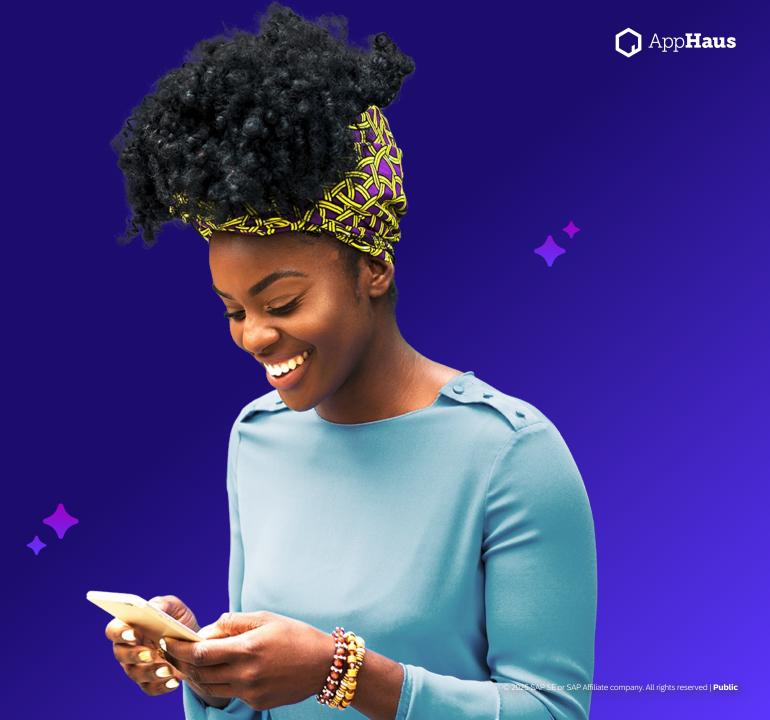


Joule Agent Discovery And Design Workshops

Prework Package



Method Phases

To define your automation use case



1

Use Case Identification

Joule Agent Discovery Workshop as prework activity.



2

Use Case Definition

Joule Agent Design Workshop as on-site activity.

1

Use Case Identification

Joule Agent Discovery Workshop as prework activity.

Automation Scenario

Number:

We need to automate / streamline ...

Example: Resolution of customer complaints (Activity / process to streamline)

to help ...

Example: Customer service agents, escalation managers (Area / Role(s))

to ...

Example: achieve faster resolution of customer issues, improve satisfaction and reduce churn.

(Objective(s))

Characteristics

How complex is this activity or process? 1 (very simple) - 5 (very complex)	How variable and unpredictable are next steps? 1 (always fixed) - 5 (highly variable / unpredictable)
1 2 3 4 5	1 2 3 4 5
Very Simple Very complex	Always Fixed Highly Variable
Why?	What changes?
How much human judgement is needed to decide next steps? 1 (none: only clear rules) - 5 (a lot: only human reasoning) 1 2 3 4 5 Clear Rules Reasoning	How much time / effort could be saved if automated? 1 (not much) - 5 (a lot) 1 2 3 4 5 Not much A lot
What decision criteria are important?	Why?



1.1

Ideate

automation scenarios





What activities and processes in your company or area should be automated or streamlined?

Check the **Agentic AI Use Case Ideation** cards for inspiration.



Think about 1 automation scenario that fits to 1 or more of the questions in the cards and describe them in the provided template on page 4 (1 activity per sheet).



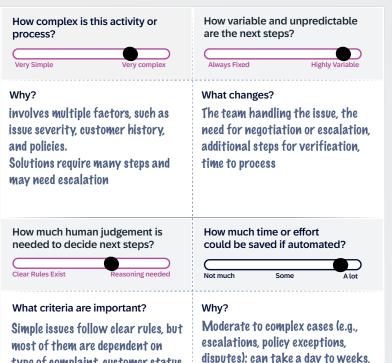
App**Haus** apphaus.sap.com/toolkit/methods

Characteristics

type of complaint, customer status,

issue severity, customer responses

and required approvals.



