Minerals Industry Safety and Health Centre

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Volume 1 + Overview

Improving Self-Escape from Underground Coal Mines

Reopening of Hazelwood Mine Fire Inquiry
Current Content / Services / Platforms

Risk

For internal use only - not for distribution
Current Content / Services / Platforms

Human Factors

SANDVIK

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Current Content / Services / Platforms

Artisanal and Small Scale Mining

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Stakeholders

- Mining companies (individually & collectively)
- Mining services providers / contractors
- Equipment manufacturers
- Related industries (e.g., construction / rail)
- Regulators (domestic & international)
- Research agencies
Stakeholders *generally* know their problems, but not research opportunities

Current focus on costs limits opportunities for direct funding; short term opportunities with aggregations of companies - ie ACARP, CSHST; or domestic and international government agencies eg., NIOSH

Mining companies committed to safety and health as part of maintaining social license to operate. Expenditure in the area seen as a cost rather than an investment in increased effectiveness / innovation. Need to turn this around somehow.

Businesses providing services to mining companies may see improving safety and health as a competitive advantage.
Growth in next 2 Years

- Australian hard rock
- Canadian hard rock
- USA Coal
- Use platform for other industries
- Social Riskgate

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Growth in next 2 Years

Human-Centred Design

★ Virtual and physical simulation
★ HCD tools and techniques
★ HCD training
Growth in next 2 Years

ASM / Mining + Health

✴ H&S training for ASM/SSM – regulator and SSMiners – help with creating H&S management plans for SSM – education; Ghana & PNG. ✴

✴ Mercury-free gold ✴

✴ Water-borne disease prevention ✴

✴ Community health and safety ✴
Growth in next 5 Years

✴ Risk management tools to optimise competing corporate objectives ✴
✴ Human-systems integration for successful implementation of new technologies ✴
✴ Real-time monitoring of ubiquitous sensors, links to production and maintenance ✴
✴ Mobile phones as a platform for ASM ✴ education