How Modern Enterprises Use AIDP™ to Work with First-Mile Data

ADEPTIA

Introduction

Data is the foundation of modern business. It powers customer experiences, drives revenue, ensures compliance, and keeps operations running. But as data grows more complex — especially when it originates outside your organization — managing it effectively often becomes a bottleneck.

In this ebook, you'll see how modern enterprises use Adeptia's Intelligent Document Processing (AIDP) to transform messy, external documents into structured, validated data that accelerates operations, reduces costs, and unlocks scale.

First-Mile Data

What is First Mile Data?

First-mile data refers to data created outside of the owned data systems of a business — often unstructured, inconsistent, and messy. Sources of this data can also include PDFs, scanned forms, and emailed documents. Just because these documents are digitized does not mean the data is digital and usable for your business.

Why Does it Matter?

It's the fuel for key workflows like onboarding, fulfillment, compliance, and payments.

What happens if you don't address it?

Your most important processes start off delayed and broken.

The Challenge

First-Mile Data rarely arrives in a clean, ready-to-use format — creating bottlenecks, manual work, and downstream accuracy errors.

Operational Drag

Manual rekeying, errors, and delays slow down onboarding, fulfillment, and service.

- Risks customer and partner relationships due to delays and errors puts your business at risk of lagging behind competitors while being known as difficult with which to work.

Cost Impact

Wasted hours, redundant contractor work, and delayed revenue.

- Companies spend hundreds of thousands of dollars a year off shoring unstructured data entry and analysis.

Data Risk

Incomplete or bad data flowing into systems leads to compliance, customer service, and analytics issues.

- Without accurate data you can trust, you're at risk for legal fees, customer dissatisfaction and broken AI models.

Why Legacy Approaches and Modern Attempts Fall Short

For years, enterprises have attempted to patch the first-mile data gap with partial tools:

OCR: Converts images or scanned docs into raw text, but has no understanding of meaning, structure, or data formats.

LLMs: Can extract structured data from unstructured text with good prompts, but lack reliability, guardrails, and business context. Plus, many documents are too large, and with too many pages, for processing.

Traditional IDP Tools: Focus on extraction but lack integration capabilities, validation layers, or enterprise-grade control.

Manual: More expensive for a slower process with less accuracy given that throughput is dependent on people, resulting in higher hard headcount costs and time delays. Plus, complex validation introduces risk and lower accuracy due to human error > 92%*

Hidden Costs: covering integration complexity, maintenance, and accuracy issues.

All of these options leave enterprises with brittle workflows that require human cleanup or struggle with real-world variation. They solve for parts of the problem — but leave the rest (especially accuracy, reliability, and downstream integration) up to your team.

*"Preventing Human Error: The impact of data entry methods on data accuracy and statistical results"
September 2011, Computers in Human Behavior

