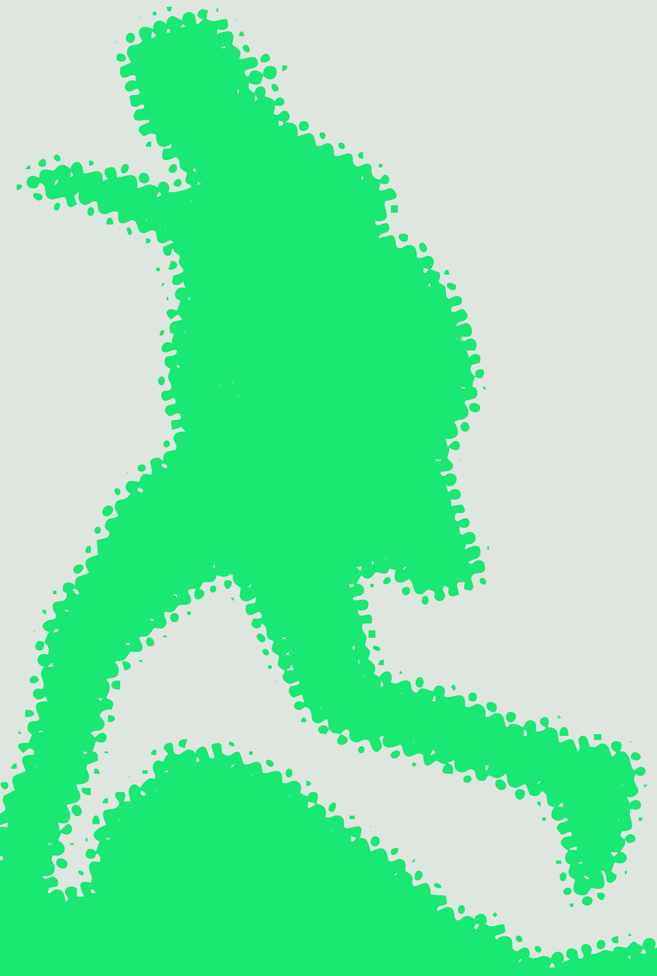
Data with meaning.
AI with trust.

# KANZO tech

KANZO TECH

# ABOUT US

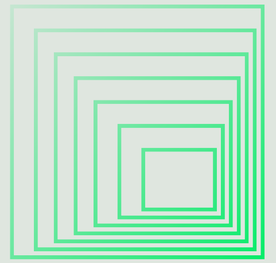
Kanzo Tech is a Spanish technology company specialising in **semantic engineering and advanced data architectures.** We help organisations turn fragmented, heterogeneous data into connected, structured knowledge that can be understood, verified and reused across systems and applications. By combining semantic technologies, knowledge graphs and open standards, we make it possible to connect information that would otherwise remain isolated, uncover relationships across data sources and support better-informed decisions. Our approach provides a traceable and reusable knowledge foundation for AI models and agents, helping them access relevant context and ground their outputs in identifiable sources



# KEY COMPETENCIES

1

**Knowledge Infrastructure and Knowledge Graphs**
We connect **heterogeneous data sources** (including databases, files and APIs) while preserving their meaning, context and provenance, without requiring centralisation in proprietary platforms. Using semantic technologies and knowledge graphs, we build **structured, interoperable representations of information** that connect data across different sources, reduce ambiguity and make it easier to integrate and reuse.



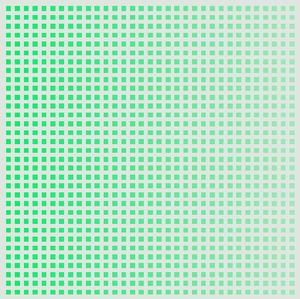
2

**Context for More Accurate and Reliable AI**
We provide the **semantic structure and knowledge context** that language models and AI agents need to access relevant information, understand relationships and better ground their responses and decisions in evidence. This helps build **more accurate, verifiable and explainable AI systems,** reducing the risk of inconsistent or unsupported outputs and increasing confidence in their use.



3

**Governance, Traceability and Compliance**
We integrate **traceability mechanisms, validation rules and quality controls** into knowledge management processes. Using semantic models and machine-checkable constraints, we help organisations assess whether their data meets defined requirements, identify inconsistencies and generate supporting evidence for **governance, auditing and regulatory compliance.**



4

**Digital Sovereignty and Open Standards**

We develop solutions based on **open, vendor-neutral standards,** particularly W3C standards such as RDF, OWL, SHACL and SPARQL. This approach supports interoperability, portability and knowledge reuse, reduces reliance on proprietary technologies, and helps organisations **retain control over their data and knowledge infrastructure.**



5

**Engagement in the European Data Ecosystem**

We actively collaborate with **leading European initiatives and networks, i**ncluding **W3C, Gaia-X, IDSA and FIWARE.** Through our involvement in these communities, we contribute to the development and adoption of open standards and interoperable architectures, supporting data sharing and governance, as well as their integration into knowledge-based and AI systems.



