



**AME makes your world a safer  
place to work**



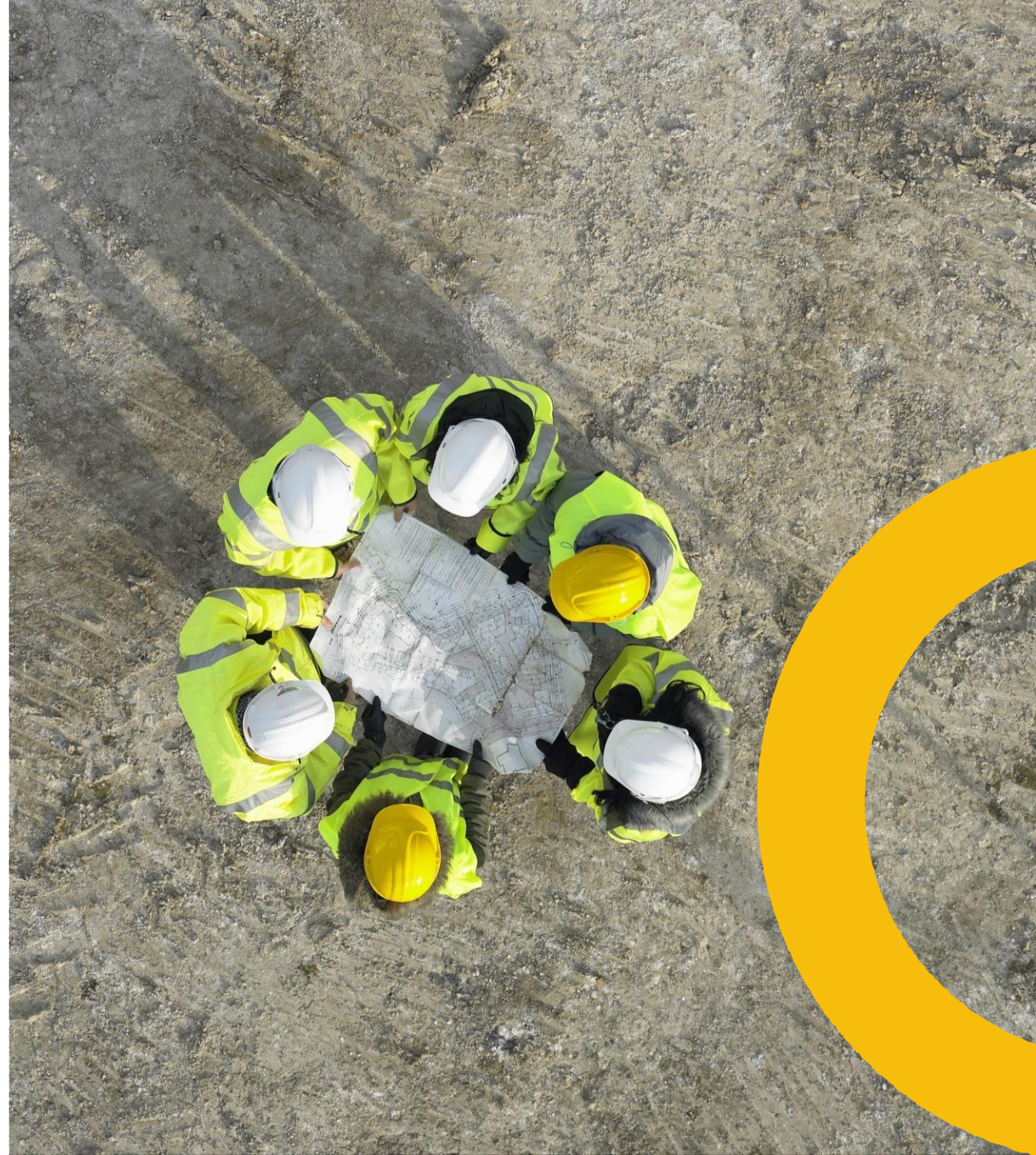
REINVENTING PROTECTION

Since 1999 AME has been working alongside its customers to ensure total safety in every working scenario by creating innovative **Active Safety** solutions.

After more than 20 years of designing, developing and implementing integrated Safety & Security solutions for Tunnelling & Construction, Infralogistics and Industrial settings, AME has become a highly valued brand in both Italy and the world due to its style that is the result of its **vertical expertise** in the sector, a **customer-centric** approach, and cutting-edge **technology**.

#### MISSION

Creating innovative technology to protect your peace of mind.





# THE AMESPHERE ECOSYSTEM

The revolution in safety begins with data management

AME revolutionizes Safety in Construction & Tunneling by introducing innovative technologies and radically redefining the concept of safety. By focusing on data, AME provides crucial information to managers, enhancing project management and safety through AMESPHERE.

