

see smart® Mine & Gallery

Advanced cost-effective solutions for mines & galleries
based on



Critical
Comms



Geolocation



Voice Alert



IoT



High Rate



Innovative approach of bringing reliable radio coverage to mines & galleries. It is a perfect merge of technology and smart solutions that secure all the underground operations.

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Innovative solutions for cost optimization of underground mines & galleries

see smart® Miles & Galleries

See smart® Miles & Galleries is an innovative concept of bringing reliable radio communication systems to underground mines and galleries. Having a stable radio connection is essential, as in case of crises and accidents the risk of human death and asset loss is enormous.



Smart solutions for mines

The see smart® Mines & Galleries approach offers integrated solutions for all radio communication assisted topics. The **leaky feeder**, as the central carrier for critical communications, enables further technological migration and becomes the backbone for broadband communications inside underground mines and galleries. SEE Telecom's systems are easy-to-install and based on our experience significantly save installation and operating costs.

Security management

SEE Telecom's see smart® Mines & Galleries solution is created with the main goal to increase workplace safety and productivity. Underground mines are very dangerous confined spaces where hundreds of people and huge equipment work every day. In case of accidents, the probability of human disaster and asset loss is extremely high. The see smart® Mines & Galleries approach ensures the prevention and management of incidents, with an obligation to secure property and people in case of accident.


Facility management

It's imperative to have an efficient radio communication system inside mines and galleries in daily work, as it is the most effective way to control all the operations taking place inside the infrastructure, as well as to guide the co-workers if necessary and reduce irrational and oftentimes dangerous panic decisions which are a direct threat to human security.

Preventive Maintenance

Advanced technologies allow the early detection of any potential danger in mines and galleries, which notifies the operating team and gives them the necessary information and time to take the required actions. Thus, they are able to act proactively and avoid possible accidents and breakdowns, reducing the risks to zero.





Next generation radiocommunication brings Voice and Data for advanced services

IoT Networks

With IoT-based preventive maintenance solutions, which include gas sensors, humidity sensors, presence indicators, smoke detectors, sensors on the equipment of workers, etc. the mine operating teams will be able to anticipate the possible malfunctions in the very early stages, take necessary measures and therefore eliminate the consequences.

Geolocation

Implementation of the newest technologies in radio communications and the real GNSS signals (GPS, GALILEO, BeiDou, GLONASS), which are compatible with all standard devices in underground mines, allows us to make them more smart and safe. Depending on the configuration, we can reach high accuracy from 100 m to 10 m, being able to localize objects correctly and find lone workers.



Reliable critical communications

In case of intervention, internal emergency services need a robust and reliable radio coverage system to communicate inside underground mines and galleries and coordinate their actions in the most efficient way.

High Rate Radio Access

Based on a 4G LTE core SEE Telecom's systems allow operators to make voice calls, group calls, and digital conferences. IP technology allows you to connect to the infrastructure or site data server to exchange documents, view web pages for third-party applications, image uploads, etc.

Voice Alert

In case of any danger inside underground mines and galleries, the staff has to be informed immediately. When an emergency occurs, all the users get notified about the danger via emergency communications as AM / FM/ DAB Break-In and Public Address. Thanks to the insertion of emergency messages, the workers will get timely instructions and the evacuation guidelines.



Center Of Competence Smart Tunnel

SEE Telecom is an R&D driven company. The modern facilities in Nivelles are being developed into a Center of Competence for Smart Tunnel Technologies, a place where innovations are integrated and tested before being introduced to the market.

With VHF, UHF, and TETRA Repeater Technology still at the core of the SEE Telecom Portfolio, none of the solutions jeopardize the functioning of the Security Communications Network, used by tunnel operations, maintenance, and inspections services on daily basis, as well as Police and Fire departments in case of incidents and essential for saving lives.

see smart® solution range



Some references

- Greece : Artemisio, Kalogeriko, Sterna, Ko-Pa
- France : A8, A86 Duplex, A89, Mont-Blanc, Northern Ring of Lyon, Grand-Mare, Saint-Béat
- Belgium : Brussels, Flanders
- Germany : Europagarten
- The Netherlands : Westerschelde
- Switzerland : Marcolet, Cheseaux, Neuchatel
- Spain : Ezcaba, Bracons, La Codina
- UK : Tyne Crossing
- Luxembourg : Motorway A7, Micheville
- Norway : Kivsvveien, Tinnsjoveien, etc...
- Poland : Martwą Wisłą (Gdańsk), Gliwice
- Slovenia : Jasovnik, Ločica
- Chile : Costanera Norte Santiago
- Vietnam : Hải Vân Pass 1 & 2
- UAE : Saadiyat
- Colombia : La Linea, Oriente

Service level agreements

The availability of telecommunication system is fundamental during operation of infrastructures or during construction phase. SEE Telecom proposes Service Level Agreements with preventive and corrective maintenance to protect against any failure and damage. We are able to connect systems through a secured VPN to offer to our customers best-in-class technical support.



Worldwide presence



SEE Telecom has a worldwide network of local offices or official partners chosen for their professionalism and high skills. They have regular training sessions on our equipment and are perfectly able to design, install, and support customers needs with the best efficiency along with the project and life of the systems.



About SEE TELECOM

SEE Telecom is a world leader in the provision of scalable, flexible, user-friendly, and cost-effective systems for multi-services radio coverage inside confined areas to enhance safety and facility management. Since 1999, SEE Telecom has equipped more than 1000 km of road tunnels, railway tunnels, and metros all over the world. SEE Telecom solutions are available worldwide through an exclusive network of partners.

Your authorized local partner :



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