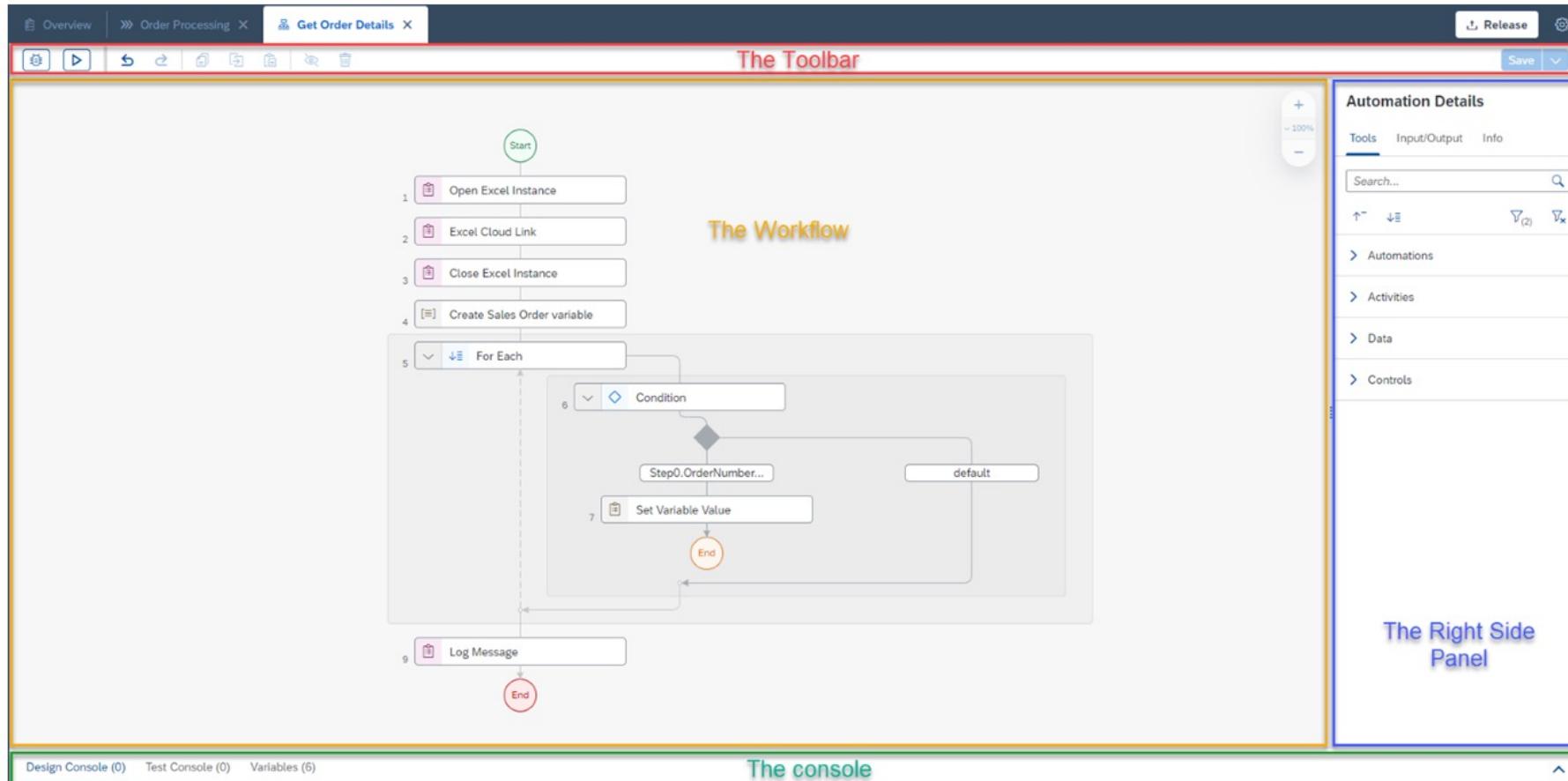
Unattended Mode



Attended Mode

# Key Summary Points

## Automation Editor



# Key Summary Points

The screenshot shows the 'Sales Order Visibility Sce...' scenario in Phase 4. The 'Status' tab is selected. The 'Target' section shows a constant target of 0 days, 0 hours, and 10 minutes. A threshold of 50% is set. Red annotations highlight the target value as 'Critical if process takes more than 10 min' and the threshold as 'At Risk if process takes more than 5 min (50% of 10 min)'. The 'Sub-Status' section lists 'Process Failed', 'Process Suspended', and 'Overdue' under the 'Critical' category, and 'Threshold Violation' under 'At Risk'. Other categories like 'On Track', 'On Time', and 'Completed with violations' are also listed.

Overview    »» Phase 4    Sales Order Visibility Sce... X

General Processes Correlation Phases State Status Attributes Actions Performance Indicators

Target

Target Type: Constant

Target Value: 0 Days 0 Hrs 10 Min

Threshold: 50 %

Critical if process takes more than 10 min

At Risk if process takes more than 5 min (50% of 10 min)

Sub-Status

↑    +    -

**Critical**

- Process Failed
- Process Suspended
- Overdue

**At Risk**

- Threshold Violation

**On Track**

- On Time

**Completed with violations**

Name: Critical  
ID: CRITICAL  
Description: Status of the instance is critical when one of the sub-statuses defined evaluates to true.

# Key Summary Points

## Use cases for automation

- Lead-to-cash
- Hire-to-retire
- Design-to-operate
- Source-to-pay

# SAP Build Apps



# Use Case: Food Barcode Scanner Mobile Application

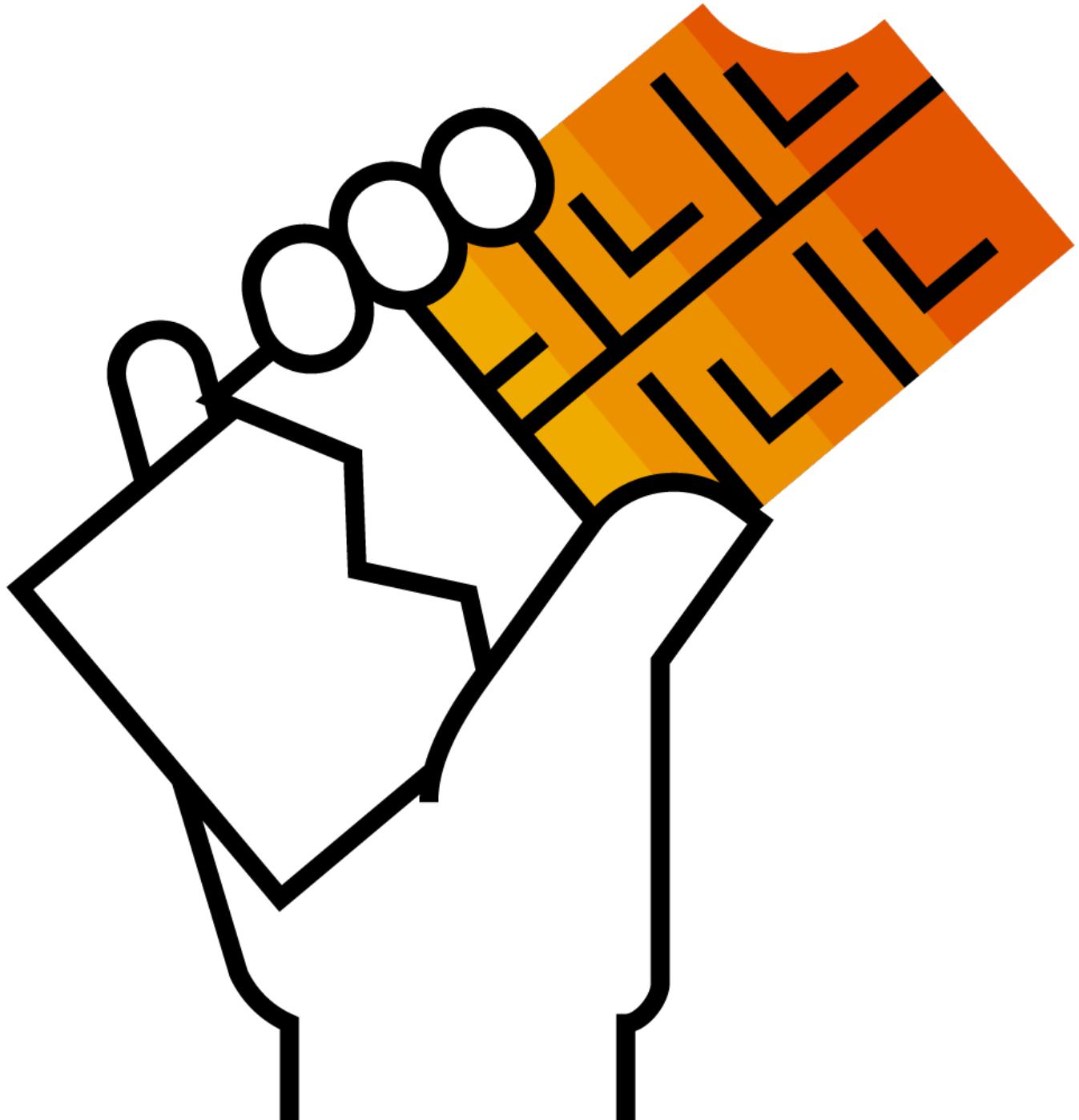
---

## Scenario

- It will be able to scan a barcode on a food item in your kitchen, and tell you about the nutritional content.
- The information about nutrition is provided by [openFOODfacts](#)

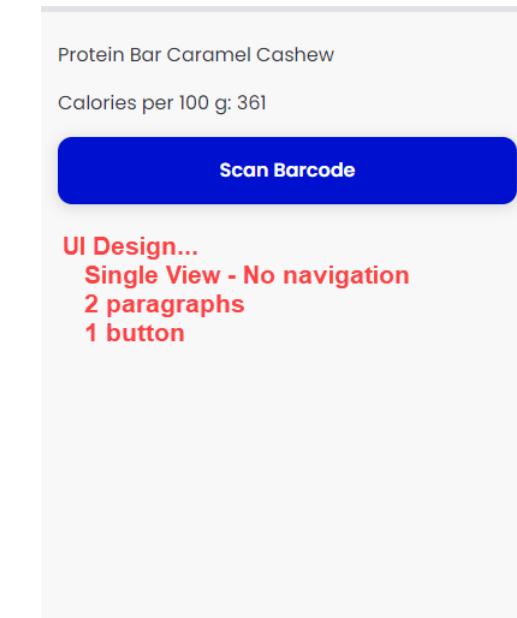
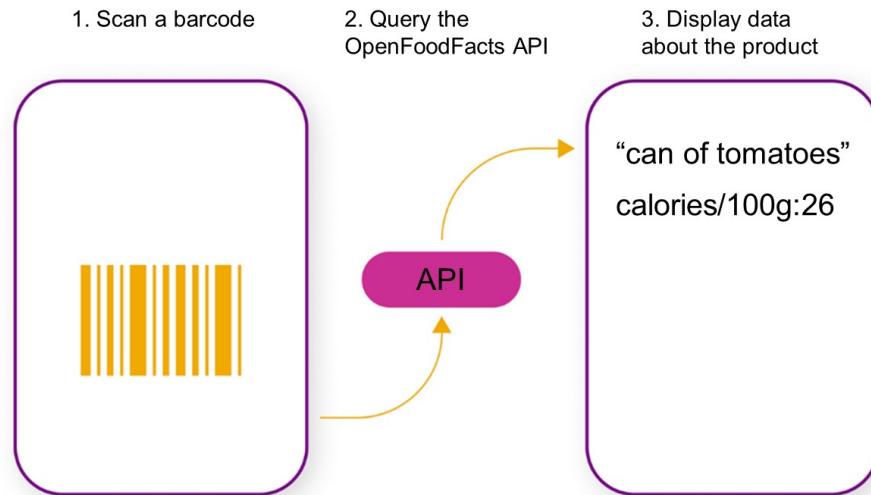
## Features

- Cross platform – Mobile (iOS, Android)
- Hardware integration
- Calling External API



# High level plan for UI, Logic and Data

- User taps button to scan barcode
- App uses barcode to query OpenFoodFacts API
- App displays 2 pieces of data about scanned product: name, calories



