# HUB TECH IA

**AI and IAGEN Application Use Case**

**Generative Artificial Intelligence (IAGEN) for construction and installation - Logistics support - Report and response generation frequent**

**Classification of deliverable report 17: "Generative Artificial Intelligence (IAGEN)" for construction and installation - Logistic support - Generation of reports and Frequently asked questions in Vaca Muerta:**

Classification 1: By Main Resource

- Selected option:                Oil and ÿ Gas (main), Water + energy (secondary).
- Justification:

  The report mainly addresses logistical support, report generation and operational management oriented to activities related to the extraction and production of oil and gas. It also considers water and energy as important secondary resources, especially highlighting optimizing water use in critical processes such as fracking.

Classification 2: By Activity within Vaca Muerta

- Selected option: Information Management and Decision Making
- Justification:

  The central focus of the report is the intelligent automation of generation operational, logistical, environmental and financial reports, as well as the Logistics support through prediction and optimization based on analysis advanced. In addition, it includes automated systems to respond

frequently asked questions, significantly facilitating operational management and strategic decision-making.

Classification 3: Type of AI Technology Used

• Main selected option:

1ÿÿGenerative AI Models,

2ÿÿMachine Learning Algorithms,

3ÿÿNatural Language Processing (NLP) Systems, 6ÿÿAI

Platforms for Data Integration and Big Data.

• Justification:

The report specifically details the use of IAGEN (as GPT-4

Turbo) for the automated generation of accurate reports and dynamic responses

to frequently asked questions, integrating processing capabilities

advanced natural language. It also clearly mentions the

implementation of advanced predictive algorithms for logistics and

predictive maintenance, as well as the integration of operational data in

real-time through IoT sensors and Big Data platforms for analysis

deep and predictive.

Classification 4: By Strategic Impact on the Industry

• Selected option: Strategic Decision Making and Data Analysis

• Justification:

The report particularly emphasizes the strategic importance of generation

automated detailed and timely reports that facilitate decisions

informed in critical aspects such as production, logistics, security,

environmental sustainability, and finance. Concrete benefits are highlighted in

reduction in operating costs (20-30%), significant increase in

operational safety and a significant reduction in operational errors, all essential

elements for effective strategic decision-making.