



THE PROVEN PROCESS

THE PROCESS

For each EMESRT initiative, the involvement of key industry stakeholders is actively sought and our mature engagement process, experience and flexible approach guides our work. The success of EMESRT is based on good relationships and a pragmatic industry-level approach that:

- Defines the landscape
- Identifies the stakeholders
- Influences industry level improvements

Simple, yet effective.

INTRODUCTION

EMESRT is a global initiative involving major mining companies that engages with Original Equipment Manufacturers to advance design in ways that improve operations and maintenance safety. EMESRT promotes a 'beyond standards and guidelines' mindset.

Established in 2006, EMESRT initiatives are globally recognised, from the Design Philosophies developed in 2007 to the Control Framework (CFw) Approach developed in 2019.

EMESRT maintains a narrow focus, prioritising and working on only a few industry-level high consequence opportunities each year to make genuine progress.

This approach underpinned by engagement with industry stakeholders are the basis of the proven EMESRT process.





ABOUT US

EMESRT is a global 'safety by design' initiative involving major mining companies that fill the functional expectations gap between customers and equipment designers.

Since inception, EMESRT has defined and applied a multi-company strategy of engagement with leading mining equipment Original Equipment Manufacturers (OEMs) in order to improve design operability and maintainability.

EMESRT is recognised for its unique process in initiating and influencing change in designs through engagement with OEM's, and has a global network of mining companies and interested individuals that share the 'one industry, one voice' common goal.

OUR VISION

A mining industry free of fatalities, injuries and occupational illnesses associated with operating and maintaining earth moving equipment.

OUR PURPOSE

Accelerate development and adoption of leading practice design to minimise the risk to health and safety through a process of OEM, contractor and user engagement.

OUR ENGAGEMENT PROCESS

The EMESRT engagement process is simple yet effective. This process has been developed since 2006 and after an initial trust building period, EMESRT has established a global, respected presence.

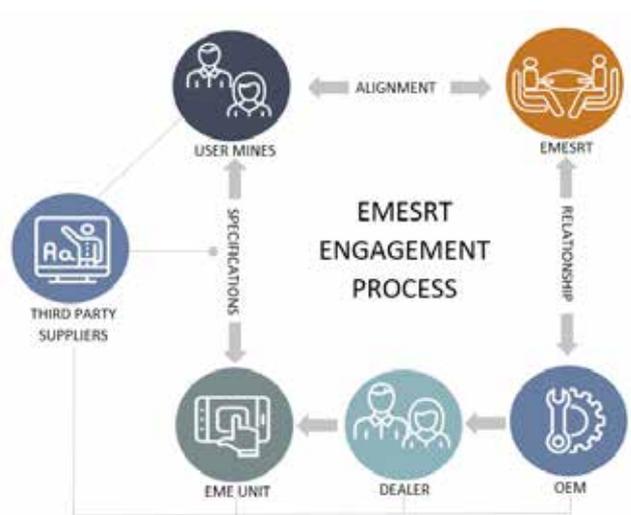


Figure 1: The EMESRT engagement process.

WHAT WE WILL AND WON'T DO

In scope, EMESRT will:

- Focus on design of earth moving equipment in surface and underground mines
- Provide aligned design expectations based on risk
- Involve interested companies in the industry
- Share openly with all interested OEMs
- Listen, consider and value OEM contribution
- Provide information on leading practice to OEMs
- Share leading practice to assist users in achieving health, safety and environmental compliance goals

Out of scope, EMESRT will not:

- Discuss commercial issues or anything of an antitrust nature
- Provide approval for OEM or third-party design
- Share OEM confidential information with other OEMs
- Impose adoption of solutions on member company sites

WHY BECOME A MEMBER?

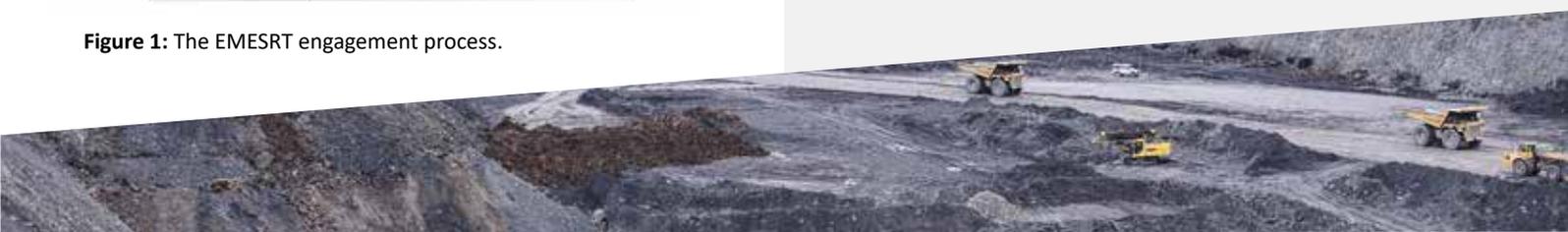
By becoming a member you can make a difference in accelerating the development and adoption of leading practice designs to minimise the risk to health and safety through industry engagement.