**AMESPHERE is a digital ecosystem that elevates the standards of protection and injury prevention in the workplace. It integrates hardware (Devices) and software (Data Cloud) into a seamless system.**

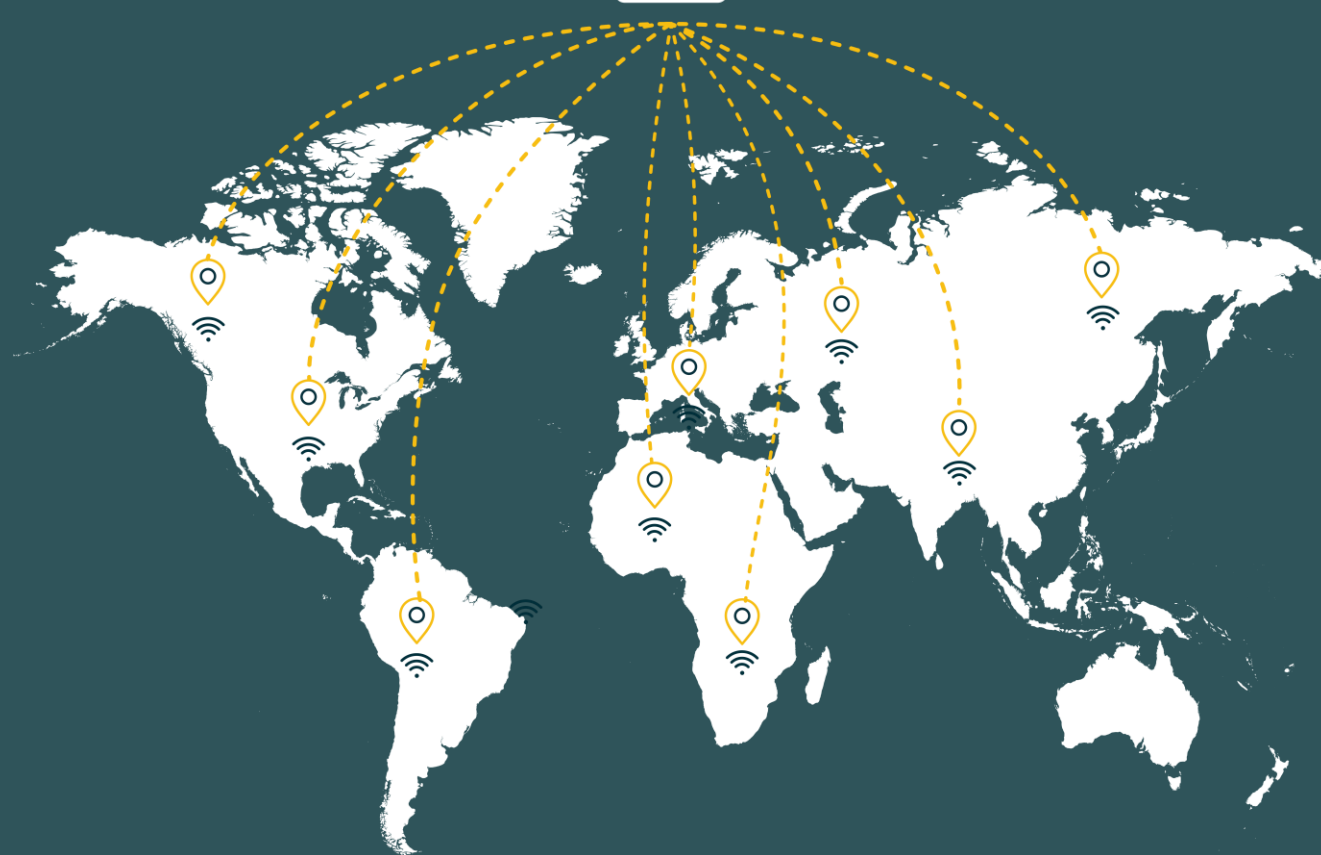
## We Transform Data into Valuable Information





# AMESPHERE PLATFORM

The web-based AMESPHERE platform, featuring a unique, modular, and scalable database, allows for the analysis, processing, and management of all data, transforming it into actionable information for the site manager.



## **ACCESSIBILITÀ**

The web-based AMESPHERE platform, featuring a unique, modular, and scalable database, allows for the analysis, processing, and management of all data, transforming it into actionable information for the site manager.

## **INTEGRAZIONE**

The web-based AMESPHERE platform, featuring a unique, modular, and scalable database, allows for the analysis, processing, and management of all data, transforming it into actionable information for the site manager.

## **MODULARITÀ**

The web-based AMESPHERE platform, featuring a unique, modular, and scalable database, allows for the analysis, processing, and management of all data, transforming it into actionable information for the site manager.

## **SEMPLICITÀ**

The web-based AMESPHERE platform, featuring a unique, modular, and scalable database, allows for the analysis, processing, and management of all data, transforming it into actionable information for the site manager.



# AMESPHERE SOLUTIONS



## ACCESS CONTROL

Management of **authorisations** to enter the site for both workers and vehicles



## TRACKING

Real-time monitoring of the **presence** and **position** of workers in the site or inside the tunnel



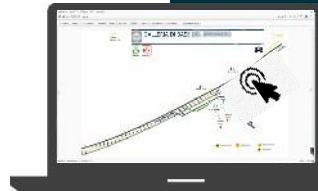
## CCTV

Remote surveillance at the access points to the site and in all the danger zones of the tunnel.



