

Ask public-investment data in plain language

AIDA- Intelligent Data & Analysis Assistant – boosts Generative Business Intelligence through an interpretive layer over established public-investment monitoring tools.

THE PROBLEM

Data is available. Meaning is fragmented.

Public-investment monitoring requires users to move across portals, reports, dashboards and data structures. Finding the right answer can require technical knowledge and repeated manual analysis.

THE IDEA

Add a semantic AI layer

AIDA complements traditional BI with natural-language querying and automatic synthesis, making information easier to access and interpret without replacing existing reporting mechanisms.

From question to decision-ready answer



ASK



UNDERSTAND



QUERY



EXPLAIN

The goal is a simpler interface to complex public-administration data: understand users' intent, resolve ambiguity, retrieve the relevant evidence and return reports, tables and analysis.

Translate PA complexity into simple answers

The project focuses on high-value GenBI use cases for monitoring public investments, combining conversational access with the reliability of established BI.

01 / CHECK

Understand the question

The assistant interprets what the user is actually asking rather than relying only on literal keywords.

02 / SEARCH

Find the evidence

A semantic layer helps connect the question with the relevant data, concepts and monitoring structures.

03 / CLARIFY

Correct ambiguity

When the request is underspecified, the interaction can guide the user toward a more precise analytical question.

A typical interaction



From data sources to knowledge springs

AIDA goes beyond data queries, combining structured data and contextual knowledge to explain concepts, clarify differences and deliver actionable insights. Its multi-agent architecture retrieves information from multiple sources and brings it together into one coherent answer.

Natural language on top of structured analytics

The project work combines conventional BI, a shared semantic layer and generative AI to improve accessibility and decision support while preserving structured data logic.

NATURAL LANGUAGE

Human question

Users formulate analytical needs in everyday language.

SEMANTIC LAYER

Meaning + ontology

Shared concepts connect user intent with the structure and semantics of public-investment data.

QUERY LAYER

SQL / Cypher

Structured queries retrieve evidence from analytical and graph-oriented data representations.

GENBI OUTPUT

Synthesis + evidence

The assistant returns explanations together with reports, tables and analyses.

PROJECT WORK DELIVERABLE

The work includes analysis of the current data model, definition of a shared semantic layer, design of high-value GenBI use cases and development of an integrated prototype.

Make public-investment intelligence easier to reach

AIDA targets the gap between technically available data and the ability of decision-makers or analysts to retrieve, understand and communicate the information they need.

ACCESSIBILITY

Lower the query barrier

Natural-language interaction can make analytical exploration more approachable for users who do not work directly with SQL, Cypher or complex data models.

EFFICIENCY

Reduce navigation time

The system is designed to reduce time spent moving between portals, reports and systems while searching for the same analytical answer.

DECISIONS

Connect data to meaning

Automatic synthesis can help turn retrieved evidence into a clearer interpretation for monitoring and decision-support workflows.

AI Governance & Efficiency

GDPR-ready, secure by design: data stays within the organization's controlled environment, minimizing external exposure and preserving full governance over sensitive information.

Right-Sized AI: instead of relying on costly frontier models for every interaction, AIDA can use smaller specialized models to reduce token and inference costs. The PoC demonstrated that the semantic layer reduces token usage by approximately 50% when processing an executable query.

Project context & sources

Project Work: GenBI for Public Investment Monitoring – Semantic integration model between traditional BI and generative AI. DIGITA – Digital Transformation and Industry Innovation Academy, 2025–26.
Developed at Logogramma in collaboration with PA Advice.

Partner

Digita Academy
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