KEASY

# WHAT IS KEASY?

KEASY is Kanzo's technology platform for transforming heterogeneous data into structured, interoperable, high-quality knowledge using semantic technologies and knowledge graphs.

The platform integrates information from different sources, validates it against defined models and rules, automates selected metadata cataloguing tasks, and enables knowledge exploration and reuse through semantic queries and services.

By connecting data from different sources while preserving its meaning, KEASY provides a **reusable knowledge infrastructure** for analytics, AI systems and data-sharing environments.

# HOW IT WORKS

KEASY is organised into **functional modules that can be used independently or combined into end-to-end pipelines,** depending on the needs of each use case. This modular architecture allows its capabilities to be integrated into existing systems and workflows, from data connection and transformation to the construction, validation and use of knowledge graphs.

# MAIN FUNCTIONAL MODULES

1

**Data Connection and Semantic Modelling** KEASY connects to common data sources and formats, including CSV, JSON, SQL databases and APIs, without requiring changes to the original data. Using **ontologies, vocabularies and other shared semantic resources,** it helps align data with common knowledge models while preserving its meaning, context and provenance. This makes it possible to connect information from different sources and reduce ambiguities arising from differences in data structures and terminology

2

**Data Transformation and Quality Control**
KEASY uses **typed semantic mappings** to transform heterogeneous data into structured representations, including RDF knowledge graphs. This approach helps identify certain errors in mapping definitions before execution. The platform also provides validation mechanisms based on standards such as **SHACL and ShEx,** allowing data to be checked against defined models and constraints, inconsistencies to be identified, and validation reports to be generated. These capabilities can be applied both to knowledge graphs created with KEASY and to other RDF datasets.

3

**Semantic Resource and Metadata Management**
KEASY supports the **organisation, management and reuse of vocabularies, ontologies and other semantic resources** that help interpret and connect information consistently. These resources provide a shared foundation for data modelling, transformation and validation. The platform also enables datasets to be described and documented using **standardised metadata,** including specifications such as DCAT-AP where relevant. This makes information easier to discover, catalogue and reuse, while supporting its integration into interoperable data ecosystems.

4

**Knowledge Exploration**
KEASY enables access to structured knowledge through **SPARQL queries, semantic services and integration interfaces.** These capabilities allow users and applications to explore entities and relationships within knowledge graphs, retrieve contextualised information and make it available to other systems. The resulting knowledge can support **AI systems, analytics applications and decision-support tools,** providing structured, traceable and verifiable information. In data-sharing scenarios, KEASY also helps prepare data and metadata for publication in catalogues and interoperable data spaces.

# WHO IS KEASY FOR?

KEASY is designed for organisations that want to make better use of the information they already generate and manage, particularly when it is spread across different systems, uses different structures or terminology, or is difficult to connect and reuse. It can be applied across sectors including public administration, healthcare, industry, energy, construction and sustainability. KEASY is particularly valuable for organisations looking to:

- **Connect fragmented information across systems and data sources,** overcoming differences in formats, structures and terminology.
- **Bring together data that is currently analysed in isolation,** gaining a more complete view of their operations, resources and activities, and uncovering relationships that are not apparent in the original systems.
- **Improve data reliability and support assessment and regulatory compliance,** identifying inconsistencies, checking data against technical and regulatory requirements, and providing traceability and supporting evidence for assessments.
- **Develop applications powered by AI models and agents that draw on organisational knowledge,** giving them access to contextualised information and identifiable sources to better ground their outputs and actions.
- **Share and reuse information across teams, applications and organisations,** reducing integration efforts and avoiding the need to repeatedly interpret and prepare the same data for each new project.

# KEY BENEFITS

1

**Unlocking more value from existing data.** Connects information from different sources, revealing relationships and insights that would otherwise remain hidden.

2

**Shared and reusable knowledge.** Enables systems, teams and applications to interpret and reuse information consistently.

3

**Verifiable and traceable information.** Helps identify inconsistencies, check requirements and provide evidence for assessments, audits and regulatory compliance.

4

**A knowledge foundation for AI.** Gives AI models and agents access to contextualised information, relationships and identifiable sources to better ground their outputs.

5

**Flexible integration and adoption.** Allows organisations to combine modules according to their needs, using open standards to support integration with other systems.

Mail → info@kanzo.tech
Web → kanzo.tech
Linkedin → Kanzo

Data with meaning.
AI with trust.

# KANZO tech