

CASE STUDY

# Intelligent Process Automation in Finance: A Deep-Dive

## 1. Introduction

In today's fast-paced finance landscape, manual workflows are no longer sustainable. Finance leaders seek greater accuracy, speed, and compliance. Enter Intelligent Process Automation (IPA)—a fusion of Robotic Process Automation (RPA) with Artificial Intelligence (AI). IPA transforms transaction-heavy, repetitive finance functions into intelligent, self-optimizing processes.

According to SolveXia, 44% of finance teams now use intelligent process automation, with 95% of finance leaders investing in AI (solvexia.com). As the global IPA market is projected to grow from USD 16.2 billion in 2024 to USD 47.2 billion by 2033 (straitresearch.com), finance leaders must assess and master IPA to stay ahead.

This blog explores how organizations are leveraging IPA with AI platforms, such as SAP BTP, to automate invoicing, financial closing, compliance, and other processes. Through real-world case studies and compelling statistics, we demonstrate why finance teams must act now with an effective AI implementation strategy and modern AI platforms.

## 2. What Is Intelligent Process Automation in Finance?

IPA enhances traditional RPA by adding AI elements like:

**Intelligent Document Processing (IDP) with OCR**

**Machine Learning** for exception handling and anomaly detection

**Generative AI** for decision logic

**Pre-built AI Agents** on cloud platforms

This enables end-to-end automation, as AI systems can ingest documents, classify transactions, detect anomalies, and route exceptions—all with minimal human oversight.

## 3. Case Deep-Dive: Expense Processing Automation

[A 2025 study in AI-driven finance](#) showcased a major Korean enterprise that implemented a multi-stage IPA workflow using generative AI and IDP:

- 1. OCR-based receipt data ingestion
- 2. Policy-driven AI classification
- 3. GenAI exception resolution
- 4. Human-in-the-loop final checks

## Results:

- 80% reduction in processing time
- Error rates dropped drastically, and compliance improved
- System “learns” from interventions - [autonomy increases over time.](#)
- This proves that integrating AI transforms not just tasks, but entire operational efficiencies.

## 4. Industry-Powered Implementation: Omega Healthcare

Though not finance-native, Omega Healthcare's deployment of AI-Powered Document Understanding is a stunning parallel, handling 250 million transactions annually, it:

- Saved **15,000 employee hours/month**
- Cut documentation time by **40%**
- Reduced turnaround by **50%**
- Achieved **99.5% accuracy and 30% ROI** for clients
- For finance leaders, these numbers emphasize the ROI potential of structured automation paired with AI.





## 5. IPA for Financial Closing with SAP BTP

SAP offers deep IPA capabilities on (BTP) :

Automates financial close tasks on the SAP [Business Technology Platform](#), using low-code workflows and **AI-powered** document processing.

Improves transparency, compliance, and velocity.

Reduces reliance on manual spreadsheets and emails.

Builds governance into every step of the financial closing process ([sap.com](#))

### Explore Agile IPA on SAP BTP:

Check our AI offerings—[Artificial Intelligence Platform](#) and [SAP BTP](#)—to jumpstart your AI implementation.



## 6. IPA Use Cases Across Finance

Use Case	Impact
Invoice & AP processing	90% faster workflows, <0.5% error rates
Accounts Receivable prediction	81% accuracy, saving ~\$1.75M/month in prioritization
Fraud detection & compliance	EY flagged fraud early, saving 25% on audit costs
Financial closing,	Built-in governance via SAP BTP bots



## 7. AI Platform Strategy & Roadmap

- A successful AI implementation requires a structured AI platform like SAP BTP:
- Identify high-value finance use cases (e.g., invoice automation, close cycles)
  - Gather and prepare historical transaction data.
  - Build and train AI models (NER for invoices, anomaly classifiers).
  - Deploy via IPA pipelines, starting with low-risk processes.
  - Monitor performance, optimize based on error rates and ROI.

For finance leaders, it’s essential to align IPA deployment with ROI metrics, such as error reduction, cycle times, and compliance improvements.

### Stats that matter

1. **90% faster finance processing** times thanks to automation, and under 0.5% error rates
2. **78%** of organizations planning or using RPA in finance workflows

3. **93% of CFOs** report faster invoice processing via automation
4. **CAGR of 12.6% in IPA** platform adoption leading to a USD 47 billion market size by 2033



## 8. Common Challenges & Solutions

- ### Data Quality & Fragmentation
- Mixing legacy ERPs, PDFs, and spreadsheets complicates the IPA process.
- Fix:** Utilize unified data pipelines through your AI platform (such as SAP BTP).
- ### Governance & Auditability
- Automated processes need traceability.
- Fix:** Build audit trails into each automated step; SAP BTP supports logging and reporting.
- ### Skill Gaps & Change Resistance
- Staff unfamiliar with AI may resist change.
- Fix:** Provide training for finance teams and start with low-risk pilots.

## Call to Action

If you're a finance leader eager to reduce costs, increase visibility, and streamline compliance, IPA is your next frontier. **Experience IPA firsthand.**

[Download our AI Case Study & Request a Free Consultation](#)

Explore real-world IPA implementations with our expert team, powered by AI-platform insights from SAP BTP and IPA frameworks from Nsight.



## 9. Conclusion: Transform Finance with IPA

- Intelligent Process Automation** is no longer optional - it’s a transformational force. By unifying **AI implementation**, **robust AI platforms**, and compelling **AI use cases**, finance teams can:
- Slash processing times dramatically.
  - Minimize errors to less than **0.5%**.
  - Predict revenue flows with better accuracy.
  - Automate financial close with full auditability.
  - Generate measurable ROI - **often over 30%**.
- The future of finance is intelligent, autonomous, and designed for speed. CFOs and finance execs urging modernization must adopt IPA to lead the charge. And with platforms like SAP BTP and proven AI use cases, transformation is both possible and profitable.

### Ready to transform?

Reach out to learn how IPA can reshape your finance operations - starting today.