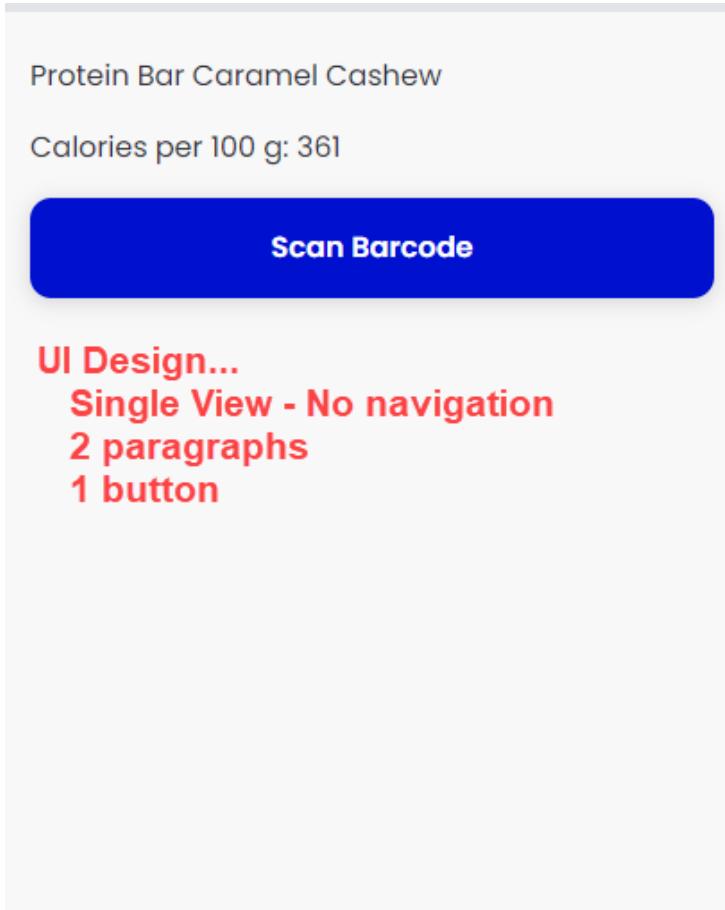
# Steps involved

1. Setting up the pre-requisites
2. Setting up the UI – Single View and Components
3. Logic for scanning barcode
4. Integrating with API
5. Displaying Food Product data

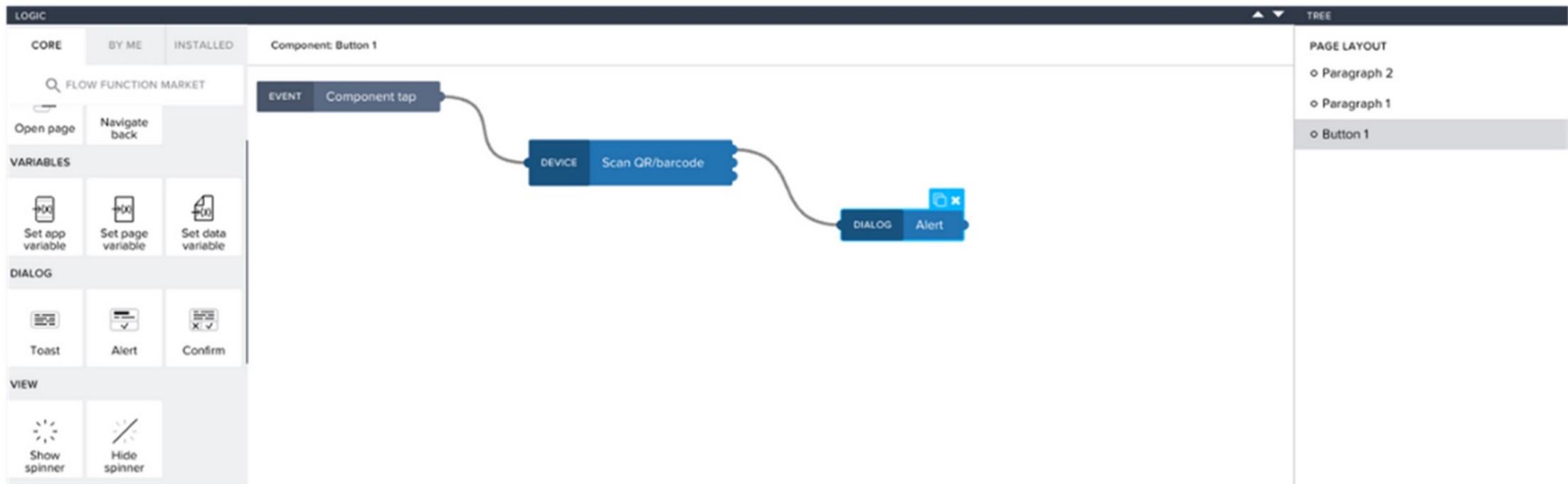
# Step 1 – Pre-Requisites

1. Subscribe to [SAP AppGyver](#) via a booster from SAP Business Technology Platform
2. Get the [SAP AppGyver Preview](#) app on your mobile phone

# Step 2 – View and its components



# Step 3 – Logic for scanning barcode



# Step 4 – Integrating with an API

Publicly available OpenFoodFacts REST API

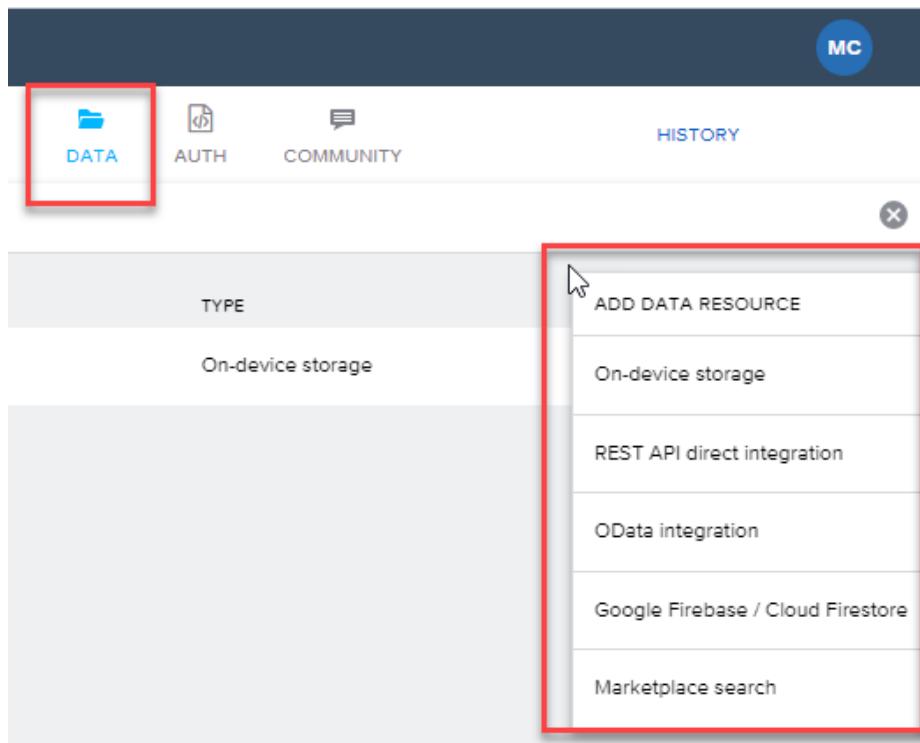
[https://world.openfoodfacts.org/api/v0/product/\[barcode\].json](https://world.openfoodfacts.org/api/v0/product/[barcode].json)

<https://world.openfoodfacts.org/api/v0/product/7350040162910.json>

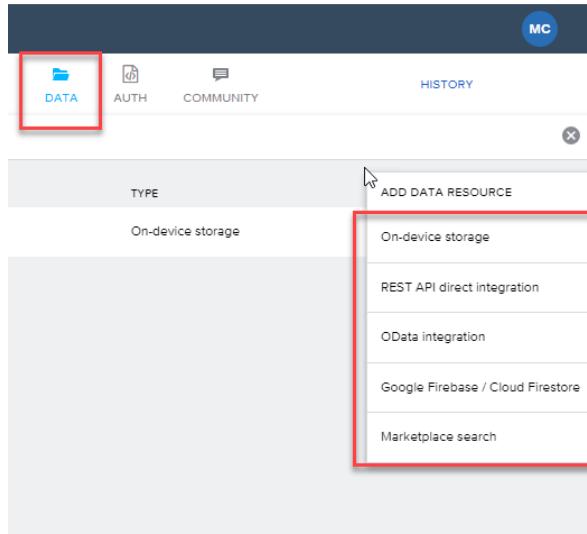
# Step 4 – Integrating with an API

## Data Resource

- Data that is stored outside the context of the running app
- **Data variable** is used to retrieve data from data resource



# Step 4 – Integrating with an API



The screenshot shows the MERN Stack application interface. The top navigation bar includes tabs for DATA, AUTH, COMMUNITY, and HISTORY. The DATA tab is highlighted with a red box. Below the navigation, there's a section titled 'ADD DATA RESOURCE' with a dropdown menu. The 'On-device storage' option is selected. The dropdown menu contains five items: 'On-device storage', 'REST API direct integration', 'OData integration', 'Google Firebase / Cloud Firestore', and 'Marketplace search'. The 'REST API direct integration' option is also highlighted with a red box.

REST API direct integration resource **openfoodfacts**

**Resource ID** openfoodfacts

**Short description** data from openfoodfacts api

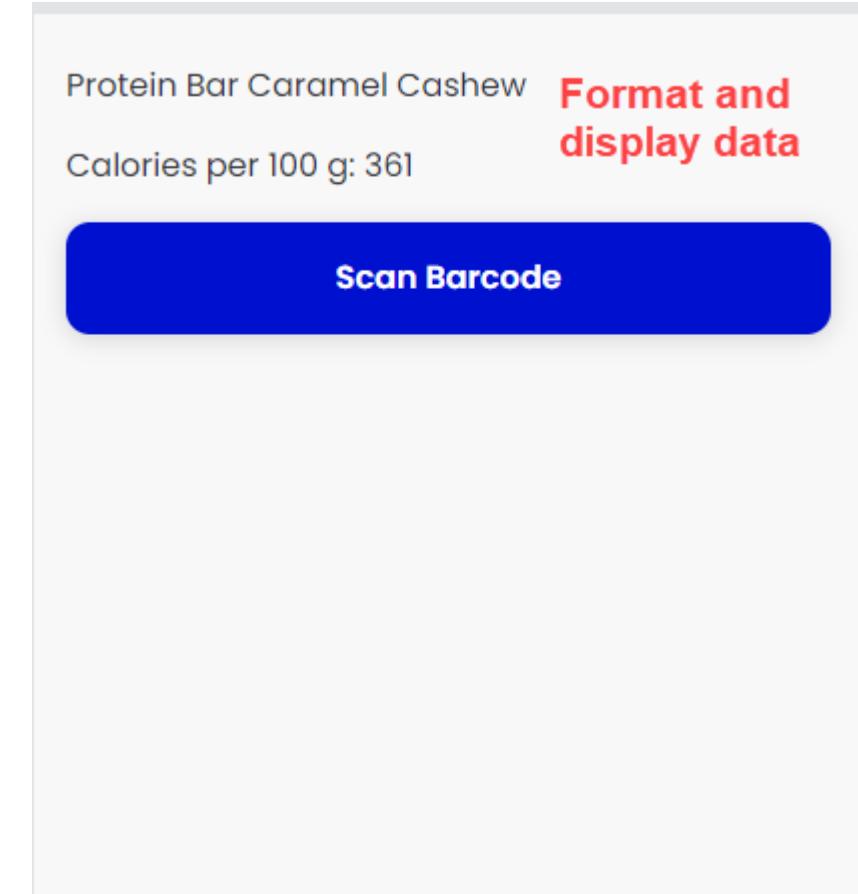
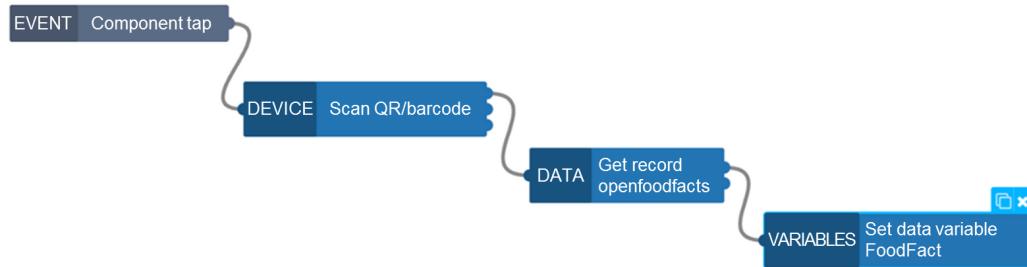
**Resource URL** <https://world.openfoodfacts.org/api/v0>

**HTTP Header** No HTTP Header added.

**URL placeholder** No URL placeholder added.

**Query parameter** No Query parameter added.

# Step 5 – Displaying Food Product data



# Use Case: Appointment List App



## Scenario

- an extension to SAP Sales Cloud with a list of appointments that we want to extract and create an app to display them as a viewable list.