## ALARMS AND SOS

Management of emergency call boxes/columns and activation of calls and alarms



## KEYSTONE

Web-based  
Software Platform

## VOICE COMMUNICATION

Active communication throughout the site or tunnel via **GSM, radio, and telephone lines**



## INFRASTRUCTURE

Configuration of a reliable and redundant communication network.  
**Fibre optic or Wi-Fi**



## ENVIRONMENTAL MONITORING

Detection of environmental parameters in-situ and management of resulting alarms.



## ANTI-COLLISION SYSTEM

Vehicle/pedestrian worker and vehicle/vehicle anti-collision system



ALL the SOLUTIONS COULD BE SUPPLIED IN ATEX VERSION



# **AMESPHERE SOLUTIONS**



**AMESPHERE**

# ACCESS CONTROL e TRACKING

## ACCESS CONTROL and TRACKING

Control of accesses and tracking of all the workers that enter the site.

## ACCESS CONTROL

Sole, integrated management web-based software, with a multi-site management option.



### AUTHORISATION

Access by calendar, time or document control.



### EXTERNAL ACCESS CONTROL

Management of personnel from other companies as well as visitors.

RECEPTION MODULE



### MULTIPLE TECHNOLOGY IDENTIFICATION

Vehicle licence plate recognition system, UHF, IS O, RFID, Biometrics.



### FLEET MANAGEMENT

System to manage access authorisation for the company' s as well external vehicles





**AMESPHERE**

**ACCESS CONTROL**



**BRENNER BASE TUNNEL | ITALY**



**CENTRAL INTERCEPTOR GA&IV | NEW ZEALAND**



**SAPPANICO TUNNEL A14 | ITALY**

## TRACKING

The system helps to monitor in real time the presence and position of workers in the different zones of the site.

All information is viewed to speed up any action or evacuation needed in an emergency.

## MULTI-READING

The system can detect different persons inside a moving vehicle and workers do not need to do anything in particular to be recognised.