EMESRT has a two tier membership structure:

- Tier 1 - A voice at the Advisory Group table
- Tier 2 - Access to all EMESRT resources and involvement in all technical activities/working groups

Become a member and be a part of a unique global network leveraging and influencing at industry scale.

For more information on EMESRT membership please send an email to enquiries@emesrt.org.





Project 3: Develop and Apply the Control Framework Approach to Tyres and Rims Management and Equipment Fires

The Control Framework (CFw) approach is an approach that is aligned with Failure Modes and Effects Analysis, Human Factors and definition elements of the International Council on Mining and Metals Critical Control Methodology.

Applying the CFw approach produces a cross-linked hierarchical structure made up of:

- The few **Required Operating States (ROS)** that deliver business outcomes
- The **Credible Failure Modes** that can compromise the Required Operating States and interrupt the delivery of business outcomes
- The **Business Inputs** that support the establishment and maintenance of the required operating states through preventing of mitigation the credible failure modes

OUR CURRENT WORK

EMESRT's work is well recognised by the global mining industry. We engage, influence and facilitate health and safety improvements through communities of equipment users, OEMs, researchers and third-party suppliers. In doing this work, our first step is always to develop a deep understanding of issues and problems, before considering solutions.

Project 1 - Vehicle Interaction Control Improvement Project

An industry project to develop and implement an innovation resource and methodology for the systematic and practical improvement of vehicle interaction controls in mining.

“The Control Framework approach has been developed by EMESRT as a practical way to apply new control thinking.”

EMESRT Advisory Group.

State of play

In 2019, two new industry working groups have been formed to tackle:

1. Tyres and Rims Management
2. Equipment Fires Management

Industry experts from multiple organisations (mining and OEM) have come together to discuss and answer the hard questions surrounding incidents caused by tyres and rims and equipment fires.

EMESRT working groups meet regularly to ensure activities are on track and utilise an online project management tool to manage project timelines.

For more information on previous and current EMESRT initiatives please visit the EMESRT website (emesrt.org).

Project 2 - Human Factors Design for Diversity

An industry project to define design requirements that support employee diversity in mining plant operation and maintenance.

Improving earth moving equipment design can remove significant anthropometric impediments for establishing a more diverse mining workforce. These same design improvements can reduce the possibility of cumulative injuries for current operators and maintainers.

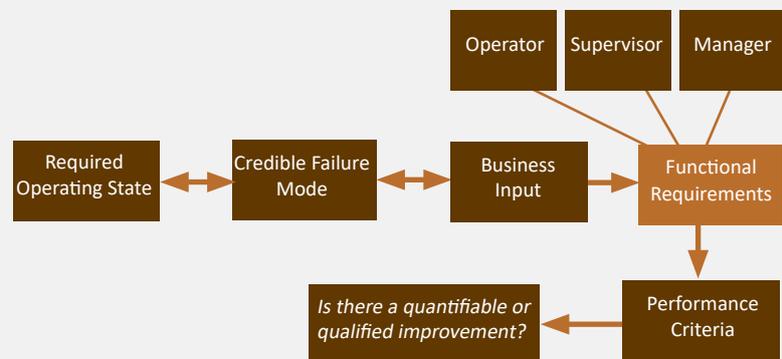
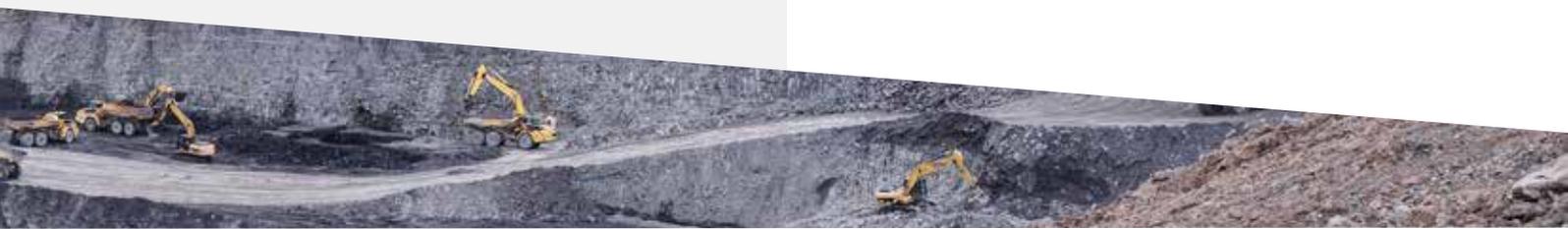


Figure 2: Functional requirements diagram.





OUR MEMBERS

EMESRT member company representatives actively promote the EMESRT engagement process at industry forums to a wide audience around the globe and have introduced resource materials developed by EMESRT to help understand the risks faced by operators and maintainers of earth moving equipment.

“EMESRT is not defined by member numbers, it is defined by the engaged experience and knowledge people bring to the table.”

EMESRT Advisory Group.



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