Repsol AI agents with Accenture

IMPLEMENTED 2025 · ENERGY AND UTILITIES · SPAIN · BAND D · CLAIMED ONLY
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A multi-energy company built a platform for teams of AI agents with Accenture and piloted it in its digitalisation and services division, with unquantified efficiencies reported.

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NOTICE WORDING LAST UPDATED 16 NOVEMBER 2026

AT A GLANCE

AI used: AI agents and generative AI: a multi-agent platform built with Accenture AI Refinery and the NVIDIA AI platform.

Implemented: 2025. Grade: band D, Task support, Claimed only.

Headline result, as reported: Repsol says a pilot of AI agent teams, supervised by more than 50 staff, brought numerous efficiencies; no figures published

1 · The case

The facts, as reported by the 4 sources listed at the end. Where a source is silent, the field says "Not reported".

Organisation

Repsol. Spanish multi-energy company with a global presence. Repsol describes a Digital Program of more than six years and a Generative AI Competence Center set up more than two years before October 2025. Canvas block: 4. Operations and process. Also 5. People and skills.

Business challenge

The challenge. Repsol said it wanted to apply generative AI across its businesses and move from individual tools to AI agents that could streamline processes such as planning and forecasting, application maintenance and incident resolution. It also stated aims of efficiency, decarbonisation and new ways of working.

How it was addressed. In February 2025 Repsol extended its collaboration with Accenture to

Who implemented it

Accenture (Systems integrator): Co-developed the agents and the multi-agent platform pilot with Repsol and is to run training and adoption programmes.
NVIDIA (Software vendor): Supplies the NVIDIA AI platform on which the agents are built.
In-house (In-house): Repsol: Built its own agent-construction platform and Generative AI Competence Center.

Technology (SEAM pillar E)

SEAM types: T4 RAG / vector search over your own data, T7 AI agents. Deployment: Not reported. Vendors and products: Accenture, NVIDIA, Accenture AI Refinery, NVIDIA AI Enterprise.

Where it was built in: Repsol's own agent-construction platform, piloted in its Digitalisation and Services division; the February 2025 plan covers planning, forecasting, application maintenance and incident resolution.

What changed

Before: Repsol's February 2025 announcement set out a plan to introduce agents. After: by Repsol's account in October 2025, three teams with more than 20 AI agents had supported processes in its Digitalisation and Services division for more than four months, and more than 50 people were supervising agent teams, achieving numerous efficiencies and improvements. Measured results: Not reported. [1] [2] [3] [4]

What it cost

Not reported

What it saved

Not reported. Repsol says only that the pilot achieved numerous efficiencies and improvements; no hours, costs or percentages are published. [1] [2] [3] [4]

Governance and control

Repsol says people supervise the agent teams. Accountable owner, testing, monitoring, limits on what agents may do and applicable standards: Not reported.

S2 · Accountable owner · Not reported
Not reported.

A1 · Safe use · Not reported
Not reported.

A2 · Human in the loop · Claimed
Repsol says more than 50 people supervise teams of AI agents. [3]

A3 · Monitoring and assurance · Not reported
Not reported.

A4 · Vendor AI · Claimed
The agents are built on components of Accenture's AI Refinery and the NVIDIA AI platform; vendor controls are not reported. [1]

A5 · Agent controls · Claimed
Agent teams are supervised by staff, by Repsol's account; limits on what agents may do are not reported. [3]

A6 · Standards and regulation · Not reported
Not reported.

What worked, what did not, what is unproven

WORKED

– By Repsol's account, the pilot achieved numerous efficiencies and improvements. No figures are published.

DID NOT

– Not reported

UNPROVEN

– Time, cost or quality effects of the agent teams.

– Whether the pilot was extended beyond the Digitalisation and Services division.

– The February 2025 plan for planning, forecasting, application maintenance and incident resolution, and for digital twins and robotics: no outcomes reported.

Timeline

Feb 2025 Repsol and Accenture announce an extended collaboration to build and deploy customised AI agents using Accenture AI Refinery and the NVIDIA AI platform [1]

Oct 2025 Repsol announces its own multi-agent platform, a pilot developed with Accenture, tested in its Digitalisation and Services division for more than four months [3]

2 · Grade and SEAM assessment

MarLuc's opinion, made on the evidence above. How cases are graded: marluc.co.uk/case-studies/how-we-rate

Level of change and impact

Claimed: Not applicable. Grade: D, Task support. Proof: Claimed only. Level of change: Task support.

Task support (Level 1, band D). Repsol describes agent teams supervised by staff in one division, but publishes no evidence of a redesigned process or a changed cost base.

Graded D. Repsol reports efficiencies from a pilot in one division but publishes no measures, and no source shows a changed process or cost line. Marked claimed only because every source repeats Repsol's own account.

The SEAM view and lessons learnt

The transferable idea is to pair a platform for agent teams with named human supervisors and to start in one division. Repsol reports that more than 50 people supervise the agents, which suggests supervision was designed in. The sources give no measure of what the agents delivered, so a larger organisation could not yet judge the return from this account alone.

2. Name who supervises each agent team and what they check.
3. Report time, cost and quality results, not only that efficiencies occurred.

Evidence

Score 1 of 4. Self-reported: Repsol and Accenture announcements, repeated by trade press; no independent evaluation.

Evaluation method. Self-reported company figures: company and partner announcements, partly relayed by trade press; no evaluation of results.

Sources disagree. Repsol's Spanish release says more than 20 agents; Hydrocarbon Engineering says 22. Repsol's February release says the Digital Program began more than six years earlier and the October release says more than seven years.

Status. Ongoing: the October 2025 platform was described as a pilot; no later results found.

3 · Original sources

Read these in full. To challenge a fact or a grade, use the contact form at marluc.co.uk or the link on https://marluc.co.uk/case-studies/repsol-accenture-ai-agents

[1] Repsol: Repsol boosts its digital strategy through collaboration with Accenture to adopt AI agents (press release, 6 February 2025)
https://www.repsol.com/en/press-room/press-releases/2025/repsol-boosts-strategy-collaboration-accenture/index.cshtml

[2] Accenture: Repsol Boosts its Digital Strategy by Collaborating with Accenture to Adopt AI Agents (6 February 2025)
https://newsroom.accenture.com/news/2025/repsol-boosts-its-digital-strategy-by-collaborating-with-accenture-to-adopt-ai-agents

[3] Repsol: Repsol lanza su plataforma de multiagentes de IA (press release, 15 October 2025)
https://www.repsol.com/content/dam/repsol-corporate/es/sala-de-prensa/documentos-notas-de-prensa/2025/np15102025-repsol-lanza-plataforma-multiagentes-ia-se-consolida-referente-mundial-sector-energetico.pdf

[4] Hydrocarbon Engineering: Repsol launches intelligent multi-agent platform (20 October 2025)
https://www.hydrocarbonengineering.com/refining/20102025/repsol-launches-intelligent-multi-agent-platform

Repsol website: https://www.repsol.com

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