alcemy Launches New Foundation Partnership and Unveils Roadmap Toward Autonomous Cement and Concrete Production

Berlin, Germany – July 14, 2026 – alcemy, the leading AI-driven cement and concrete quality optimization platform, today announced the launch of the alcemy Foundation Partnership and unveiled its roadmap toward autonomous cement and concrete production. After eight years of operating real-time AI control across 45 cement and over 160 concrete plants in 18 countries, alcemy is now expanding its vision. The company is moving beyond individual AI applications 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.

Today's announcement introduces three key milestones on that journey:

- **alcemy Foundation Partnership** – the enterprise platform and partnership for scaling AI
- **alcemy for Cement** – the roadmap toward autonomous mill operations
- **alcemy for Concrete** – the roadmap toward autonomous recipe control

alcemy Foundation Partnership: Your data. Your people. Your platform.

The company today unveiled the alcemy Foundation Partnership, a first-of-its-kind program that tackles the central barrier to scaling AI: turning isolated proof-of-concept wins into reliable, enterprise-wide deployment. Many producers have piloted AI tools only to see initiatives stall because they lack the organizational infrastructure required to roll out AI systems across all plants and sustain ROI over time.

The alcemy Foundation Partnership is a comprehensive co-development program designed to close this gap by helping producers build lasting competitive advantage through data infrastructure and workforce capability. Under the tagline *"Your data. Your people. Your platform,"* the program helps producers establish a unified AI-ready data backbone in their own AWS or cloud account that unifies fragmented data from PLCs, SCADA systems, LIMS, SAP, MES and retrofitted sensors into a single foundation supporting numerous AI applications simultaneously. Because every application builds on the same foundation, integration times shrink dramatically and each additional AI system can be deployed faster, at significantly lower cost.

Critically, the alcemy Foundation Partnership embeds the human capabilities required to sustain AI at scale. A producer's internal champions receive dedicated alcemy mentors and hands-on training to build their own dashboards and applications, manage third-party AI systems and drive adoption. The partnership begins with a shared discovery phase including an AI readiness assessment, an architectural vision and organizational blueprint before transitioning into long-term co-development.

Upskilling and change management happen alongside technical deployment. The result is a self-reinforcing flywheel: better data infrastructure enables better AI applications. Better applications build stronger teams. Stronger teams continuously improve the platform, creating compounding ROI while reducing long-term dependence on external vendors.

"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," said Leopold Spenner, CEO of alcemy. "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."

The alcemy Foundation Partnership launches in Fall 2026 with limited availability to ensure deep engagement and measurable impact.

alcemy for Cement: Unlocking Autonomous Mill Operations

Mill optimization is the ideal starting point for enterprise AI adoption because it delivers measurable ROI quickly while establishing the operational confidence and cultural momentum required for broader transformation.

To move toward fully autonomous mill operation, alcemy is expanding both its optimization capabilities and its integration ecosystem.

Over the past year, alcemy has advanced autonomous mill optimization on three fronts. First, the company introduced **Dual Steering**, enabling simultaneous optimization of fineness and recipe parameters. Second, it extended coverage to a wider set of grinding set-ups, including additional separate-grinding lines and pure slag grinding applications. Third, it proved reliable optimization even in plants with limited laboratory infrastructure, showing that significant gains can be achieved with as little as sieve analysis and XRF data.

To enable plant teams to run their mills fully autonomously while freeing up time for higher-value operational tasks, alcemy is extending both its data capabilities and steering capabilities.

More data, more optimization variables: Integrating additional process data, online analysers and performance enhancers as optimization variables will further increase optimization potential.

Plug & Play integrations: alcemy seamlessly connects producers' data infrastructure through deeper native integrations with process automation leaders. Earlier this year, alcemy formed a strategic partnership with ABB, the first in a broader effort to deepen interoperability across the automation ecosystem. Together, the companies are developing tighter integration between alcemy's AI-powered prediction and optimization technology and ABB's Advanced Process Control and Plant Information Management systems, enabling faster deployments and a smoother path toward autonomous mill operations. More than one-third of alcemy's cement customers already operate the technology in closed loop.

alcemy for Concrete: Autonomous Recipe Control

After five years examining concrete production from every angle, alcemy has identified recipe optimization as the industry's greatest opportunity. alcemy is developing an AI recipe optimizer designed to accelerate feedback cycles and support active cement reduction, enabling customers to reduce cement content by 5 to 30 kilograms per cubic meter.

Where many producers still operate on six-month adjustment cycles, alcemy's platform combines real-time monitoring of water additions, consistency and recipe stability to enable continuous, data-driven optimization.

This capability is becoming increasingly important as ready-mix producers shift from commodity production toward performance-driven manufacturing. Success increasingly depends on customer-specific performance requirements, variable aggregate sources and more complex material systems.

About alcemy

alcemy is an industrial AI platform helping cement and concrete producers achieve superior quality control while reducing costs and lowering clinker content. With deployments across 18 countries—including leading producers such as Amrize, Buzzi Unicem, Cimpor, CRH, Molins, Votorantim and Titan—alcemy is recognized globally for advancing AI-powered cement and concrete optimization.

For more information, visit https://alcemy.tech/en/ or contact Oliver Kanders at oliver.kanders@alcemy.tech.