Number: 1



allowing customer service

employees to focus on the

conceptualization of new

personalized services

Use Case Ideation Cards

to identify activities that could benefit from agentic technology

When do you need to manually handle unpredictable situations and make smart adjustments based on reasoning? (AppHaus SAP

HANDLE UNPREDICTABLE SITUATIONS AND MAKE SMART ADJUSTMENTS

EXAMPLE SCENARIO

Resolving Invoice Processing Issues

You are a finance manager, and a supplier invoice fails to process, but it's unclear why. You must check payment details, verify discrepancies in contract terms, review approvals, and decide whether to escalate or override the issue—all while ensuring payments stay on track. Every step requires judgment to balance compliance, risk, and business continuity.

When do you need to manually bridge gaps across different systems and domains?

(AppHaus

BRIDGE GAPS ACROSS DIFFERENT SYSTEMS AND DOMAINS

EXAMPLE SCENARIO

Managing Shipment Delays

You are a logistics manager, and a shipment is delayed. You must update the tracking system, e-mail the customer, adjust delivery schedules, and inform the warehouse—all by switching between different platforms and sending manual updates. The process is slow, and delays keep piling up.

SAP

Use Case Ideation Cards

to identify activities that could benefit from agentic technology

When do you need to manually create, refine or execute code or content based on changing situations? (AppHaus SAP

CREATE, REFINE OR EXECUTE CODE OR CONTENT

EXAMPLE SCENARIO

Personalizing on-boarding training

You are an HR manager onboarding new hires. You review employee profiles and training progress data daily. When you see differences in their learning needs, you manually compile a request to adjust their personalized learning paths and content in your corporate learning system. This multi-step process is slow and error-prone.

When do you need to manually process and make sense of large amounts of unstructured data to decide next steps?

PROCESS AND MAKE SENSE OF LARGE AMOUNTS OF UNSTRUCTURED DATA

EXAMPLE SCENARIO

Processing Insurance Claims

You are an insurance claims manager handling hundreds of claim emails daily. Each contains unstructured details about accidents and damages. Your team reads through every email, extracts relevant details, and manually converts that information into a structured claim format. This manual process is slow, prone to errors, and delays the overall claims processing cycle.

App**Haus**

SAP

Does your automation scenario need an agentic solution?

You can use different technologies to automate your scenario. It all depends on how intelligent and autonomous you want the solution to be.

Gen AI applications can use advanced reasoning capabilities to generate insights and suggestions based on analized data. However, these applications alone don't execute any action beyond content creation.

RPA systems, on the other hand, can execute repetitive, predefined tasks following fixed, preconfigured rules, but they can't adapt or reason if something unexpected happens.

Al agents combine both: they can reason and act, adapting to changing situations and allowing a more flexible experience. They can act autonomously rather than automatically, as they can make decisions based on their reasoning and choose what actions to take given the context and goals.

So, does your scenario truly need an agentic solution, or would something simpler do the job?



1.2

Evaluate

the need for agentic technology



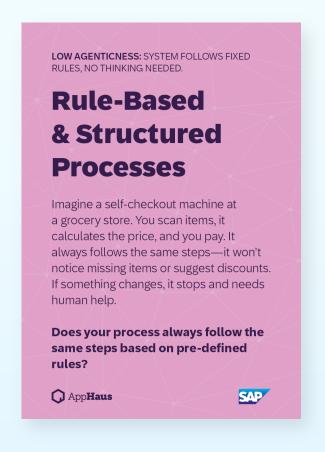


How much thinking and action does your automation scenario need?

- Check the "Characteristics" section of the template. Decide: how much should a solution think and act to automate this activity?
- Highly-complex, highly-variable activities that need human-like reasoning score higher in the Y axis. Activities that benefit from fully automated execution of next steps rank higher on the X axis.
- If your idea is in the bottom-left, think: what aspect of this activity could gain from more intelligence or autonomy? Check the Use Case Ideation Cards for inspiration.



Examples to determine how much reasoning and autonomous action your automation needs.







LOW AGENTICNESS: SYSTEM FOLLOWS FIXED RULES, NO THINKING NEEDED.

