

AI Workflow Automation



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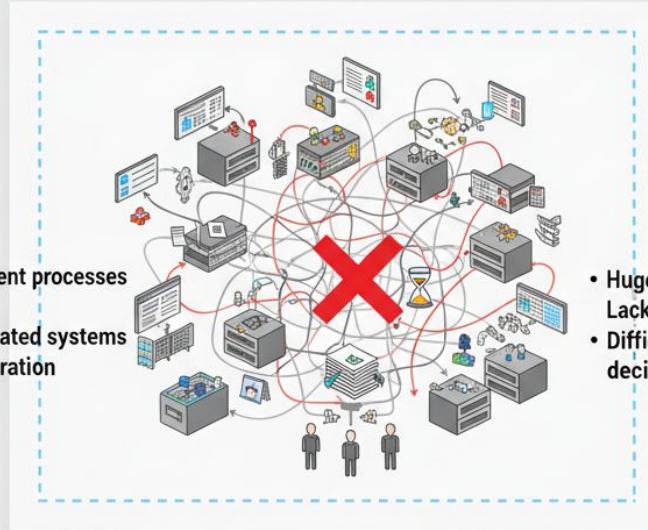
 Ramtin-Rahmani

  NetAdminPlus



CHALLENGES OF ORGANIZATIONAL PROCESSES

- Manual and inefficient processes
Dispersed and
- Dispersed and isolated systems
- Lack of data integration
Human errors



- Huge volume of data
Lack of time and resources
- Difficulty in strategic
decision decision-making

IDENTIFYING ROADBLOCKS TO EFFICIENCY & GROWTH

Common Hurdles in Business Process Management

THE HIDDEN COST OF OF REPEITIVE WORK

Trillions Lost in Productivity, Errors & Injuries



\$5 TRILLION LOST:

Repetitive tasks
cost the global
service industry
annually
(Unit4, 2017)



\$1.8 TRILLION WASTED:

US businesses
lose yearly on
an automatable
tasks
productive tasks
(Samanage, 2016)



80% PROCESS FAILURES:

Human error from
repetitive work
(General Industry
Industry Estimate).



INJURY COSTS:

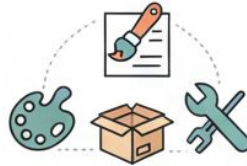
Repetitive Strain
Injuries contribute to
\$176.5 billion US annual
annual costs (NSC,
2023 data)