## Features

- Cross platform – Mobile (iOS, Android)
- OData API Integration – SAP Sales Cloud
- Composite Component
- More complex binding



# SAP Sales Cloud

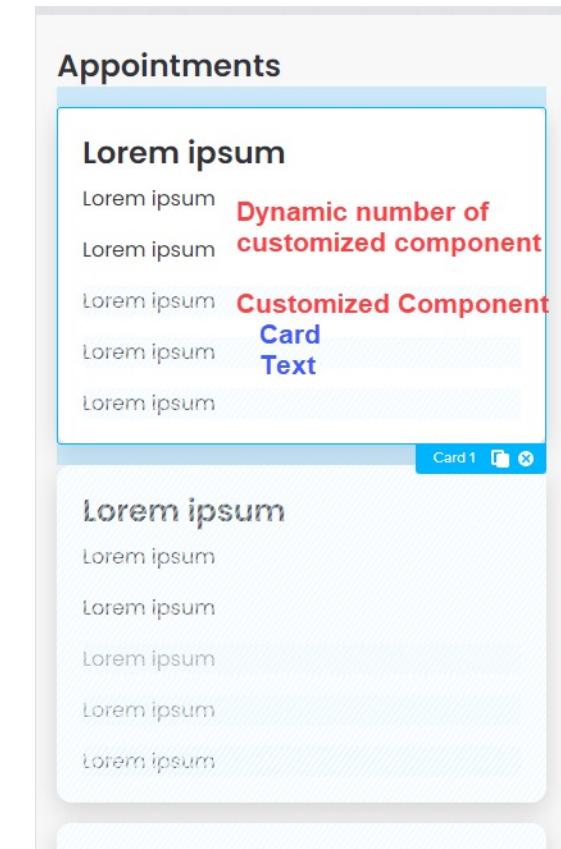
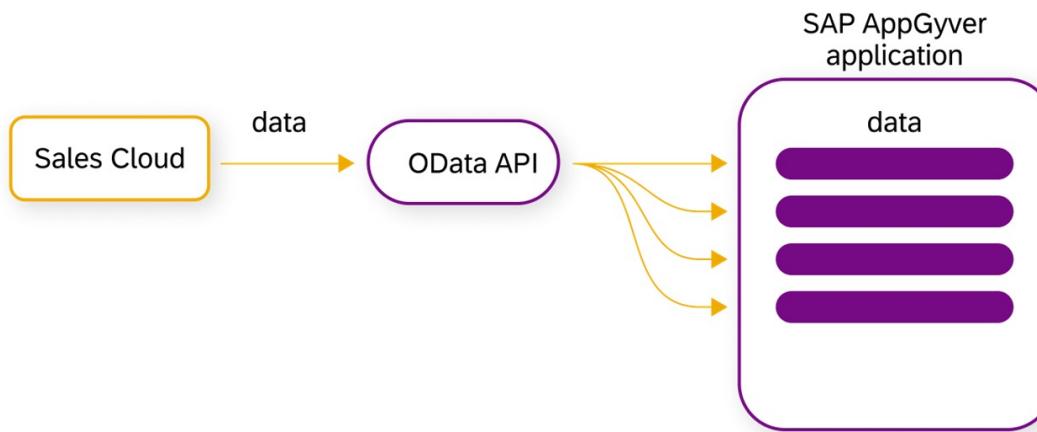
SAP Sales Cloud is a cloud customer relationship management (CRM) solution that assists the daily activities of a salesperson. This includes communicating and collaborating with customers, supporting the lead-to-cash process and providing complete transparency on the current business.

# Why SAP Extensions with SAP AppGyver ?

- SaaS solutions from SAP cover a majority of customer use cases
- However, every customer has unique needs that cannot be covered out-of-the-box
- Various options to extend SAP solutions (In-App, Side-by-Side)

# High level plan for UI, Logic and Data

- Build application to display appointments
- Make connection to SAP Sales Cloud OData API
- Display appointments data



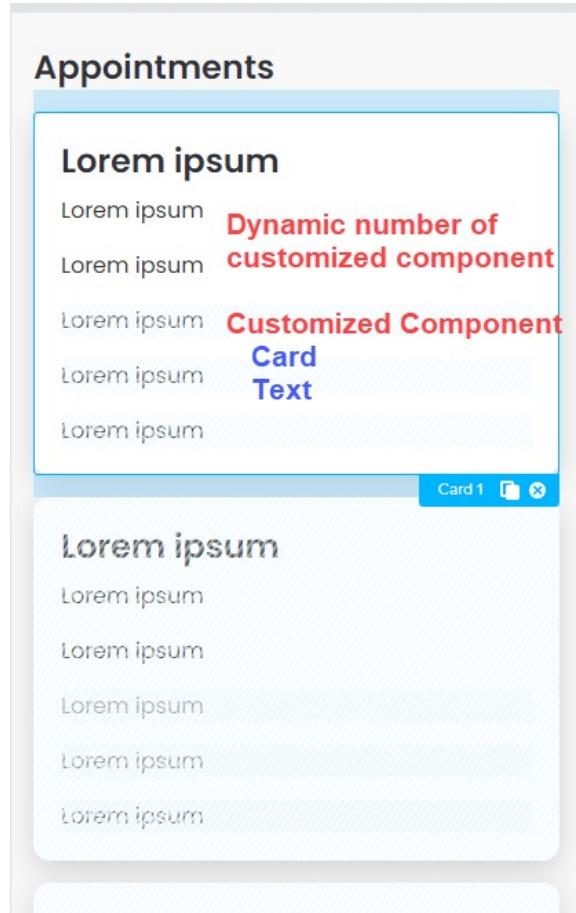
# Steps involved

1. Setting up the pre-requisites
2. Setting up the UI – Single View and Components
3. Connections to OData API
4. Binding, displaying data in UI

# Step 1 – Pre-Requisites

1. Subscribe to [SAP AppGyver](#) via a booster from SAP Business Technology Platform
2. Get the [SAP AppGyver Preview](#) app on your mobile phone

# Step 2 – View and its components



# Step 3 – Connections to OData API

The screenshot illustrates the process of connecting a data source in the MERN Stack Manager. It consists of three main panels:

- Left Panel:** Shows the navigation bar with 'DATA' selected (highlighted by a red box). Below it, the 'ADD DATA RESOURCE' section lists several options: 'On-device storage', 'On-device storage' (selected and highlighted by a red box), 'REST API direct integration', 'OData integration' (selected and highlighted by a red box), 'Google Firebase / Cloud Firestore', and 'Marketplace search'.
  - Top Center Panel:** Displays the configuration for the 'AppointmentCollection' data resource. It includes:
    - A toggle switch labeled 'AppointmentCollection' (circled in red).
    - A list of operations: 'list', 'retrieve', 'create', 'update', and 'delete'.
  - Bottom Right Panel:** Shows the expanded view of the 'AppointmentCollection' resource, listing its components:
    - Expand
    - AppointmentAttachmentFolder
    - AppointmentBTDReference
    - AppointmentInvolvedParties
    - AppointmentOtherParties
    - AppointmentTextCollection
  - Bottom Right Panel (Buttons):** Contains a large red oval highlighting the 'SAVE DATA RESOURCE' button.

# Step 3 – Connections to OData API

[https://my346234.crm.on-demand.com/sap/c4c/odata/v1/c4codataapi  
\\$/metadata](https://my346234.crm.on-demand.com/sap/c4c/odata/v1/c4codataapi/$metadata)

Credentials

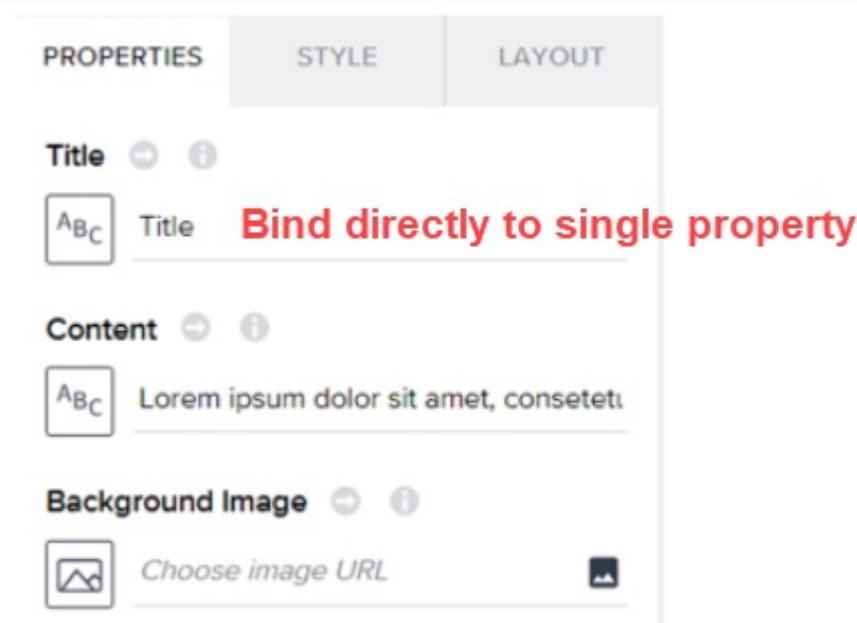
[demouser / Welcome1](#)

[API Business Hub \(api.sap.com\)](#)

[API Key](#)

# Step 4 – Binding, displaying data in UI

```
{  
  "name": "Milton"  
}
```



The screenshot shows the AEM富文本编辑器的“Properties” tab. It displays three data-binding examples:

- Title:** Shows a binding to a single property named "Title". The text "Bind directly to single property" is displayed in red.
- Content:** Shows a binding to a single property named "Content". The text "Lorem ipsum dolor sit amet, consetetu" is displayed.
- Background Image:** Shows a binding to a single property named "Background Image". A placeholder "Choose image URL" is shown.

# Step 4 – Binding, displaying data in UI

The screenshot shows a UI builder interface with a JSON data source on the left and a properties panel on the right.

**JSON Data Source:**

```
[  
  {  
    "name": "Milton"  
  },  
  {  
    "name": "Peter"  
  },  
  {  
    "name": "Pavel"  
  },  
  {  
    "name": "Jose"  
  }]
```

**Properties Panel:**

- Title:** ABC Title Data Item in Repeat
- Content:** ABC Lorem ipsum dolor sit amet, consetet
- Background Image:** Choose image URL
- Repeat with:** Not repeated

**Annotations:**

- Bind to Repeat With property** (highlighted in red)
- Dynamic number of controls automatically created** (highlighted in red)

# Step 4 – Binding, displaying data in UI

```
[  
  {  
    "name": "Milton",  
    "hobbies": ["tennis", "chess", "soccer"]  
  },  
  {  
    "name": "Peter",  
    "hobbies": ["hiking", "cooking"]  
  },  
  {  
    "name": "Pavel",  
    "hobbies": ["tennis", "rugby"]  
  },  
  {  
    "name": "Jose",  
    "hobbies": ["soccer", "athletics"]  
  }  
]
```

The screenshot shows a UI builder interface with a list item template. The template contains three fields: **Title** (with placeholder ABC and value Title), **Content** (with placeholder ABC and value Lorem ipsum dolor sit amet, consetetu...), and **Background Image** (with a choose image URL button). Below these fields is a **Repeat with** dropdown menu. A red circle highlights the dropdown icon, and the text "Bind to Repeat With property (2 levels)" is displayed next to it. The dropdown menu itself shows the option "Not repeated". To the right of the dropdown, the text "Dynamic number of controls automatically created" is displayed, along with a blue double-headed arrow icon.