Instant transmission



Configurable time



Integrated Badge Holder

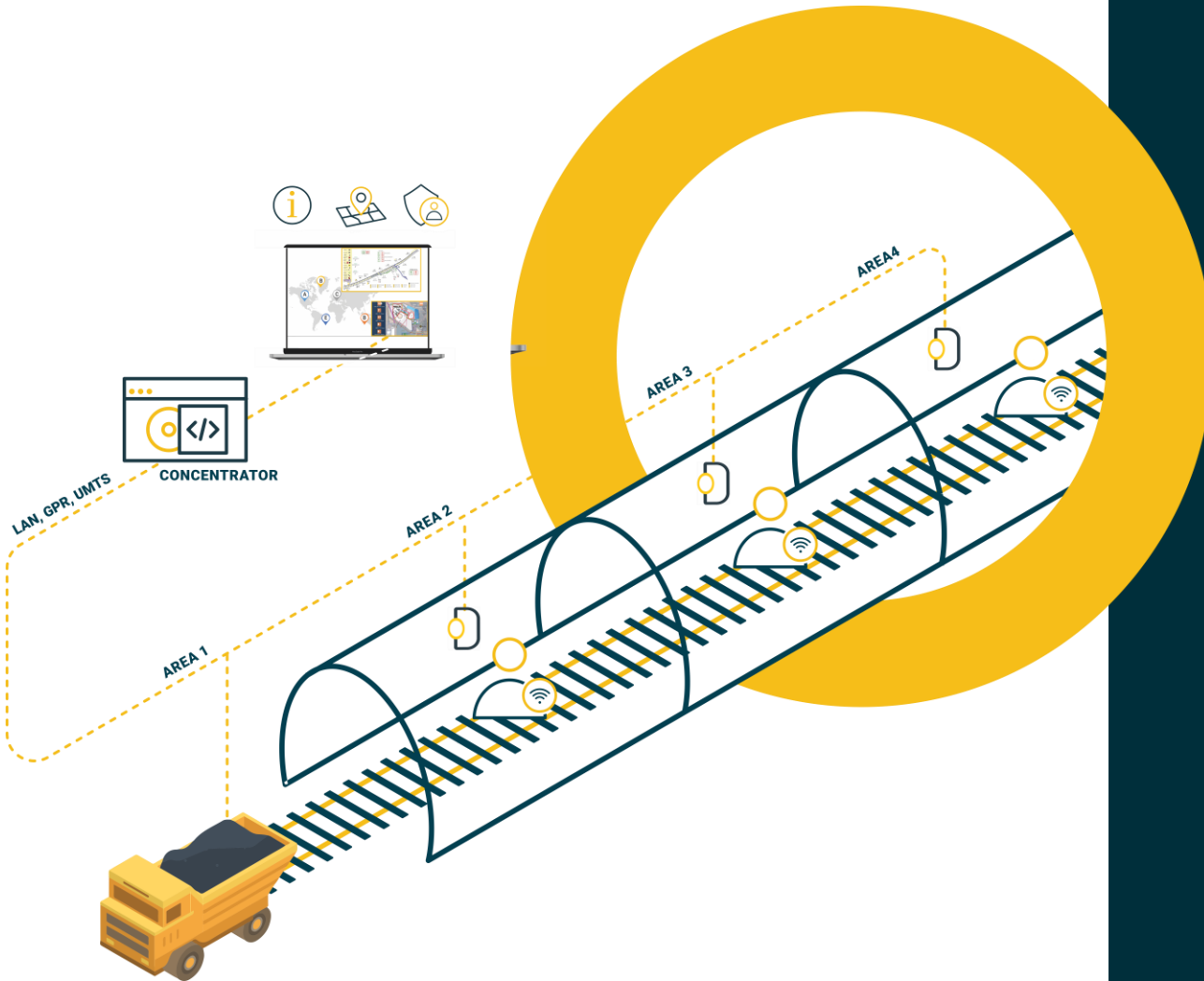


Battery life: 3-5 years



ATEX VERSION





### ○ Report BY ZONA

Shows how many people are present, as well as their data, in the different zones of the site or tunnel.

#### ZONE 1 - 3 OPERATOR

TAG 123	M. Rossi	ZONA 1	10/04/2022	14.45	COMPANY XYZ
TAG 234	G. Toni	ZONA 1	10/04/2022	11.00	COMPANY XYZ
TAG 567	E. Lucas	ZONA 1	10/04/2022	14.45	COMPANY 000

#### ZONE 2 - 2 OPERATOR

TAG 345	D. Zuti	ZONA 2	10/04/2022	10.45	COMPANY XXXX
TAG 657	mezzo	ZONA 2	10/04/2022	18.00	COMPANY XYZ

### ○ Report BY TAG

Shows the events of each individual tag and an analysis of the activities and movements among the zones.

#### TAG 123

- ❑ ACCESS 10/10/2021 9.30
- ❑ ZONE 2 10/10/2021 9.35
- ❑ ZONE 3 10/10/2021 11.30
- ❑ ZONA 2 10/10/2021 13.00
- ❑ MENSA 10/10/2021 13.05

### ○ Presence count:

Prints the list of people that should be present during an emergency evacuation..

### ○ Report BY TIME

Analyses the flows of people within a given period of time

## ALARM MANAGEMENT

Management of all alarms and SOS alerts in risk zones or when workers are in danger.



### Automatic Alarm

- The **maximum time** a **worker wearing a tag** is allowed to stay within a danger zone **is exceeded.**
- The **number of workers wearing tags** in a danger zone is exceeded
- Attempted access by **unauthorised personnel**



### Active Alarm

- The worker in the danger zone can activate an alarm to report a hazardous situation.

## ALARM COMMUNICATION



Visual and acoustic alarm (flashing siren)



Alarms can be managed remotely



E-mail sent to the Safety Officer or the Head of



Department

Telephone message (GSM)



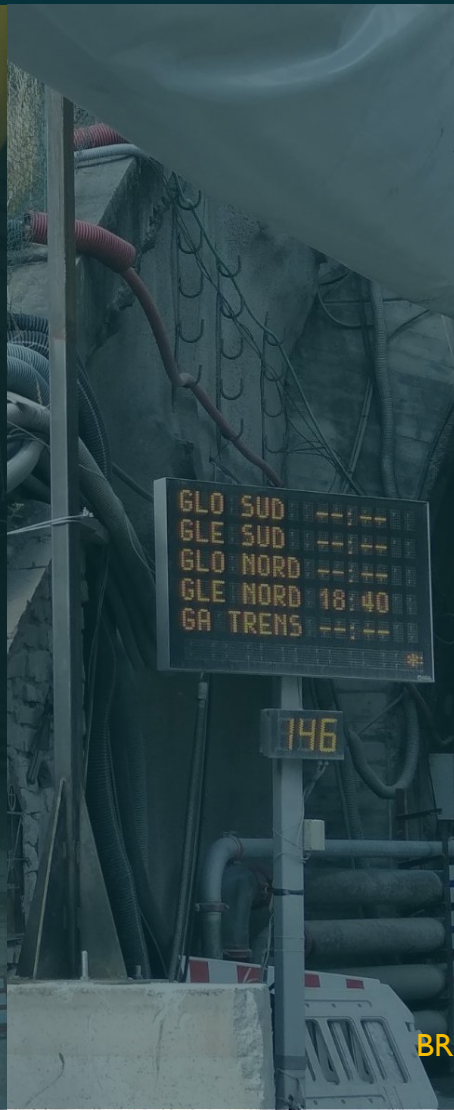
**AMESPHERE**  
**TRACKING**



AMESPHERE TAG



EMPEDOCLE 2 | ITALY



BRENNER BASE TUNNEL | ITALY



AMESPHERE

CCTV

## VOICE COMMUNICATION

Integrated solution for controlling access, monitoring danger zones, and managing communication in the company