TYPES OF BUSINESSES

PRODUCT-BASED BUSINESS



SERVICE PROVIDER



HYBRID BUSINESS



BUSINESS CORE FUNCTIONS

SALES & MARKETING



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OPERATIONS



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FINANCE



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HUMAN RESOURCES



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BUSINESS SUPPORT FUNCTIONS

CUSTOMER SERVICE



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BUSINESS ADMINISTRATION



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LEGAL AND COMPLIANCE



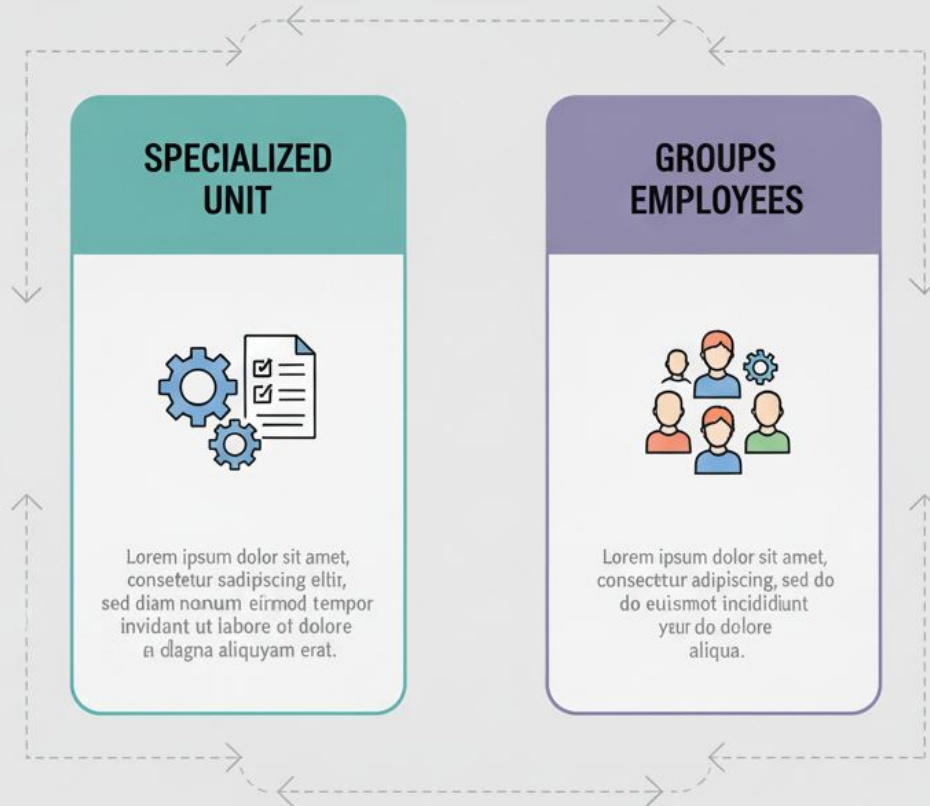
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IT



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DEPARTMENT



KEY COMPONENTS OF AUTOMATION

RPA



**RPA
(ROBOTIC PROCESS
AUTOMATION)**

AI



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INTEGRATION



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Integration: The "glue" that connects all tools

BPM (BUSINESS PROCESS MANAGEMENT)



BLUEPRINT FOR AUTOMATION

SYSTEMATIC APPROACH

BPM is a systematic approach to analyzing, designing, and monitoring business processes.

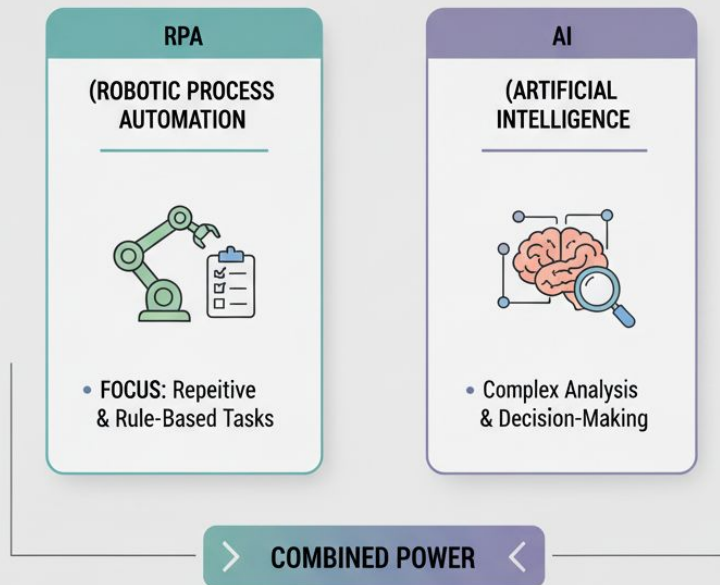
GOAL

Its goal is to optimize workflows to increase efficiency, reduce errors, and improve overall results.

BLUEPRINT FOR AUTOMATION

BPM acts as the blueprint for automation, ensuring that processes are designed and streamlined the best possible way to be automated.

