

Mining automation on **your** terms

▶▶▶▶ Are you ready to access the benefits of automation?

Whether you see the most value in automated haulage, stockpile management, water trucks, light vehicles, or any other asset, Auto-mate's interoperable and scalable technology provides a cost-effective means to access the benefits of automation.

We make automation accessible to all mining operations, no matter the size or level of sophistication.



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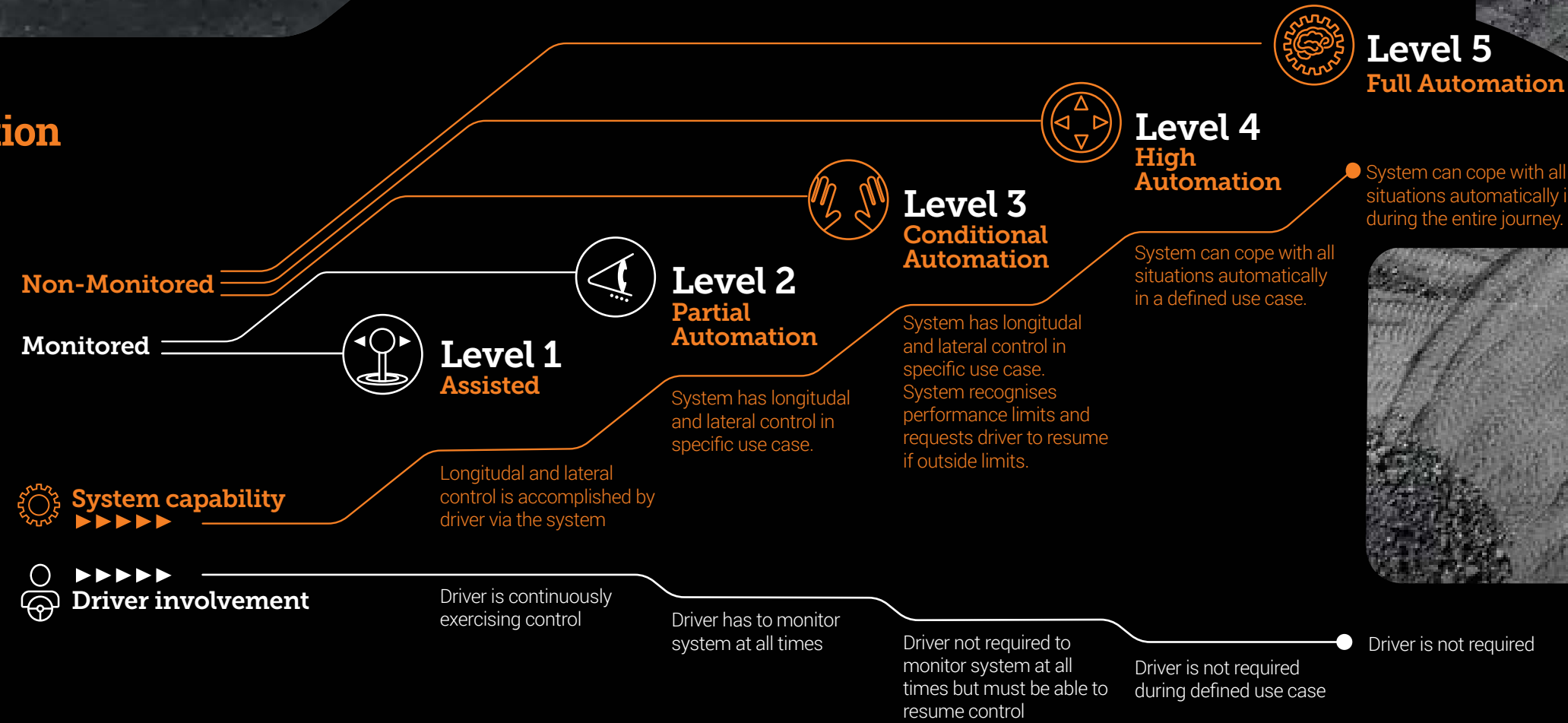
auto-mate

▶▶▶▶▶ Come with us on your path to automation

There are significant safety and productivity improvements to be gained, and value to be accessed, no matter what level of automation you choose.