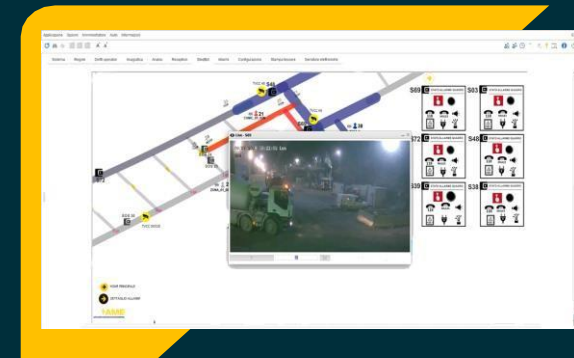
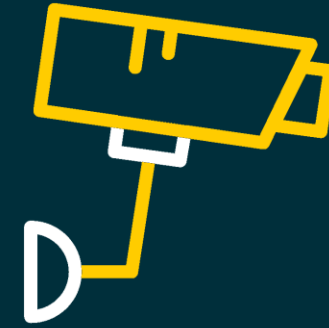
## CCTV

Video surveillance at the different accesses to the site as well as within the different internal zones to be monitored.



### VIDEO CAMERAS AT ACCESS GATES

Video cameras are installed at the access gates to record everything that happens, and are managed via an NVR directly from the control room.



### VIDEO CAMERAS WITHIN DELIMITED ZONES

Video cameras are installed within the danger zones to view the operation situation in real time, mainly if an emergency occurs.



**AMESPHERE**

**VOICE COMMUNICATION**

**VOICE COMMUNICATION**

Integrated solution for  
controlling access, monitoring  
danger zones, and managing  
communication in the company

## VOICE COMMUNICATION

The system manages the entire communication network in the site, including that inside the tunnel.



### **GSM communication systems throughout the tunnel**

Radio coverage system:  
To amplify and expand the GSM900 service of three operators (TIM, Vodafone, Wind|3)



### **UHF digital radio network communication systems**

Fixed radio stations  
Mobile radios for workers



### **Telephone communication systems**

Fixed-line voice telephony via  
a fibre optic infrastructure.





**AMESPHERE**

**VOICE COMMUNICATION**



**FREJUS TUNNEL, ITALY FRANCE**



**BRENNER BASE TUNNEL | ITALY**



**CENTRAL INTERCEPTOR GA&IV | NEW ZEALAND**



**AMESPHERE**

# **ALARMS AND SOS MANAGEMENT**

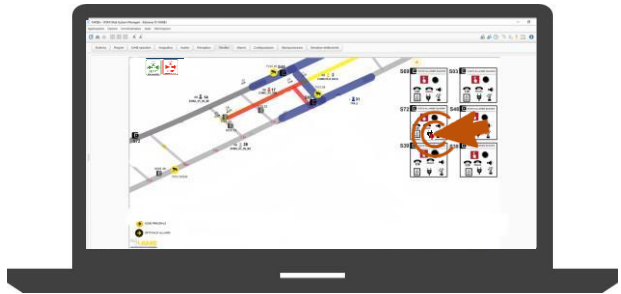
## **ALARMS AND SOS MANAGEMENT**

Management and activation of alarms and emergency call in the different zones of the site

