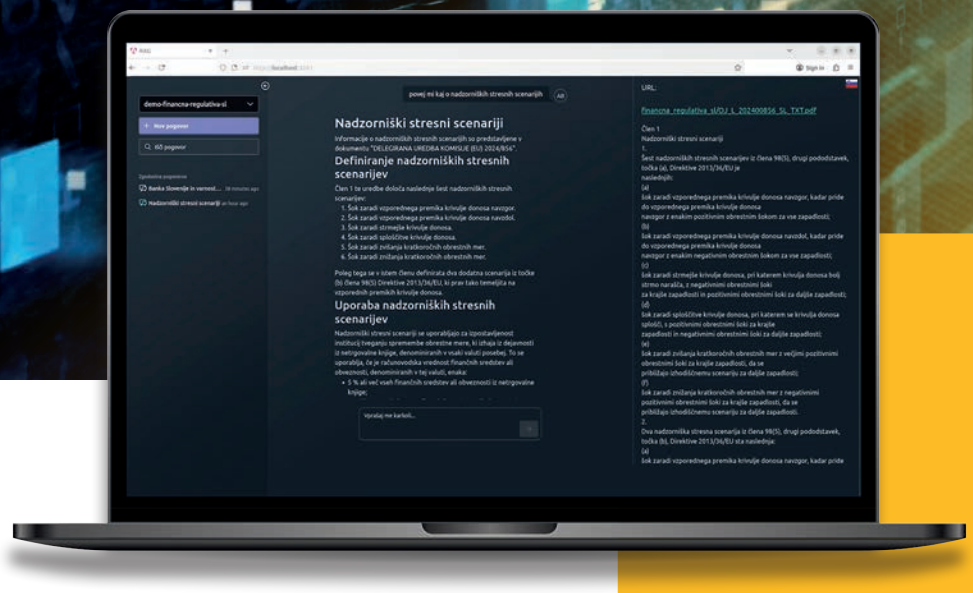
Analitica. AI.RAG

A smart RAG solution for secure and efficient search across business and technical documents



Internal information and knowledge, available instantly and enriched with the power of artificial intelligence — fast, accurate, and with no information leaving your organization.

analitica

Challenges of general-purpose AI systems

Today's public AI systems have genuinely broad capabilities for understanding and generating natural language. Even so, they have a number of shortcomings, particularly for business use:

- **outdated information:** large language models are trained on data that was available at the time of training. Without live access to the internet or current sources, they are unaware of recent events, current legislation, or changes in your business environment.
- **hallucinations:** large language models can generate highly convincing answers that are in fact incorrect or invented.
- **inaccessible internal information:** business information and domain knowledge are the gold of every organization, and are carefully protected.
- **security and ethical risk:** processing internal documentation requires adherence to internal security policies and ethical guidelines, which the use of a publicly available model cannot unconditionally guarantee.

The solution

Analitica. AI.RAG

The Analitica.AI.RAG solution (Retrieval-Augmented Generation) brings together domain knowledge, the power of a smart search engine, and the capabilities of artificial intelligence. It enables all employees to access relevant information from existing documentation and data sources quickly and efficiently, while the security and integrity of that information is maintained in line with internal security policies.

Hybrid search

The hybrid search module combines traditional and semantic search across your documentation. **It is adapted to the characteristics of local languages: it accounts for synonyms, language-specific lemmatization, and the grammatical and morphological particularities of each language**.

Generating enriched answers

Working exclusively from the information returned by the search engine, the AI composes a precise and contextually appropriate answer in natural language.



Understanding the legal, technical, and scientific structure of documents

The Analitica.AI.RAG solution enables search across **legal documents** — legislation, directives, standards, or internal policies — as well as across technical and scientific documentation.

The system recognizes legally structured components of a document (articles, sections, headings, and so on) and preserves them as a whole. This makes it possible to generate complete answers or summaries, and to create and maintain precise references to the relevant part of the document.

The same applies to technical and scientific documentation. The system recognizes the structure of technical drawings and 3D models (title block, bill of materials, item positions, assembly structure, versions, and revisions), and for scientific publications it preserves the connection between the text, charts, and tables. Answers therefore also cover content from drawings, tables, and charts.