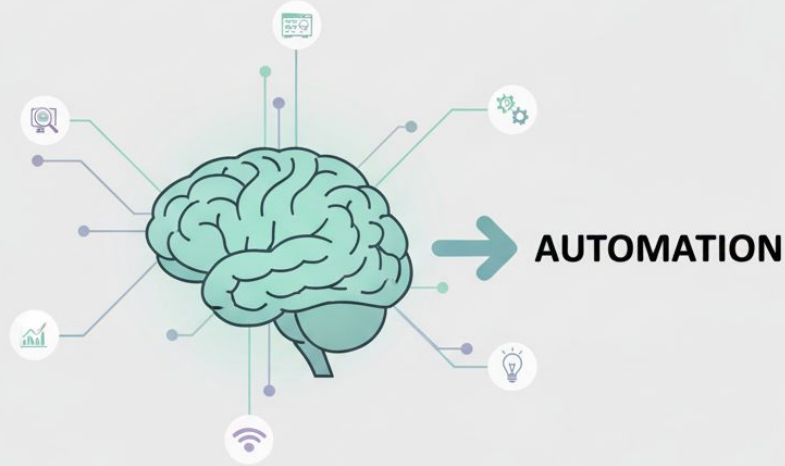
RPA VS AI



**Intelligent Process Automation:
Powerful & Smart Workflows**

The two technologies combine to create powerful and intelligent processes.

AI (ARTIFICIAL INTELLIGENCE)



THE BRAIN OF AUTOMATION

AI enables systems to analyze data, learn, and make decisions like a human.



It processes complex data and enables intelligent decision-making.



AI is used to solve complex problems and perform tasks that require judgment and reasoning.

AI is the core intelligence that drives smart, automated processes.

AI: THE BRAIN!

WHAT AI CAN DO?



OCR & DPI

Reads text from scanned documents & images



TTS & STT

Converts text to speech and speech to text



UNSTRUCTURED TO STRUCTURED DATA

Organizes messy data into a usable format

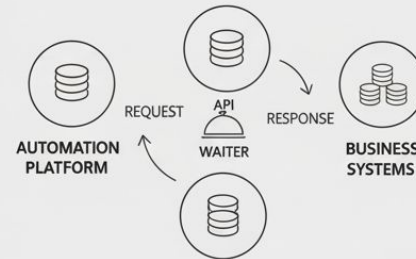


FUNCTION CALLING

Allows AI to use other applications & tools

WHAT IS AN API?

- A set of rules allowing software to communicate and share data.



- Acts like a waiter, getting requests and returning results
- Acts like a waiter, getting requests and returning results
- Connects automation tools to business systems for automatic interaction

TRANSFORMING BUSINESS WITH INTELLIGENT CONNECTIVITY

The Digital Glue for Seamless Workflows and Innovation

INTEGRATION



UNIFIED ECOYSSTEM

CONNECTIVITY & FLOW

- Connects all your systems and applications to create unified ecosystem. A seamless arrier automated data flow, eliminating the need manual transfers.

THE 'GLUE' FOR AUTOMATION

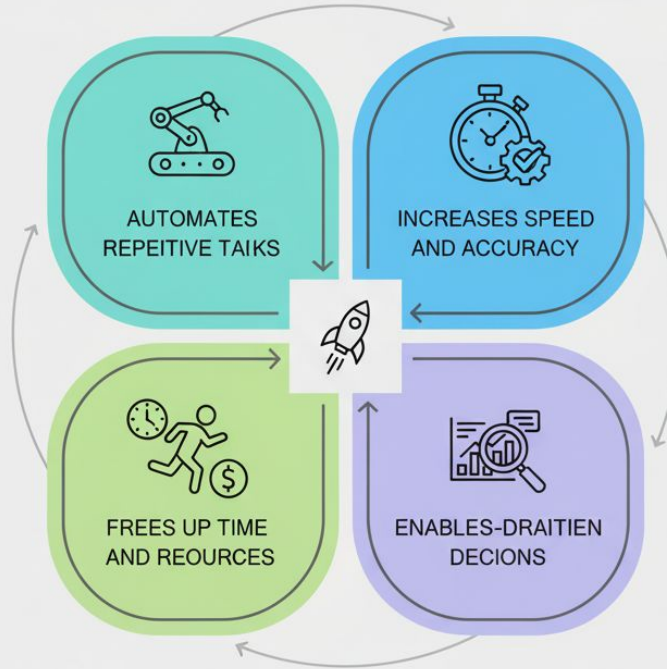
- Acts as the "glue" for automation, connecting all components into the single workflow



