

INNOVATION INTELLIGENCE SUITE

This project explores how AI/ML can
accelerate insight generation for R&D teams

Developed as a Data Science + AI Bootcamp capstone project (2025)

PROBLEM



Consulting R&D teams rely heavily on manual work to track trends, technologies, and startups and link them to client needs.

AI tools can reduce research time by ~30%, but only ~10% deliver real business value (BCG, 2025).

PERSONA NARRATIVE

- Innovation Strategy Consultant (Automotive)
- Works with emerging tech, startups, patents, and research to advise automotive clients
- Needs faster, automated intelligence to turn complex signals into actionable recommendations



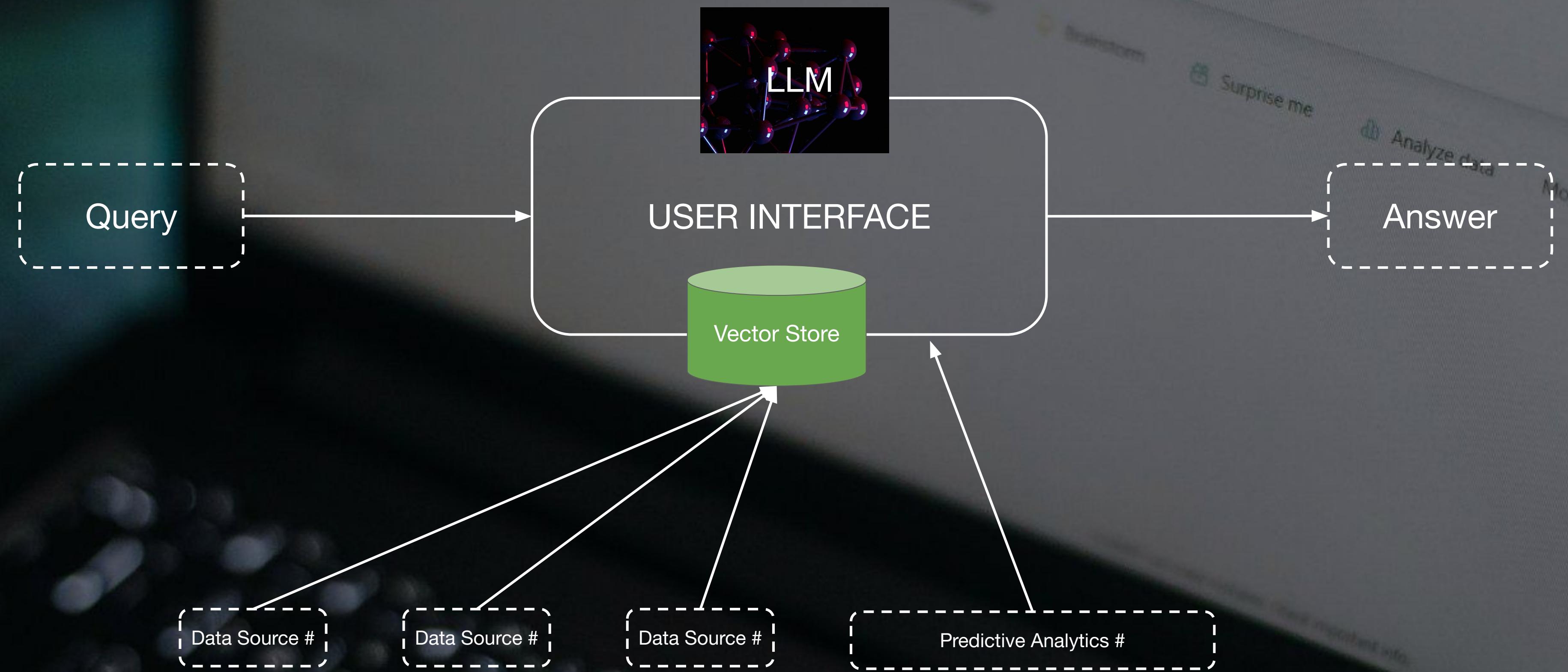
SOLUTION

We built an Innovation Intelligence Suite (B2B2C) MVP that combines intelligent RAG with tech maturity prediction to help R&D teams identify what's next in automotive AI - **faster and with greater precision.**

