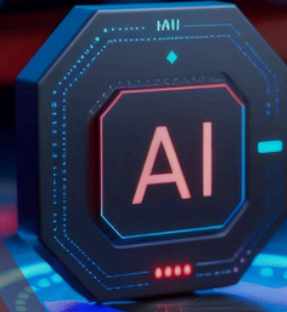


AI-Powered Legal Document Comparison Platform

Transforming Contract Review from Bottleneck to Business Enabler



Client Overview

A leading Indian public sector enterprise in the energy sector, managing large-scale operations across refining, pipelines, distribution and international trade. The organization handles a vast and complex portfolio of legal documents, including vendor contracts, joint ventures, infrastructure agreements and compliance documentation.

Business Challenges



Lengthy legal review cycles

Complex contracts required 2–3 weeks for manual review, delaying procurement and business operations



Procurement bottlenecks

Legal approvals slowed vendor onboarding and project execution timelines



Risk of missed clauses

Manual review increased the likelihood of overlooking critical legal and financial exposures



Lack of version visibility

Tracking clause changes across multiple contract versions was inefficient and fragmented



Reviewer fatigue and inconsistency

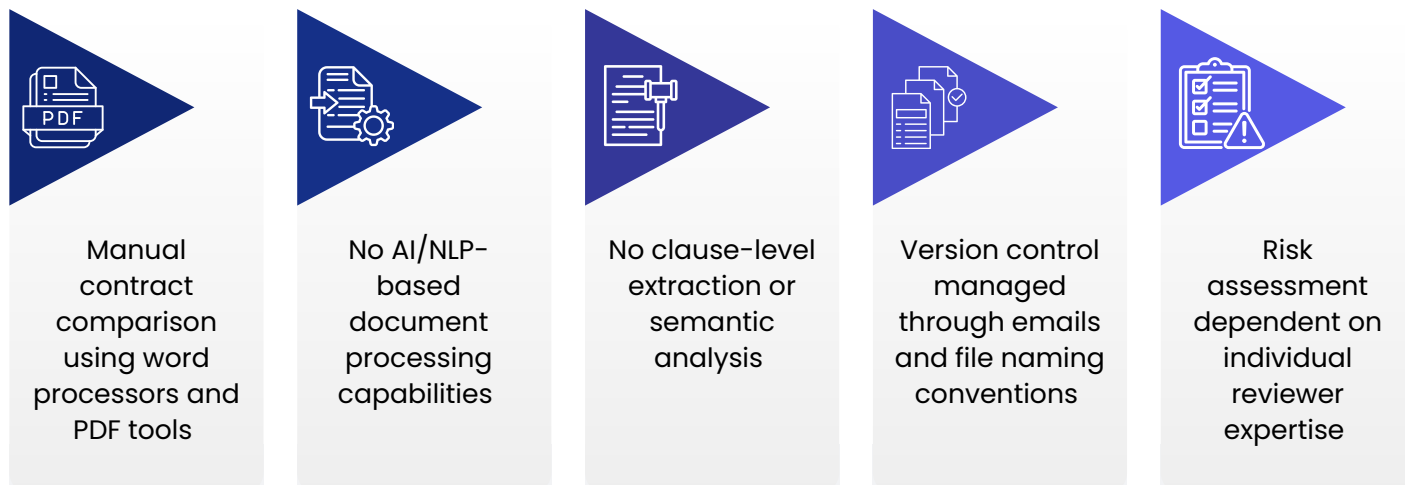
Outcomes varied across reviewers due to manual processes and workload pressures



