



Aerospace Innovation & Tech Day

October 5, ZAL Hamburg

Agenda of the Innovation Roadshow



Christian Tillmann
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Opening by event sponsors

14:00

Come Together
Welcome Coffee

14:15

14:25

Keynote
*Four signals for a systems company
Bora Ger*

14:45

Keynote
*Five AI value pools
Daniel Garschagen*

15:00

Corners Visits
6 demos in parallel, audience divided in small groups, 15' per corner

AI IN ACTION

**ENGINEERING
KNOWLEDGE
FRAMEWORK**

**Mickael Perchet
Raphaëlle Belin-Nes**

CURIOSITY AI

Thierry Talucier

NC & GO

**Silvia Campos
Johan Krause**

**AI SMART
AUTOMATION**

Mikael C.-Maillan

**MSI POST-
PROCESSING
AUTOMATION
TOOLS**

**Julien Deborde
Ilia Plitov**

**AI-AUGMENTED
ENGINEERING
WITH A MULTI
AGENTIC SYSTEM**

**Thomas Jackowski
Carina Schwarz**

18:00

Closing Keynote 18:10

Networking & Marketplace

KEYNOTES

Innovation in the age of AI



*Systemic Ripples:
Four signals for a systems company*

Bora Ger
Chief AI Strategist, Capgemini AI Futures Lab Global

An organisation can run hundreds of AI use cases, put a licence on every desk and keep every pilot green, while its shape stays exactly what it was.

One thing changes the shape: work becoming machine-readable. Once tasks, decisions and judgment leave people's heads and become artefacts a machine can read, run and reason about, four things move at the same time. The work itself. The technology stack. The operating model. The economics of intelligence.

Bora Ger walks through the four signals and the question to ask against each one, so leaders can see where their organisation is being redesigned and where it is being decorated.



Five value pools to overcome the AI adoption gap and master the AI transformation.

Daniel Garschagen
Director Innovation & AI, Capgemini North and Central Europe

AI has moved far beyond experimentation and single use cases. Yet, the gap between AI capabilities and AI adoption in enterprises seems to keep rising.

In this keynote , we want to highlight the 5 value pools companies need to tackle. From enterprise technology modernisation to the new enterprise tech stack including the central nervous system for organisations to new agentic products, services, and enterprise processes.

This session will bridge the gap between AI theory and our hands-on use cases you will experience.



Demo Corner 1: Trusted answers unlocked with the Engineering Knowledge Framework

ELEVATOR PITCH

This demonstration presents Airbus's Engineering Knowledge Framework (EKF), its official AI-powered search assistant designed to ease Business Operational Support (BOS). EKF is ranked in the Top 5 AI priorities of AgentAiR and searches multiple document systems and delivers accurate, source-agnostic answers in natural language, without requiring a document reference.

Participants will see how EKF provides concise overviews and relevant results across engineering domains. They will learn how it reduces support effort, accelerates access to knowledge and helps avoid recurring incidents by making existing documentation easier to find and use.

DEMO DESCRIPTION SUMMARY

Main objectives:

- Users can search in multiple document management systems to find relevant information for their daily job.
- Central entry point of engineering document search tooling.
- 9000+ BOS incidents are created per year, at least 10% could be avoided based on existing documentation.

Benefits / client value:

- User-Friendly Experience: It has been built to support you and answer your questions, providing: Quick overview of the relevant abstract, Multiple results at once, Source-agnostic results, Natural language comprehension: You don't need the document reference.

Expert demo owners: Mickaël Perchet



Raphaëlle Belin-Nes





Demo Corner 2: From issue detection to resolution – smarter non-conformity management with curiosity AI

ELEVATOR PITCH

This demonstration shows how Curiosity AI and knowledge graphs improve the handling of non-conformities in industrial operations. The platform finds similar cases, detects issues proactively and uses GenAI for qualification, summaries, root-cause analysis and draft answers.

Participants will experience a smart digital workflow from issue identification to resolution, illustrated through myCMA for Airbus Customer Services. They will learn how connected knowledge can shorten resolution and rework cycles, prevent delays and cost overruns, improve shop-floor traceability and increase satisfaction.

DEMO DESCRIPTION SUMMARY

Main objectives:

- AI Assistant for similarity
- On-Premise & Cloud Solutions
- GenAI for qualification / summaries / drafts answers

This platform combines cutting-edge technologies to support seamless, efficient and scalable operations.

Smart, digital workflow to accelerate resolution and improve shop-floor traceability.

Benefits / client value:

- By shortening non-conformity resolution cycles, reducing operational and quality costs, and improving shop-floor visibility, organizations can significantly increase both customer and operator satisfaction.

Expert demo owners: Thierry Talucier





Demo Corner 3: Empowering first time right quality inspection

ELEVATOR PITCH

This demonstration presents NC & GO, a smart, field-oriented assistant combining gen AI solution and robotic process automation (RPA) turning inspector's input into structured, error-free Non-Conformance Reports (NCRs) directly in SAP, ensuring data quality and zero rejection on the NC process.

Participants will see how the solution guides less-experienced staff, standardizes reporting and captures complete, reliable information right the first time. They will learn how NC & Go reduces rejected reports, manual rework and delays while improving data quality for root-cause analysis. The result is a faster, scalable quality process that supports frontline teams without interrupting production flow.

