ALEPH ALPHA SHOWCASES AI-POWERED INDUSTRIAL ENGINEERING SOLUTIONS BASED ON PHARIA AI AT HANNOVER MESSE

- German AI pioneer Aleph Alpha debuts at HMI 2025, showcasing Pharia Industrial Engineering for transforming core product development processes through sovereign AI solutions
- Pharia Industrial Engineering aims to work hand-in-hand with engineering teams, addressing critical bottlenecks in the development processes with efficiency gains, shortening steps in the development process by up to 30 percent while improving quality
- GDPR and EU AI Act-compliant technology emphasizes human-in-the-loop oversight - live demonstrations available at Aleph Alpha's booth (Hall 17, Booth E40)

Heidelberg/Hannover, 31 March 2025 – Aleph Alpha, a leading provider of AI technology solutions, debuts at Hannover Messe 2025 with Pharia Industrial Engineering, a comprehensive suite of AI-powered product development use cases tailored to industrial verticals such as automotive, manufacturing, aerospace and defense. The suite is built on Aleph Alpha's sovereign PhariaAI Full Stack, which ensures compliance and transparency with human-in-the-loop oversight for full control.

Pharia Industrial Engineering: Tackling Industrial Challenges

Industrial companies face increasing complexity in product development, with the need to design, test and validate multi-layered systems while avoiding sub-optimal designs and costly late-stage changes. At Hannover Messe, Aleph Alpha demonstrates how its enterprise-ready generative AI solution Pharia Industrial Engineering can streamline the entire product development cycle (along the V-model) - from customer specification analysis to validation and testing.

Developed in collaboration with leading industry partners, Pharia Industrial Engineering leverages AI-powered automation and insights based on previous project experience throughout the engineering process, enabling customers to develop higher quality products faster while ensuring compliance and reducing complexity. Initial implementations with industry partners show significant benefits:

- Up to 30 percent greater efficiency in key engineering processes
- Up to 40 percent faster requirements management
- Early detection of design risks, streamlined validation planning
- Faster, more qualified AI-driven decision support for engineering teams

Built on PhariaAI

Aleph Alpha’s offering for the industrial sector is built on PhariaAI, the sovereign AI solution for B2B and B2G. PhariaAI is equipped with cutting-edge innovations such as the revolutionary Tokenizer-Free (T-Free) architecture, which improves the handling of domain-specific language while reducing training time and required computing power. With its independent

infrastructure and flexible framework, PhariaAI enables customers to develop and customize industrial use cases specific to their needs.

Key Partnerships at Hannover Messe 2025

At Hannover Messe 2025, Aleph Alpha will showcase strategic partnerships that highlight the company's leadership in sovereign enterprise AI.

Strategic partnerships on display:

Aleph Alpha and Schwarz Digits (Hall 17, Booth F32)

Highlighting Aleph Alpha's deep integration within the Schwarz Group's digital ecosystem, delivering German sovereign technology built for European industry. Through the partnership with STACKIT, the Schwarz Group's sovereign cloud provider, industrial customers can deploy highly customizable and scalable solutions powered by Aleph Alpha's PhariaAI with maximum performance, full control and complete regulatory compliance - a powerful combination that ensures both technological excellence and sovereignty for industrial AI applications.

Aleph Alpha and HPE (Hall 15, Booth E60)

Demonstrating the Test Development Assistant, developed in partnership with Veigel Automotive. This solution shows how AI can reduce test effort by more than 30 percent and address a critical industry challenge, as software testing typically consumes nearly half of all software development time in automotive companies. Joint activities at HMI 2025 include a “How to POV masterclass” on Monday, 31 March at 09:30, a panel on "Data sovereignty as the key to the AI revolution in the industry" on Tuesday, 1 April at 16:30, and a dinner reception on Wednesday, 2 April at 17:00.

Aleph Alpha and Deloitte (Hall 15, Booth E72)

Presenting a System Engineering solution that combines Deloitte's domain expertise and end-to-end implementation capabilities with Aleph Alpha's technology to deliver sovereign AI solutions for core industrial processes. The joint System Engineering Masterclass will take place on Wednesday 2 April at 13:00.

Visit us at Hannover Messe 2025

Visitors can also experience PhariaAI and Aleph Alpha's industrial solutions at **Aleph Alpha's main booth (Hall 17, Booth E40)**. Our experts will demonstrate how the Pharia Industrial Engineering Suite built with PhariaAI empowers enterprises with truly sovereign AI capabilities that combine innovation, security and control in a way that is uniquely aligned with industrial needs and regulatory standards.

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About Aleph Alpha

Aleph Alpha was founded in 2019 with the mission to research and build sovereign, human-centric AI for a better world. With a team of international scientists, engineers, and innovators, the company researches and builds transformative AI solutions. Its full stack offering, PhariaAI, is the prime choice for enterprises and government institutions seeking to retain sovereignty, secure their data, and build trustworthy applications.

Find out more: https://aleph-alpha.com/ **Press Contact:** press@aleph-alpha.com