**Connecting all components into a
a seamless, single workflow**

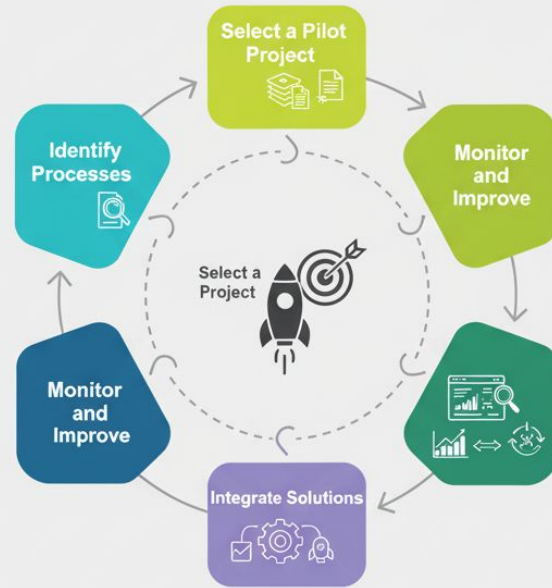
WHY AUTOMATION IS A NEED?

- Automates Repetitive Tasks
- Increases Speed and Accuracy
- Frees Up Time and Resources
- Enables Data-Driven Decisions



**Efficiency, Precision, and Insight for
Business Growth**

AI Automation Blueprint



A Strategic Roadmap for Intelligent Transformation

- Identify & Streamline Processes, Prepare & Organize Data
- Pilot, Connect & Automate Solutions
- Grow, Scale & Optimize for Ongoing Success

1. Identify Processes

- Find automation opportunities within daily workflows.
- Focus at repetitive, rule-based, and high-volume tasks.
- Collaborate at different teams to find ideal processes.



Finding the Right Opportunities for Automation

2. Data Preparation

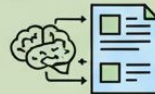
- A vital step for successful automation and high-quality data.
- Digitizing paper or unstructured for AI systems.
- Cleaning and standarding data to ensure accuracy and consistency.

OCR



Reads text from scanned documents.

DPI



Intelligently extracts key from documents.

OCR

Reads text from scanned documents

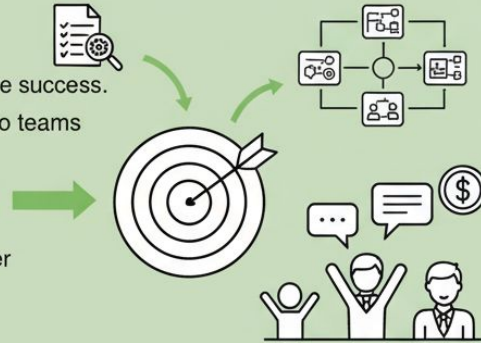
DPI

Intelligently extracts key data from documents.

Building a Solid Foundation for Intelligent Automation

3. Select a Pilot Project

- Start with a simple, clear process to prove success.
- Quickly demonstrate automation's value to teams, teams and management.
- Minimize risk by beginning with a small, contained project.
- Learn from the results to prepare for larger projects.



Start Small, Prove Success, Then Scale

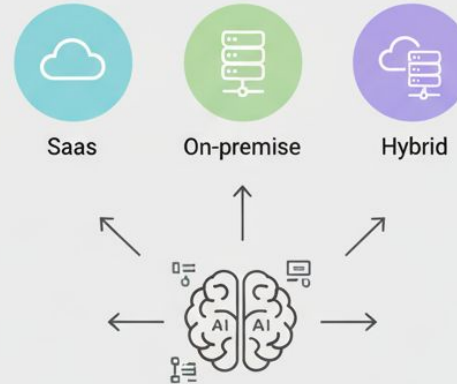
4. CHOOSING YOUR AUTOMATION STACK

STACK SELECTION



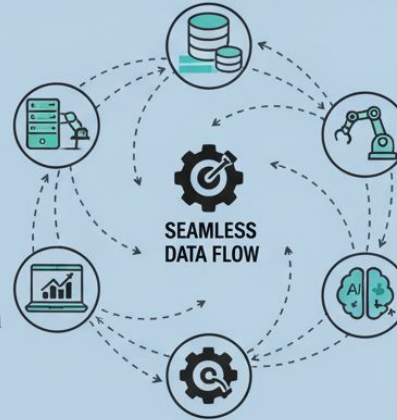
- **Tailored Stack Selection:** Align with business needs, infrastructure, and expertise. Consider integrations, scalability, and AI features.
- **Flexible Automation Approach:** SaSs for ease, On-premise for control, Hybrid for balance