Rule-Based & Structured Processes

Imagine a self-checkout machine at a grocery store. You scan items, it calculates the price, and you pay. It always follows the same steps—it won't notice missing items or suggest discounts. If something changes, it stops and needs human help.

Does your process always follow the same steps based on pre-defined rules?





LOW AGENTICNESS EXAMPLE ACTIVITIES AND PROCESSES.

Invoice Processing: Matching invoices to payments based on set rules.

Simple Data Entry & Validation: Entering structured information into systems.

Customer Support Ticket Routing:Assigning inquiries based on fixed categories.

Low agenticness in a nutshell

- The **steps and rules don't change**—there's nothing to "think" about.
- **No complex decisions**—just follow instructions.
- Accuracy and consistency are more important than adaptability.

MEDIUM AGENTICNESS: SYSTEM PROACTIVELY SUGGESTS WITHOUT ACTION.

Adaptive, Insight-Driven Processes

Imagine using GPS Navigation while driving. The GPS checks traffic and suggests the fastest route. If there's a roadblock or accident, it recommends a detour. But you still decide whether to follow the new route or stick with your own way.

Does your process benefit from proactive data-driven suggestions, but you still decide when to act?





MEDIUM AGENTICNESS EXAMPLE ACTIVITIES AND PROCESSES

Customer Feedback Analysis: Al detects sentiment and suggests improvements.

Prioritizing Sales Leads: Al ranks leads, but the salesperson picks who to contact.

Restocking Inventory: All predicts items to run out, but a manager approves the order.

Medium agenticness in a nutshell

- Al thinks: it **analyzes data and suggests ideas**, but does not act on its own.
- A human reviews Al's suggestions, selects the best option, and takes action.
- The **process changes**, so AI adapts but remains a support tool.

HIGH AGENTICNESS: SYSTEM MAKES DECISIONS AND ACTS WITH MINIMAL HUMAN OVERSIGHT

Dynamic & Decision-Rich Processes

Imagine you ask a Self-Driving taxi to take you to the airport. The car chooses the best route, avoids traffic, changes speed, and stops at red lights. If a new road opens or traffic conditions change, it adapts automatically, while you enjoy the ride.

Does your process change often, requiring informed reasoning to make decisions and move forward?





HIGH AGENTICNESS EXAMPLE ACTIVITIES AND PROCESSES

Personalized Shopping: Al learns what you like and automatically shows the best choices.

Marketing Optimization: Al refines campaigns in real-time based on evolving user behaviors.

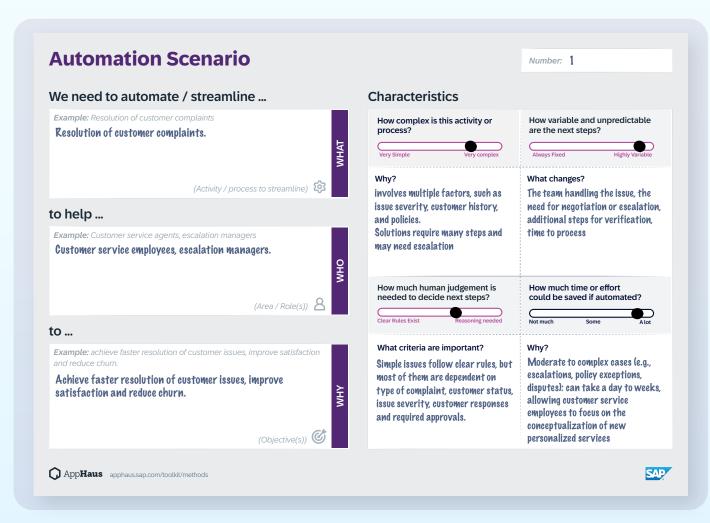
Fraud detection: AI monitors transactions and blocks suspicious ones in real-time.

High agenticness in a nutshell

- The process changes frequently and is unpredictable, requiring reasoning to determine next steps.
- Al analyzes, decides, and takes action independently, but with human supervision.
- Al learns what works best and adapts

Example

How much should a solution think and act to automate this activity?