Reliability of information

The system is configured to provide information only from the specified data sources. If there is no relevant information within those sources — or the user does not have the appropriate access rights — the system does not hallucinate and does not answer on the basis of general knowledge. **It always works only from the specified data sources**.

Data sources are updated regularly, so users always have the most current information available.

Full traceability

Every answer is substantiated and easy to verify — it comes with a **link to the source document and the precise location of the content**.

User rights and security

The solution connects to the organization's existing authorization system (for example Active Directory or Microsoft Entra).

The authorization system ensures that the search engine looks for information only in documents the user is also entitled to access in the source system. If a document is not available to the user at the source, the system will not use its content when generating an answer.

Flexibility of data sources

The Analitica.AI.RAG solution supports **a wide range of data sources and formats**, including::

- MS SharePoint, email archives; integration with other document management systems and knowledge bases is possible
- .doc(x), .pdf, .txt, .ppt(x), .html
- technical and engineering formats with their associated metadata (for example .dwg, .dxf, .step)

The solution allows data sources to be configured and multiple RAG agents to be defined, each dedicated to a specific task or department. All data is indexed automatically and updated regularly whenever source files change, with no additional burden on system administrators.

On-premise or hybrid architecture

The solution adapts to the requirements of your organization's security policy:

- **on-premise deployment** for complete control over data: the entire system, including the generative model, is installed on your own infrastructure and is therefore fully isolated from the outside world
- **hybrid mode**, in which an external API (e.g. OpenAI) is used for the generative part: this configuration is suitable for documents that are not particularly sensitive (for example laws and directives), as it does not require especially powerful infrastructure on the client side
- **cloud mode**, in which the entire infrastructure is deployed in the cloud

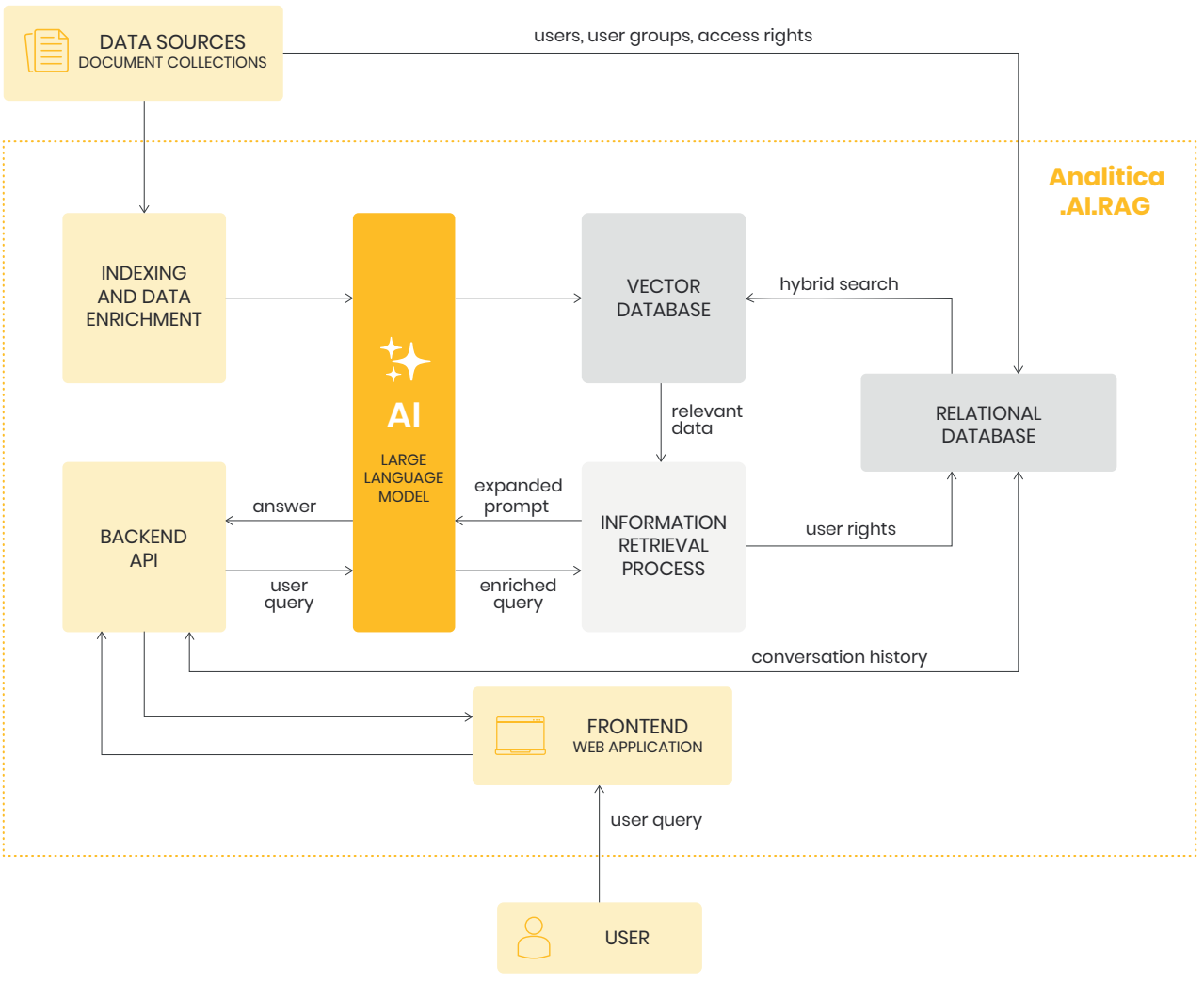
A foundation for further AI development in your organization

