



Association of Equipment Manufacturers

Mine Automation and Emerging Technologies
Health and Safety Partnership | 09.15.2022

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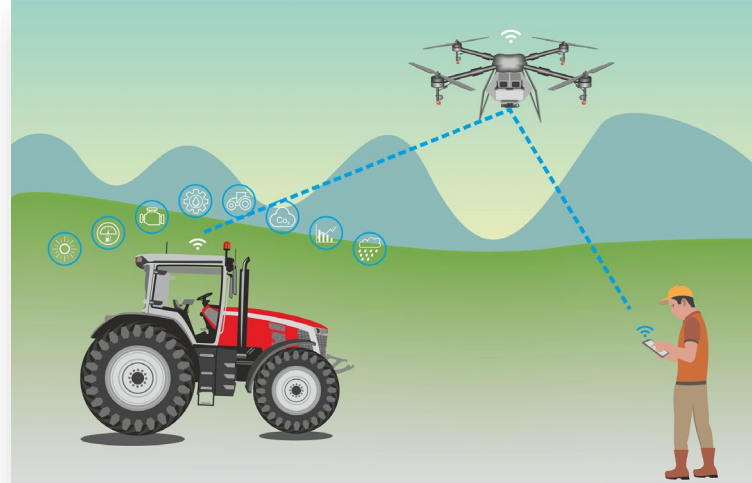
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**| Interoperability: M2X
communication and
safety.**



What Is Interoperability?

Interoperability means “the ability of computer programs or systems to exchange information”.



A Need for a Universal Solution

Some of the main requirements for such a solution include:

- A universal (or: open) system that provides an overview of all the different types and brands of robots
- A common interface for different features such as traffic control and navigation
- An easy-to-use management system for allocating tasks
- Data analytics for optimization purposes
- Leveled control of third-party robots



An open and interoperable ecosystem

- By manufacturers designing solutions in compliance with ANSI/ISA-95 and ISO standards for autonomous interoperability, users avoid vendor lock-in and have the freedom to choose technologies from preferred vendors independent of their fleet management system.
- The key capability of Interoperability creates simplified connectivity between systems to reduce operational silos, enabling end-to-end visibility and control. End users can connect autonomous equipment from multiple vendors into existing fleet management and operations infrastructure.





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