

AI document verification

# SemantIQ.AI

**on-premise** system for strict document check

Automatically review documents: contracts, invoices, compliance documents,  
tenders and commercial proposals.

We provide **AI-powered** document verification across any domain of expertise.

# The first platform that performs document review tailored to each customer's rules

## ENGLISH DOCUMENTS WRITING

<sup>1</sup>Assoc. Prof., Peoples' Friendship University,

<sup>2</sup>Assoc. Prof., Peoples' Friendship University,

\*Corresponding Author

### Abstract

The issue is dedicated to English documents writing. The work is aimed at analyzing linguistic peculiarities of drafting legal documents. The authors have noticed that while participating at Willem C. Vis annual International Commercial Arbitration moots in Vienna, their students show some difficulties in writing memoranda. Some years ago we were not teaching legal writing. Visiting San Diego University we paid attention to special courses taught there. Now that we organized special courses teaching legal writing, in this work the authors pay attention to business documents such as contracts, legal correspondence, claims, etc., considering that rights and duties must be validated by means of documents. In view of this, judicial documents should be drafted correctly. We truly believe that teaching documents writing now, at university, is a very important issue if we want to bring up comprehensible generation of lawyers. The work lays particular emphasis on the formal business language which is referred to as officialese and differs from other types of the English language, mostly due to specific characters of the functional usage that may be featured in classical terms of style, predetermination and main characteristics.

English documents are characterized from both legal and linguistic points of view. The authors draw attention to the functional style of official language which is the defining characteristics of its key components. Official document style presupposes conditions, binding two parties in an undertaking. At the same time business correspondence syntactical pattern style is drawn to reach agreement between them. This is where the authors believe that the importance of the issue under study is in the fact that it could be put into legal practice. The work may also be beneficial for lawyer students, linguists and for all those who work in businesses, for all those who is ready for the modern business challenge.

**Keywords:** Legal writing, Functional style, Legal practice Publisher

### 1. INTRODUCTION

English documents writing has always been part and parcel of business doing. Business contracts can hardly exist without correspondence no matter, whether you conduct an interview with your partner on the phone (orally) or through telexes (in writing). All decisions, terms, rights and duties must be validated by documents. In view of this judicial documents should be drafted correctly. Particular emphasis should be laid on the formal business language.

## Wideband Gapfiller Request for Proposal RFP Draft 4.0 - 27 Mar 00

[...]

### FOR OFFICIAL USE ONLY (FOUO) UNCLASSIFIED CONTROLLED INFORMATION (UCI) Explained.

FOUO is a government generated protective marking. The Government is solely responsible for marking documents "FOUO" in accordance with the protection Guidance Matrix. The contractor is responsible for handling and protection of FOUO markings only when generated and disseminated by the Government, and is required to apply FOUO markings only when extracting FOUO information from such material. Will comply with Government protective markings e.g: (FOUO) identified in the DSCS SCG, dated April 1995 GBS SPG, and the WideBand Gapfiller System, SPG (Strawman). UCI is unclassified information that required protection for any number of reason. This category encompasses both "FOR OFFICIAL USE ONLY" (FOUO) and "Sensitive Information" (as defined in the Computer Security Act of 1987). The Government will mark all UCI information/material as 'FOR OFFICIAL USE ONLY' (FOUO). This category identifies information that is exempt from mandatory release under the provision of the Freedom of Information Act (FOIA). FOUO is not a security classification, it is protective marking /caveat. FOUO is not classified according to Executive Order, but is exempt from disclosure to the public under exemptions 2 through 9 of the FOIA. Do not consider any other markings on material FOUO. The FOUO caveat is not authorized as a form of classification to protect national security interest.

NOTE: Instructions on how the contractor should handle FOUO is provided in the below paragraph entitled, "How to Apply FOUO Marking"

