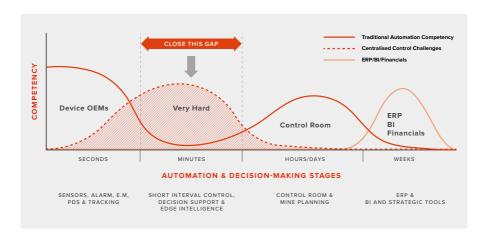


Introduction to MineZone

Challenges in Traditional Mining Automation

The mining sector has long grappled with challenges posed by legacy industrial automation systems. These systems hinder real-time, actionable intelligence and fail to leverage the full potential of modern technologies.

Mines face obstacles such as limited scalability, lack of critical local functions, and extended downtimes due to centralised control vulnerabilities.



How MineZone works

MineZone is built on the revolutionary BASE industrial automation architecture, and represents a game changing departure from traditional automation approaches. It is an agent-based, distributed automation platform that emphasizes scalability, OEM interoperability, and seamless integration of humans and machines.

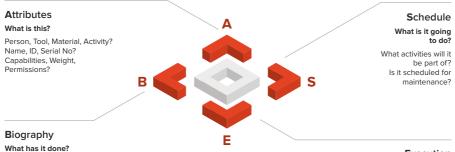


A MineZone is sustained by a multimodal network of communication strategies, and its unique architecture allows for selforganising machines, sensors and personnel. This enables IoT and edge intelligence independent of network connectivity

Inside MineZone: Explaining BASE

BASE separates future, present and past data

BASE seperates what something is, from what it's doing.



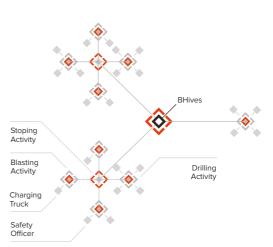
What activities was it part of? How many cycles has the machine done? What was this worker exposed to?

Execution

What is it doing?
Where is it? What's the gas concentration?
What is it working on? What's the job progress?

MineZone Automation





BASE resources are drawn to and linked by the activities that need them.

A fractal control hierarchy is formed by activities and sub-activities

MineZone BHives create their own communication network anywhere, detecting and managing all machines, sensors, and personnel as resource or activity agents in a self-organizing control hierarchy. True edge intelligence.



Value Creation with MineZone

Decentralised Intelligence and Real-Time Decision-Making

MineZone enables seamless OEM interoperability and system integration. It offers resilience and automation at the edge, reducing downtime and increasing operational efficiency and situational awareness.

Get in Touch

For more information on how MineZone can revolutionise your mining operations, contact us at:

Measurable Impact

Reduced time to value Improved utilisation and responsiveness Reduced risk and enhanced safety Optimised hands-off, eyes-off automation Increased network independence and resilience

Metal Management Solutions

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