

The Future is now: Capability, Collaboration and Technology to enable responsible Mine Production

Day 1 – Wednesday, 24 September 2025

08:00–09:00	Arrival networking for Lab Tour (Mining Building)
09:00–10:30	Lab Tour AMT (Mining Building)
10:30–11:00	Registration open and arrival networking (Super C)
11:00–12:00	Opening Session: Welcome by the Organizers, Greetings, Keynote
	Welcome Note; Prof. Dr.-Ing. Elisabeth Clausen
	Greetings RWTH Aachen University Prof. Peter Kukla, PhD Dean of the Faculty for Georesources and Materials Engineering
	From Innovation to Impact: How Technology Enables Future-Ready Mining Dr. Carin-Martina Tröltzsch, Executive Board, K+S AG; Deputy Chairwoman-COO
12:00–13:00	Lunch Break
13:00–14:30	Session 2: New Horizons In this session, selected case studies showcase recent mining initiatives and the challenges and opportunities they bring. Building on these insights, the session's speakers will join a panel discussion to explore what is needed for project success – from technical capability and collaboration to social acceptance and environmental responsibility.
	Critical raw materials for construction industry: Is the supply of Gypsum secured? Daniel Schroeder, Division Manager Mining, Knauf Gips KG
	Redeveloping Europe's (potentially) largest Fluorspar deposit Konstantin Deichsel, Manager BusinessDevelopment, Deutsche Flussspat GmbH
	Panel Discussion: Making Mining Projects Succeed
14:30–14:45	Break
14:45–16:15	Session 3: Interactive Workshop Session This interactive workshop builds on the core themes of HPM 2025 – capability, collaboration, and technology – to explore how Europe can translate strategic ambitions into responsible mining operations. Participants will examine real-world innovations such as automation, digital twins, electrification, and data-driven process optimization, and discuss the skills, partnerships, and community engagement practices needed for successful implementation. By combining technical insights with collaborative approaches, the session provides a platform to co-create pathways towards high-performance, future-ready, and socially accepted mineral production in Europe.
	From Vision to Deployment: Innovations and Collaborations for High-Performance Mining in Europe
16:15–16:30	Break
16:30–17:10	Session 4: Exhibitor Pitches
17:10–17:15	Wrap up of the Day
18:30	Reception Forum M
19:00	Opening and Sponsor Presentation
19:30	Buffet Opening
	Innovation in Action: DigiMine Pit to Port Bernardo Marinho, Global Sales Head – Minerals Automation and Digitalization

Day 2 – Thursday, 25 September 2025

08:30–09:00	Registration open and arrival networking
09:00–09:10	Welcome and Opening
09:10–09:30	Keynote: Collaboration as Key: Unlocking the Full Potential of Mining through Partnerships Christoph Schäfer, Managing Director and Partner, Maschinenfabrik Köppern GmbH & Co. KG
09:30–10:30	<p>Session 5: Autonomous Mining Autonomy is rapidly moving from vision to reality in mining. This session highlights the latest advancements in underground automation, from fully automated load & carry operations to emerging trends in hydraulic mining excavators. It concludes with a pioneering look at remote-supported shaft boring technology, demonstrating how autonomous systems can revolutionize even the most complex underground environments. Together, these presentations chart the trajectory of autonomous mining – from proven applications to groundbreaking technologies shaping the future of the industry.</p> <p>Autonomous: Load & carry, fully automated Underground Maximilian Rolf, Co-founder & CEO, Sensmore / Thomas Weber, CEMEX, Head of Mining</p> <p>Technology Trends of Hydraulic Mining Excavators Jonas Noske, Design Engineer / Dr.-Ing. Stefan Heitzig, Manager Research & Development New Tech Development, Komatsu Germany GmbH</p> <p>Shaft Boring Roadheader (SBR) supported by remotely operated system for rock pre-conditioning Dr.-Ing. Bernd Steyer, Senior Global Project Manager, indurad GmbH (part of Hexagon) / Dipl.-Ing. (FH) Patrick Rennkamp, Division Manager Mining, Herrenknecht AG</p>
10:30–11:00	Break
11:00–12:30	<p>Session 6: Electrification & Digital Transformation Electrification and digitalization are transforming mining. This session showcases pioneering projects such as Europe's first electrified mine and the digital transformation of shaft sinking, before broadening the scope to integrated pit-to-port solutions. In the concluding panel discussion, industry leaders and experts will debate how automation, electrification and digitalization can serve as catalysts for safer, cleaner, and more socially accepted mineral production across Europe and beyond.</p> <p>Siemens Mobility & Boliden AB – Boliden's First Electrified Underground Mine Markus Gyusok Schauen, Senior Project Manager, Siemens Mobility GmbH / Patrik Akerman, Business Developer, Siemens Mobility GmbH / Patrick Westerlund, Senior Development Engineer, Boliden AB</p> <p>Digitalization in Shaft Sinking – Transforming Deep Excavation Project Dzianis Iholka, Head of International Department, Redpath Deilmann GmbH</p> <p>From Pit to Port Bernardo Marinho, Head of Global Sales – Minerals Automation & Digitalization Solutions, Innomatics GmbH</p> <p>Panel Discussion: Automation, Electrification & Digitalization as Catalysts for Responsible Mining</p>
12:30–13:00	<p>Session 7: Wrap- Up and Closing: Drawing the Future of Mining – Visual Reflections from HPM 2025 As HPM 2025 comes to a close, participants are invited to step back and see the conference through a different lens. A Graphic Recorder has accompanied the entire event, capturing key ideas, insights, and connections in a single, evolving illustration. In this closing session, the final artwork will be unveiled, offering a visual journey from strategic visions to technological breakthroughs and collaborative pathways. The session provides a moment of reflection, synthesis, and inspiration – highlighting not only what has been discussed, but also how these ideas interconnect to shape the future of responsible, high-performance mining in Europe.</p>
13:00–14:00	Lunch Break