SOLUTION FEATURES

- **Intelligent query processing** that classifies and routes requests to appropriate modules
- **Multi-source synthesis:** Query and summarize automotive technology documents (18,000+ chunks)
- **Domain insight retrieval:** Get insights on specific innovation topics from research papers, tech reports, startups and patent data (2025)
- **Transparent attribution:** Source citation with relevance scoring
- **Template-based generation:** Structured answer generation with full transparency
- **Trend analysis:** Topic modeling and trend forecasting based on academic and commercial interest (25,000+ patent and research papers, Fraunhofer ISI-inspired)

SOLUTION ARCHITECTURE



SOLUTION DEMO

The screenshot shows a web application running on a local server (localhost) in a Safari browser. The application is titled "Uncover What's Next in Auto Tech" and is described as a Data Science + AI Bootcamp capstone project. A search bar contains the query "Which startups work on automotive and autonomous driving?". Below the search bar, there are three main categories: "Innovation Intelligence", "Market Insights", and "Predictive Analytics", each with a sub-section. The "Innovation Intelligence" section includes "Latest AI Research", "Automotive Patents", and "Startups in Automotive". The "Market Insights" section includes "Industry Pain Points" and "AI Agents Development". The "Predictive Analytics" section includes "Academic growth" and "Commercial interest". The "Answer" section provides a list of startups working on automotive and autonomous driving, including Potential Motors and Privacy4Cars, with their details. A QR code is visible on the left side of the screen.

Find me on [Github.com](https://github.com)

Uncover What's Next in Auto Tech

Developed as a Data Science + AI Bootcamp capstone project

Your question:

Which startups work on automotive and autonomous driving?

Example Questions

Innovation Intelligence

Market Insights

Predictive Analytics

Latest AI Research

Industry Pain Points

Academic growth

Automotive Patents

AI Agents Development

Commercial interest

Startups in Automotive

Answer

STARTUPS WORKING ON AUTOMOTIVE AND AUTONOMOUS DRIVING

Based on the provided context, the following startups are working on automotive and autonomous driving technologies:

1. **Potential Motors** [Source: AutoTechInsight Automotive Startup Profiles & Tracker]
 - Location: North America
 - Date: 06-Jun-2025
 - Description: Develops and offers a software solution that uses artificial intelligence (AI) to improve the safety and performance of automobiles.
 - Key Technology: AI-powered vehicle control and resilience to changing conditions
2. **Privacy4Cars** [Source: AutoTechInsight Automotive Startup Profiles & Tracker]
 - Location: North America
 - Date: 06-Jun-2025
 - Description: Develops an application software for the automotive ecosystem to delete personal information from vehicles.