## SOS MANAGEMENT

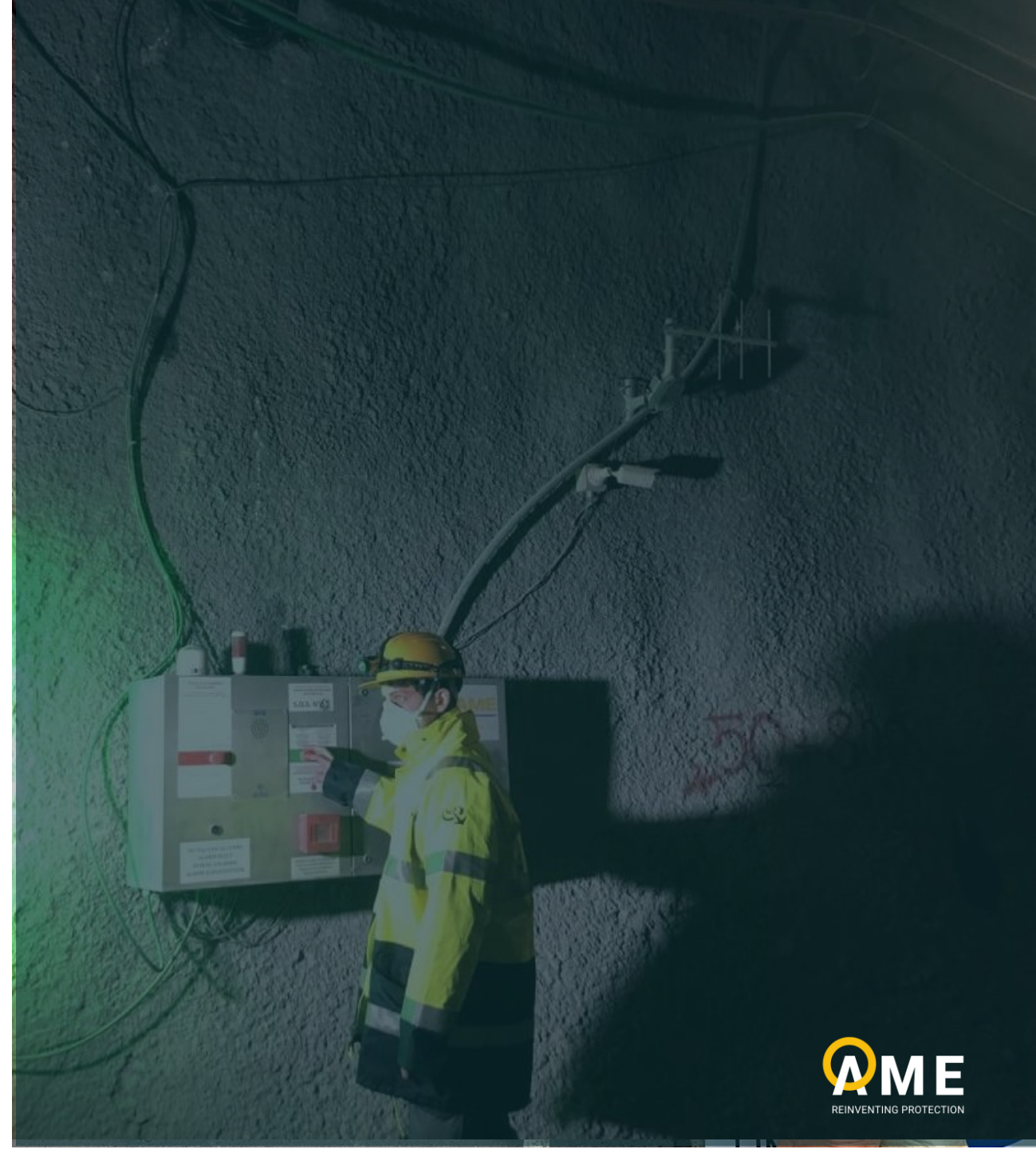
The SOS call boxes/columns are installed within the site and can handle both emergency calls and alarms.

- Emergency hand-free telephones
- SOS telephones



Directly via the control panel, the following is checked and managed:

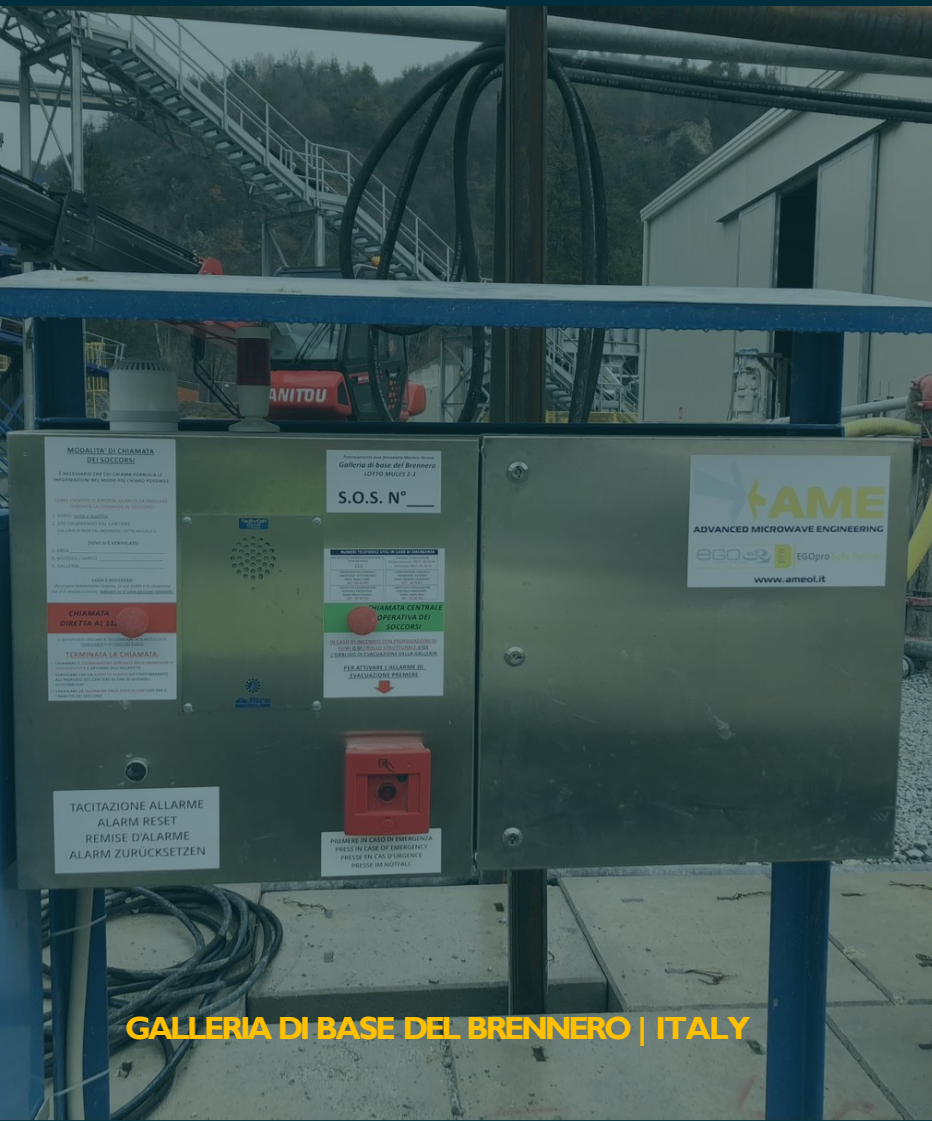
- The position of the SOS call box/column
- The status of the emergency call box/column
- All the alarms and calls