▶▶▶▶▶ Levels of automation



▶▶▶▶▶ Everything talks Open Architecture means everything can talk to each other regardless of existing TMS, or make, age and model of vehicle



Where will you gain the most value from automation?

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Haulage and Convoys
Mining companies are reporting **30% productivity increases*** from automated haulage. Whether you're looking at automated haulage or platooning solutions, your articulated trucks, prime movers or dump trucks may be automated to support you in achieving similar benefits.



Dust Suppression
Dust is an ever-present challenge for many mine sites across Australia and globally. Watercarts are the most commonly used solution and ideal for automation due to their following the mapped haul roads. Regardless of the fact that the mine maps are frequently altered, automated watercarts can provide significant benefits in terms of safety, efficiency and machine maintenance.

Stockpile Management ▶▶▶▶▶
Safety is a priority for all mining operations. Automation of your dozers for use in stockpile management removes the operator from the area of most risk with the ability to operate the dozer either using remote control from a safe area, or with the implementation of a fully autonomous solution where operation is based on a predefined mission.



Berm Clearance ▶▶▶▶▶
Imagine driving a dozer to the very edge of a berm to remove rock debris and ensure vehicles can pass safely along the berm path - frightening at the very least, and a real safety concern for most operators. Removing the person from the dozer and the area of risk is the ideal solution, together with minimising the risk of damage to the dozer with automated alerts and virtual safety barriers.



Automated Drilling ▶▶▶▶▶
Repetitive processes are ideal for automation, and for those that require a high level of consistency such as blasthole drilling, automation is perfect. The ability to predefine the blast parameters around hole placement and depth, for example, ensures the blasting procedure is coordinated and accurate, and personnel are safely positioned away from the area.



*FMG reported a 30% increase in productivity from their autonomous haulage fleet in Oct 2020



The Auto-mate difference



- We provide **automation on your terms**. We ensure that the deployment of your automation technology solution is driven by your business outcomes, and not technology development path.
- **The open architecture** of our technology solutions allows interoperability with existing systems and mixed fleets. This lowers your risk and implementation costs while providing visibility across your mining operation with shared information.
- **We automate your existing heavy mobile equipment** regardless of make, age or model - negating the need for new assets and the associated high capital costs.
- **Data generated from the assets belongs to you**. Your data can be used for process and operational improvements at your operation.
- **Our smart technology provides situational awareness and deep machine learning** through systems and sensors embedded on the vehicle – delivering truly smart, automated vehicles with safe and localized decision making.
- Smart automation embedded on the vehicle **minimises data transfer** between the vehicle and control room, with associated cost benefits.
- **Should communications be temporarily lost, the vehicle can keep operating** in order to “complete its mission”, thus avoiding any loss of productivity or delays due to downtime.

Our customer commitment

▶▶▶▶▶ You can rely on Auto-mate

Our joint venture partners, Bis and Israel Aerospace Industries have the valuable expertise and experience to support Auto-mate in providing relevant automation solutions to all our customers, globally. Our technology has been developed by world class experts in robotics and automation with over 70 years of global, advanced engineering capability. The technology has been applied to over 100 assets across 35 asset types and are operational in remote and harsh environments. We have over 100 years' operational experience in the resources sector, delivering innovative logistics, site services and equipment solutions.

Customer Commitment: auto-mate

Mandate on Safety

Our focus and ethos that will enhance your project, people and capability to achieve beyond industry expectation

Attitude to Productivity

Enabling solutions that liberate value cross our customers' value stream

Technology Platforms

Platforms that are continually defined and refined to push the boundaries of industry norms to achieve beyond expectation

Excellence in Operation

An ability to work in any operating environment with predictability, reliability and responsibility

Speak to the Auto-mate team



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mining automation on **your** terms



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