PROPERTIES    STYLE    LAYOUT

**Title** ABC Title

**Content** ABC Lorem ipsum dolor sit amet, consetetu...

**Background Image** Choose image URL

**Repeat with** Not repeated

Bind to Repeat With property (2 levels)

Dynamic number of controls automatically created

# What have we learned so far

- Introduction to SAP Build Apps
- First mini application with SAP Build Apps
- High level plan
- Building the UI
- Building the logic
- Binding variables to component
- Integrating hardware
- Calling an API
- SAP Sales Cloud
- OData API Integration
- Composite Components
- Multi-level binding

# Key Summary Points

## Pre-requisites

1. Subscribe to [SAP Build Apps](#) via a booster from SAP Business Technology Platform
2. Get the [SAP Build Apps Preview](#) app on your mobile phone

# Key Summary Points

Q8. What are "views" based on, in terms of how they are defined for the user interface of an application?



A The data sources for variables.

B The flows of logic that need to be performed.

 Clear functional distinction, meaning activities that are grouped together.

 Correct

Correct. The "views" based on: Clear functional distinction, meaning activities that are grouped together

# Key Summary Points

Q9. What are the three main areas of application development?



A Styling



Data



Logic



User Interface



Correct

Correct. The three main areas of application development are User Interface, Logic and Data

# Key Summary Points

Q10. What are some of the things you did when building your first mini-application in SAP AppGyver?



Set up the variables

Binding variables to components

C Implemented authorization capabilities

Created the database

Correct

Correct. Here's what you did when you created the first mini-application in SAP AppGyver: Set up the variables, binding variables to components and created the database

# Key Summary Points

## Binding

- Link between variable and component (UI elements)

### Static Binding (Property bound to static string)

Hello world

### Dynamic Binding (Property bound to variable greeting)

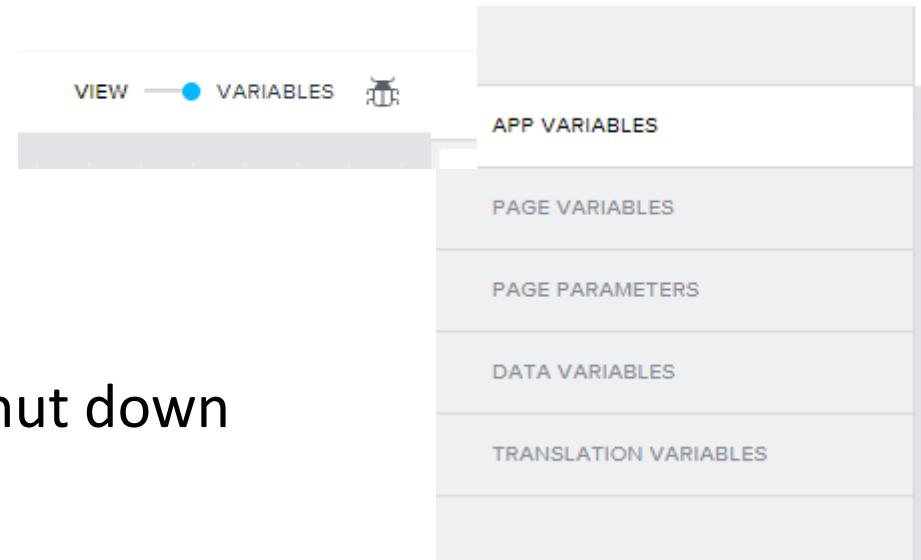
variable greeting = “Good morning !!”

Good morning !!

# Key Summary Points

## Variables

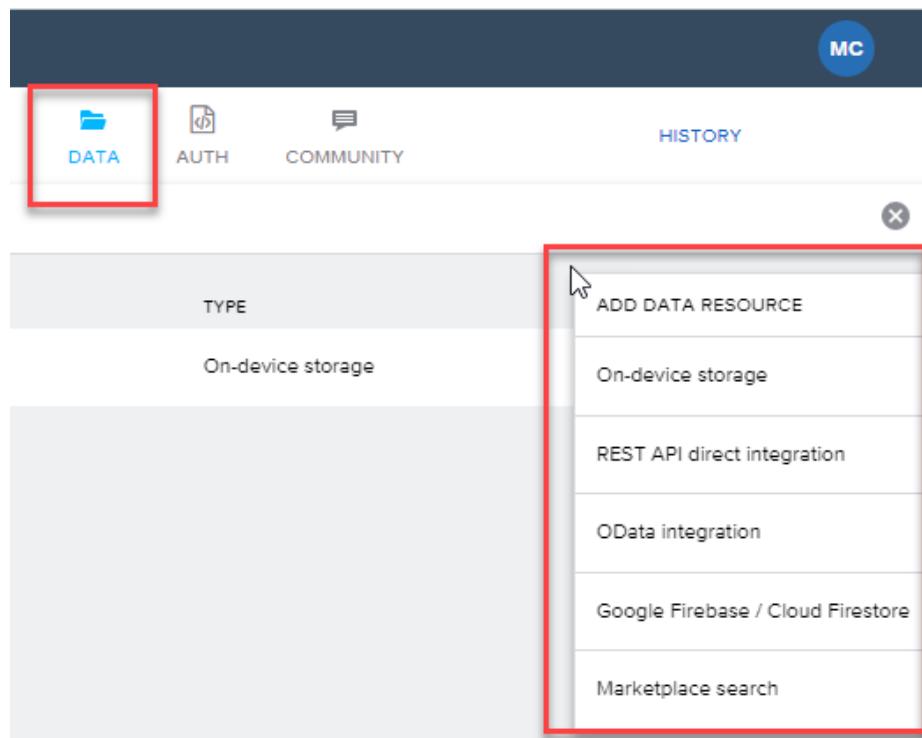
- App Variables
  - Exist globally
  - Initialized when app opens, exists until app is shut down
- Page Variables
  - Exists in the context of current page
  - Initialized when page opens, exists until page is closed
- Data Variables
  - Like page variables, used to read data from [data resources](#)



# Key Summary Points

## Data Resource

- Data that is stored outside the context of the running app
- Data variable is used to retrieve data from data resource



# Key Summary Points

Q2. What is application logic?



- A Data and metrics integrated to enable performance.
- B The planning process to develop an application cross-functionally.
- A flow of events, actions and functions that are driven by variables in data and connected to the UI with bindings.



Correct

Correct. The application logic is: A flow of events, actions and functions that are driven by variables in data and connected to the UI with bindings.

# Key Summary Points

## Question 1

*Choose the correct answer.*

What was the first real step you took in building your app with SAP AppGyver?

- Making a connection to OpenFoodFacts database.
- Making a high level plan that covered the user interface, logic and data.
- Mocking up the design and journey for the user experience.

# Key Summary Points

## Question 2

*Choose the correct answer(s).*

What are the steps in the workflow that you planned for your SAP AppGyver app?

- The user taps a button to scan a barcode.
- The app uses the barcode to query the OpenFoodFacts API.
- The app asks the user to provide their email address for authorization
- The app displays two pieces of data about the scanned product: food name and calories

# Key Summary Points

## Question 3

*Choose the correct answer(s).*

What is true about the SAP AppGyver Preview app?

- You can find the Preview app in all common app stores.
- The Preview app download is free.
- It's good to use the Preview app to see your changes in real-time.
- The preview app can be used with any no-code application development platform in the market.

# Key Summary Points

## Question 6

*Choose the correct answer.*



What is a binding for?

- Connecting to an API.
- Creating a link between a data variable and a UI component.
- Building the overall workflow.

# Key Summary Points

## Question 7

*Choose the correct answer(s).*

What are the parts you examined in the URL for the OpenFoodFacts API?

- The version of the API.
- The barcode number sequence for the product.
- The JSON data format.
- The analytics tracking code

# Key Summary Points

## Question 8

*Choose the correct answer(s).*

How did you create a data resource to be used in your SAP AppGyver app?

- Opened the data tab from the top menu and selected “add data resource”.
- Selected “REST API direction integration” from the options.
- Entered the Resource ID for OpenFoodFacts.
- Used the entire URL provided by OpenFoodFacts.

# Key Summary Points

**Question 9**

*Choose the correct answer.*

How can you reset the SAP AppGyver variable data logic in your logic canvas back to the default logic?

- Start over with building a new app.
- Clear the logic canvas and add a new logic flow.
- Select “reset data variable logic”.
- It's not possible – that's why detailed planning must be done in advance.

---

Data: notes

```
graph LR; A[EVENT Page mounted] --> B[DATA Get record collection]; B --> C[VARIABLES Set data variable]; D[EVENT Page focused] --> E[UTILITY Delay]; E --> C;
```

**RESET DATA VARIABLE LOGIC**

Resets the logic canvas for this data variable to its default behaviour.

[REMOVE FROM PAGE](#)

# Key Summary Points

## Question 10

*Choose the correct answer.*

How did you edit the formulas to change the display of calorie data in the UI?

- Select the paragraph with “calories”, open the binding editor, choose the formula and edit.
- You need to be able to write in a programming language to do this.
- Added a new composable component with information on grams.

# Key Summary Points

Q10. What can SAP Sales Cloud assist with?

communicating and collaborating with customers

supporting in the lead-to-cash process

C creating applications

giving complete transparency where you stand with current sales business

E managing your employees

Correct

Correct. SAP Cloud can assist you with giving complete transparency where you stand with current sales business, supporting in the lead-to-cash process and, communicating and collaborating with customers.

# Key Summary Points

Q9. How did we open the Component Template Editor?

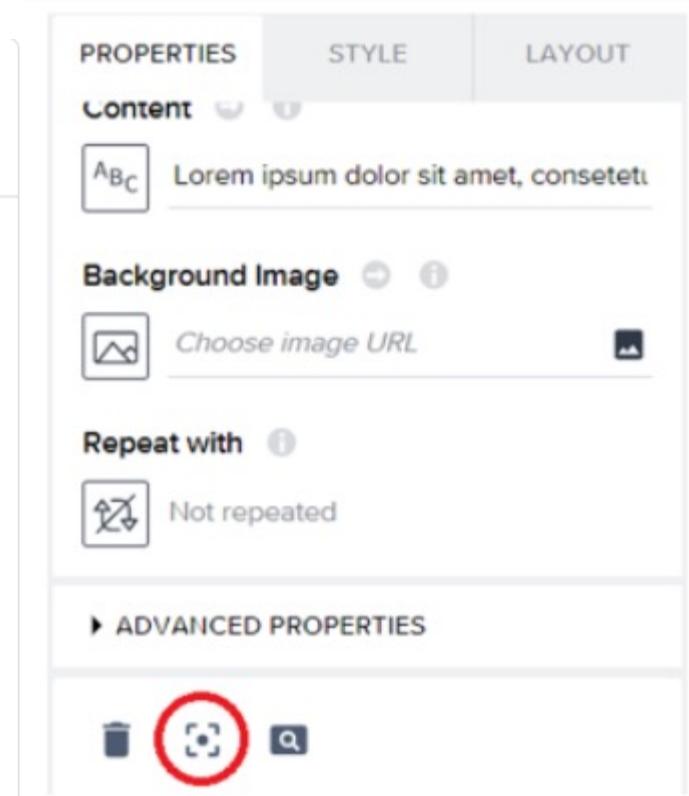
A Dragging card components into the canvas

 Clicking on the Component then Scrolling down and clicking on the square with the dot in the middle

C Double clicking on the outside of the canvas

 Correct

Correct. We open the Component Template Editor by clicking on the Component then Scrolling down and clicking on the square with the dot in the middle.



# Key Summary Points

Select binding\_type / Object with properties

Select the conditions for the request.

Property	Condition type	Compared value	X
CategoryText	ABC equal	ABC Marketing	X
<b>ADD CONDITION</b>			
<b>SAVE</b>			

# Key Summary Points

Q7. What is the use for APIs?

