

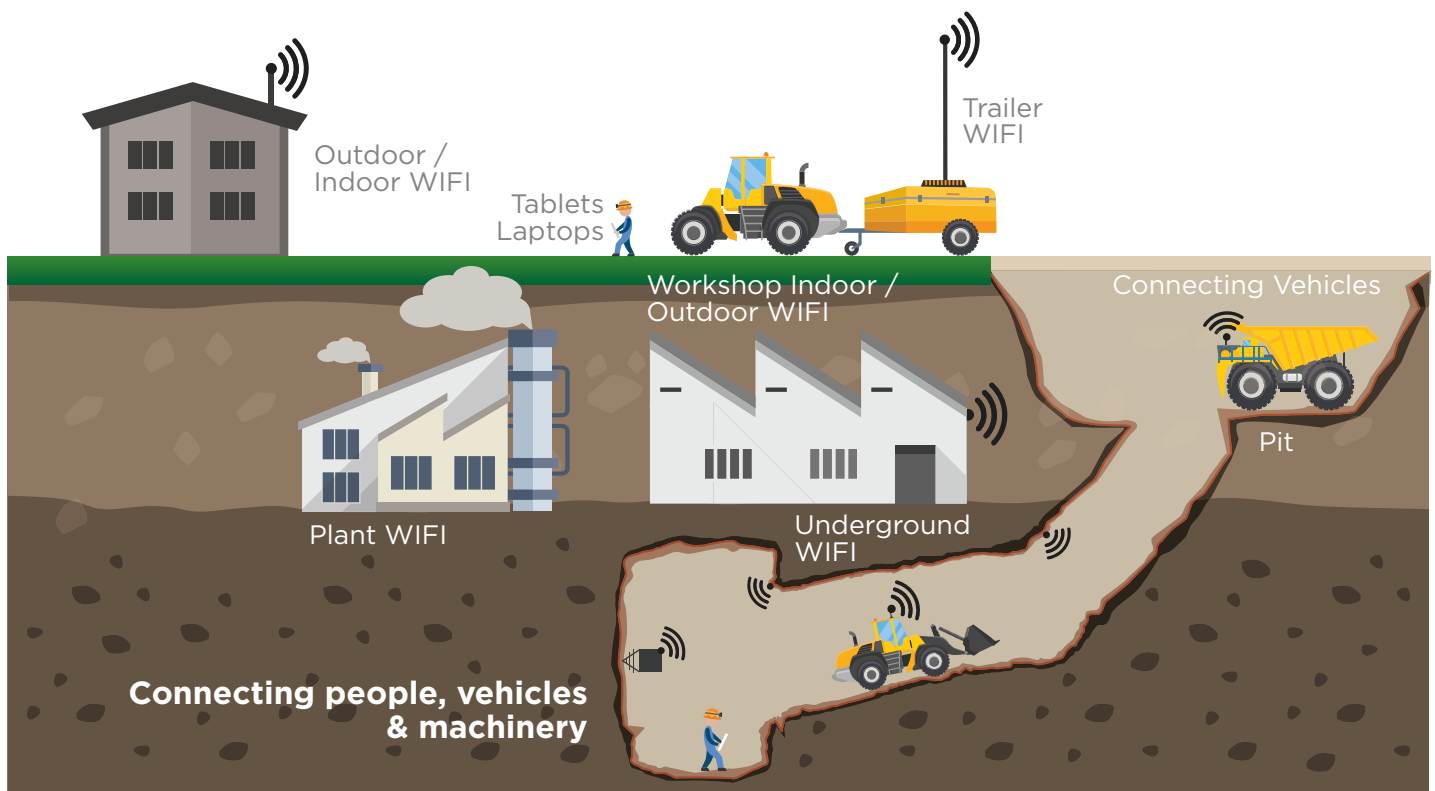


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# WIRELESS MINING BROCHURE

## WIRELESS CONNECTIVITY AND NETWORKING SOLUTIONS FOR THE MINING SECTOR

Often spread over large geographical areas, mining operations can be plagued by communication system issues. In the highly competitive mining space, this can have a negative impact on operational profitability and sustainability. A wireless communication network is the ideal solution for the mining environment as it eliminates the costs normally associated with laying of network cables.