### Distribution Statement:

The distribution of UCI/FOUO must be assured. To ensure the FOUO is protected

**APPROVED**

# We take YOUR verification criteria

and transform them into **Rules for the AI agent**



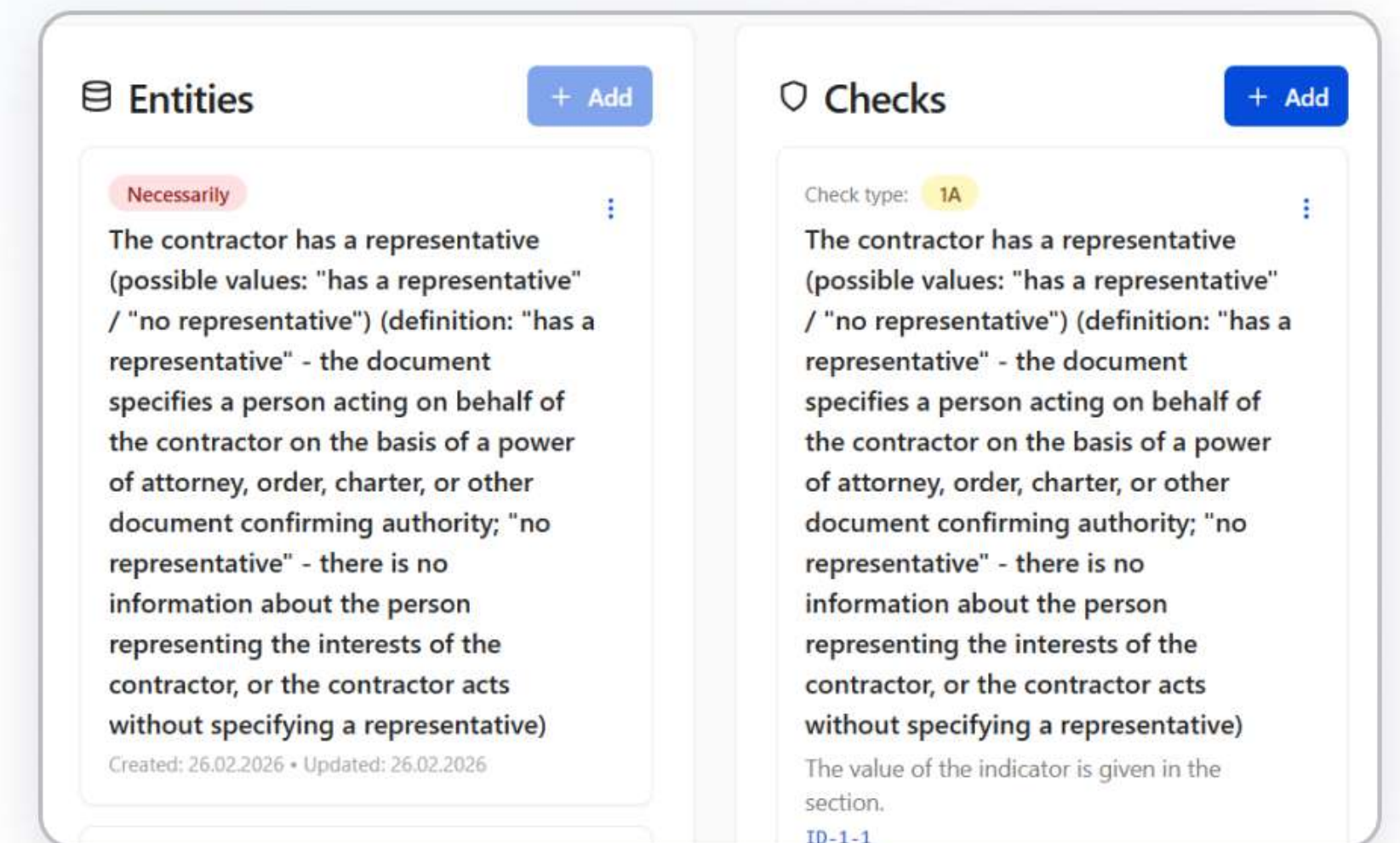
## Checklists (Playbooks)

A structured set of rules and requirements for a document/process



## SemantIQ.AI

Semantic verification core



## Verified document

Verification results, structured report

# We work at any domain

## Highlighting the non-compliant section of the document

The screenshot displays a document analysis interface. On the left is a table of contents with the following items:

- 0 Front page
- 1 Section 1. Introduction (Summary of the Prospectus)
  - 0 Section title
  - 1 1.1 General Provisions
  - 2 1.2. Information about the issuer and its activities
  - 3 1.3. Basic information about the securities for which the prospectus is registered
  - 4 1.4. Basic conditions for the placement of securities
  - 5 1.5. Main objectives of the issue and directions for the use of funds received as a result of the placement of securities
  - 6 1.6. Objectives of registering a securities prospectus
  - 7 1.7. Information on the main risks associated with the issuer and the acquisition of the issuer's securities
  - 8 1.8. Information about the persons who signed the securities prospectus
- 2 Section 2. Information on the financial and economic activities of the issuer
- 3 Section 3. Information on the persons included in the management bodies of the issuer, information on the organization of risk management, control over financial and economic activities, internal control and internal audit in the issuer, as well as information on the employees of the issuer

The main document area on the right contains the following text with red highlights:

full corporate name in Russian: Limited Liability Company " [redacted] "

abbreviated corporate name in Russian: [redacted] "

7 location of the issuer: [redacted]

issuer address: [redacted]

The Issuer's Charter contains corporate names in English:

full corporate name in English: Limited Liability Company RSG- [redacted]

abbreviated corporate name in English: LLC RSG - [redacted]

information on the method and date of establishment of the issuer: The issuer was established in accordance with the legislation of the Russian Federation and registered as a legal entity on 29.07.2010 .

