

## GRX26 Global Resources Innovation Expo

### Call for Innovations and Case Studies

Perth, Australia | 5-7 May 2026

### 2026 Theme: Competing Globally in the Critical Era

Australia's resources sector is navigating the most defining era in mining history, where strategic policy, market positioning, and technology deployment determine competitive advantage in global critical minerals markets.

GRX26: Competing Globally in the Critical Era focuses on the systems, strategy, and commercialisation that shape Australia's resources advantage across the entire mining value chain.

We seek innovative case studies and breakthrough solutions that demonstrate commercial deployment strategies, horizontal collaboration, and measurable competitive advantage across our eight strategic content pillars.

Before submitting your abstract, ensure you read the below guidelines carefully. All information that you require has been included.

Please use the link to submit your abstract for GRX26. All abstracts must be submitted electronically. Hard copy submissions will not be accepted.

**Submission Deadline:** 1159 hours AEST, Monday 15 December 2025

[Submit Now](#)

### General guidelines

The following guidelines must be followed when submitting your work for GRX26.

- All submissions must be in English. English is the official language of GRX26 and all presentations must also be in English
- Submission titles must clearly indicate the nature of the presentation
- Submissions must not exceed the applicable word limit, be clear and concise, highlight relevant aspects, and should adhere to the submission criteria
- References are not required for submissions
- The abstract title and section headings are not included in the overall word count

## Content Pillars - Submission Categories

### 1. Mine Automation, Digitalisation & Robotics

#### Topics we are seeking

*Automation, digitalization, and robotics are the essential forces driving mining's transformation. They reduce uncertainty and boost productivity and safety today, while simultaneously equipping the industry to manage the fundamental challenge of moving to deeper, more remote, and increasingly complex operations.*

This pillar focuses on the technical deployment and operational outcomes of automation technologies from zero entry mining and remote operations to AI-enabled systems and autonomous platforms that are fundamentally reshaping how minerals are extracted. We seek innovations demonstrating the practical application of digital systems, robotics, and autonomous technologies that deliver measurable safety improvements and operational performance gains.

- Zero entry mining and remote operations – eliminating human exposure in hazardous environments through automated systems
- Mine automation deployment at scale – moving from pilot programmes to full production implementation
- Digitalisation for safety and uncertainty reduction – digital twins, predictive systems, real-time monitoring, and data-driven decision making
- Robotics and autonomous systems – OEM innovations, autonomous haulage, drilling automation, and deployment case studies
- Cross-industry technology transfer – adapting proven automation solutions from defence, oil & gas, space, and advanced manufacturing sectors

### 2. Business & Workforce Excellence

#### Topics we are seeking

*Optimising mining performance through advanced workforce development, operational efficiency strategies, and the human dimensions of technology adoption. This pillar addresses how organisations prepare their people, processes, and business models for the automated, AI-enabled future of mining.*

We seek innovations in workforce transformation, organisational change management, and business strategies that enable successful technology adoption whilst developing the skilled workforce required to operate, maintain, and optimise increasingly automated operations. The focus is on the business outcomes and human capability development that turn technological potential into competitive advantage.

- AI-enabled workforce transformation – preparing teams for human-machine collaboration and agent transition
- Automated operations workforce development – upskilling and reskilling for automation-enabled roles
- Behaviour spaces for innovation implementation – creating organisational cultures and environments where new technologies can be tested, learned, and scaled
- Talent development and attraction – building capability pipelines for the digitally-enabled mining workforce
- Operational efficiency and performance management – business process optimisation and performance frameworks
- Change management for automation adoption – overcoming organisational barriers to technology deployment

### 3. Capital, Access & Investment

#### Topics we are seeking

*Enabling innovation and growth through improved access to capital, business opportunities, skilled people, and strategic partnerships whilst addressing funding mechanisms and investment frameworks.*

We seek case studies that demonstrate effective capital deployment, innovative funding mechanisms, and strategic partnership models that accelerate technology commercialisation and scale innovation across the mining sector.