THE SOURCES + EDA

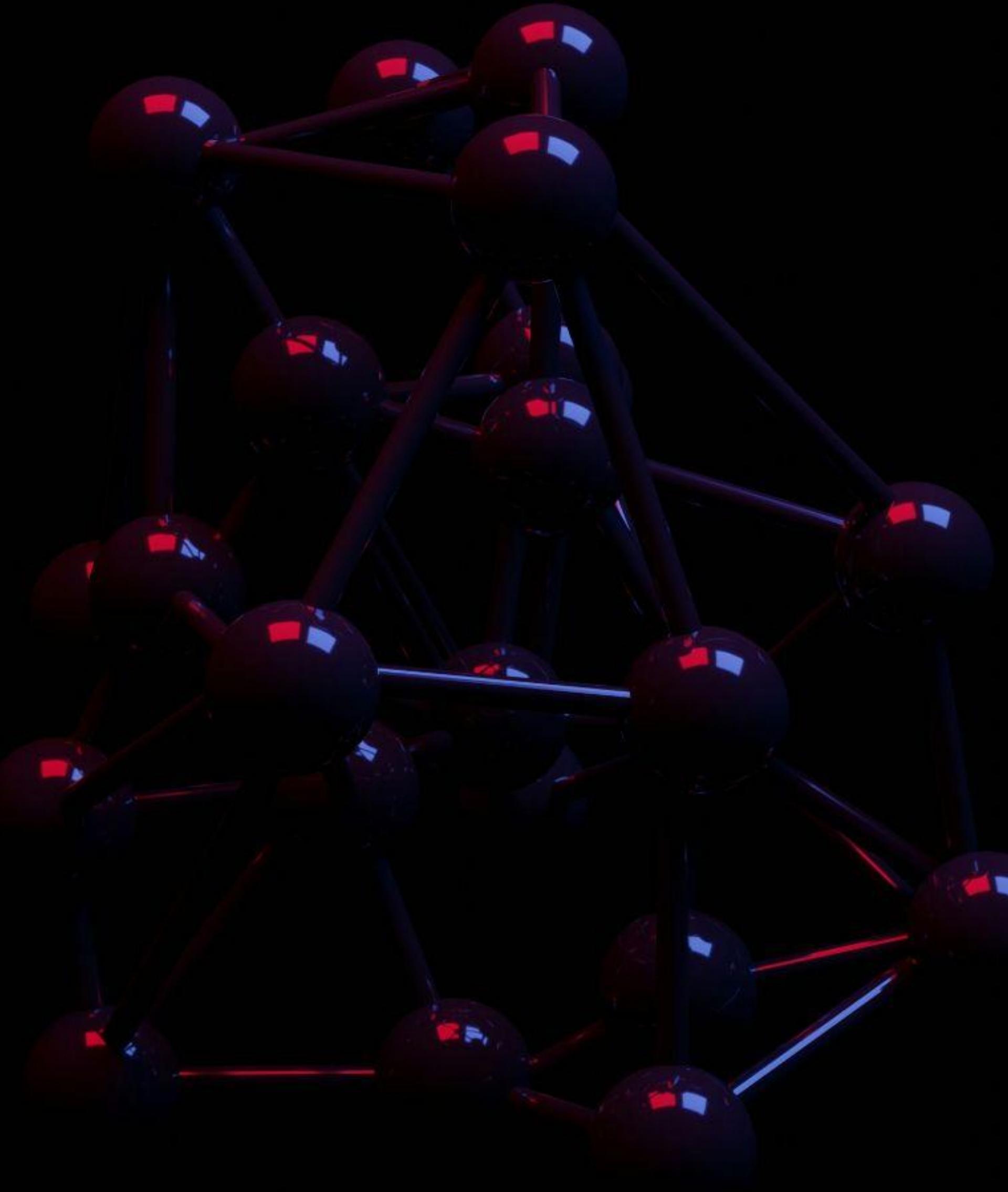
RAG

- Patents/journal articles: Lens.org
- Reports: World Economic Forum, BCG, McKinsey (2025)
- Startup datasets: S&P Global, Seedtable LLC

(+18,000 chunks)

Predictive Model

- Paper: Lens.org
- Patents: Lens.org
- News: GDELT 2.0



WHAT'S NEXT

Business Evolution:

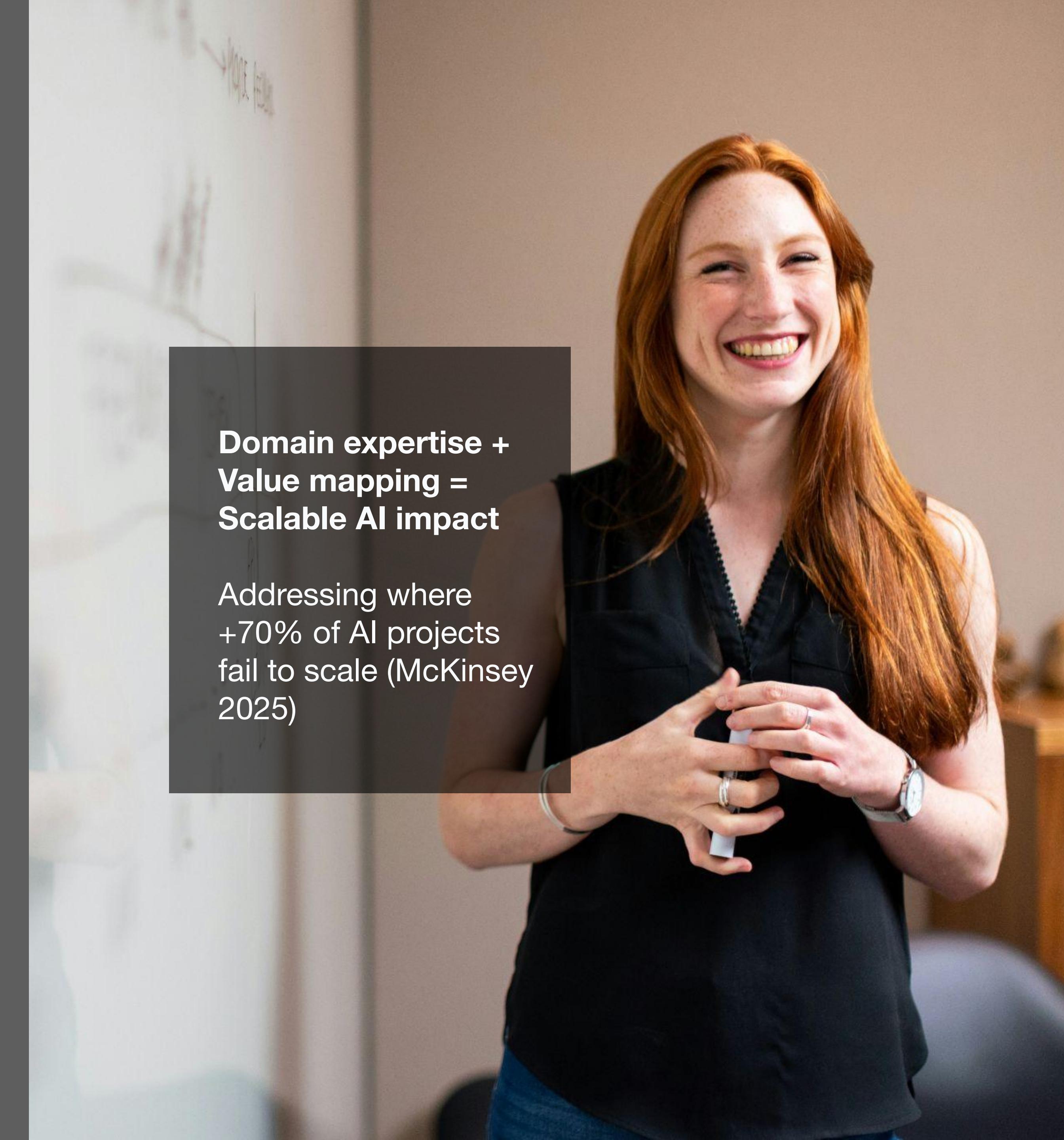
- Product-market fit via R&D focus groups
- Automotive specialization as competitive edge
- Domain specific impact metrics

