

# THIESS means operational technology



## Thiess is leveraging operational technology to forge a path towards safer, more efficient, sustainable mining.

The Thiess Remote Operation Center (TROC) is a centralized facility designed to remotely monitor, manage, and control mining operations. Utilizing Wenco Fleet Management Systems, TROC leverages real-time data analytics for intelligent fleet dispatching, enhancing decision-making and operational precision. It provides 24/7 oversight of equipment, production, and safety protocols across multiple sites, reducing the need for on-site personnel. TROC improves productivity, lowers costs, and fosters a safer work environment.



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### Improved operational performance

- Integrated multi-site remote operations, embedding best practice and standardizing control management.
- Fleet management systems that automatically optimize fleet allocation based on defined parameters.
- Real-time data insights, informing actionable performance outcomes in-shift.
- Long-term data storage allowing trend analysis, continuous improvement projects and future plannings.
- Accelerated technology adoption, with teams able to leverage prior learnings and established processes.

### Sustainable change

- Maximizes output per truck/resource
- Decreased rehandling and waste
- Improved ESG processes, with machine tracking and asset health monitoring

### Increased material compliance

Leading material and mine design compliance, with real-time payload tracking and stockpile allocation.

fact sheet

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## Case study

### Thiess Remote Operation Centre

In September 2023, Thiess launched the Thiess Remote Operation Centre (TROC) in Jakarta, Indonesia. Using leading technology, TROC supports fleet management at the Wahana and MSJ mines over 1,000kms away, improving efficiency and productivity of the mining fleet.

#### Benefits of fleet management systems include:

- 5.9% uplift in load and haul productivity
- 23hrs/month uplift in utilization per equipment
- 6.4km/hrs speed increase for truck
- 0.02 litres/BCM.KM fuel saved
- 45 second/cycle reduction truck queueing time.

#### Benefits of the TROC include:

- Efficient operation support minimizing people on site and improving safety.
- Improved communication with fleet management system engineers able to directly communicate with site using RoIP (Radio over Internet Protocol).
- Real-time interval control and decision-making dashboard to view operational performance (availability, utilisation, productivity and compliance).
- Standardization to scale with technology tailored and scalable for different projects with different needs.
- 20% increase in female participation.



## About Thiess

Thiess delivers sustainable solutions in open cut and underground mining in Australia, Indonesia, Mongolia and North and South America. Established in 1934, Thiess operates across diverse commodities, geologies, environments and cultures.

Thiess' success over the past 90 years is built on our commitment to listen and understand the business needs of clients so we can safely deliver value and certainty.

We partner with our clients to develop effective and sustainable solutions, leading ESG practices and strong community engagement. Our pioneering spirit drives superior performance in the face of any challenge, from autonomous mining and climate change to deep mining and reclamation.

Across our operations, safety underpins everything we do. We're committed to keeping everyone safe everyday by providing a workplace that's both physically and psychologically safe.



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