A wireless network is the first step in facilitating complete automation and monitoring on mines. A wireless network allows you to connect mobile devices and monitoring systems on conveyor belts, security and vehicles throughout the mine. This helps to increase productivity, ensure employee safety and streamline the health & safety reporting process.

**SS Telecoms offers bespoke solutions that will provide mining operations with an agile communications network that addresses the following challenges:**

- The need for mobility in remote, harsh, and often hazardous locations. Trailers equipped with solar powered networking equipment can be easily and quickly moved to where it is needed.
- Increasing demand for bandwidth-hungry applications. SST designs the solution according to current needs and allows for future growth with rapid and flexible deployment.
- Initial support for temporary communications and thereafter as the primary communication tool for increased mine productivity.

**SS Telecoms offers:**

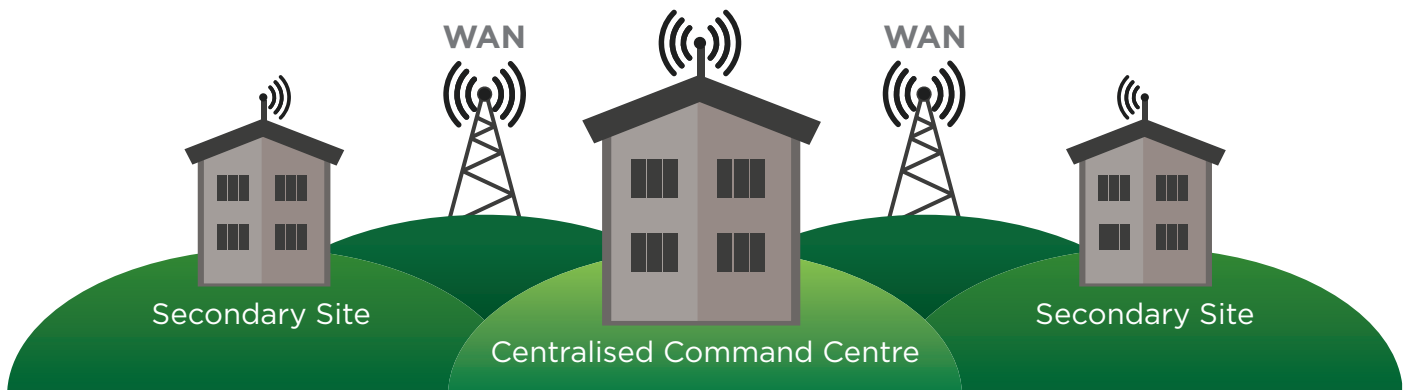
- **Scalable wireless WAN infrastructure** that allows data and information to be transmitted from various mine sites to a centralised command centre. This is the backbone of the entire network solution.
- **Fixed/mobile wireless access** from each of the mine sites connected on the backbone. The network can be extended wirelessly throughout the mine, to connect vehicles, mobile devices, surveillance cameras, machinery sensors and fixed devices.

# Keeping the entire mining operation connected

Rapidly deployable, SST's standard or intrinsically-safe fixed wireless networks are designed to support the mobile applications required on constantly altering mine site topography. They offer a number of game-changing benefits:

- Agility
- Durability
- Flexibility
- GPS synchronisation for seamless scalability and minimal interference
- High capacity usage
- High throughput in noisy environments
- Manageability
- Reliability
- Scalability
- Security.

Wide Area Network ← WAN LINK, connecting all sites together to have 1 network



We can also provide internet at each site

SST's networking solutions are suitable for the following open pit and underground mining applications:

- **CCTV surveillance**
- **On-campus applications**
- **Monitoring of:**
  - Slopes
  - Water pipes and water levels in dams
  - Mine vehicles
  - Machinery
  - Conveyor belts
  - Ancillary equipment such as generators

Let us help you build a secure and efficient network

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