DEMO DESCRIPTION SUMMARY

Main objectives:

- High "Return to Originator" Rates: A significant number of NCRs were rejected because the information provided by quality inspectors was incomplete, ambiguous, or inconsistent.
- Low Data Reliability: Reporting lacked standardization and was often subjective, making root cause analysis and continuous improvement activities very difficult.
- Challenging Learning Curve: Less experienced inspectors had difficulties handling complex reporting requirements, resulting in delays and frequent mistakes.
- Operational Inefficiency: The manual creation of NCRs was not scalable during production increases, negatively impacting overall performance.
- "Right First Time" Mindset: eliminate non-value-added work such as rework, returns, and manual data handling.

Benefits / client value:

- Support for frontline staff and provide newcomers with an expert-like "copilot" that helps close the skills gap immediately. Ensuring fully accurate and standardized data entry, enabling dependable analysis in the future. Maintaining production flow to promote a fast, practical approach where quality checks do not slow down operations ("Raise an NC and move on").

Expert demo owners: Silvia Campos De Los Reyes



Johan Krause





Demo Corner 4: Deliver right-first-time with Dessia, leveraging your PLM data and engineering know-how

ELEVATOR PITCH

This demonstration presents Dessia's AI-powered platform for smart automation in engineering, designed to make complex engineering processes faster and more reliable. The platform works with interconnected data across drawings, CAD models, bills of materials (BOM), specifications and databases.

Participants will learn how Dessia reduces manual review and costly rework, improves data quality and enables faster, more reliable engineering decisions. They will see an automated 2D drawing checker analyzing engineering drawings against predefined rules, standards and design constraints, while cross-data verification compares them with CAD models, bills of materials, specifications and engineering databases.

DEMO DESCRIPTION SUMMARY

Main objectives:

- Share on the automated 2D drawing checker which analyzes engineering drawings against predefined rules, standards, and design constraints to identify inconsistencies and quality issues early.
- The platform enables cross-data verification by comparing information between drawings, CAD models, BOMs, specifications, and engineering databases reducing manual review effort, improves data consistency, and minimizes costly engineering rework.
- Dessia structures engineering information into graph-based data models, creating relationships between parts, assemblies, requirements, and documents.

Benefits / client value:

- Grid BOM structures provide a clear, tabular view of product configurations, quantities, and component relationships for easier validation and change management. Interactive graph visualizations reveal connections and dependencies between product data, helping engineers quickly identify impacts and inconsistencies. Testing in place with Airbus Helicopters and Capgemini

Expert demo owners: Mikael Carassou-Maillan





Demo Corner 5: Usage of vibecoding to faster engineering analyses – application to MSI post-processing automation tools development

ELEVATOR PITCH

Vibe Coding enables engineers to become software creators. By combining engineering expertise with Generative AI, automation tools can be developed in hours or days rather than weeks, without requiring advanced programming skills. This democratization of software development unlocks new opportunities for productivity and innovation.

This demonstration presents a MSI (Installation System Models) post-processing use case in which AI-assisted development was used to rapidly create Python tools for Nastran OP2 result extraction, stress assessment, reporting and visualization. The resulting solution reduces dependence on specialist software while delivering faster, more consistent and traceable analyses. Participants will see how Vibe Coding can help transform engineering ideas into operational tools at unprecedented speed.

DEMO DESCRIPTION SUMMARY

Main objective

- Demonstrate the automated extraction and processing of simulation results directly from Nastran OP2 files without the need for traditional post-processing software licenses.

Benefits / client value:

- The workflow allows users to select specific element groups or complete models, filter relevant load cases, and generate key stress metrics including Von Mises, principal stresses, shear stresses, fixation loads, and bearing calculations. The demonstration also showcases automated report generation and optional HyperView-based image creation, highlighting how repetitive analysis tasks can be transformed into a flexible, repeatable, and project-specific process that dramatically reduces post-processing time while improving consistency and traceability across engineering programs.

Expert demo owners: Julien Deborde



Ilia Plitov





Demo Corner 6: AI-augmented Engineering with a Multi Agentic System

ELEVATOR PITCH

Leverage your engineering efforts and introduce a Multi Agentic System in your development workflow. For every step an agent is created and trusted with a task he works on, before the result gets passed to the next agent. All of that is managed by an organizer agent who controls all workflow steps. This gives you as an engineer the ability to concentrate on exploring your design space with a trusted AI co-engineer instead of hanging in endless complex iteration loops.

DEMO DESCRIPTION SUMMARY

Main objective:

- This demonstration showcases a realistic high-tech product development environment in which specialized AI agents perform dedicated engineering tasks while being coordinated by an orchestration agent. The collaborative agent ecosystem supports activities such as requirements analysis, simulation management, knowledge retrieval, design evaluation, and decision support across the development lifecycle.

Benefit / client value:

- Clients benefit from shorter time-to-market, higher product quality, and more reliable development outcomes. The AI-supported engineering workflow improves traceability, consistency, and responsiveness throughout the product development process, allowing organizations to deliver innovative solutions faster while maintaining high-quality standards. This results in greater customer satisfaction, reduced project risk, and increased competitiveness in rapidly evolving technology markets

FEM

Expert demo owners: Thomas Jackowski



Carina Schwarz



About Capgemini

Capgemini is an AI-powered global business and technology transformation partner, delivering tangible business value. We imagine the future of organizations and make it real with AI, technology and people. With our strong heritage of nearly 60 years, we are a responsible and diverse group of over 420,000 team members in more than 50 countries. We deliver end-to-end services and solutions with our deep industry expertise and strong partner ecosystem, leveraging our capabilities across strategy, technology, design, engineering and business operations. The Group reported 2025 global revenues of €22.5 billion.

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