- Access to capital and deployment effectiveness
- Government grants – improving access and targeting
- Finding the right partners
- Partnering with government effectively
- Technology deployment financing and innovation scaling funding
- Procurement strategies and incentive structures
- Cross-generational knowledge transfer
- Mental health and wellbeing in mining workplaces.

### 4. Collaboration Across the Value Chain

#### Topics we are seeking

*Creating sustainable partnerships that drive innovation adoption and shared value creation across mining companies, METS providers, Indigenous communities, technology partners, and government stakeholders.*

We seek successful collaboration frameworks, partnership models, and strategic relationship-building approaches that break down traditional silos, accelerate innovation adoption, and create shared value across the entire mining ecosystem.

- Cross-industry collaboration frameworks
- Indigenous partnership models and engagement
- METS-mining company integration strategies
- Government-industry collaboration opportunities
- International partnership development
- Policy frameworks and trade partnerships
- Community engagement and social licence strategies
- Stakeholder engagement and consultation processes
- Public-private partnerships in mining
- Regional development and local content strategies
- Traditional knowledge integration
- Conflict resolution and mediation in mining
- Corporate social responsibility innovations
- Fair trade and ethical sourcing initiatives.

### 5. Global Competitiveness & Strategic Positioning

#### Topics we are seeking

*Strengthening Australia's competitive position in global resources markets through strategic policy, market positioning, and addressing the challenges that impact our ability to attract investment and compete internationally.*

We seek strategic insights and frameworks that address Australia's competitiveness challenges, accelerate project delivery, and position the nation as a leader in critical minerals and resources through market-driven approaches and policy innovation.

- Australia's competitiveness crisis – cost, time, productivity
- Competing with China – costs and pace
- Critical minerals as Iron Ore 2.0
- Accelerating project delivery – pace and urgency
- Geopolitical risk management and supply chain security
- Strategic trade partnerships and sovereign capability

**6. Resources & Critical Minerals Value Chain Topics we are seeking**

*Unlocking Australia's critical minerals potential through value chain expansion, downstream processing, and innovative approaches to deep mining and resource extraction.*

We seek breakthrough solutions and strategic frameworks for deep mining, downstream processing, value chain integration, and critical minerals extraction that position Australia as a global leader in the energy transition supply chain.

- Unlocking rare earths and critical minerals
- Deep mining – breaking technical barriers
- Downstream processing and value chain expansion
- Training centre model – start small, scale up
- Critical minerals supply chain resilience
- Value chain integration strategies and partnership models

**7. Energy Transition & Sustainable Operations Topics we are seeking**

*Implementing decarbonisation strategies and circular economy principles through commercially viable clean technologies, renewable energy integration, and sustainable business models.*

We seek innovations in decarbonisation, circular economy implementation, and ESG strategy that deliver both environmental outcomes and operational efficiency through commercially viable approaches to sustainable mining.

- Decarbonisation and carbon capture incentives
- Circular economy – zero waste mining
- Renewable energy and uranium
- ESG implementation and sustainable finance
- Environmental compliance and stewardship
- Water management and conservation technologies

**8. Strategic Direction, Communication & Leadership Topics we are seeking**

*Addressing the industry's communication challenges, ensuring member priorities are central, and providing strategic leadership for the sector's future direction.*

We seek strategic insights on effective industry communication, government partnership models, and leadership approaches that mobilise action, create urgency, and position the mining sector as essential to Australia's future prosperity.

- Industry communication failure and effective messaging
- Government partnership recalibration
- Creating urgency – Think, Feel, Do
- Minister perspectives and government engagement
- Strategic leadership development
- Industry advocacy and policy influence

**9. Regulatory Frameworks & Safety**

**Topics we are seeking**

*Navigating evolving regulatory frameworks, addressing the gap between technology advancement and regulation, and maintaining safety excellence whilst enabling innovation.*

We seek innovative approaches to regulatory reform, permitting acceleration, policy frameworks that enable innovation, and safety excellence through digital systems that balance risk management with the pace of technological advancement.

