

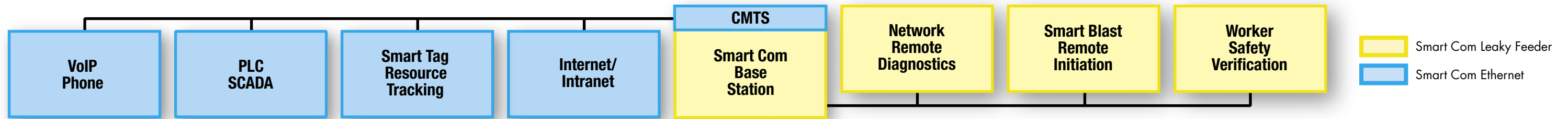
# SMART COM

ETHERNET LEAKY FEEDER SYSTEM



Complete Underground  
Communications.  
One Network.

**VARIS**  
SMART UNDERGROUND COMMUNICATIONS



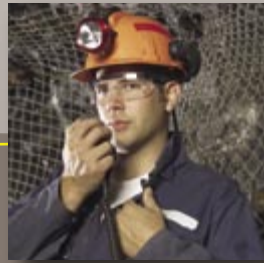
Over 1000 km of Smart Com networks are currently operating on six continents.

Install CMTS and cable modems to add high speed Ethernet capability.

Automated wireless data capture (vehicle health, load weighing, inventory control, etc.)



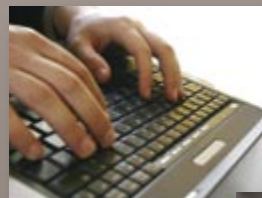
Wireless and wired PLC/SCADA control and monitoring



Multiple channel two-way PTT voice communication

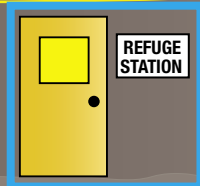


Wireless and wired video monitoring using inexpensive IP cameras

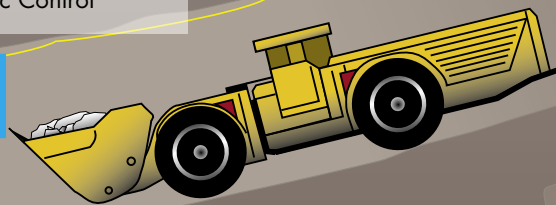


Wireless and wired access to Intranet and Internet

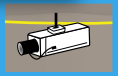
Wireless and wired VoIP telephones



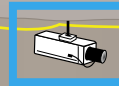
Traffic Control



Varis Smart Blast Remote Blasting



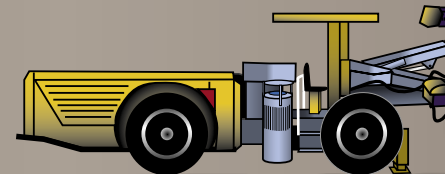
Varis Smart Com Amplifier



Varis Smart Tag Resource Tracking & Worker Safety Verification systems



Teleoperation using IEEE 802.11b/g/n controller

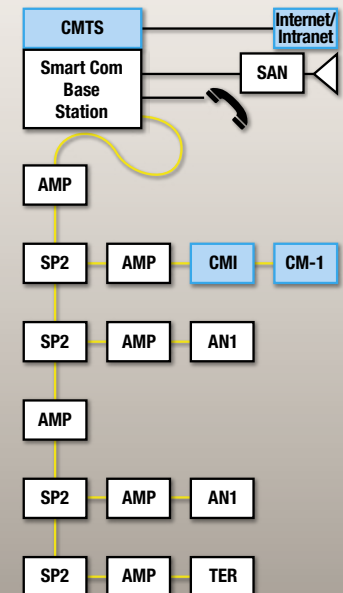


Smart Com is compatible with most existing Leaky Feeder systems.

Smart Com Leaky Feeder  
Smart Com Ethernet

### Basic System Layout

- RNG-500 Leaky Feeder Cable
- RNG-501 MSHA CE Cable
- AMP Smart Com Amplifier - 500m spacing
- AN1 Smart Com Stope Antenna
- SP2 Smart Com 2-way Splitter
- SP3 Smart Com 3-way Splitter
- TER Smart Com Termination
- SAN Surface Coverage Package
- CMI Cable Modem Interface
- CM-1 Cable Modem, 4-port Router, 802.11b/g Access Point



## Easy, Reliable and Cost Effective

Smart Com Leaky Feeder antenna cable and amplifiers are installed wherever communication is required. Connect industry-standard cable modems and networking equipment to create a high speed wired or wireless hotspot. Installation is quick, easy, and inexpensive. The network is automatically monitored and emails are sent when problems are detected.

Smart Com is backed by Varis' industry leading unlimited 2-year warranty that covers all failures. Smart Com's reliability stems from its extreme user-friendliness. Rugged terminal lugs make installation fast, easy and reliable. Easy to understand Local Diagnostics and networked Remote Diagnostics set Smart Com apart.

Varis and its Distributors maintain a team of experienced engineers and technicians ready to help you with your communication and automation needs. Tell us your requirements and let us do the rest. We offer complete turn-key packages including design, installation, training and on-going support contracts.

Reliable performance and outstanding support have resulted in Smart Com becoming the underground network of choice for mine/tunnel operators such as Barrick, BHP Billiton, Falconbridge, INCO, Newmont, Peñoles, Placer Dome, Stillwater, J.F. Shea, Kiewit and the City of Edmonton.

## Smart Com Specifications

	Smart Com	Smart Com IS (Intrinsically Safe Ex ia)
Guaranteed noise free voice channels	16	
Guaranteed voice coverage	30 metres	
TCP/IP data rate, downstream/upstream (optional)	54/41 Mbps	
Amplifier spacing	500 metres	
Amplifier Local Diagnostic LED's	DC OK, RF low, RF OK, RF high	
Network Remote Diagnostics	Webserver - 50 clients Automatic notification by email	
Power supply spacing (nominal)	8000 metres	4000 metres

Compatible with most existing Leaky Feeder systems.



# VARIS

## SMART UNDERGROUND COMMUNICATIONS

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