

# Haultrax

## Company Overview

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# HAULTRAX

## Company Background

### WHO IS HAULTRAX?

At Haultrax, we believe in challenging mining operational paradigms. Mining the way we ‘always have’ over the last decade has kept our industry in a state of productivity stagnation. Our aim is to achieve a more productive operating culture through working with your company’s people (skills and knowledge), processes and equipment.

The Haultrax offices are based in Brisbane and Perth. On the West Coast our team based in Perth locally supports the Pilbara, Southwest and Goldfields regions. On the East Coast our Brisbane team services the Bowen, Hunter Valley, Surat and Galilee Basin.



Figure 1: Haultrax Australian Offices

Haultrax (HX) assists customers with the successful identification, selection, planning, deployment and operational support of mining technologies (inclusive of mining safety and automation). From our direct mining operational experience with technology selection, deployment and implementation projects; we understand the importance of people and process change activities, to ensure the technology delivers its promised value, and is suitable and sustainable in the mining environment.

The HX team prides itself on being mining and production engineering specialists, focusing on improving safety, productivity and cost. We believe this is achieved through the application of technology, controlled processes and culture.

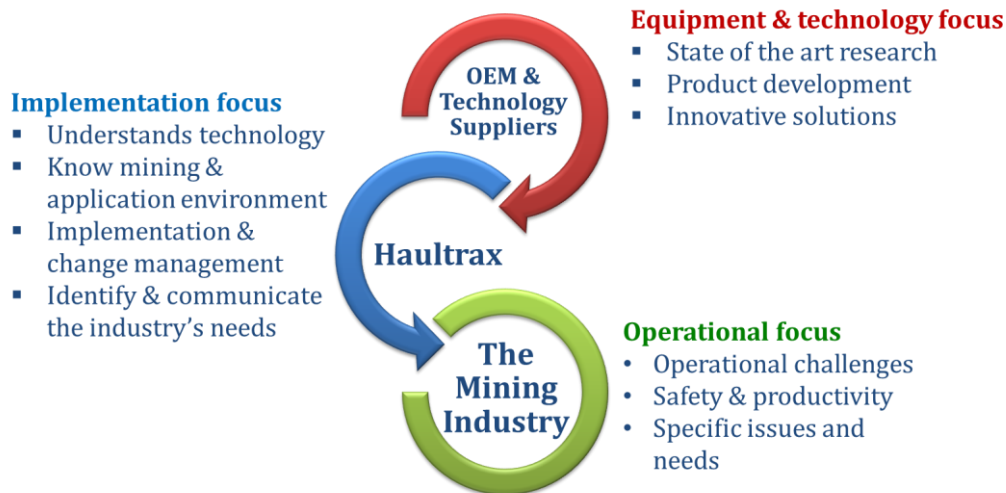


Figure 2: Haultrax industry position

Instances of Haultrax's previous work, which exemplifies this approach, is the implementation of CAS GPS product at BHP's Yandi, South Flank Operations and Mining Area C, Alcoa's Huntly and Willowdale mining operations. Through a direct technology and change effort, the operations personnel accepted the technology as it improved the safety of their working environment. Customer feedback that we have received place this particular implementation as one of the best applications of technology, acceptance and use that we as a company have seen in the industry.

## COMPANY OBJECTIVES & FOCUS

Our company objective is:

*To be the renowned and preferred value delivery company for mining customers*

We will achieve this through providing our services to help customers with:

- Strategy, evaluation and selection of the right technology
- Operational readiness, implementation and change management
- Productivity improvement through deep data analysis targeting process variability

As a team we pride ourselves on being mining and technology specialist – focussed on safety, productivity and cost.

## HAULTRAX DIGITAL

Haultrax specialises in mining technology. We are considered leaders in business readiness and change/implementation execution when it comes to mine automation and productivity. Our breakthrough area is new age mining productivity applications – particularly challenging the stigma of complex and costly FMS solutions.

Haultrax's fresh take on mining productivity applications focuses on simplicity, putting information and insight into the hands of the frontline. Our applications have a powerful, innovative and scalable backend built with today's technology.

Combined these elements empower operational decision makers to drive productivity.

In our Digital division (where our applications are created) the core principles behind the development of our solutions are:

1. Right information at the right level of the business – not just data
2. Today's technology at an effective price point
3. Integration to the various sources of our Customer's data/systems.

For us it's how we can work with our customers to ensure they are getting what they need out of our applications and service to improve their operational performance, rather than providing a piece of technology and leaving the customer/operation to their own. We pride ourselves on our customer service and delivery.

Haultrax Digital products and services include:

- Fleet management and productivity applications
- Custom development of features and applications
- Support of operational technology – on site and from service hubs on East & West coast of Australia
- Advanced analytics and business improvement services
- Technology and implementation and change management services

## HAULTRAX DIGITAL APPLICATIONS

Our applications allow our customers to effectively manage their fleet and provide value business intelligence and analytics to improve their operation. Our applications are:

- FleetControl – dispatching application for mining operations
- FleetOps – productivity reporting application
- Cycle Time Efficiency – targeting haulage cycle variability and speed

### FleetControl – Time, material and activity tracking simplified

Haultrax Digital have challenged how traditional fleet management and dispatching systems work by building a lightweight, mobile and highly customisable alternative, removing barriers to entry in the process.

FleetControl is a modular tool that compounds the value of FleetOps, turning a fleet reporting tool into a fully functional fleet management system using a simple screen for live time, activity and material tracking.

<https://haultrax.com/digital/fleetcontrol/>

### FleetOps – Measure, report, improve

FleetOps provides your operation with accurate production and cycle data, created using smart logic without the need of operator input. Allowing you to trust the data, digitise your business and reduce frustrations.

<https://haultrax.com/digital/fleetops/>

### Cycle Time Efficiency – Highlighting opportunities you didn't know existed

Cycle Time Efficiency (CTE) allows you to see areas of congestion, underperforming trucks, and the impact of light and ancillary vehicles on the production cycle. Our AI can rationalise and generate decision information on how to best reduce variability.

<https://haultrax.com/digital/cycle-time-efficiency/>



## HAULTRAX CONSULTING

Haultrax also specialises in mine automation and technology implementation for customers in the mining industry. Our personnel have extensive experience in surface mining automation projects; having planned, procured, deployed, managed and operated autonomous haulage and drilling operations for large-scale mining companies since 2008.

We offer consulting services in automation implementation (autonomous trucks, drills and dozers) from concept studies, pre- and feasibility (including RFP), through to operational readiness, deployment and operational improvement.

Specifically, regarding the requested services, we provide an end-to-end service on feasibility studies to operations. Haultrax's resources are proficient in all the following areas of what studies require:

- RFP – Developing requirements, analysing responses and completing the financial analysis
- Mining & operational strategy
- Training strategy – Training design and needs analysis
- People strategy – Organisational structure and role design to support autonomy
- Technology integration strategy and plan
- Community and external relations strategy assistance
- Commercial Stream – Key performance indicators, benchmarking and budgets
- Business case analysis – Full NPV analysis
- Communications strategy
- Operational & safety system risk assessments
- Project management plan for Department of Mines – Queensland and Western Australia
- Mine design, layout and infrastructure review
- Operational procedures and processes
- Operational and maintenance tactics