Why Legacy Approaches and Modern Attempts Fall Short *cont.*

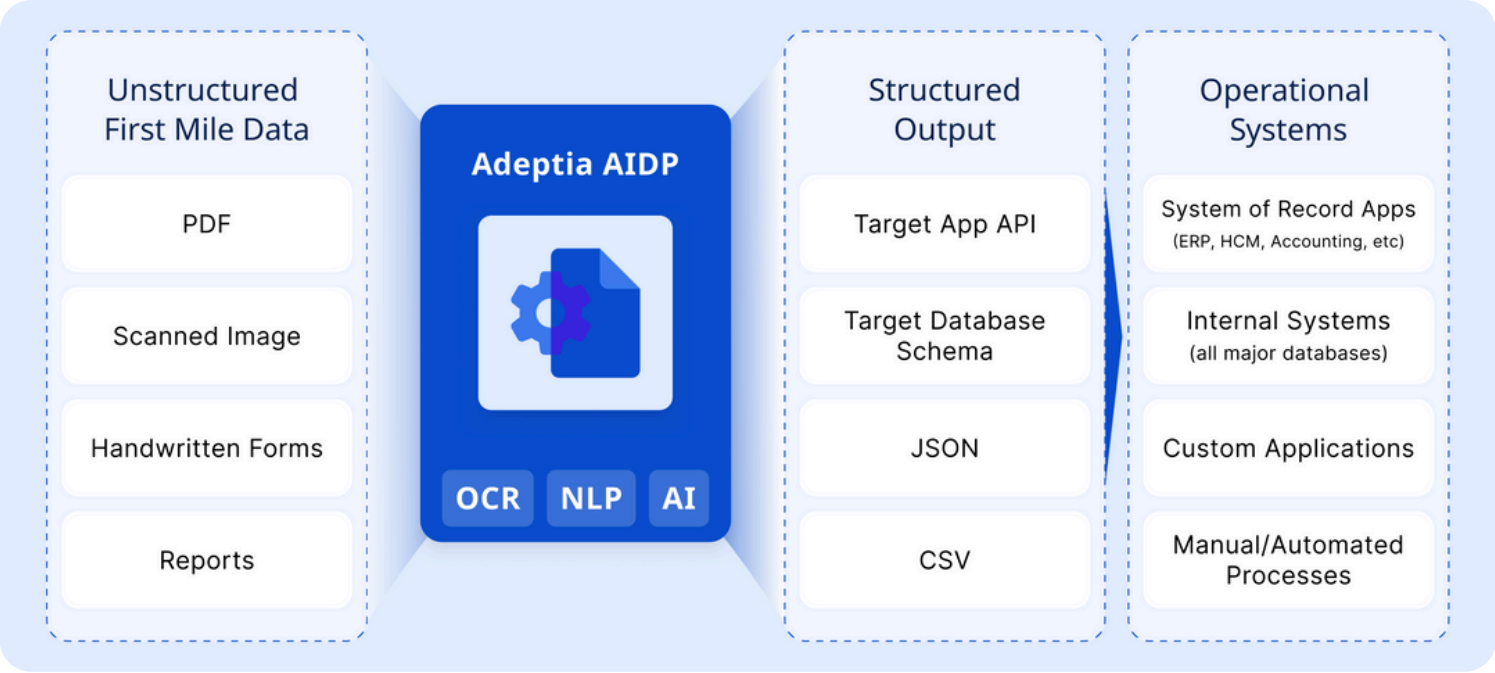
	OCR	LLM	AIDP	Why AIDP Wins
Automated data extraction at scale	✅	✅	✅	Combines OCR, NLP, and AI to automate high volume extraction with enterprise reliability.
Structured output format	❌	✅	✅	Outputs clean, structured data (JSON, CSV) ready for use, not just raw text.
Downstream system integration	❌	❌	✅	Delivers extracted data directly to systems of record via API, database, or flat file
Handling of large and imperfect docs	❌	❌	✅	Built to handle multi-page docs and with zoom adjustment to handle unclear files.
Support for variable data entry types and doc structures	❌	❌	✅	Pre-built models support variations in document structure as well as typed, handwritten, image, and other data inputs.
Human-in-the-loop review	❌	❌	✅	Includes a test wizard to validate extraction before production, additional prompts guidance, and human verification step.
Accuracy	98-99%	90-95%	**>99%**	Combines automation, validation, and oversight for enterprise-ready performance.

Adeptia Intelligent Document Processing (AIDP)

AI Enhanced IDP to Accelerate Your First-Mile Data into Action.

AIDP is an enterprise-grade IDP solution that is scalable, flexible, and purpose-built for complex data environments with >99% accuracy.

- **Smart Extraction:** AI + pattern recognition to handle real-world, variable documents.
- **Built-in Validation:** Configurable business rules ensure only clean, complete data moves forward.
- **Human-in-the-Loop:** Optional checkpoints to configure data mapping, review, correct, and reinforce trust in automation.
- **Document Flexibility:** Handles PDF's, images, reports, even handwritten notes; including checkboxes, different formats or layouts - not just clean templates.
- **Pre-Built Structures:** Document-specific data models support various document types like POs, loan applications, claims forms, and more — with normalization built-in.
- **Delivery-Ready Outputs:** Pushes structured data directly to ERPs, CRMs, core platforms, or databases via API — JSON/CSV ready.



Use Cases by Industry

Adeptia's AI enhanced Intelligent Document Processing (AIDP) is built for: Finance, Insurance, Pharma, Specialty Manufacturing, and Healthcare. Adeptia is HIPAA and SOC2 compliant.



Insurance

- **Invoice & Statement Processing:** Vendor invoice automation for carrier operations
- **Contract Ingestion & Term Extraction:** Policy and endorsement ingestion
- **Claims Document Handling:** Automated claims intake and triage



Finance

- **Invoice & Statement Processing:** Accounts payable automation for banks and wealth firms
- **Contract Ingestion & Term Extraction:** Extracting key data from loan agreements and contracts
- **Loan or Policy Application Processing:** Digitizing and validating loan application packages



Manufacturing

- **Invoice & Statement Processing:** Vendor payment processing from scanned documents
- **Rev-ops Acceleration:** Vendor contracts, rebates and SLAs
- **Quality Control & Lab Report Analysis:** Parsing QC logs and test certifications



Healthcare

- **Claims Document Handling:** Digitizing and validating claims documentation
- **Patient Intake & Consent Forms:** Patient onboarding forms and consent document digitization
- **Policy Application Processing:** Intake and processing of insurance forms

Getting Started with Adeptia

The road to modern integration starts here. Adeptia's AIDP is trusted by enterprises across industries to overcome the complexity of first-mile data. Whether you're replacing outdated middleware or scaling partner onboarding, we're ready to help.

Schedule a demo to see how we help the world's largest enterprise brands turn weeks into hours, eliminate manual workflows, and improve accuracy beyond 90%.

About Adeptia

Adeptia is the intelligent automation data platform purpose-built to solve the first-mile data problem — transforming messy, external inputs into structured, validated data that flows into your core systems to drive business operations.

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