

DATUETAN

DATUETAN-IA: The evolution of AI in Industry, data, and people.

PROJECT DESCRIPTION– ZE-2023/00025

DATUETAN-IA is a project aimed at promoting the adoption of **artificial intelligence (AI)** in **industry** through an innovative approach focused on **data quality** and the **active participation of people**. It stems from a common reality in the sector: the difficulty in having reliable and representative data, the shortage of specialized technical personnel, and the challenges of integrating **AI solutions** into real industrial processes.

Instead of focusing solely on large volumes of data, **DATUETAN-IA** aims to improve the **quality, traceability, and usefulness** of data. This is complemented by the integration of **human expert knowledge** throughout the system's life cycle, which enhances the understanding, trust, and effectiveness of the models. This approach, known as **Human-in-the-Loop**, allows operators to **supervise and validate the models**, intervening when necessary to ensure their reliability.

The project develops technologies to **automate data processing, detect drift and errors, generate synthetic data, and facilitate continuous model retraining**. **User-centered interfaces** are also designed, promoting clear and accessible interaction with **AI systems** for industrial users.

DATUETAN-IA is validated through real use cases in companies such as **SIDENOR** and **TUBACEX**, applying its solutions to processes such as **turning, continuous casting, predictive maintenance, and energy performance improvement**. These applications make it possible to **reduce product rejections, optimize energy consumption, and increase the sustainability** of industrial processes.

In addition to technological development, the project has a strong **training component**: it promotes the **upskilling of new professional profiles** and fosters a culture of **AI** that is more **transparent, understandable, and applicable to the real needs** of the industry.

CONSORTIUM

Coordinator:

- SISTEPLANT S.L.

Partners:

- ACERÍA DE ÁLAVA S.A.
- TUBACEX TUBOS INOXIDABLES S.A.
- TUBACEX SERVICIOS DE GESTIÓN S.L.
- SIDENOR S.L.
- IBERMATICA S.A.
- SEGULA TECHNOLOGIES S.A.U

Agents of the Basque Network of Science, Technology and Innovation (RVCTI):

- INSTITUTO IBERMATICA DE INNOVACION S.L.
- SIDENOR INVESTIGACIÓN Y DESARROLLO S.A.
- TECNALIA RESEARCH & INNOVATION

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- Duration: 2023 – 2025