Technical Advance:

- Specialised LLMs for automotive reasoning
- Multi-modal retrieval & strategic reasoning
- AI agents for strategic workflows (Q&A to tasks)
- Ethics by design

**Domain expertise +
Value mapping =
Scalable AI impact**

Addressing where
+70% of AI projects
fail to scale (McKinsey
2025)

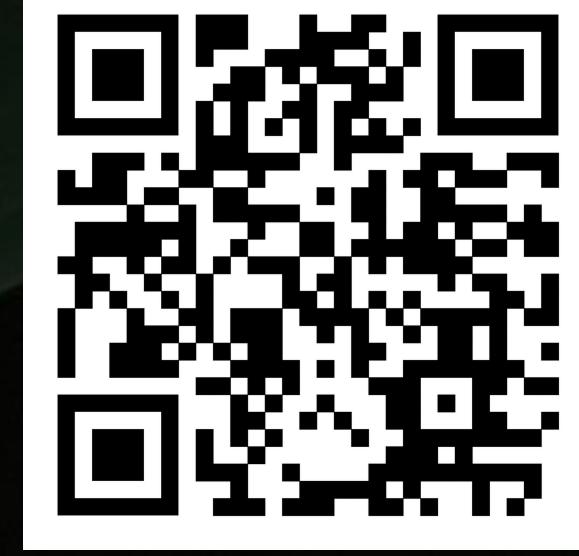


CONNECT WITH THE TEAM



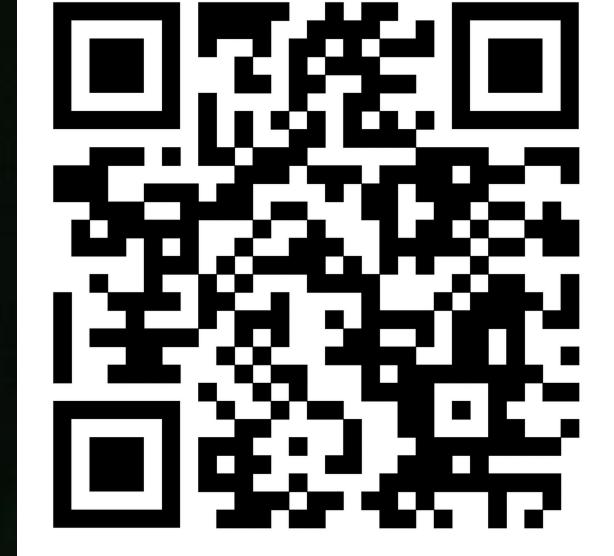
Siri Rääf

Background:
Accounting &
Business
Analytics



Mert Asaroglu

Background:
Vehicle
Development
Engineering + Trend
& Innovation
Research



Timo Wolf

Background:
Innovations &
Product
Development +
HR