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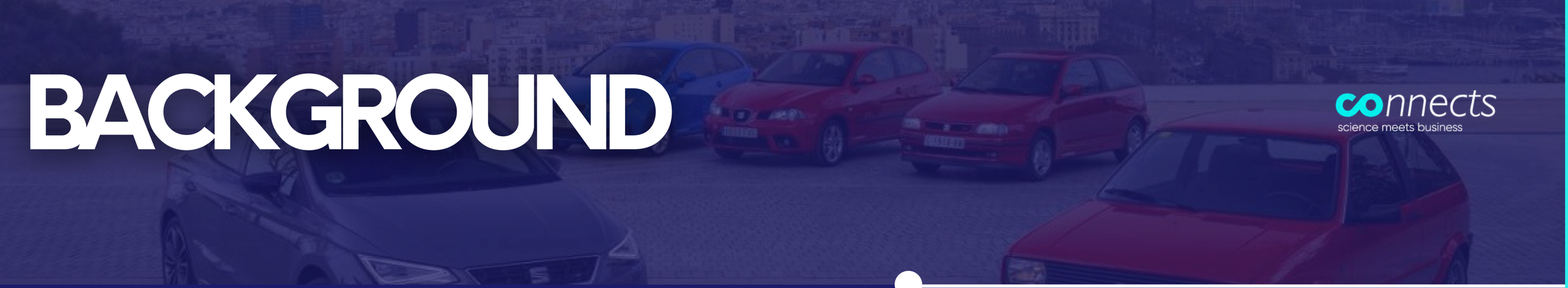
Barcelona Supercomputing Center
Centro Nacional de Supercomputación

Challenges proposed by

Aina

Generalitat de Catalunya

BACKGROUND



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SEAT

SEAT, S.A. is Spain's only automotive company with fully integrated capabilities spanning vehicle design, development, manufacturing, and commercialization. Established in 1950 and a member of the Volkswagen Group, the company is headquartered in Martorell, Barcelona, and markets its vehicles under the SEAT and CUPRA brands. SEAT, S.A. exports more than 80% of its production and maintains a commercial presence in over 70 countries across five continents.

AREAS OF INTEREST

ARTIFICIAL INTELLIGENCE

DATA & ANALYTICS

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CHALLENGE 1

How might we use AI to anticipate delivery risks across a complex IT demand portfolio before delays occur?

TITLE Predictive IT Demand & Delivery Intelligence

DESCRIPTION Relevant information is distributed across work–management tools, project documentation and operational records. The proposed solution should combine these heterogeneous signals to:

- predict schedule, dependency and delivery risks;
- identify recurrent bottlenecks and root–cause patterns;
- highlight workload, coordination or handover constraints;
- recommend preventive actions with confidence indicators;
- provide explainable, role–based insights for teams and management;
- demonstrate measurable improvement versus reactive monitoring; and
- ensure responsible data handling and human oversight.