The solution is a key architectural component for developing additional tools:

- automated monitoring of regulatory sources for changes to the regulations referenced in your documents
- the option to adapt the solution for additional content types (multimedia data, sensor data)
- automated preparation of complex reports
- development of assistants or agents for task automation
- ...

Solution architecture — containers

The container-based architecture of the solution provides a high degree of **portability across platforms**.

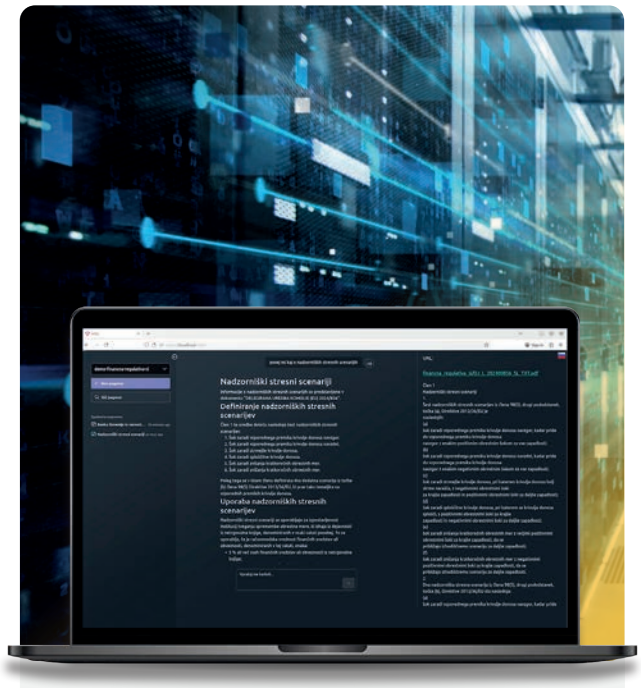


Smart support for your organization's knowledge

With the **Analitica.AI.RAG** solution, your internal documentation comes to life — information and knowledge remain within the organization, while access is fast, secure, and simple..

Key features of the solution

- **Efficient information retrieval:** data from a variety of sources is accessible from a single place, and the advanced hybrid search engine finds relevant data quickly and accurately.
- **Local language support:** the solution is built to handle the specifics of local languages, including complex grammar, morphology, and domain-specific terminology.
- **Dedicated support for the legal, technical, and scientific structure of documents — including drawings, 3D models, charts, and tables.**
- **Current and domain-specific information:** the system always works with the current version of your domain data..
- **Reliable and verifiable answers:** every answer comes with a reference to the relevant part of the source.
- **Data protection:** users only ever receive data from documents they are entitled to access in the source system. All data always remains within the organization's domain (on-premise mode).
- **Flexible integration** with existing IT infrastructure.
- A foundation for building AI tools in your organization.



Want to know more?

Test the solution on your own data.

We can prepare a demonstration of how it works on data you select.

This will give you:

- direct insight into the capabilities of the Analitica.AI.RAG solution
- an assessment of the quality of the results
- confirmation of compliance with your security policy requirements

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