DEPLOYMENT MODEL



5. Integrate Solutions

- Connect new automation tools with organizational systems.
- Enable an automatic, seamless flow data between systems.
- Connect all automation components into a single, cohesive process



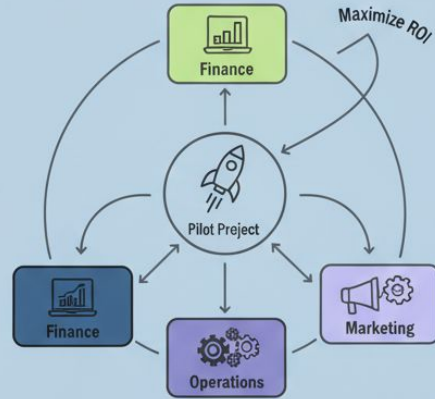
INTEGRATION Connecting all components into a seamless, single workflow

Creating a Unified, Automated Ecosystem



6. Scale and Expand

- Expand proven automation success to other departments and processes.
- Maximize ROI by spreading automation benefits across the organization.
- Apply lessons learned from a pilot to larger projects



Scaling Success Across the Organization

From a Single Process to an Enterprise-Wide Transformation

7. Monitor and Improve

- Continuously monitor workflow performance to ensure accuracy and effectiveness.
- Gather team feedback to identify new opportunities of improvement.
- Continuously optimize processes to align with changing business needs.



Continuous Optimization for Lasting Efficiency

Tracking Performance, Gathering Insights, and Adapting for Success

INTELLIGENT AUTOMATION EXAMPLES



Smartly follow up with leads using personalized, automated emails



Generate content drafts for social media and product between systems



Read invoices, extract key key data, and send for payment



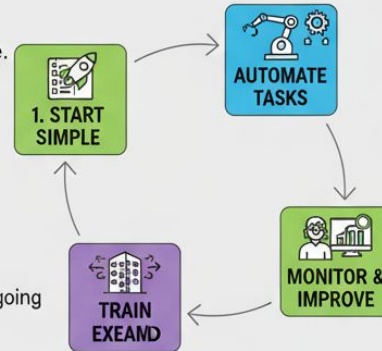
Conduct initial candidate screening interviews using AI using AI assistants

Transforming Workflows with AI & RPA

Real-World Applications of Smart process Automation

STRATEGIES FOR A SUCCESSFUL LAUNCH

- Start with a simple, contained process to prove value.
- Focus on repetitive, rule-based, and high-volume tasks.
- Expand automation to other departments after a successful pilot.
- Invest in training your team to manage new systems.
- Continuously monitor performance and iterate for ongoing improvement.



LAUNCHING INTELLIGENT AUTOMATION SUCCESSFULLY

A Roadmap for Phased Implementation & Continuous Optimization

COMMON AUTOMATION CHALLENGES



OVERCOME RESISTANCE

- Involve employees in the process
- Address concerns and show benefits
- Provide training and support



DATA PREPARATION

- Invest in data cleansing
- Standardize and show structure
- Ensure train-quality and input

LEGACY SYSTEM INTEGRATION



MODERN PLATFORM

- Use modern integration platforms, APIs
- Connect old systems
- Create a unified data flow

SOLVING THE HURDLES TO SUCCESSFUL SUCCESSION

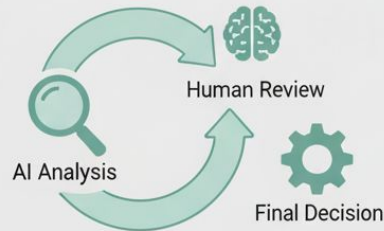
Strategies for Smooth and Effective Implementation

Advanced Challenges

MITIGATE AI HALLUCINATION

HUMAN-IN-THE-LOOP OVERSIGHT

- Design workflows where humans make critical final decisions to ensure accuracy.
- Combine AI with human expertise experts for reliable results.