- Regulations lagging autonomy and technology advancement
- government grant failure rate – improving effectiveness
- Safety vs innovation speed balance
- Policy frameworks that enable innovation
- Safety excellence through digital systems and risk management

**10. Other Emerging Topics**

**Topics we are seeking**

*Breakthrough innovations and strategic developments that don't fit within above categories but are shaping the future of mining.*

We welcome submissions on emerging topics, innovative approaches, and cross-cutting themes that demonstrate strategic relevance to Australia's resources advantage and the "Competing Globally in the Critical Era" narrative.

- Cyber security and digital resilience in mining operations
- Space technology applications for mining
- Advanced materials and processing innovations
- Next-generation exploration and discovery technologies
- Novel business models and market disruption strategies
- Indigenous knowledge integration and traditional practices
- Policy and trade leadership initiatives
- Artisanal and small-scale mining integration
- Financial technology innovations for mining
- Deep-sea and space mining technologies
- Alternative and unconventional mining methods
- Mining industry consolidation and M&A strategies
- Infrastructure development for remote mining operations.

## Submission Criteria

All submissions should demonstrate:

- **Commercial Deployment Focus** – Move beyond R&D to proven implementation strategies
- **Systems Thinking** – Address challenges across the mining value chain, not isolated solutions
- **Horizontal Innovation** – Cross-industry collaboration or market-driven approaches
- **Measurable Outcomes** – Quantifiable business results, competitive advantage, or performance improvements
- **Strategic Relevance** – Alignment with Australia's resources advantage and critical minerals positioning
- **Collaboration Framework** – Demonstrate partnership models and stakeholder engagement.

Priority will be given to submissions that:

- Showcase successful deployment at commercial scale
- Include mining company partnerships or endorsements
- Demonstrate international applicability or export potential
- Feature diverse voices and perspectives across the value chain
- Address workforce transformation or sustainability imperatives.

## What We Will Not Accept

Submissions that demonstrate the following will not be accepted:

- Early-stage R&D without commercial viability pathways
- Academic research without deployment frameworks
- Product-specific sales presentations
- Technical deep-dives
- Mineral-specific geological or metallurgical presentations
- Theoretical concepts without proven implementation

## Presentation Format

All submissions will be considered for oral presentations within the official program, including potential workshops on the pre-conference day.

## Abstract Review

All submitted abstracts will undergo a review process by the GRX26 Program Committee and/or Industry Working Group.

Incomplete abstracts, abstracts not written in English or abstracts not following the above guidelines cannot be processed and will not be reviewed.

No revisions are possible after the submission deadline – no exceptions.

## Submission checklist

**1. Prepare your abstract submission in a Word document as follows:**

**Mandatory minimum component: Case Study Abstract (300 words)** – Outline your innovation, deployment strategy, and measurable outcomes

**Optional additional component (if applicable): Commercial Impact Statement (150 words)** – Quantify business results and competitive advantage delivered

**Optional additional component (if applicable): Collaboration Framework (150 words)** – Describe partnership models and stakeholder engagement approach

**2. Choose the content pillar alignment that most aligns with your submission** – see above primary and emerging topics categories

**3. Prepare your speaker biography** – Please provide the presenter biography. This should be written in third person and be no more than 150 words in length, including innovation strategist credentials and deployment expertise

**4. Prepare any supporting materials, which are optional and only if applicable, that you may wish to include** – Data, case studies, testimonials, and/or partnership agreements

## Terms and Conditions

All abstract submitters are required to agree to the below terms and conditions prior to submitting their work.

- Abstract has been submitted in English
- Submitting author has read and agreed to the [data protection and privacy policy](#)
- Abstract has been prepared according to the guidelines provided
- Submitting author confirms that the presenting authors will register and pay to attend GRX26, including all travel and accommodation costs and present the work if successful
- If completed registration is not received by the given deadline, the submission will be considered as withdrawn

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## Join The Conversation

GRX26 is Asia-Pacific's premier strategic innovation hub where competitive advantage is forged through horizontal collaboration, systems thinking, and commercial deployment strategies.

Be part of the conversation that shapes mining's strategic future.

**Contact:** [program@grx.au](mailto:program@grx.au)

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