Information on cases of change of the full corporate name, as well as on the reorganization of the issuer:

Cases of change of the Issuer's name: none

Cases of reorganization of the Issuer: none

Primary State Registration Number ( [redacted] ) of the issuer: [redacted]

Taxpayer Identification Number (TIN) of the issuer: [redacted]

Brief description of the financial and economic activities, open geography of the financial and economic activities of the issuer the issuer prepares and discloses (contains in the prospectus) consolidated financial statements, the specified information in the issuer's group and additionally provides a brief description indicating the total number of organizations that make up the organizations:

Limited Liability Company " [redacted] " was created with the aim of attracting external financing for the implementation of projects of the KORTIROS Group engaged in housing construction in the territory of the [redacted]

A tooltip titled "History of the name change of a non-profit organization" is visible, containing a "Necessarily" button, a "Value:" field, a "Feedback" button, and "Like" and "I don't like it" buttons.

\*Entities — significant objects of analysis identified in the text (companies, individuals, amounts, dates, obligations, events, etc.).

\*Verifications — text and content review procedures that check correctness, completeness, and compliance with specified rules and criteria.

\*Cross-checks — comparison of information across different sections or documents to identify discrepancies and logical inconsistencies.

# Core functionality

We analyze documents of any size, up to 1,000 pages (contracts, invoices, compliance documents, etc.)