DEMONSTRATE VALUE

HIGH-IMPACT PROJECTS FOR QUICK ROI

- Start with projects that have clear, measurable benefits.
- Quickly show return of investment to gain of support and momentum.



Quick ROI



High Impact

NAVIGATING COMPLEX AUTOMATION HURLES

Strategies for Managing Advanced AI & ROI Challenges

ZAPIER



ZAPIER

-  **Ease of Use:** Simple interface, requires no technical skills.
-  **Vast Integrations:** Connects with over 6,000 popular applications.
-  **AI Capabilities:** Supports text generation and content summarization.
-  **Free Plan:** Offers 100 tasks/month for simple, two-step workflows.

FREE

AUTOMATE & INNOVATE

Zapier is a powerful automation platform that connects your favorite apps, enabling seamless workflows without code.

Unlocking Efficiency with ZAPIER

Connecting Apps. Automating Work. Boosting Productivity

MAKE

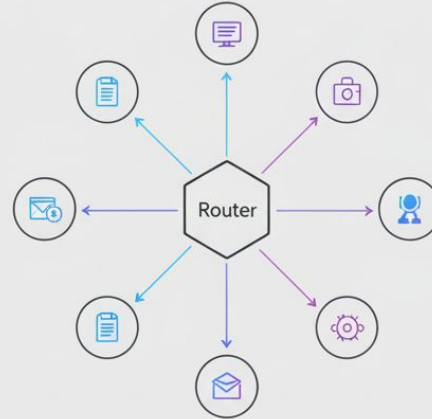
MAKE

- ✓ **Visual Builder:** Design complex workflows with a visual canvas.
- ✓ **High Flexibility:** Provides granular control over data flow and logic.
- ✓ **Advanced Features:** Use routers to split data into multiple paths. 📁
- ✓ **Free Plan:** Includes 1,000 operations/month and two active scenarios. 📁



AUTOMATE & CONTROL

Make is a powerful visual platform for building, designing, and automating workflows. It provides advanced control over data manipulation and process logic without requiring coding.



MASTERING AUTOMATION WITH MAKE

Visual Workflow Design, Advanced Logic, and Powerful Integrations



n8n

n8n

✓ Open-Source

Host on your own server for full data control.



✓ Full Customization

Write custom code using JavaScript and Python.

✓ High Scalability

Ideal for large-scale, high-volume projects.