A

connect with colleagues



perform some action on the system

C

create applications



get data from the system



communicate with a system



Correct

Correct. The use of APIs are to communicate with a system, get data from the system and perform some action on the system.

# Key Summary Points

Q2. What do we see when we open the URL in the browser?

---

A The data stored on your PC

B The SAP AppGyver internal data

 The XML metadata of the OData service

 Correct

Correct. When we open the URL in the browser, we can see the XML metadata of the OData service.

# Key Summary Points

```
[  
  {  
    "name": "Milton"  
  },  
  {  
    "name": "Peter"  
  },  
  {  
    "name": "Pavel"  
  },  
  {  
    "name": "Jose"  
  }]
```

Q5. How can we know that the data is a list of objects?

A

We can open it in Google



First wrapped in brackets [] and then in curly brackets {}

C

Since it's the XML metadata of the OData service



Correct

Correct. We know that it is a list of objects, if the data is first wrapped in brackets [] and then in curly brackets {}.

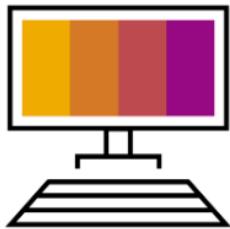
# SAP Build Work Zone



# Digital Experience (DX) Services at SAP



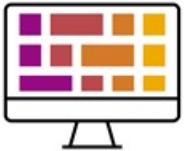
SAP Build Work Zone,  
standard edition



SAP Build Work Zone,  
advanced edition

- Guided experiences, web content, document access, knowledge base and workspaces for collaborative knowledge sharing
- Empowering customers to build user-centric, modern digital experiences

- Integrate Applications, tasks, and processes into a central access point
- Common UX integration for SAP solutions (for example, SAP S/4HANA), custom apps and extensions following the SAP Fiori UX



## SAP Launchpad Service

The screenshot shows the SAP Fiori Home page with the following sections:

- Overview:** A dropdown menu is open, showing options like Overview, Purchasing, Sourcing and Contract Management, and Purchasing Rebates.
- Quick Access:** A grid of cards:
  - Procurement Overview: Procurement icon, shopping cart icon.
  - Purchasing: Purchase on Items, Manage Purchase Orders, Monitor Purchase Order Items (593 Overdue).
  - Manage check-books SAPUI5: SAP S/4HANA (man) icon.
  - Innovation at SAP SAP.io program: SAP.io logo, Learn more link.
- Generic Insights:** A grid of cards:
  - Purchase Requisition To Order Cycle Time: Release Strategy, 1.48 days (Medium-Cost 0.3, Days High-Cost 0), 30 min. ago.
  - Invoice Price Variance: Since the beginning ..., 80.27 (1000), 30 min. ago, USD.
  - Purchasing Spend Comparison of Spend: 100 % (16 hr. ago).
  - Operational Supplier Evaluation Score and Variance: Domestic US Sub... 144.3, EV Parts Inc. 142.1, WaveCrest Labs 142.1, 30 min. ago.
  - Overdue Purchase Order Items: Number and Value, 40 items (No. of Overdue It... 40, Open PO ... 134.71K USD), 30 min. ago.
- Bottom Cards:**
  - Monitor Procurement-Related Tasks: Procurement icon.
  - Supplier Evaluation Weighting and Scoring: Document icon.
  - Display Business Volume Condition Contracts: Document icon.

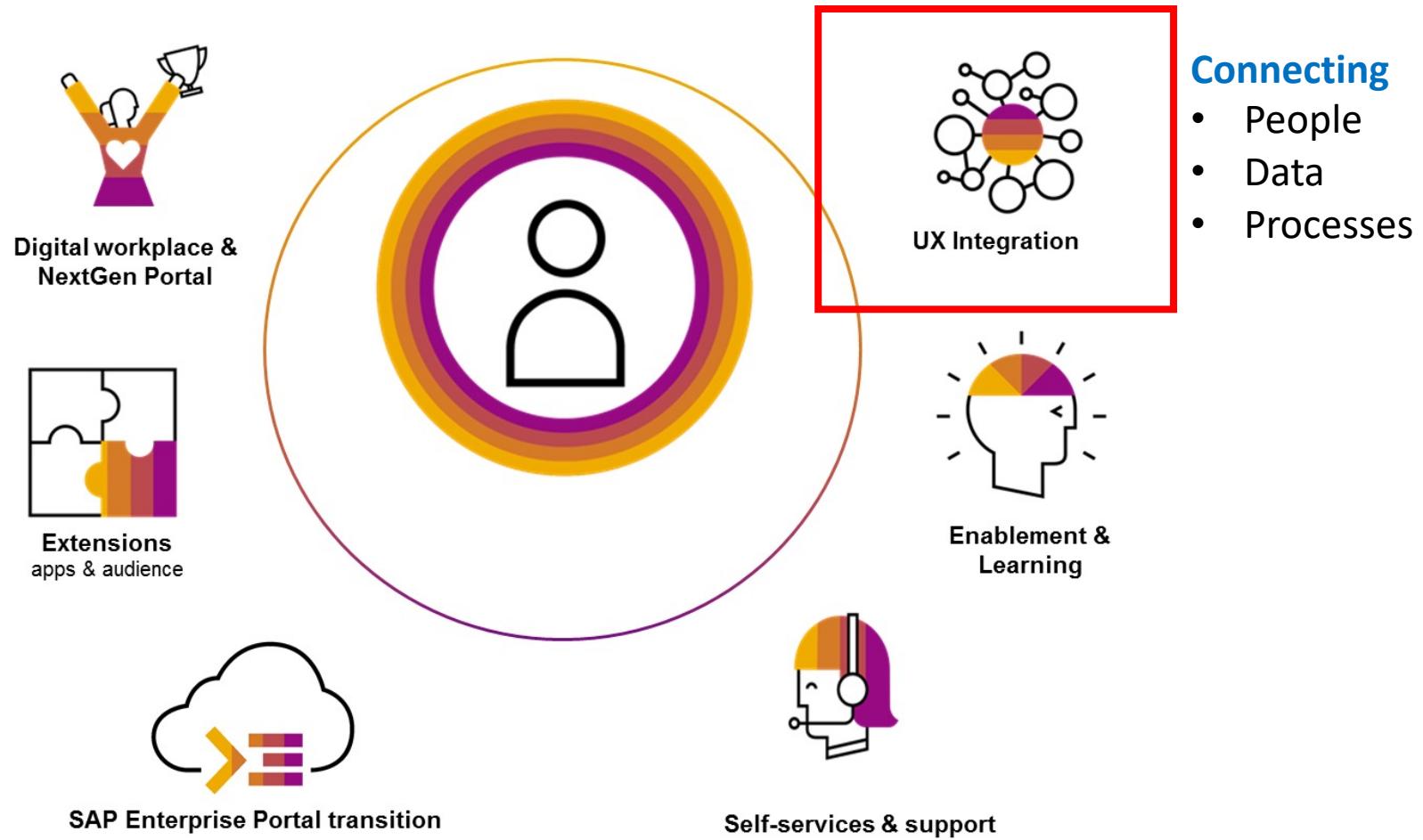


SAP Work Zone

The SAP Home - Welcome interface displays several modules:

- Company Blog Posts**: Shows a post from the CEO about the future of solar power.
- Microlearning**: Shows a video titled "The future of solar power".
- Most Liked**: Lists popular documents like "Employer Compensation" and "Wind Energy Facts.pptx".
- How is your overall experience?**: A survey with options: Good, Average (selected), and Bad.
- Highest ranked Knowledge Article**: Lists articles such as "Power Pump Pressure Regulation" and "Wind Power Frequently Asked Questions".
- Display Supplier List**, **Assets App**, **Create Material WebGUI**, **Purchase Order Web Dynpro**, **Quality Technician Overview**, and **Report Incident**.
- Apply for Parental Leave**: A form to sign up for parental leave, including fields for date and terms and conditions.
- Project Summary - General Expenses**: A chart showing expenses over four quarters.

# Typical use cases for SAP Build Work Zone



# UX Integration across ERP systems



**App launcher**  
(link, tile, card)



**Open app**  
in new tab, in-place



**Navigation &  
URL parameters**



**Language**



**Theme &  
branding**



**Single sign-on &  
session management**



**Roles &  
authorizations**



**Content structure**  
(incl. roles and  
apps)

# Key building blocks of SAP Build Work Zone

- Administrative Areas
  - Enables role based access and business focused decentral ways of working
  - By default, all settings, content, design get created at the “company level”
- Homepages
  - Design entry page experience for all users – Can be different for various roles
- Workspaces
  - Web content presentation – core element of user interaction
  - **Most important building block of SAP Build Work Zone**
- Applications Launchpad
  - Built-in launchpad capabilities

# Workspaces



**My  
Workspace**

Personal workspace that only you can see and access, you cannot invite others to it.



**Public  
Workspaces**

Workspaces that every full-access user in the company can view and join.



**Private  
Workspaces**

Workspaces that you can only join and view if you have been invited to them.



**External  
Workspaces**

Workspaces in which you can work together with people from different companies who join the workspaces as external users.

ONE-STOP-SHOP EXPERIENCES & USER ENGAGEMENT

	<b>Launchpad</b>	<b>Homepages</b>	<b>Administrative Areas</b>	<b>Workspaces</b>
 <b>Features</b>	<ul style="list-style-type: none"> <li>Integrate apps deployed on SAP S/4HANA on premise, SAP BTP Cloud Foundry or ABAP environment.</li> <li>Expose content of various content providers: SAP S/4HANA on premise, SAP Enterprise Portal or SAP BTP on Cloud Foundry.</li> <li>Enables individual application and application group widgets to be used across homepages and workspaces.</li> </ul>	<ul style="list-style-type: none"> <li>Inform users of company-wide information, announcements, and much more.</li> <li><b>Out-of-the-box cards and widgets for homepages</b></li> <li>Flexible design and integration options with a combination of content widgets, UI cards, guided experiences and business applications.</li> </ul>	<ul style="list-style-type: none"> <li>Central role object to bundle different product capabilities such as homepages, templates, integration setups and more, e.g. per company division or region.</li> <li>Dedicated content section for area homepages.</li> <li>Area membership assignment based on memberlists</li> </ul>	<ul style="list-style-type: none"> <li>Creation of public, private and external workspaces based on the target audience.</li> <li><b>Out-of-the-box cards and widgets for workspace overview pages.</b></li> <li>Structured collaboration and knowledge management capabilities with e.g. forum and knowledge base.</li> <li>Include external stakeholders with restricted view into dedicated workspaces.</li> </ul>
 <b>Strengths</b>	<ul style="list-style-type: none"> <li>Identity propagation eliminates a need to setup additional security roles for SAP business apps.</li> <li>Flexible, manual integration and content federation to re-use existing applications.</li> </ul>	<ul style="list-style-type: none"> <li>Embedded visual page editor enables end-users to design pages without IT overhead</li> <li>Multi-level navigation using subtabs for homepages.</li> </ul>	<ul style="list-style-type: none"> <li>Enables decentralized (content) administration</li> <li>Users gain access to a combination of features based on their individual admin area memberships.</li> </ul>	<ul style="list-style-type: none"> <li>Out-of-the-box and custom workspace templates ease the creation and ensure consistency across the entire company.</li> <li>Enables decentralized (content) administration</li> <li>Workspace administrators can flexibly adjust workspace features based on desired use case.</li> </ul>