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SOS MANAGEMENT



GALLERIA DI BASE DEL BRENNERO | ITALY



PEDEMONTANA VENETA | ITALY



LOTTO SOTTO ATTRAVERSAMENTO DELL'ISARCO



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# ENVIRONMENTAL MONITORING

## ENVIRONMENTAL MONITORING

Detection of environmental parameters in-situ and management of resulting alarms.

## **ENVIROMENTAL MONITORING**

The Enviromental monitoring module guarantees the full integrity of the operational area.

In particular, it allows data to be obtained from the field and alarms to be managed in real time.

- Status control of survival cabins.
- Communication systems status check.
- Monitoring of environmental parameters (Fibrolaser, Smoke Detection, etc.).
- Acoustic/visual signals and traffic light precedence that can be managed remotely or automatically.
- Monitoring of third-party devices.





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INFRASTRUCTURE

## INFRASTRUCTURE

Implementation and management of the entire data connection network

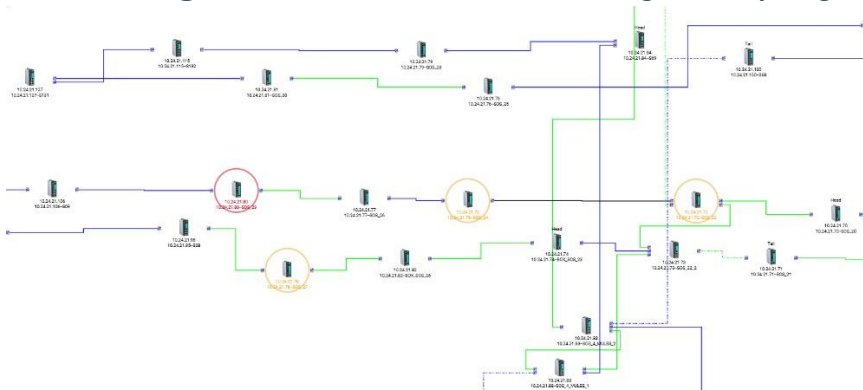
## INFRASTRUCTURE

Through its team of field engineers and technicians, AME successfully design and implement the entire network structure.

### Fibre optic or Wi-Fi

Fibre optic is laid in the entire site:

- **Redundancy:** Ensures the continuity of the connectivity service
- **Diagnosis:** Alarm in the mimic diagram in case a failure occurs
- **Management:** Fibre-dedicated diagnosis program