Scalability limitations

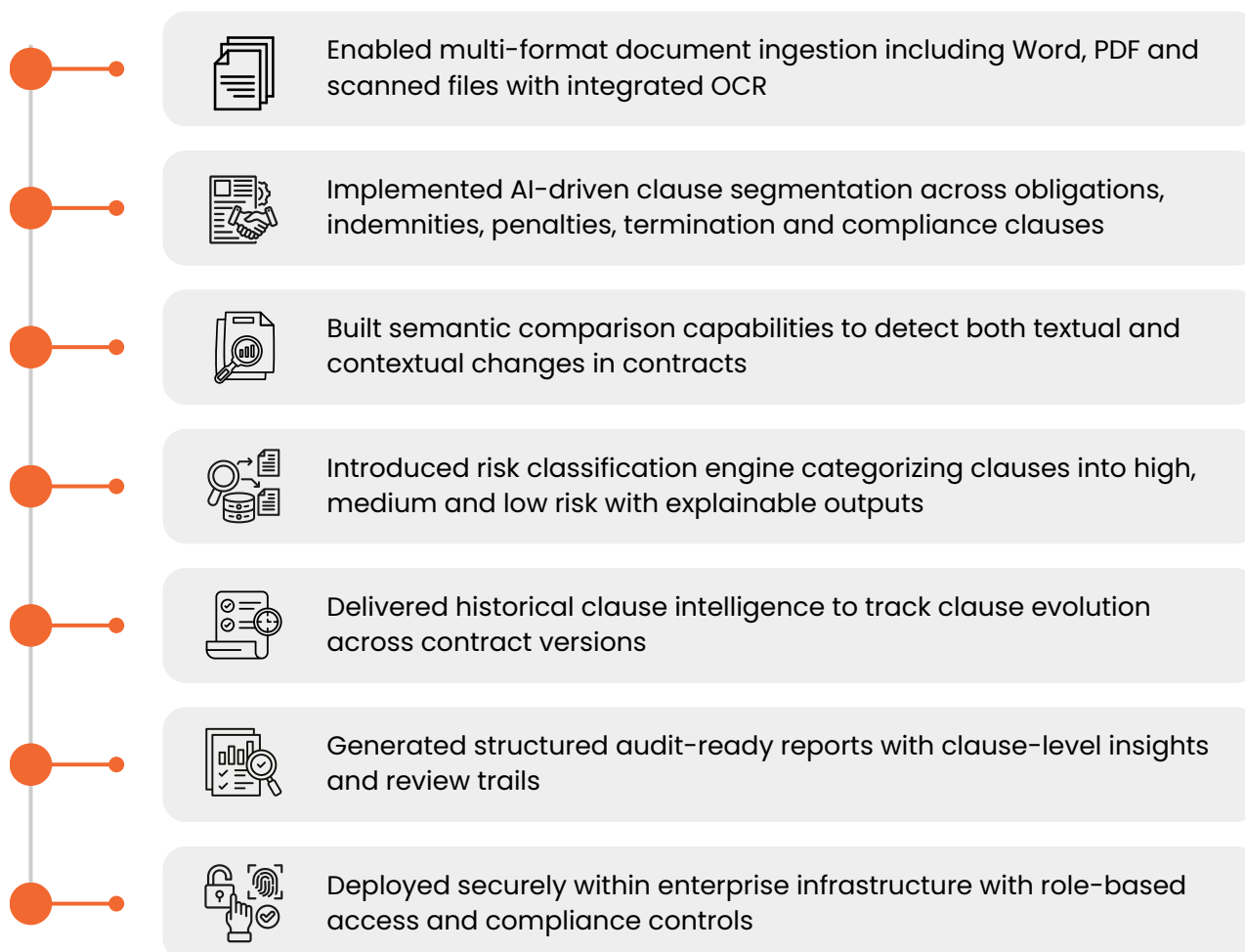
Increasing contract volumes required proportional increases in legal effort