**Application Focus**

**User Engagement and Interaction**

# Page Builder Experience

STANDARD TOOLS		FILTER AND LISTS		PRODUCTIVITY	
<b>Fiori Application</b> Add an Application that is assigned to you	<b>Fiori Application Group</b> Add a group of applications that is assigned to you	<b>Search</b> Provide a search box for finding content	<b>Workspaces</b> Link to other workspaces and sub-workspaces	<b>Feed</b> Show activities of followed workspaces and people	
<b>Multimedia</b> Link to new or existing audio visual media or playlists	<b>Image</b> Insert, resize, and crop an image	<b>People</b> Select and feature specific members	<b>Tag Cloud</b> Show the most popular hashtags in a tag cloud	<b>Action</b> Show a set of frequently used actions	
<b>Text</b> Create and format text with a rich text editor	<b>Poll</b> Show a poll, allow votes, and display poll results	<b>Content</b> Show content filtered by most replies, views, likes, and more	<b>Event</b> Show upcoming or recent events	<b>Notification</b> Show summary of all notifications	
<b>Slideshow</b> Select a presentation (.pdf, .ppt, or .pptx files)	<b>Name</b> Show avatar and name of the logged in user	<b>Forum</b> Show questions, ideas, and discussions	<b>Knowledge Base</b> Show featured, most viewed, or most liked articles	<b>Recommendation</b> Show a list of recommended content, people and workspaces	
<b>Rotating Banner</b> Show a carousel with up to 10 slides of headlines or news	<b>External Content</b> Show featured, most viewed or like external content	<b>Tool Content</b> Show pro/con and comparison table, agenda, or extensions	<b>Business Record</b> Show business records	<b>Recent Items</b> Show a list of recently viewed content and workspaces	



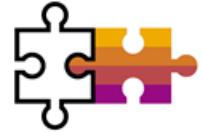
UI  
**Integration  
Cards**

developed  
by you,  
partners  
or SAP

# Extensibility Overview



## Guided Experience (Journey App)



### UI Integration Cards

Integrate and enable business content from SAP and third-party apps



### Workflows

Design and run workflows for business processes

SAP Workflow Management



### Launchpad Plugins

Extend global header bar and user menu



### Chatbots

Develop and enable conversational experience for the most often employees' requests

SAP Conversational AI



### API

Access and manage workspaces from third-party apps

# Quick Demo

- Hands-on exercises are not provided,
- If interested, follow this tutorial:
  - [Create Your First Workspace in SAP Build Work Zone, advanced edition Workshop](#)

# Key Summary Points

## Digital Experience (DX) Services Portfolio at SAP (2 main offerings)

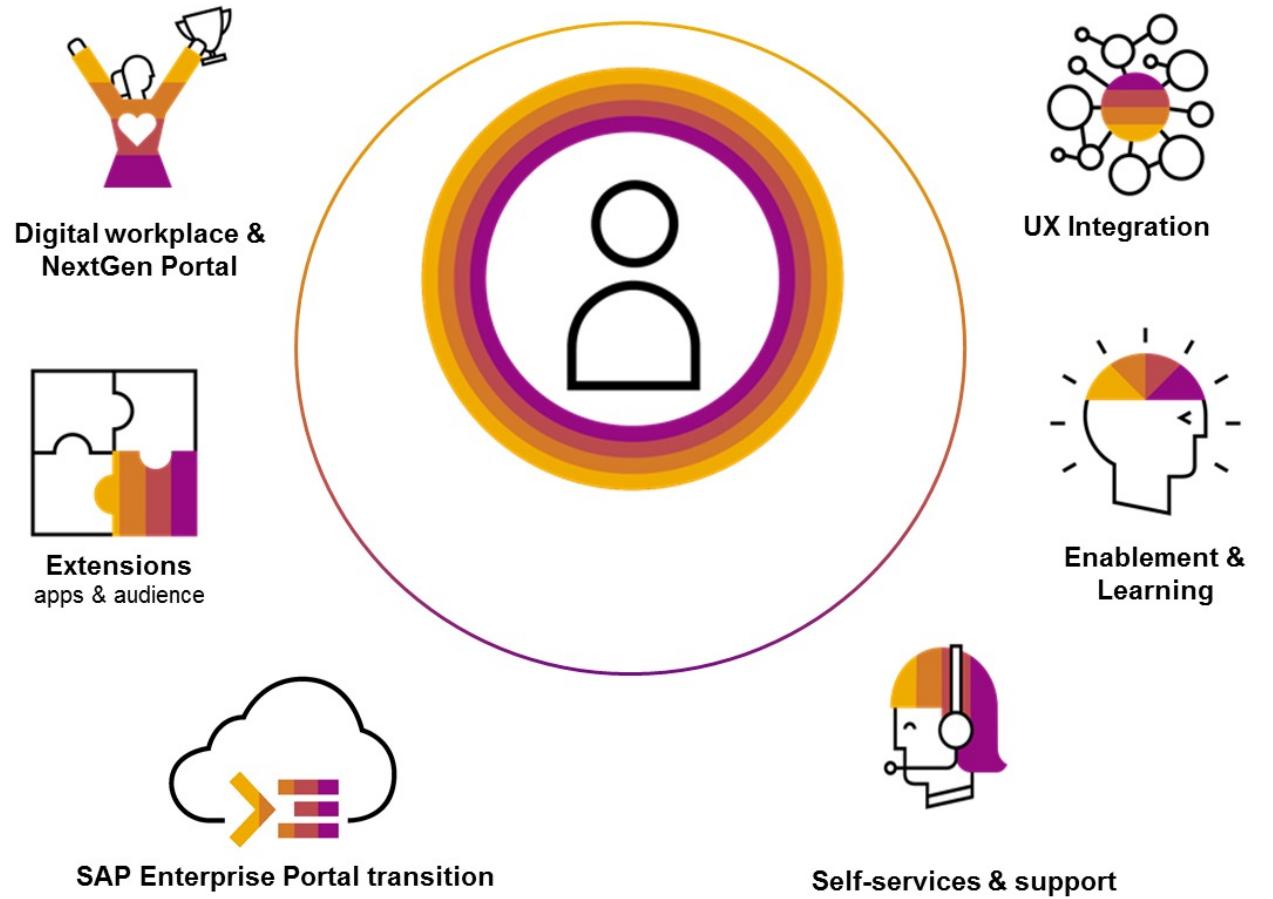
- SAP Build Work Zone, Standard Edition (SAP Launchpad Service)
- SAP Build Work Zone, Advanced Edition

# Key Summary Points

## Digital Experience (DX) Services Portfolio at SAP (2 main offerings)

- SAP Build Work Zone, standard edition
- SAP Build Work Zone, advanced edition

# Key Summary Points



**Typical Use Cases for SAP Build Work Zone**

# Key Summary Points

## Capabilities of SAP Build Work Zone



**App launcher**  
(link, tile, card)



**Open app**  
in new tab, in-place



**Navigation &  
URL parameters**



**Language**



**Theme &  
branding**



**Single sign-on &  
session management**



**Roles &  
authorizations**



**Content structure**  
(incl. roles and  
apps)

# Key Summary Points

Q1. In the context of user experience integration, which of the following dimensions were outlined?

- Ability to launch applications
- Roles and authorization handling
- C Web content management
- Flexible URL parameters
- E Mobile access

Correct

Incorrect. The Ability to launch applications, Flexible URL parameters and Roles and authorization handling were outlined in the context of user experience integration.

# Key Summary Points

## Key Building Blocks of SAP Build Work Zone

- Administrative Areas
  - Enables role based access and business focused decentral ways of working
- Homepages
  - Design entry page experience for all users
- Workspaces
  - Web content presentation – core element of user interaction
- Applications Launchpad
  - Built-in launchpad capabilities

# Key Summary Points

Q9. The application launchpad is an optional component of SAP Work.

A

True



False

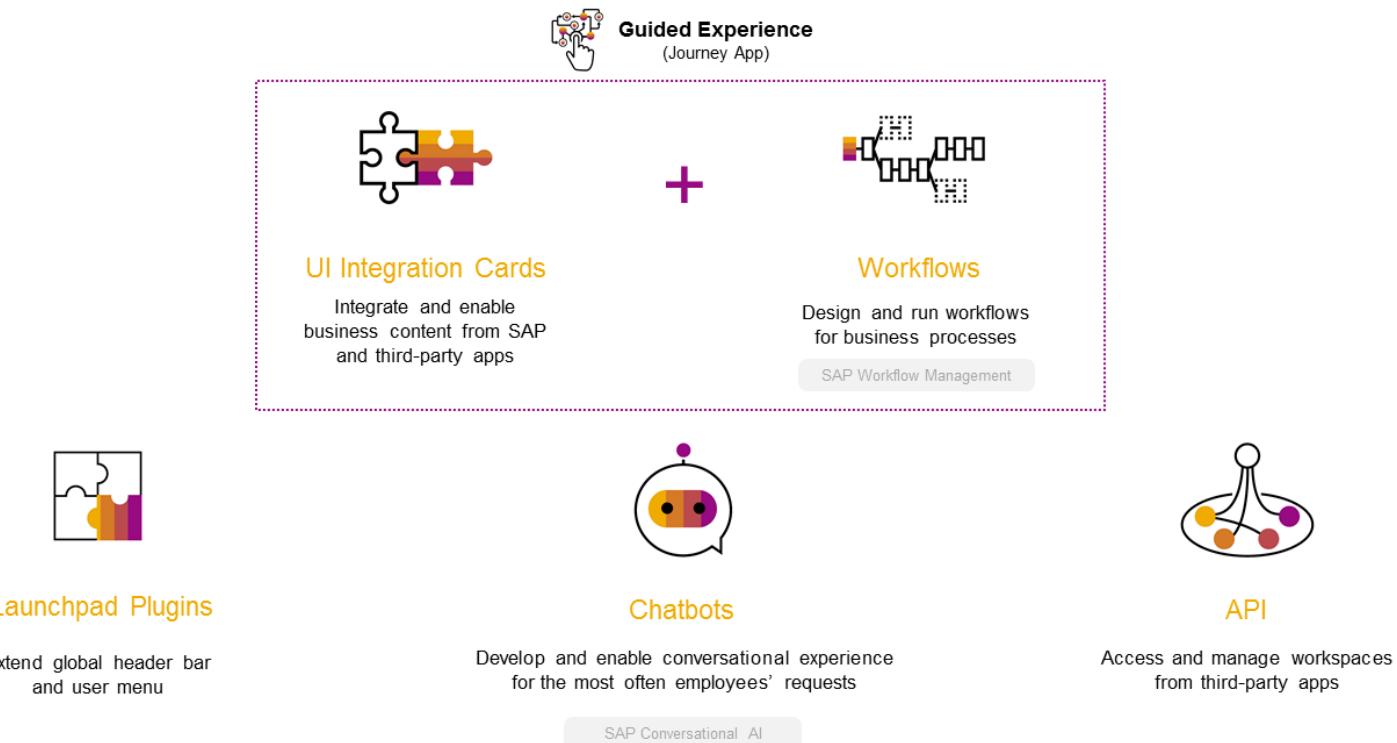


Correct

Correct. The application launchpad is not an optional component of SAP Work.

# Key Summary Points

## Extensibility Overview



### Guided Experience

- UI Integration Cards
- Workflows

# Key Summary Points

Q5. Which of the following best describes the concept of a guided experience?

- A Pre-built templates to be used when creating workspaces
- B Tool to display information and application content inside workspaces or homepages
- Workflow-based cards that help you perform specific tasks through a multistep process possibly spanning multiple systems



Correct

Correct. Guided experience is best described as Workflow-based cards that help you perform specific tasks through a multistep process possibly spanning multiple systems.

# Key Summary Points

Q4. The chatbot integration with SAP Conversational AI is an optional integration scenario for SAP Work Zone.

A False

True

Correct

Correct. The chatbot integration with SAP Conversational AI is an optional integration scenario for SAP Work Zone.

# Key Summary Points

Q8. Which of the following statements correctly describe the concept of the UI Integration Card?

A Only SAP can build UI Integration Cards

 Cards from different business applications can be added to SAP Work Zone workspaces

 Declarative, consistent, and easy to consume

 Small content building blocks, consolidating data from different systems into one page

 Correct

Correct. UI Integration Cards are small content building blocks, consolidating data from different systems into one page. They are Declarative, consistent, and easy to consume, and cards from different business applications can be added to SAP Work Zone workspaces.

# Key Summary Points

Q10. In addition to discussions, which of the following are part of the workspace forum(s)?

A Polls

Ideas

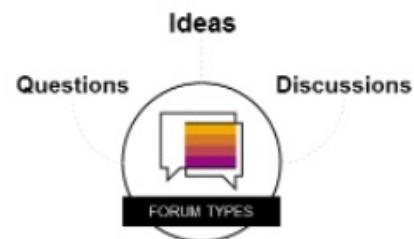
Questions

D Tasks

Correct

Correct. Ideas and Questions are part of the workspace forums(s).

