



SMART SAFETY FOR UNDERGROUND WORK

wise
SAFETY CENTRIC

FRENCH LEADER IN UNDERGROUND TUNNEL SAFETY SOLUTIONS

Innovating for the safety & efficiency of underground projects worldwide.

WISE Safety Centric was founded following a serious fire incident during a routine digging operation. This is when an urgent need for a smarter, faster, and more reliable safety system for underground worksites was revealed.

WISE Safety Centric was developed as an all-in-one solution that integrates a wireless fire alarm system, communication network, data integration, counting and localisation. It also contains a built-in crisis management tool that streamlines the rescue process.

Designed to remain operational and maintain communication even in the event of partial destruction.

Today, WISE Safety Centric continues to innovate, driven by a commitment to safety excellence, operational efficiency, and security for all who work underground.



20+

YEARS OF
EXPERIENCE

600

SYSTEMS INSTALLED
WORLDWIDE

260_{KM}

TUNNELS
PROTECTED



2013

CHILE

- El Teniente,
Mine : 18 km

2014

QATAR

- Doha Mega Metro
Project, Red Line
South : 15 km

RENNES

- Metro Project
Line 2 : 14 km

2018

FRANCE

- Grand Paris Express,
Ligne 15 sud T3C : 8,1km

- Grand Paris Express,
Ligne 14 sud GC02 : 4,8km

- Grand Paris Express,
EOLE GC-TUN : 6,4 km

2019

THE NETHERLANDS

- Leyden, Rinjland
Road COMOL5 : 4,4 km

SWITZERLAND

- CERN P5 : 400 m



2020

FRANCE

- TELT Les Puits
d'Avrieux : 7,4 km

NEW ZEALAND

- City Rail Link : 7,2 km

2021

FRANCE

- Grand Paris Express,
Ligne 18 Lot 1 : 12 km

UNITED KINGDOM

- HS2 N1 & N2 : 14 km

2022

FRANCE

- TELT Lot 2 : 57 km

2025

DENMARK

- Femern Road & Rail
Tunnel : 100 km



CASE STUDIES

With projects worldwide, WISE Safety Centric is a leader in underground safety solutions.

We combine industry expertise with innovative engineering to protect workers even in the toughest environments. Our underground safety systems are tailored to meet each site's unique demands, ensuring safety is never compromised.



CASE STUDY 1

DOHA METRO – RED LINE SOUTH

A 13.8 km underground metro line connecting Doha Airport to Msheireb.

Featuring five stations, 32 safety cross-passages, and five emergency shafts.

WISE Safety Centric was implemented to ensure safe tunneling, effective water control, and minimal disruption for 3,000 workers over five years.



CASE STUDY 2

LYON – TURIN RAIL TUNNEL

A 57 km twin-tube tunnel linking Saint-Martin-la-Porte and Modane, France.

Featuring 71 safety tunnels and several galleries, built over five years.

WISE Safety Centric supported the safety of over 1,600 workers, managing tunneling risks and maintaining secure excavation across complex geological conditions.

CASE STUDY 3

FEMERN ROAD & RAIL TUNNEL

A precast segmental immersed tunnel, linking Denmark and Germany, featuring five separate 20 km lanes for road and rail traffic.

Includes the immersed tunnel, prefabricated plant, and access ramps and bridges.

WISE Safety Centric provided a system for risk management and operational safety in one of Europe's largest infrastructure projects.



UNDERGROUND TUNNEL SAFETY, ONE SMART DEVICE

Communication, Fire Detection, Data
Integration, Counting & Localisation, and
Built-In Crisis Management — All in One.



FIRE HAZARD ALARM

MANUAL ALARM TRIGGER

Easily accessible
emergency push-button
for immediate activation

INTEGRATED

AUDIO-VISUAL ALERTS

High-intensity sounder
and flashing beacon

BLAST WARNING SYSTEM

Warns of scheduled
blast activity

NETWORK COMMUNICATION NODE

Integration with your
primary fire alarm network
infrastructure



COUNTING AND LOCALISATION

ACCURATE POSITIONING

Tracks individuals and assets by area in real-time

ZONE-BASED MONITORING

Live headcounts and zone-level access visibility

SMART ALERTS

Notifications based on time of presence or restricted area entry

DATA LOGGING AND ANALYTICS

Records of movement data and reports

INSTANT TAG SEARCH

Locates any tagged person or object within seconds



COMMUNICATION NETWORK

IP COMMUNICATION SYSTEM

Supports high-quality video calls, radio, and wireless phone communication

PUBLIC ADDRESS INTEGRATION

Broadcasts instructions or routine messages during emergencies

DUAL CONNECTIVITY NETWORKS

Provides secure local and internet-enabled Wi-Fi access

DEDICATED IP LOCAL NETWORK

Secure and private network that keeps communications running smoothly and safely

REAL-TIME I/O MONITORING

Interfaces with analog input/output systems



DATA INTEGRATION

CROSS-SYSTEM CONNECTIVITY

Links fire safety, lighting, gates, and other systems into one coordinated platform

AUTOMATION ACROSS FUNCTIONS

Trigger smart actions (e.g. unlock gates during evacuation, activate lights in emergency zones) in real time

CENTRALISED OVERSIGHT

Monitors and manages diverse subsystems through a single, unified interface





CONTACT US



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