---

Extract key attributes

---

Verify compliance with your criteria

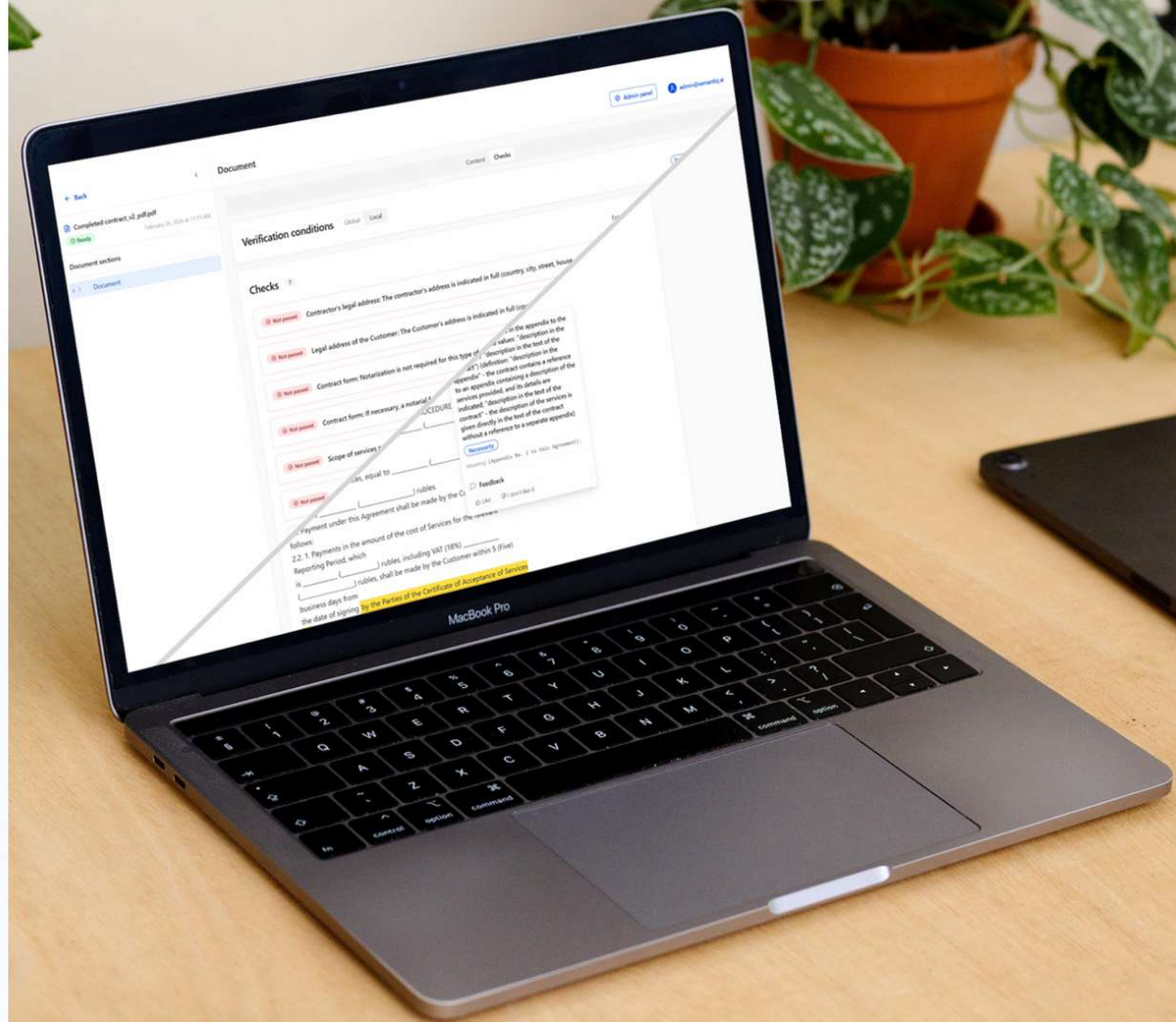
---

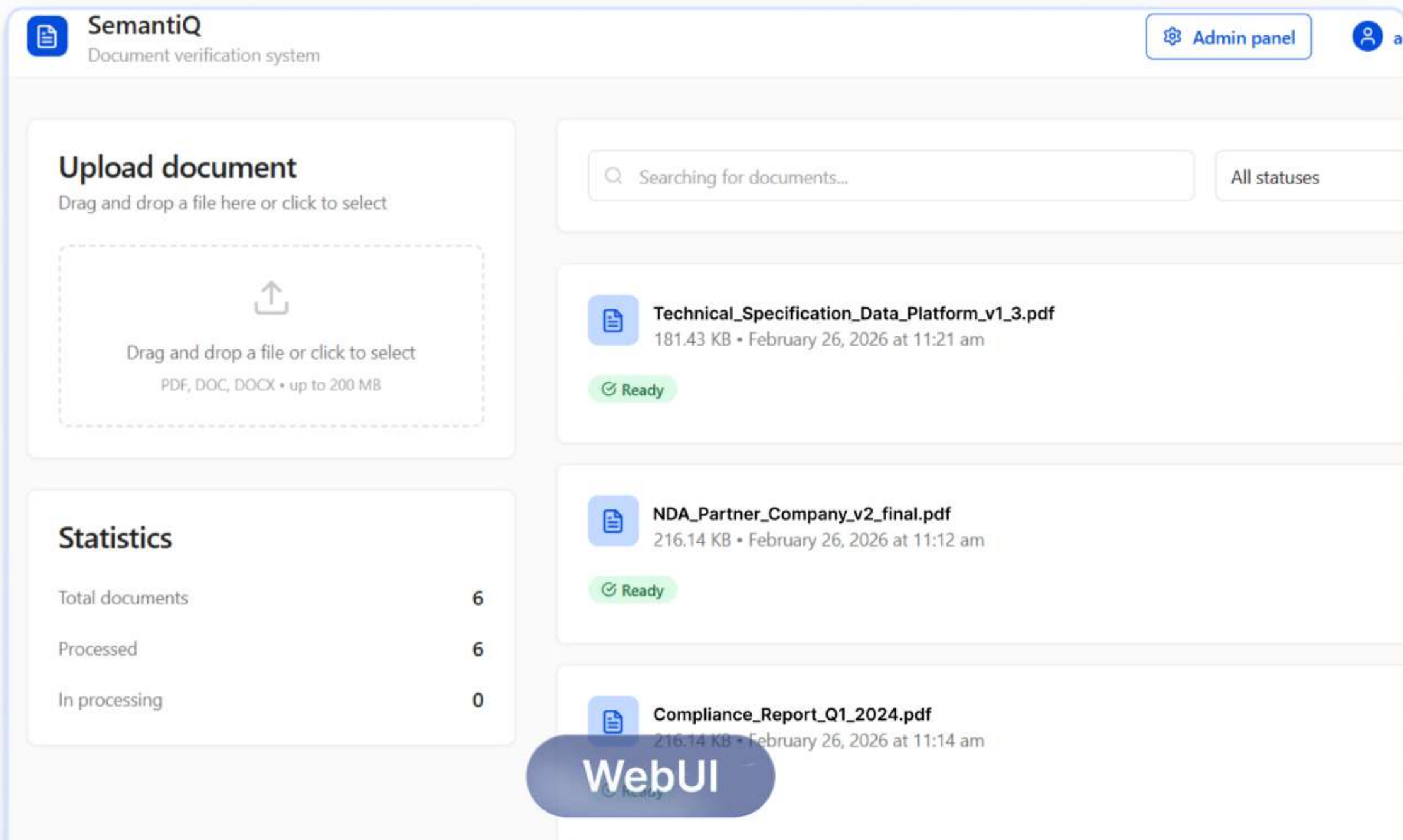
Identify inconsistencies and errors

---

Generate a structured report

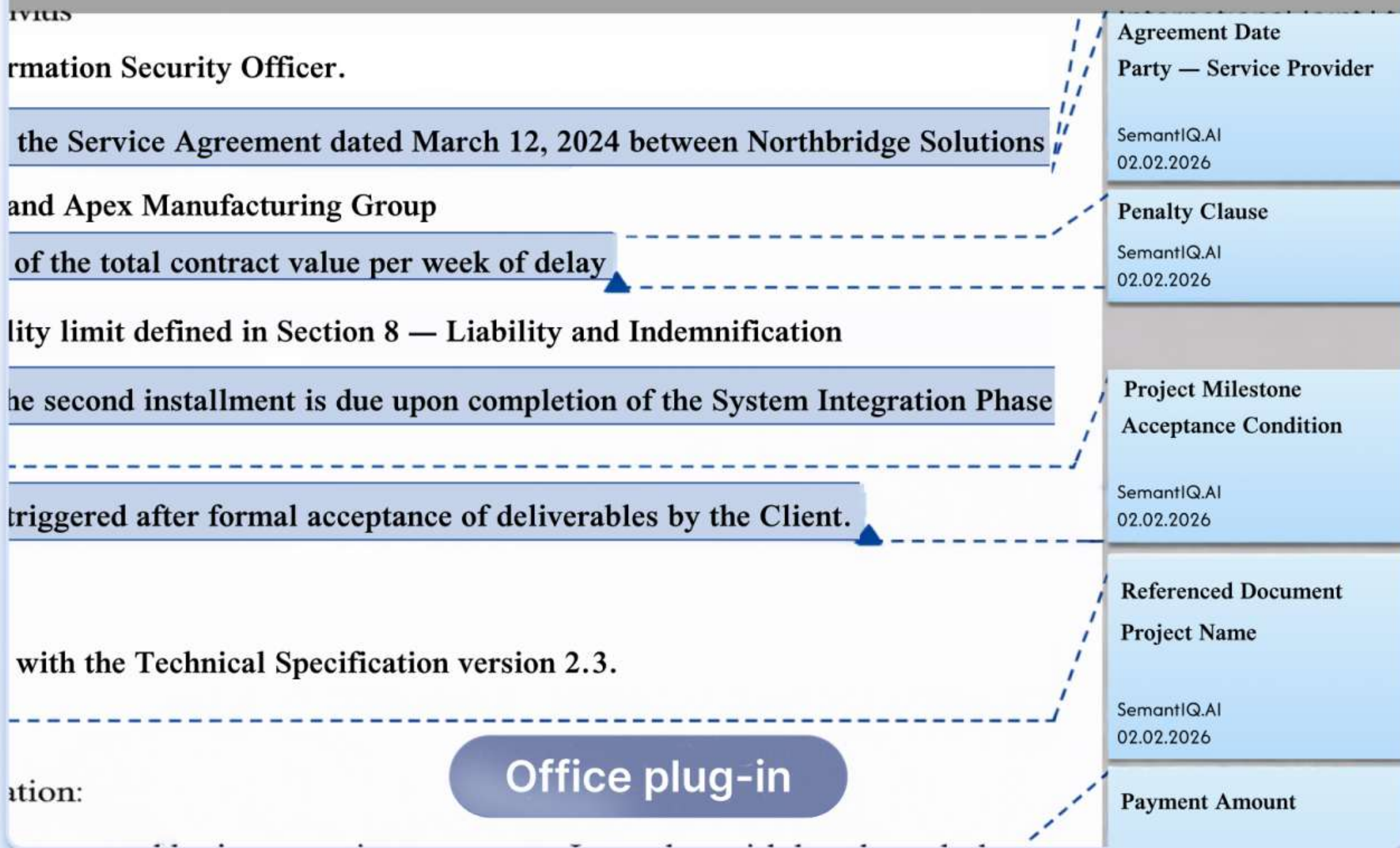
💡 We do not replace an expert, but reduce workload and accelerate processes – once you use SemantIQ.AI, you'll wonder how you worked without it.





# 3 system deployment options

WebUI / Office plug-in / Backend



**WebUI** — web interface for uploading and verifying documents via browser, with reports and analytics.

**Office plug-in** — plug-in for Office, allowing you to run checks and see redlines and collaborate directly inside the document.

**Backend** — integration via API integration into the Customer's pipeline for automatic document processing (conveyor) without user involvement.

# Structured report

- return the document to the counterparty with a specific list of discrepancies — **without manual markup**
- do not allow the document to proceed for approval until **full "hygiene" checks are passed**
- **verify document consistency** from one document to another
- **confirm the fact of verification** — the report is stored as a digital footprint

## What the report contains:

- A list of all identified discrepancies
- References to specific sections of the document
- Explanation of the verification logic (which rule triggered the finding)
- Recommendations for correction
- Summary (passed / not passed / requires attention)
- Document version and verification metadata

- **ID-1-93: Contract Form**

**Description:** Compliance with special form requirements

**Commentar:**

The text of contract requirements spec

**Recommended ac**

- Add the necess by Regulation 7 signature, seal,

- **ID-1-92: Contra**

**Description:** Contr

**Commentar:**

The text of contract the absence of this

**Recommended act**

- Add confirmati (e.g.. "The contr

- **ID-1-94: Contra**

**Description:** Nota

**Commentar:**

The text of contract type of transactio

**Recommended act**

- Add a clause sta transaction.