Need to think or reason = High

 Should figure out whom to forward the request or what to do next based on the content and context, which are always changing.

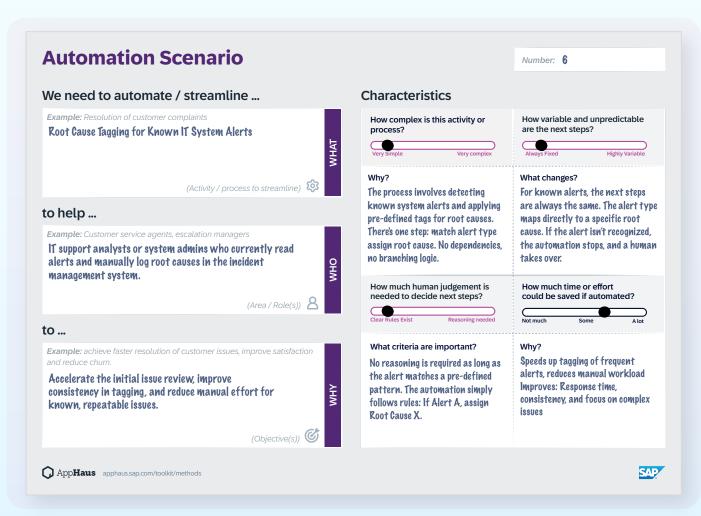
Need to act = High

- Should execute the corresponding action: re-booking or cancelling a flight or hotel, etc, based on the request.



Example

How much should a solution think and act to automate this activity?



Need to think or reason = Low

- There are clear rules to classify the syetm alerts with pre-defined tags (there are no "it depends").

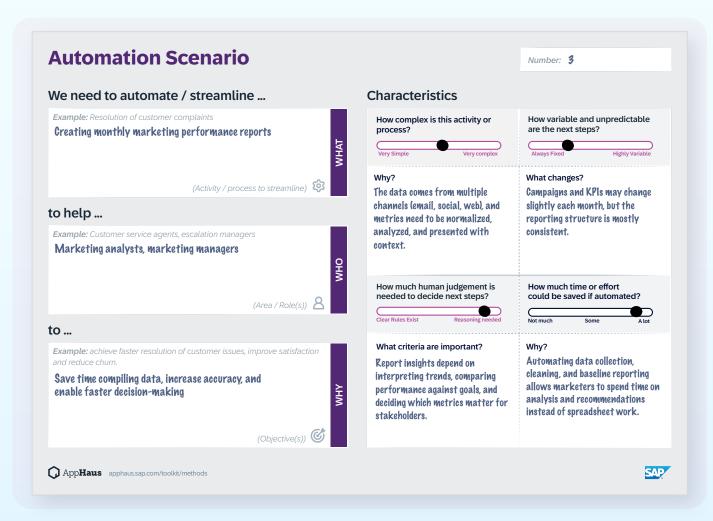
Need to act = Med

- The system should automatically execute the tagging step and update records, but when the alert doesn't match a rule, it's escalated to a human.



Example

How much should a solution think and act to automate this activity?



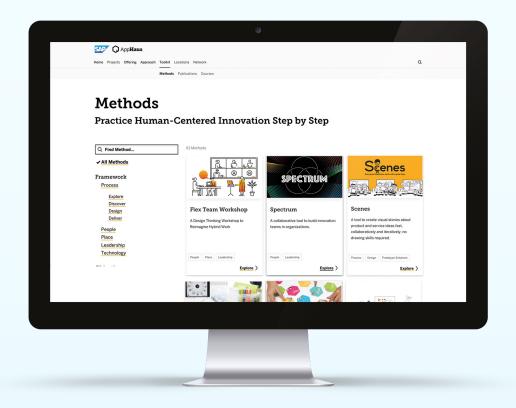
Need to think or reason = High

 Multiple data sources needs to be analyzed and compared, and the system should figure out what metrics matter the most each time and what recommendations to give.

Need to act = Low

- No further action is executed besides the creation of the report.





Practice Human-Centered Innovation

https://apphaus.sap.com/toolkit/methods