Organize forums to discuss ideas and various business topics with members of workspace



SAP Fiori interface screenshot showing the 'Ace Innovation Challenge - Forum' page. The page header includes the SAP logo and the title 'Ace Innovation Challenge'. Below the header, there are sections for 'Overview' and 'Forum Topics / Ideas'. The 'Forum Topics / Ideas' section lists several posts:

- Deutsche Erneuerbare Energie eG posted about 8 months ago: Additional features for the Solar Pump. 2 likes, 0 comments, 10 views.
- Deutsche Erneuerbare Energie eG posted about 8 months ago: Minimum Overall Head with Solar Panels. 2 likes, 0 comments, 10 views.
- Deutsche Erneuerbare Energie eG posted about 8 months ago: How Design Layout for Maximum Efficiency for Hydraulic Pumps. 2 likes, 0 comments, 10 views.
- Deutsche Erneuerbare Energie eG posted about 8 months ago: Establish and Publish WPs for each Solar Product. 2 likes, 0 comments, 10 views.
- Deutsche Erneuerbare Energie eG posted about 8 months ago: Change the calculations for proper setting of Wind Turbine Blades. 2 likes, 0 comments, 10 views.

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**Application Focus**

**User Engagement and Interaction**

# Key Summary Points

## Finding More Ways to Learn the SAP Build Toolset

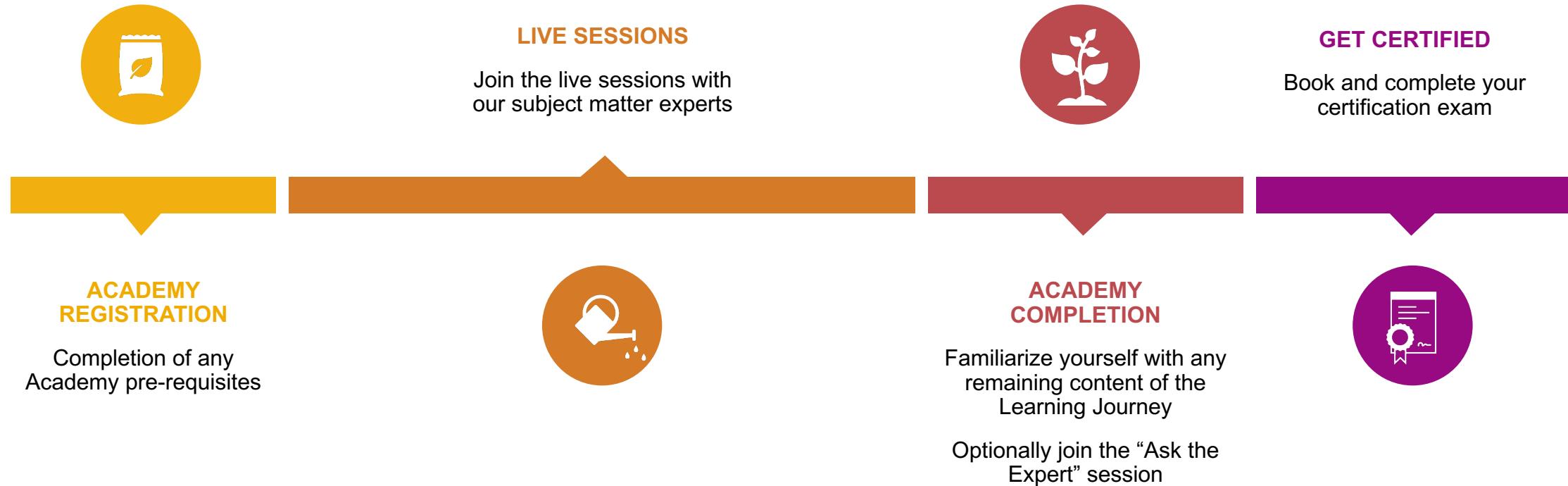
In this topic, you will learn about the available channels to find information about low-code / no-code learning and SAP Build content:

- SAP Learning
- SAP Discovery Center
- SAP Community
- SAP Help Portal
- SAP Build YouTube
- SAP Build LinkedIn

# Outro



# What are the next steps?



# Certification preparation 1/3

## from Learning Journey to Certification

SAP Learning

All certifications C\_LCNC\_02

### SAP Certified Citizen Developer Associate - SAP Build Low-code/No-code Applications and Automations

80 Questions 3 hrs 64% cut score View sample questions



**Overview**

The "SAP Certified Citizen Developer Associate - SAP Build Low-code/No-code Applications and Automations" certification exam validates that the candidate possesses the fundamental and core knowledge required of the LCNC application and automations profile. This certification proves that the candidate has an overall understanding and in-depth skills to participate as a member of a project team in a mentored role. This certificate builds on the basic knowledge gained through related SAP training. The certificate issued for passing this exam will be valid for 5 years.

**Available Languages**

- English

### C\_LCNC\_02

#### Question distribution:

- 01 Application development | 35%
- 02 Business process automation | 36%
- 03 Business sites | 10%
- 04 Citizen development | 19%

# Certification preparation

## About question types

Answering a question correctly results in one point. Answering a question incorrectly results in zero points. For multiple response questions, all of the responses need to be correct in order to be awarded one point.

**SAP Consultant Certification**

Feb 28 2023 | Logged in as : Sample Time remaining: 00:14:32

**SAP Build Low-code/No-code Applications and Automations**

1 of 6

What kinds of decision rules exist in SAP Build Process Automation?  
Note: There are 2 correct answers to this question.

Text rules  
 Decision table rules  
 Expression rules  
 Decision diagrams

**Assessment Navigator**

1	2	3	4	5
6				

**Next Question >** **Assessment Navigator** **Submit**

**SAP Consultant Certification**

Feb 28 2023 | Logged in as : Sample Time remaining: 00:13:43

**SAP Build Low-code/No-code Applications and Automations**

5 of 6

What does SAP Build Apps do automatically when you build an application?

Generate a record ID  
 Bind variables  
 Add a formula  
 Organize components

**Assessment Navigator**

1	2	3	4	5
6				

**< Previous Question** **Next Question >** **Assessment Navigator** **Submit**

# Certification preparation 3/3

## Important Exam Process and Security Guidelines

- An on-site exam:
  - is proctored in person by an exam supervisor
  - requires 2 forms of valid identification (not expired)
    - at least one government-issued photo ID
  - personal items (cell phones, bags, notepads, organizers, etc.) not allowed
- An online exam:
  - requires stable internet
  - is proctored remotely via Zoom (both webcam and entire desktop)
  - requires government-issued photo ID (not expired) via webcam
  - is only released by the exam supervisor after checking the exam environment
    - requires you to be in a quiet and secure room alone throughout the exam
    - you will be asked to rotate your webcam around the room
    - only one screen may be active.
    - cellphones/tablets and recording devices are forbidden
  - requires you use the Questionmark Secure browser to access the exam

More details [here](#)

# Take SAP Certification Exams in your own language

With a new translation tool, SAP can now provide real-time machine translation from English to eight other languages: Chinese, French, German, Japanese, Korean, Portuguese, Russian, and Spanish

Please read [this blog](#) for additional details.

The screenshot shows a SAP Consultant Certification exam interface. At the top, it says "SAP Consultant Certification" and "May 18 2021 Logged in as: SAPdemo@questionmark.com". The main content area displays a question about SAP BPC options. A red box highlights a "Translation" window on the right side. This window has a "Language" dropdown menu with the following options:

- Chinese (简体中文)
- English
- French (Français)
- German (Deutsch)
- Japanese (日本語)
- Korean (한국어)

At the bottom of the screen, there are buttons for "Next Question > Assessment Navigator" and "Submit".

# Certification Incentive

- ✓ Reimbursement of certification attempt costs\*
- ✓ Partner needs to certify at least 5 consultants\*
- ✓ Available to eligible PE Sell partners\*

\* Please check all eligibility criteria and details of the incentive here:

- [APJ region](#)
- [Other regions](#)

(only accessible to employees of PE Sell partners of Silver or Gold level)

The image displays two screenshots of SAP PBC website pages. The top screenshot shows the 'Partner Cloud Certification Initiative' page, which includes a title, a star rating of 0, a brief description about a limited-time offer for reimbursement, and a 'Contact Us' button. The bottom screenshot shows the 'APJ Partner Cloud Capacity Program' page, which also includes a title, a star rating of 0, a detailed description about the program's purpose and benefits, and a 'Contact Us' button. Both pages have a dark background featuring a person working in a server room.

# Purchasing certification exam attempts

Book your certification with product code CER006, CER001 or CERS01

The screenshot shows the SAP TRAINING website interface. At the top, there is a navigation bar with links for 'Explore catalog', 'SAP Learning Hub', 'SAP Certification', and 'More'. Below the navigation bar is a search bar with the placeholder 'Enter keyword to search for courses, certifications or training paths'. The main content area displays a product card for 'CER001 SAP Certification Exam, One Attempt'. The product title is highlighted with a red circle. Below the title, it says 'Delivery Methods: SAP Certification', 'Level: Certification', and 'Languages: English'. A 'Solution Release: 010' link is at the bottom left. On the right side of the product card, there is a 'Chat Now' button. Below the product card, there are sections for 'Course announcements' (with social sharing icons for LinkedIn, Twitter, Facebook, and Email) and 'Course information' (with a 'Content' section). To the right of the product card, there is a sidebar with a 'Book this product to consume within Certification Hub' section, which includes a 'See all certifications included in subscription' link, location information ('Germany'), and a 'Certification Hub Subscription' link. The price '200.00 € (EUR)' is listed with a note 'Price excludes tax.' and a blue 'Add to basket' button.

The screenshot shows the SAP TRAINING website interface, similar to the first one but for a different product. At the top, there is a navigation bar with links for 'Explore catalog', 'SAP Learning Hub', 'SAP Certification', and 'More'. Below the navigation bar is a search bar with the placeholder 'Enter keyword to search for courses, certifications or training paths'. The main content area displays a product card for 'CER006 SAP Certification Exam, Six Attempts'. The product title is highlighted with a red circle. Below the title, it says 'Delivery Methods: SAP Certification', 'Level: Certification', and 'Languages: English'. A 'Solution Release: 010' link is at the bottom left. On the right side of the product card, there is a 'Chat Now' button. Below the product card, there are sections for 'Course announcements' (with social sharing icons for LinkedIn, Twitter, Facebook, and Email) and 'Course information' (with a 'Content' section). To the right of the product card, there is a sidebar with a 'Book this product to consume within Certification Hub' section, which includes a 'See all certifications included in subscription' link, location information ('Germany'), and a 'Certification Hub Subscription' link. The price '500.00 € (EUR)' is listed with a note 'Price excludes tax.' and a blue 'Add to basket' button.

# Ask your “off-line” questions in the SAP BTP Learning community

The screenshot shows the SAP BTP Learning community homepage. At the top, there's a navigation bar with links for Groups, Partner Groups, SAP Events, Help, and user icons. Below the header is a search bar and a main title "SAP BTP Learning". The main content area displays several posts:

- Welcome learners! Join in this new and exciting collaboration experience.** (Post by AB on 11-10-2021)  
6226 views, 14 comments, 32 likes.
- How to get certified as an SAP BTP expert - in 3 simple steps** (Post by AB on 11-16-2021)  
7901 views, 12 comments, 24 likes.
- SAP Learning Tips & Tricks: How to Bookmark a Lesson** (Post by AB on 12-03-2021)  
946 views, 0 comments, 1 like.

At the bottom, there's a section titled "Group Activity" with a post from AB. A red circle highlights the "Join Group" button.

The screenshot shows the SAP BTP Learning community homepage. The layout is similar to the first one, with a search bar and main title "SAP BTP Learning". The main content area displays several posts:

- Welcome learners! Join in this new and exciting collaboration experience.** (Post by AB on 11-10-2021)  
6226 views, 14 comments, 32 likes.
- How to get certified as an SAP BTP expert - in 3 simple steps** (Post by AB on 11-16-2021)  
7901 views, 12 comments, 24 likes.
- SAP Learning Tips & Tricks: How to Bookmark a Lesson** (Post by AB on 12-03-2021)  
946 views, 0 comments, 1 like.