- **ID-1-95: Contra**

**Description:** Spec

## Contract Summary

### Final assessment

Registration (recording): not required

Overall contract status: incorrect

Reason:

- Details of the party "Limited Liability Company " **Agro** " are incomplete
- Details of the party " **Agro** " are incomplete

### Key contract information:

Contract No.: OS0925

Contract date: September 05, 2025

Category: Service agreement / work performance agreement

Contract type: Import

Amount: **10,000,000**

### Contract content:

The contract provides for the Contractor to perform services related to price schedule development, payment for the services rendered, and transfer of work results. This is a typical service/work performance agreement, not a sale and purchase, license, lease, etc.

### Failed checks:

**1. Details of the party "Limited Liability Company " **Agro** " are incomplete:**

- Missing servicing bank address (bank\_address).
- Missing bank TIN (bank\_inn).
- Missing bank KPP (bank\_kpp).

# We address hidden pains

Critical requirements often missing from the TOR that limit scalability

## Client pains

1

### Cost growth / headcount increase

**Pain:** cost-to-income is rising, payroll expenses are increasing

**SemantIQ:** we take over routine document verification

**Result:** scaling without additional hiring



2

### New requirements / regulatory changes

**Pain:** new regulations introduced → old checks “break”

**SemantIQ:** we update checklists in 1 day

**Result:** no retraining of staff / no process redesign



3

### Need an AI use case, but secure

**Pain:** AI is needed, but cloud and “chatbot for the sake of chatbot” are not allowed

**SemantIQ:** on-prem + clear control tool

**Result:** real usage, not a demo



## Why it works



### Productivity

Routine automation = more volume with the same team



### Personalized checklists

Checks are written for the customer’s domain



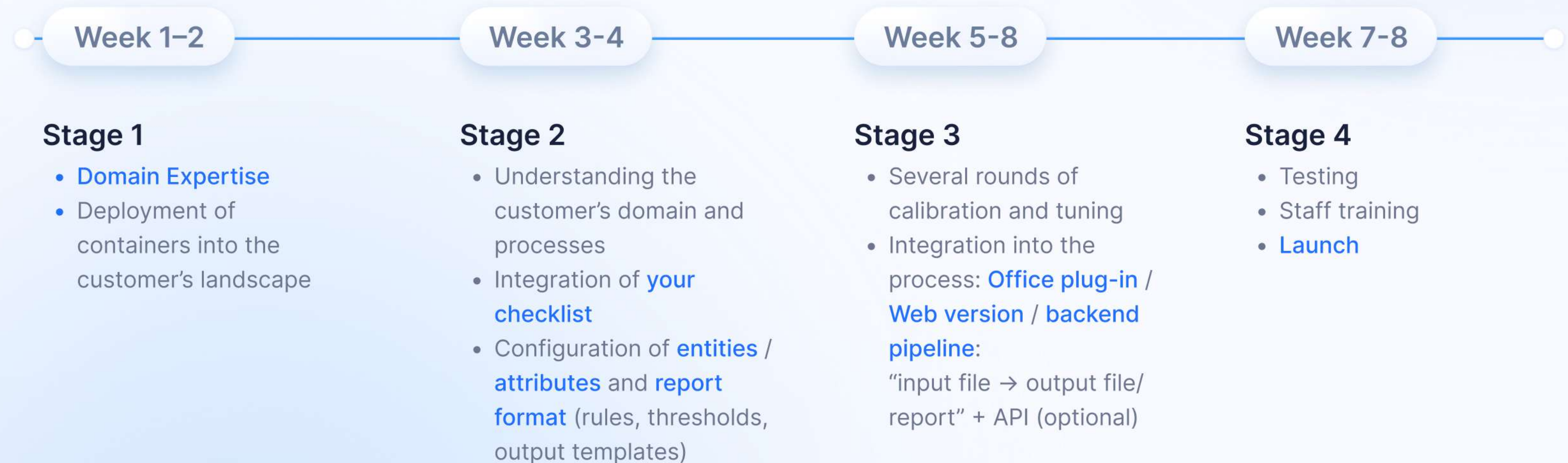
### Security

On-prem, access control, corporate perimeter

# We integrate into the Customer's landscape

Implementation duration: no more than **2 months**

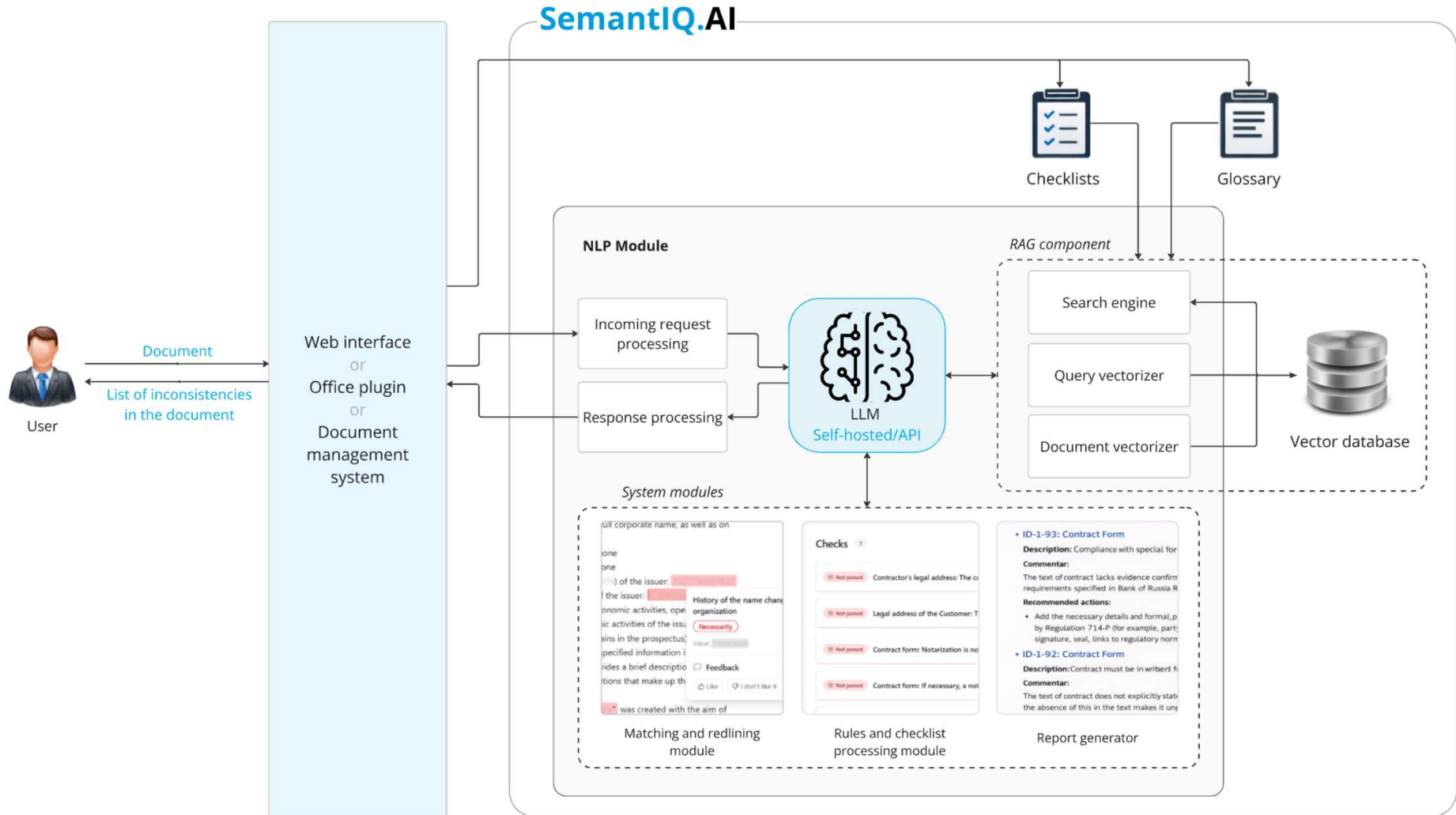
First, we run a free demo of our solution, showing how the system works and typical use cases using sample documents.



# Software Architecture

Customer Internal Environment

Software Architecture





# Let's calculate

## 1. Inputs

### Before SemantIQ implementation

Volume: 1,000 contracts / month

Time per document: 90 minutes (1.5 hours)

Specialist rate: 30 \$ / hour

### After SemantIQ implementation

Time per document: 5–10 minutes (result validation)

