https://doi.org/10.32604/zkg.2026.089669

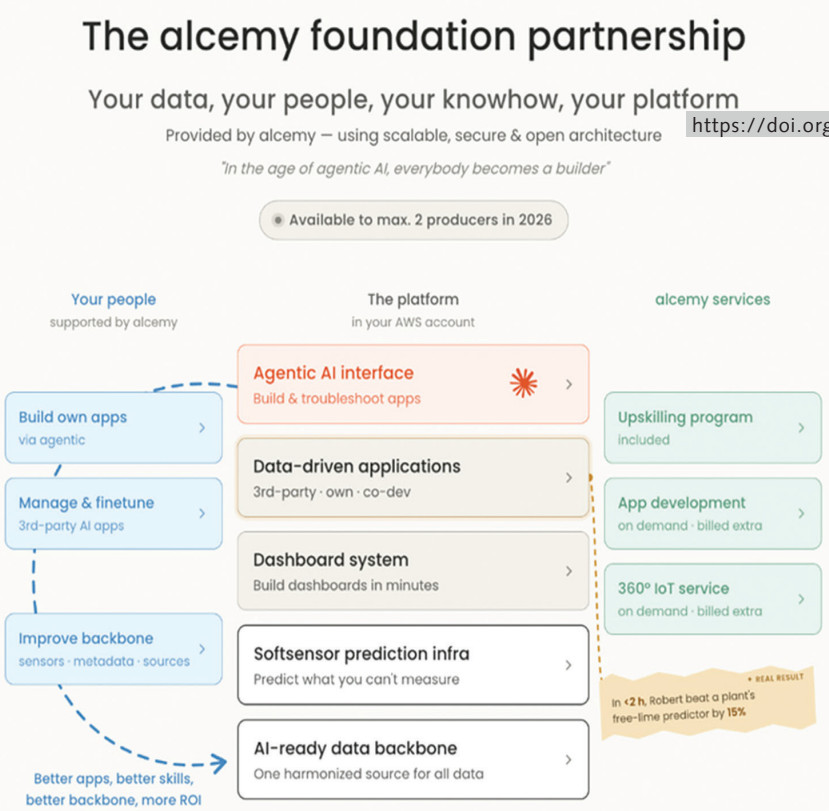


Illustration: alcemy product roadmap (Credit: alcemy GmbH)

SPOTLIGHT

ALCEMY

Alcemy targets autonomous cement and concrete production

Germany's industrial cement & concrete AI platform alcemy announced the launch of the new Foundation Partnership to unveil its roadmap towards autonomous cement and concrete production. The company's vision is to help producers build the data infrastructure, organizational capabilities, and AI platform required to unlock the industry's full potential in decarbonization, productivity, and workforce transformation. The Foundation Partnership embeds the human capabilities required to sustain AI at scale. As part of the program, dedicated alcemy mentors and hands-on training are provided so that producers can build their own dashboards and applications, manage third-party AI systems, and drive adoption.

The company was founded in 2018 in Berlin in Germany, and is now operating real-time AI control across 45 cement and over 160 concrete plants in 18 countries, serving producers including Alpacem, Buzzi Unicem, Cimpor, CRH, Dyckerhoff, Medcem, Molins, Oyak, Rohrdorfer, Secil, Titan, Votorantim and others. In Germany, alcemy's AI-based software is installed in about 50% of all cement plants. Through combining machine learning expertise and industry know-how, the company's co-founders Leopold Spenner and Robert Meyer were convinced that cement and concrete production could be significantly optimised without raising costs. The AI-based solutions help to maximise mill throughput, push the clinker limits, master quality variations, maximise alternative fuels, and others.

Leopold Spenner, CEO of alcemy, said: "AI is transforming industries faster than any technology we've seen before. It has transformed the way we work at alcemy within months, yet most cement producers still lack the foundations to fully benefit from it. Our strength has always been the combination of cement expertise, data science and an unwavering dedication to solving the industry's biggest challenges together with our clients—and we're excited to take this to the next level."

https://alcemy.tech/alcemy_launches_catalyst_and_autonomous_mill_and_recipe_control_final_07142026.pdf