At the bottom, there's a section titled "Group Activity" with a post from AB. A red circle highlights the "Ask a question" button.

# Complement your certification related learning with SAP HANA Academy

Check out the [blog post](#) for current and coming topics

Denys van Kempen 

February 14, 2023 | 6 minute read

## Get Certified – SAP Build Low-code/No-code Applications and Automations

1 comment 11 likes 2,227 views

Interested to get SAP BTP certified? Here is a video tutorial series from the SAP HANA Academy to help you reach your goal.

- Get Certified – SAP Build Low-code/No-code << this article
- Get Certified – SAP Analytics Cloud
- Get Certified – SAP Integration Suite
- Get Certified – SAP BTP Extension Developer (Extension Suite)
- Get Certified – SAP HANA Cloud Development
- Get Certified – SAP HANA Cloud Administration

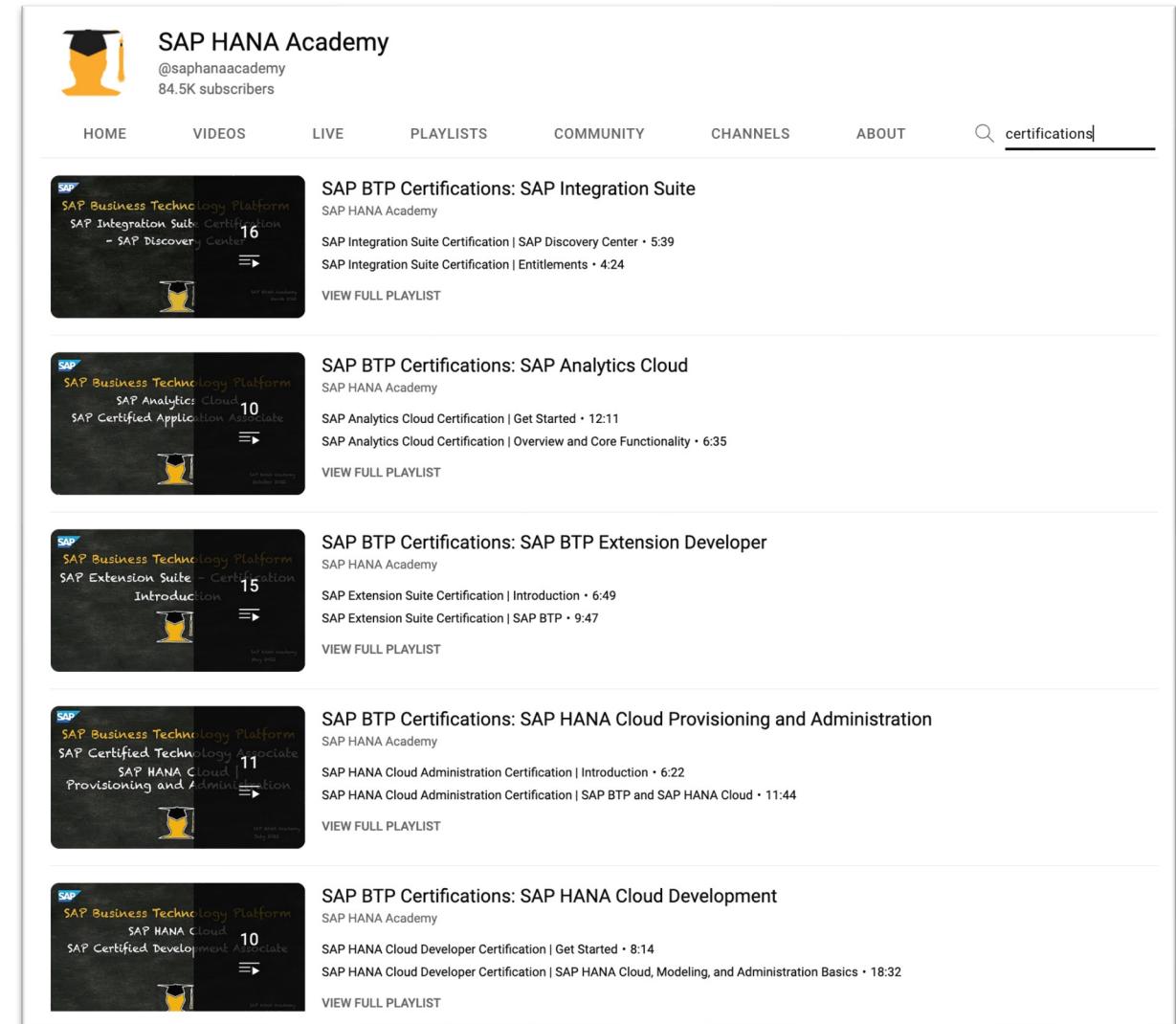
For earlier articles about SAP BTP certifications, see

- Get Certified: C\_SAC | SAP Certified Application Associate – SAP Analytics Cloud
- Get Certified: C\_CPI\_14 | SAP Certified Development Associate – SAP Integration Suite
- Get Certified: C\_CPE\_13 | SAP Certified Development Associate – SAP Extension Suite
- Get Certified: C\_HCADM | SAP Certified Technology Associate – SAP HANA Cloud
- Get Certified: C\_HCMOD\_01 | SAP Certified Technology Associate – SAP HANA Cloud
- Get Certified: C\_HCDEV\_01 | SAP Certified Development Associate – SAP HANA Cloud

Questions? Please post as comment.

Useful? Give us a like and share on social media.

Dive directly into the [video playlist @saphanaacademy](#) of the first topic covered – Up-Coming\*



The screenshot shows the SAP HANA Academy YouTube channel interface. At the top, there's a profile picture of a graduation cap, the channel name "SAP HANA Academy", the handle "@saphanaacademy", and subscriber count "84.5K subscribers". Below the header are navigation links: HOME, VIDEOS, LIVE, PLAYLISTS, COMMUNITY, CHANNELS, and ABOUT. A search bar contains the query "certifications". The main content area displays five video thumbnails, each representing a different SAP BTP certification topic:

- SAP BTP Certifications: SAP Integration Suite**  
SAP HANA Academy  
SAP Integration Suite Certification | SAP Discovery Center • 5:39  
SAP Integration Suite Certification | Entitlements • 4:24  
[VIEW FULL PLAYLIST](#)
- SAP BTP Certifications: SAP Analytics Cloud**  
SAP HANA Academy  
SAP Analytics Cloud Certification | Get Started • 12:11  
SAP Analytics Cloud Certification | Overview and Core Functionality • 6:35  
[VIEW FULL PLAYLIST](#)
- SAP BTP Certifications: SAP BTP Extension Developer**  
SAP HANA Academy  
SAP Extension Suite Certification | Introduction • 6:49  
SAP Extension Suite Certification | SAP BTP • 9:47  
[VIEW FULL PLAYLIST](#)
- SAP BTP Certifications: SAP HANA Cloud Provisioning and Administration**  
SAP HANA Academy  
SAP HANA Cloud Administration Certification | Introduction • 6:22  
SAP HANA Cloud Administration Certification | SAP BTP and SAP HANA Cloud • 11:44  
[VIEW FULL PLAYLIST](#)
- SAP BTP Certifications: SAP HANA Cloud Development**  
SAP HANA Academy  
SAP HANA Cloud Developer Certification | Get Started • 8:14  
SAP HANA Cloud Developer Certification | SAP HANA Cloud, Modeling, and Administration Basics • 18:32  
[VIEW FULL PLAYLIST](#)

# Schedule for all Partner Certification Academies for SAP BTP

As of 24<sup>th</sup> of May 2023

Learning Journey	Associated Certification	Schedule & Registration		
		NA/LAC	EMEA	APJ/ANZ
<a href="#">Explore SAP Analytics Cloud</a>	<a href="#">SAP Certified Application Associate - SAP Analytics Cloud</a>	<a href="#">Mar 14,16,28</a>	<a href="#">Mar 14,16,28</a>	<a href="#">Mar 14,16,28</a>
<a href="#">Build side-by-side extensions on SAP BTP</a>	<a href="#">SAP Certified Development Associate - SAP BTP Extension Developer</a>	<a href="#">Jun 13,15,27</a>	<a href="#">Jun 8,9,20</a>	<a href="#">Jun 13,15,27</a>
<a href="#">Developing with SAP Integration Suite</a>	<a href="#">SAP Certified Development Associate - SAP Integration Suite</a>	<a href="#">Jun 8,9,20</a>	<a href="#">Jun 13,15,27</a>	<a href="#">Jun 12,14,21</a>
<a href="#">Develop Data Models with SAP HANA Cloud</a>	<a href="#">SAP Certified Technology Associate - SAP HANA Cloud Modeling</a>	<a href="#">May 8,10,12,22</a>	<a href="#">May 15,17,19,29</a>	<a href="#">May 8,10,12,22</a>
<a href="#">Develop Applications Running on SAP BTP Using SAP HANA Cloud</a>	<a href="#">SAP Certified Development Associate - SAP HANA Cloud 1.0</a>	<a href="#">May 15,17,19,29</a>	<a href="#">May 22,24,26 / Jun 6</a>	<a href="#">May 15,17,19,29</a>
<a href="#">Explore Provisioning and Administration with SAP HANA Cloud</a>	<a href="#">SAP Certified Technology Associate - SAP HANA Cloud Provisioning and Administration</a>	<a href="#">Q4 2022 replay</a>	<a href="#">Q4 2022 replay</a>	<a href="#">Q4 2022 replay</a>
<a href="#">Utilize SAP Build for Low-Code/No-Code Applications and Automations for Citizen Developers</a>	<a href="#">SAP Certified Citizen Developer Associate - SAP Build Low-code/No-code Applications and Automations</a>	<a href="#">Jun 20,22,29</a>	<a href="#">Jun 13,15,27</a>	<a href="#">Jun 20,22,29</a>
<a href="#">Implement and Administer SAP Build Work Zone</a>	<a href="#">SAP Certified Application Associate - SAP Build Work Zone - Implementation and Administration</a>	<a href="#">Apr 17,18,25</a>	<a href="#">Mar 21,23,29</a>	<a href="#">Mar 28,30 / Apr 11</a>

Last date is the optional Ask-the-Expert session

Latest schedule and information can always be found [here](#).

# Please help amplify on Social Media

SAP PartnerEdge  
47,262 followers  
6d • 

STARTING SOON! Join this **#SAPPartner** Certification Academy to learn about and get certified for **#SAPBTP** side-by-side extension development. Gain an overview of key features and tools to use in future extension projects on SAP BTP. Regional sessions available - register <https://sap.to/6046O9g3s>



SAP PartnerEdge  
47,262 followers  
1w • 

Mark Your Calendar! The **#SAPPartner** Certification Academy just added sessions to get certified for SAP Integration Suite. Register to gain an overview of key features and tools of the SAP Integration Suite to use in future extension projects on **#SAPBTP**.  
Regional sessions are offered:

- ✓ NA/LAC <https://sap.to/6048OgBU>
- ✓ APJ/ANZ <https://sap.to/6049OgBU>
- ✓ EMEA <https://sap.to/6040OgBU>



SAP PartnerEdge  
47,262 followers  
1d • 

Why wait? Join the **#SAPPartner** Certification Academy to get certified for Low-Code/No-Code Applications and Automations. Gain an overview of the SAP Build portfolio's key features and tools for future **#SAPBTP** projects. Select your region to register <https://sap.to/6049OYlhV>



**Build side-by-side extensions on SAP BTP:**  
<https://twitter.com/SAPPartnerEdge/status/1658791227322519557>  
<https://www.linkedin.com/feed/update/urn:li:activity:7064753228743077889>

**SAP Integration Suite:**  
<https://www.linkedin.com/feed/update/urn:li:activity:7063786860992458752/>  
<https://twitter.com/SAPPartnerEdge/status/1658277840691789825>

**Utilize SAP Build for Low-Code/No-Code Applications and Automations for Citizen Developers:**  
<https://twitter.com/SAPPartnerEdge/status/1660527666158501888>  
<https://www.linkedin.com/feed/update/urn:li:activity:70664896539331072>

# Thank you.

Contact information:

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