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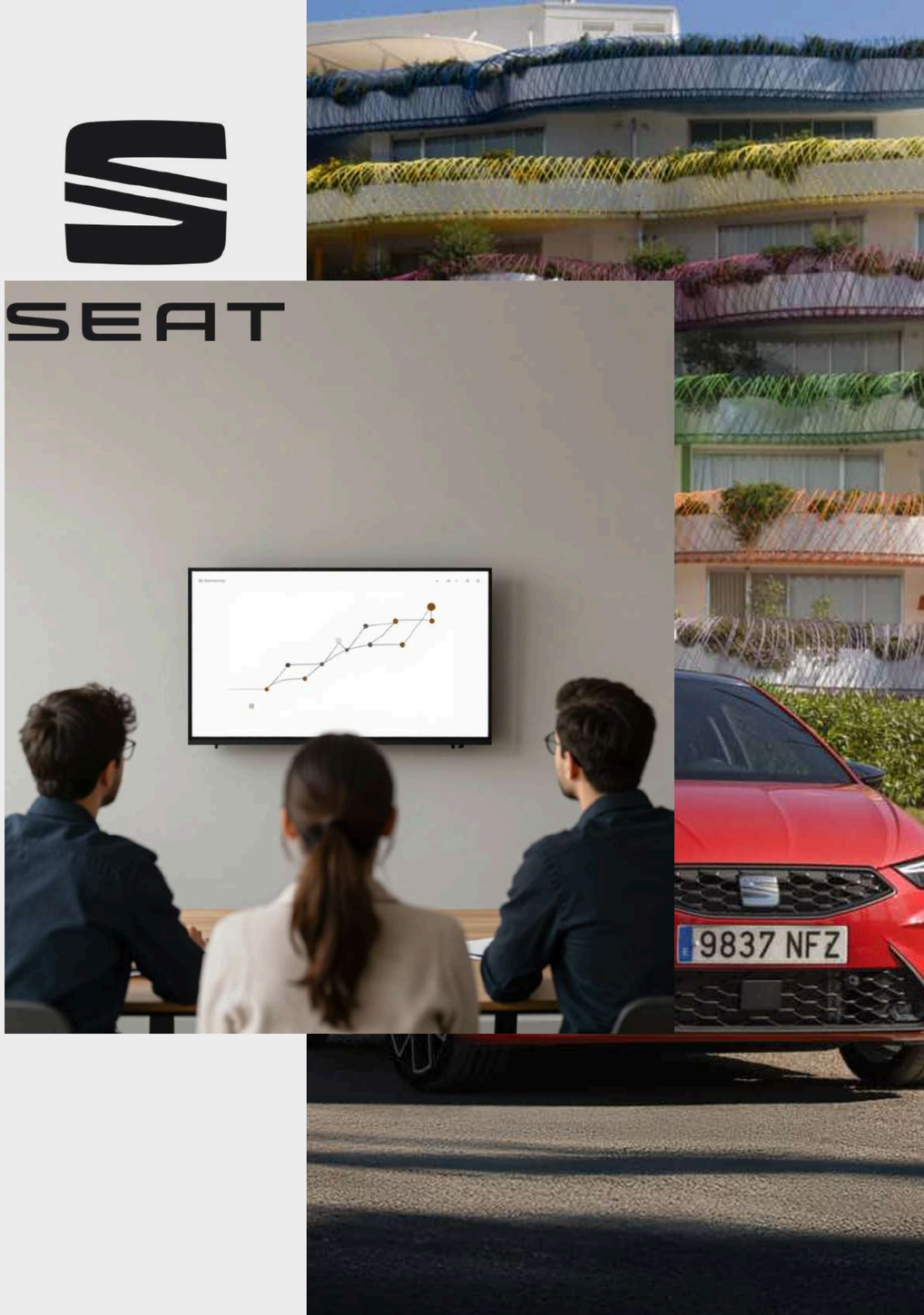
CHALLENGE 1

OBJECTIVE

The solution should be scalable, complement existing ways of working rather than replace core systems, and
enable questions such as: “Which initiatives are most at risk, and why?”/“What action could reduce that risk now?”

KEY WORDS

AI · predictive analytics · process mining · Jira · decision support



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CHALLENGE 2

How might we use historical incident data to anticipate major failures and recommend preventive action?

TITLE Predictive Incident Intelligence & Prevention

DESCRIPTION

The solution should analyse incident records, resolution histories and system criticality to:

- identify recurring patterns and early–warning signals;
- predict high–impact or recurrent incidents before they occur;
- prioritise recommended action plans according to system criticality and risk class;
- identify likely root causes and effective resolution paths;
- detect inefficiencies in incident handling, including tickets repeatedly reassigned between support groups;
- recommend improvements to routing, ownership and escalation;
- provide clear, explainable insights for operational teams and decision makers.

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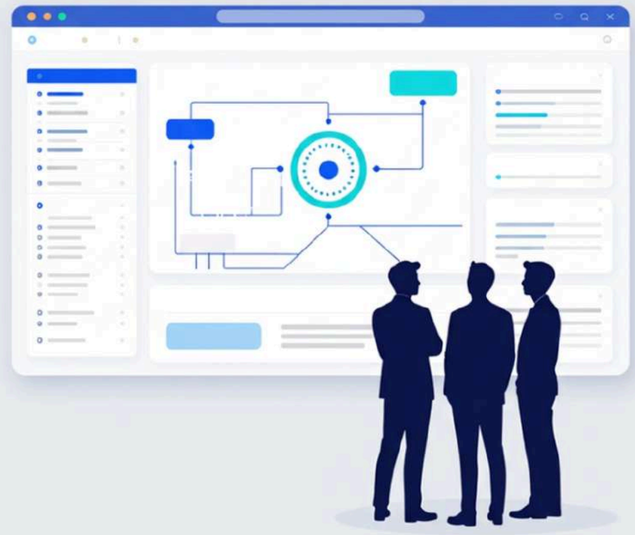

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CHALLENGE 2

OBJECTIVE

The objective is to move from reactive incident resolution towards proactive service–risk prevention, while keeping final decisions under human control.

KEY WORDS

AI · predictive analytics · incident management · risk class · process mining

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Submit your proposal here

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