*In practice — control, not manual review*

## 2. Calculation

Labor costs:  $1,000 \times 1.5 \text{ h} = 1,500 \text{ hours}$

Cost:  $1,500 \times 30 \text{ \$} = 45,000 \text{ \$ / month}$

**Total:**

**540,000 \$ / year**

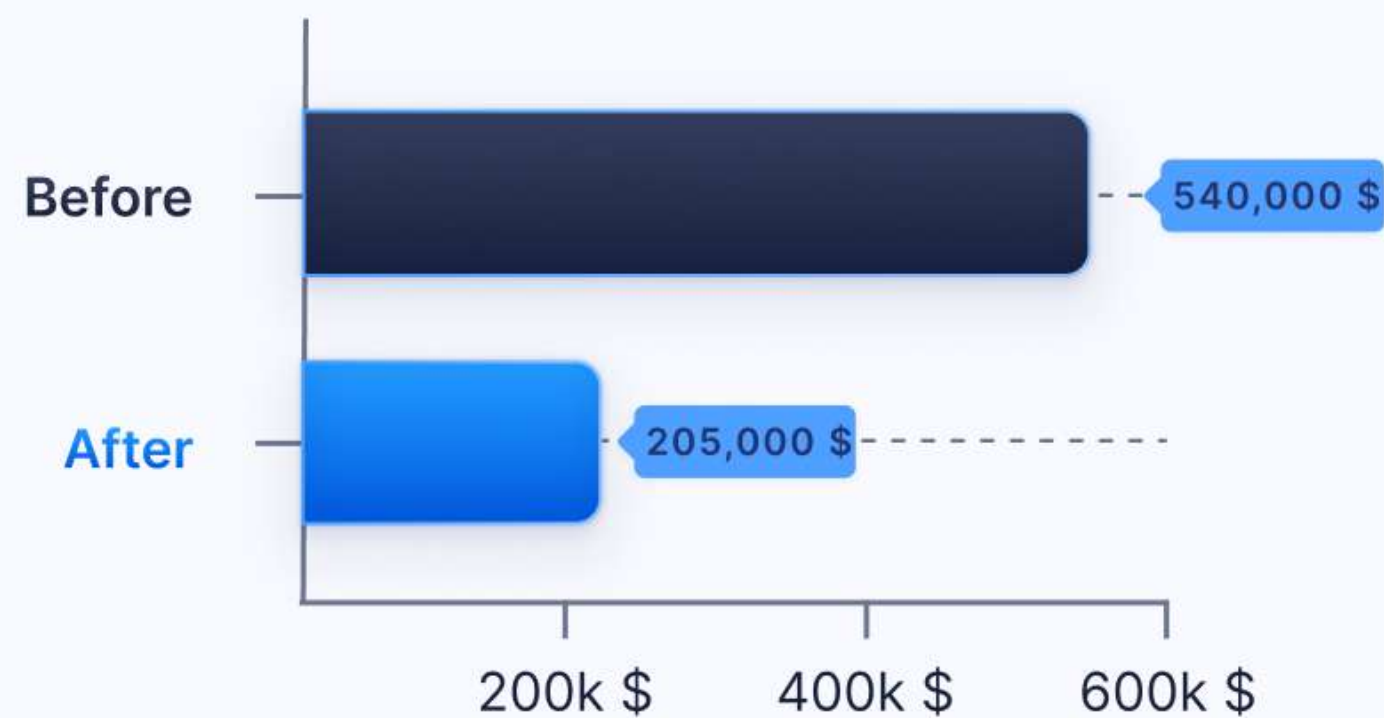
Labor costs:  $1,000 \times 10 \text{ min} = 167 \text{ h} \approx 5,000 \text{ \$ / month}$

SemantIQ license: 200,000 \$ / year

**Total:**

**~205,000 \$ / year**

## Annual expenses



## Annual expenses

Before SemantIQ implementation: 540,000 \$

After SemantIQ implementation: ~205,000 \$

SemantIQ.AI pays back in less than a year and then generates net savings

# Why us?

**ReML** is one of the leading AI Developers. We focus on fast and measurable business impact for our clients. In **2025**, more than **20 AI projects** with confirmed business results were delivered. 80% of clients launch repeat projects with us and scale the partnership.

## We understand meaning, not just keywords

We analyze the structure and semantics of text even in 300+ page documents.

## Personalization for your domain and regulations

We configure verification logic and checklists according to your requirements and processes.

We already work with contracts, invoices, compliance documents, tenders and commercial proposals.

## We integrate into your landscape workflows

On-prem deployment and work within the employee interface: Office plug-in, web interface, or backend document flow pipeline — without disrupting existing processes.

The development team consists of more than 40 specialists

80% — leading experts with top tech university background, authors of specialized AI channels and scientific publications.

## Core Team



**Yaroslav Shmulev**

CEO, founder ReML

- 9+ years of ML implementation and Data Science consulting
- Ex ML Lead at SAP
- Expertise in CV, predictive analytics, and modern AI
- Scientific publications

TG: @shmulev  
ceo@re-ml.com



**Stas Okrug**

CPO

- In AI since 2016: successful ML, CV, GenAI products
- Expertise in SOTA technologies
- MIPT graduate (with honors) and Yandex School of Data Analysis
- Lecturer at MIPT, Sber University, and DLSchool

TG: @s\_okrug  
stas@re-ml.com



**Dmitry Pirozhenko**

CTO

- 8+ years in backend development and information security
- Architecture of high-load AI systems
- Lecturer at Innopolis University in information security

TG: @dmitriypru  
dima@re-ml.com