Technology Background



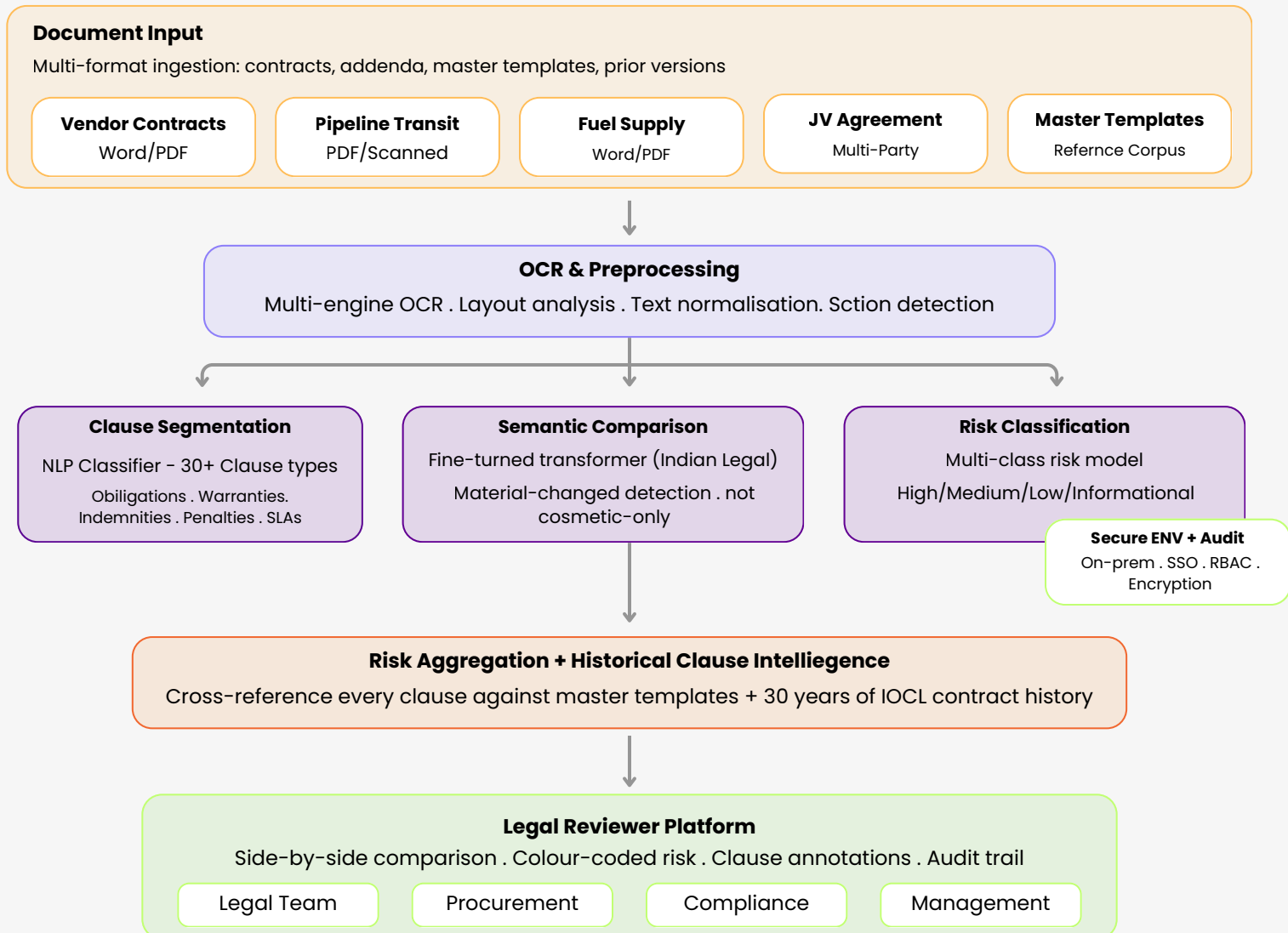
Skillmine Solution

An AI-powered legal document comparison platform designed to automate contract review, detect risks and accelerate legal workflows.



Legal Document Comparison Platform

AI-Powered Clause Segmentation, Semantic Comparison & Risk Flagging



Implementation Approach



Implementation Approach



Model Development

- Fine-tuned NLP models for clause extraction, semantic similarity and risk classification
- Built contract-type-aware models to handle diverse legal document formats



Platform Development

- Designed a legal-centric user interface for document comparison, annotations and reporting
- Enabled side-by-side comparison with clause-level insights



Validation & Testing

- Benchmarked AI outputs against manual legal review
- Ensured high accuracy in clause detection and risk identification



Production Deployment

- Implemented secure deployment within enterprise environment
- Integrated role-based access, audit trails and encryption
- Enabled scalable processing of contracts with continuous improvements

Challenges Overcome



Handling Diverse Contract Types

Improved model performance by introducing contract-type classification and specialized models for different agreement categories



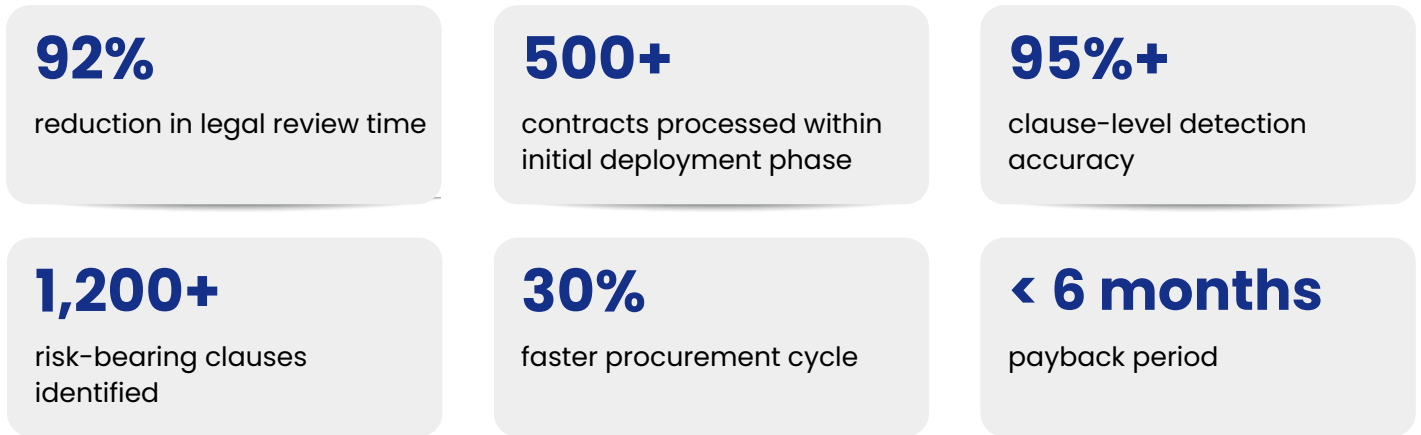
Semantic vs Literal Change Detection

Developed advanced logic to distinguish between cosmetic changes and legally impactful modifications

Business Benefits



Key Data Points



Technology Stack



Capability & Competency

- ✓ Natural Language Processing (NLP)
- ✓ Document Intelligence Platforms
- ✓ Semantic Document Analysis
- ✓ Enterprise Workflow Automation
- ✓ AI Model Development & Deployment
- ✓ Risk & Compliance Analytics

For more information
 Contact: info@skill-mine.com
 Visit us: skill-mine.com