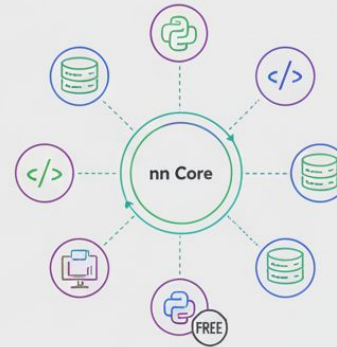
✓ Free Plan

The self-hosted version is completely free use



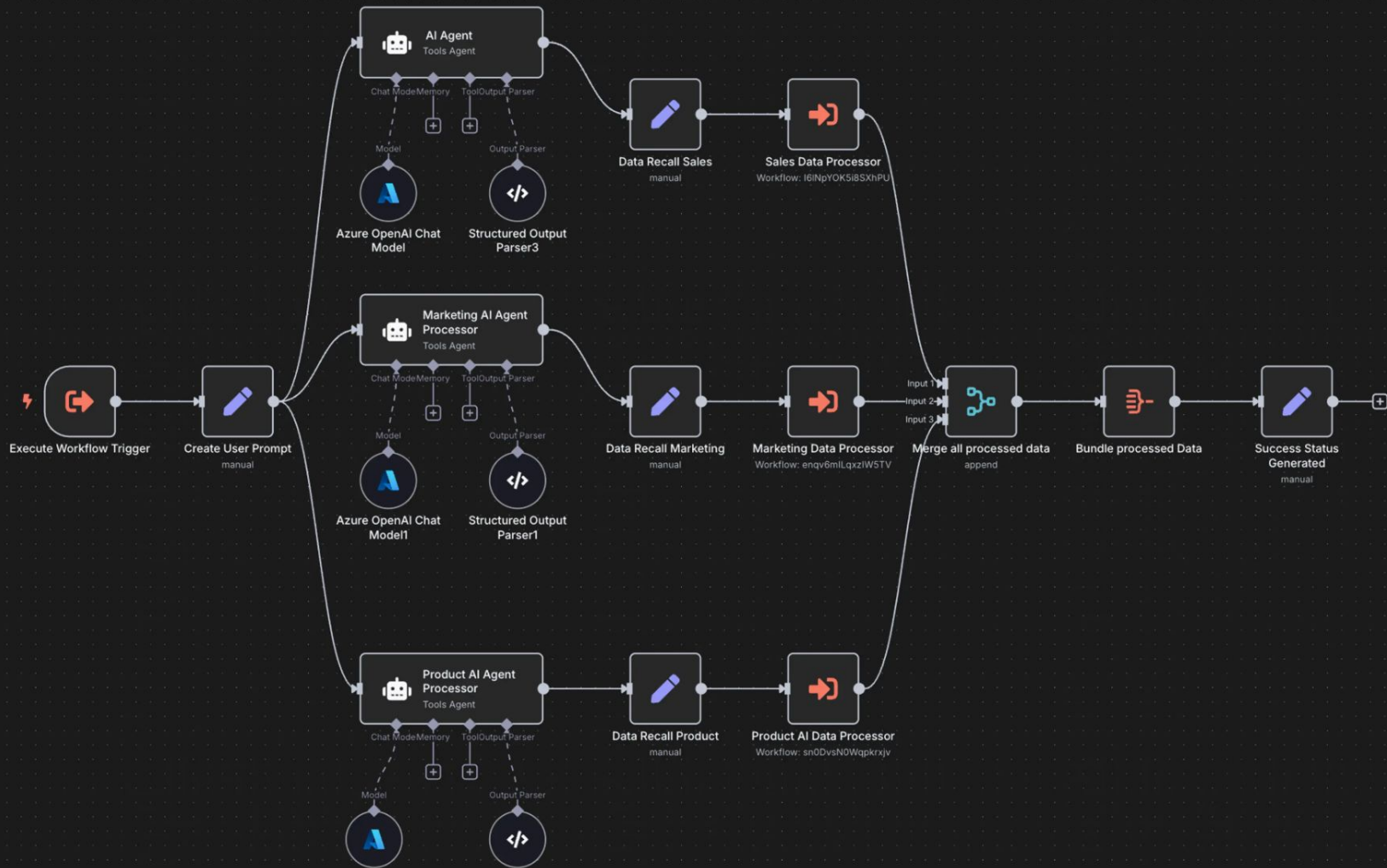
AUTOMATE & CUSTOMIZE

n8n is a powerful open-source platform that enables you to design, automate, and integrate workflows with unparalleled flexibility. It provides complete control over your data and the ability to customize every aspect of your automation logic.



MASTERING AUTOMATION WITH N8N

Open-Source Flexibility, Custom Logic, and Scalable Workflows



FINAL THOUGHTS

EFFICIENCY & INNOVATION

Automation is a necessity for efficiency and competitive advantage. Free up employees to focus on creative, strategic tasks.



START SMALL, GROW BIG

Start with a small, high-impact process to prove value. Scale gradually across the organization.



THE IT ADVANTAGE

IT plays a central role in successful automation implementation. Collaborate for seamless integration.



CONTINUOUS OPTIMIZATION

Continuously monitor performance and iterate for ongoing improvement. Adapt to changing business needs.



EMBRACE THE FUTURE OF WORK

Driving Growth & Innovation Through Intelligent Automation