



Ground  
Positioning  
Radar



# WAVESENSE®

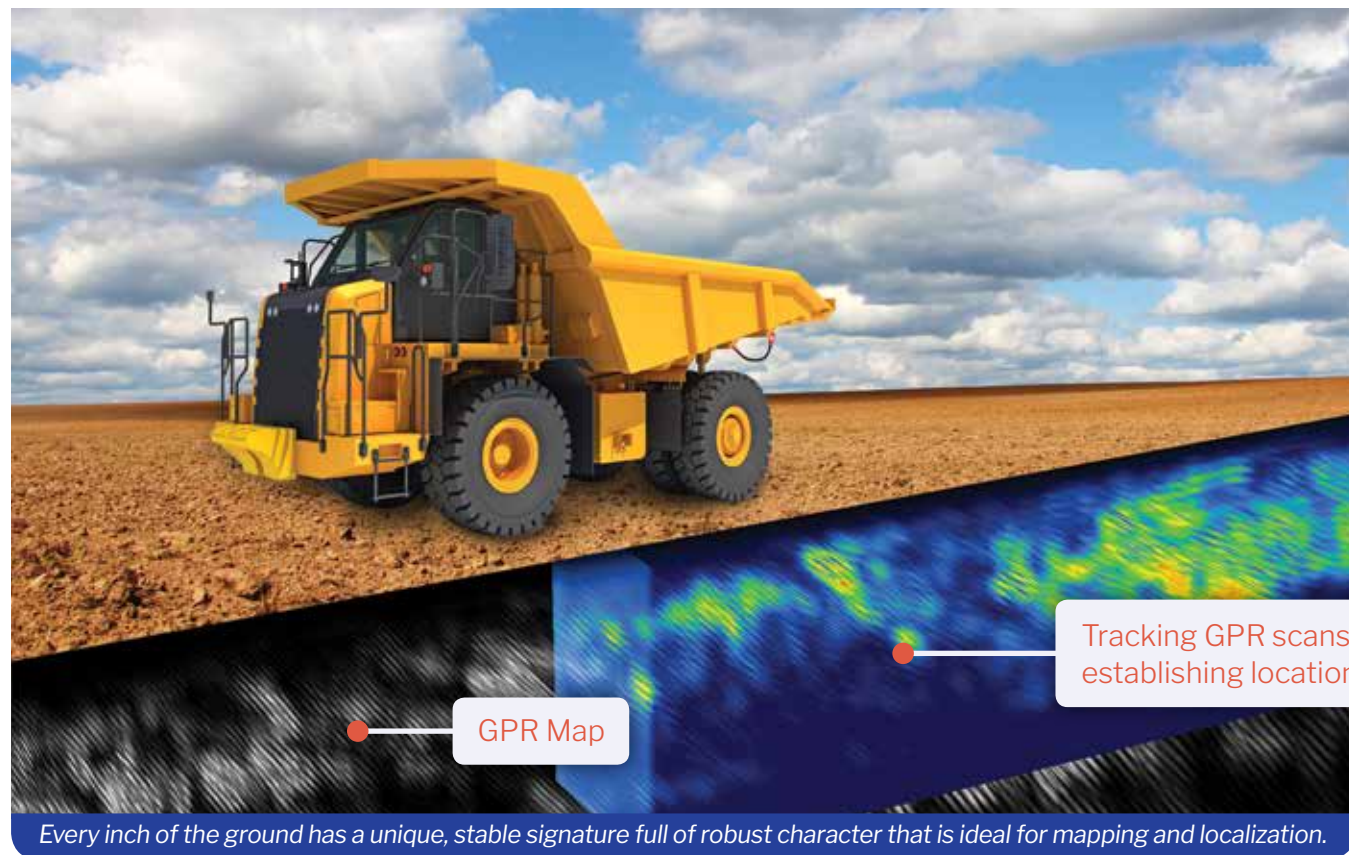
Uninterrupted Positioning for  
Autonomous Mining



# EMPOWERING MINING OPERATIONS WITH UNPARALLELED LOCALIZATION AVAILABILITY

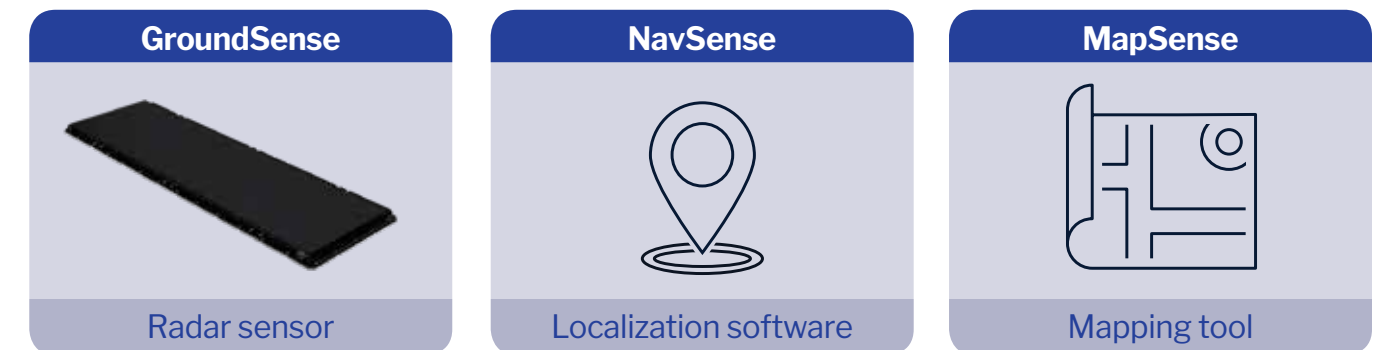
Mining operations rely on autonomy to enhance efficiency, productivity, and safety. These systems depend on sensors that must withstand harsh conditions and nature's elements. However, when the autonomy system fails and halts operations, it can become very costly.

A common failure is due to loss of localization. This is where GPR's WaveSense technology comes to the rescue. Resilient to the harshest conditions and sensor buildup, and unaffected by ionospheric scintillation, WaveSense promises reliable and uninterrupted operations.



WaveSense uses subsurface data to create a 3-D map of subterranean features, ensuring vehicles maintain precise positioning even in the most challenging conditions. The result? A notable increase in productivity, significant cost reductions, and enhanced safety.

# GROUNDBREAKING AUTONOMY FROM GROUND POSITIONING RADAR



### Resilient to Ionospheric Disturbances:

Not affected by ionospheric scintillation, WaveSense localization remains reliable, ensuring precise positioning and continued operations



### Uninterrupted Productivity:

Greater localization availability leads to greater autonomous uptime, regardless of environmental conditions



### Increased Safety:

Consistent positioning in autonomous vehicles reduces the risk of accidents caused by localization errors, making the site safer for everyone



### Greater Fleet Output:

Increased uptime optimizes fleet utilization, maximizes schedules, and ultimately amplifies overall fleet output



### Affordable Maintenance:

Modular design for rapid installation, lean computing budget, and low power consumption provides further cost advantages



# UNEARTHING THE FUTURE OF AUTONOMY



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