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CONTROL ROOM

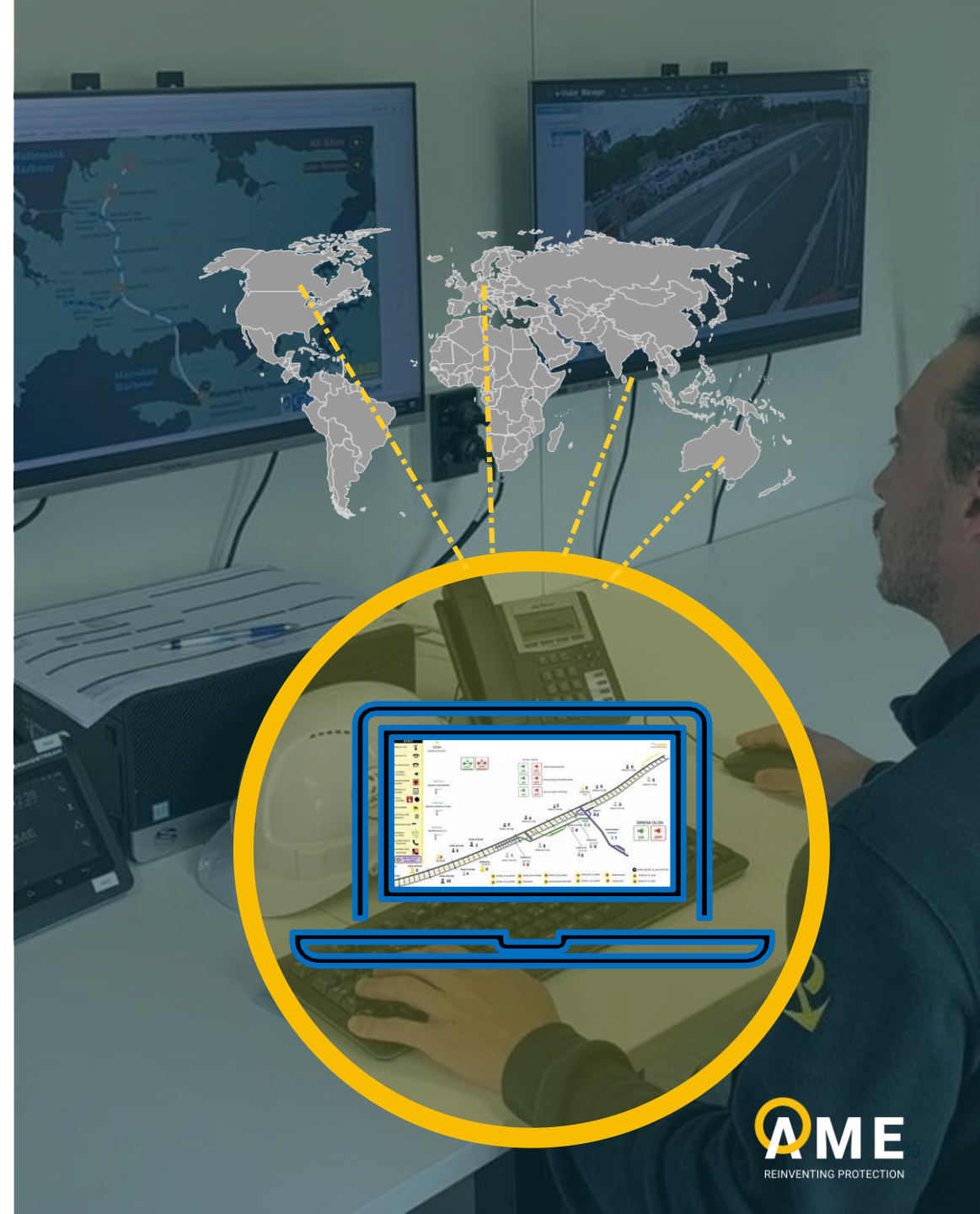
## CONTROL ROOM

All the activities of the construction site are managed, also remotely, from the control room

## DASHBOARD

All the modules are fully managed by means of a web-based software

- ✓ Document control and authorisation of internal, external contractors and visitors
- ✓ Centralised access control and activation
- ✓ Registry, presence and position of operators in the different areas
- ✓ Printing of list present per area in the case of evacuation
- ✓ Monitoring of device status and EMERGENCY BOX
- ✓ Sending voice messages or alarms (MAIL -SMS - SIRENS ETC...) in case of emergency
- ✓ Management and status of all environmental monitoring sensors
- ✓ Activation and display of site cameras



## ATEX

- Since 2017 we have been certified 'ATEX manufacturers' for AME tracking devices (TAGs and sensors)

CERTIFICAT



### NOTIFICATION

**PRODUCTION QUALITY ASSURANCE NOTIFICATION**

- (1) Equipment or Protective System or Component intended for use in potentially explosive atmospheres  
Directive 2014/34/EU
- (2) Notification number:  
**TUV IT 20 ATEX 047 Q Rev.1**
- (3) Equipment or Component as listed: see attached report  
Protection concepts: Ex d, Ex e, Ex i, Ex m, Ex t
- (4) Manufacturer: **ADVANCED MICROWAVE ENGINEERING S.r.l**  
via Lucca 44  
50142 Firenze - ITALY
- (5) Sites audited: identical
- (6) TÜV Italia, notified body no. 0948 in accordance with the Council Directive 2014/34/EU of 26 February 2014, notifies that the actual manufacturer has a production quality system which complies to Annex IV of the Directive.
- (7) This notification is based on audit report no. R 23 EX 036 issued the 13<sup>th</sup> 07.2023  
This notification can be withdrawn if the manufacturer no longer satisfies the requirement of Annex IV.  
Results of periodical re-assessment of the quality system are a part of this notification.
- (8) This notification is valid until 25.07.2026 and can be withdrawn if the Manufacturer does not satisfy the production quality assurance re-assessment.
- (9) According to Article 16 paragraph 3 of the Directive 2014/34/EU the CE marking shall be followed by the identification no. 0948 identifying the notified body involved in the production control stage.  
  
This notification may only be reproduced in its entirety and without any change.

First issue date: 25<sup>th</sup> July 2023  
Issue date: 17<sup>th</sup> July 2023



PRD N° 0818

Service Audit Accredited in Italy - Requirements:  
EN ISO 9001, EN ISO 14001, EN ISO 45001, EN ISO 13055  
Regulatory or other, CE and LAC Module  
Relevant to the product



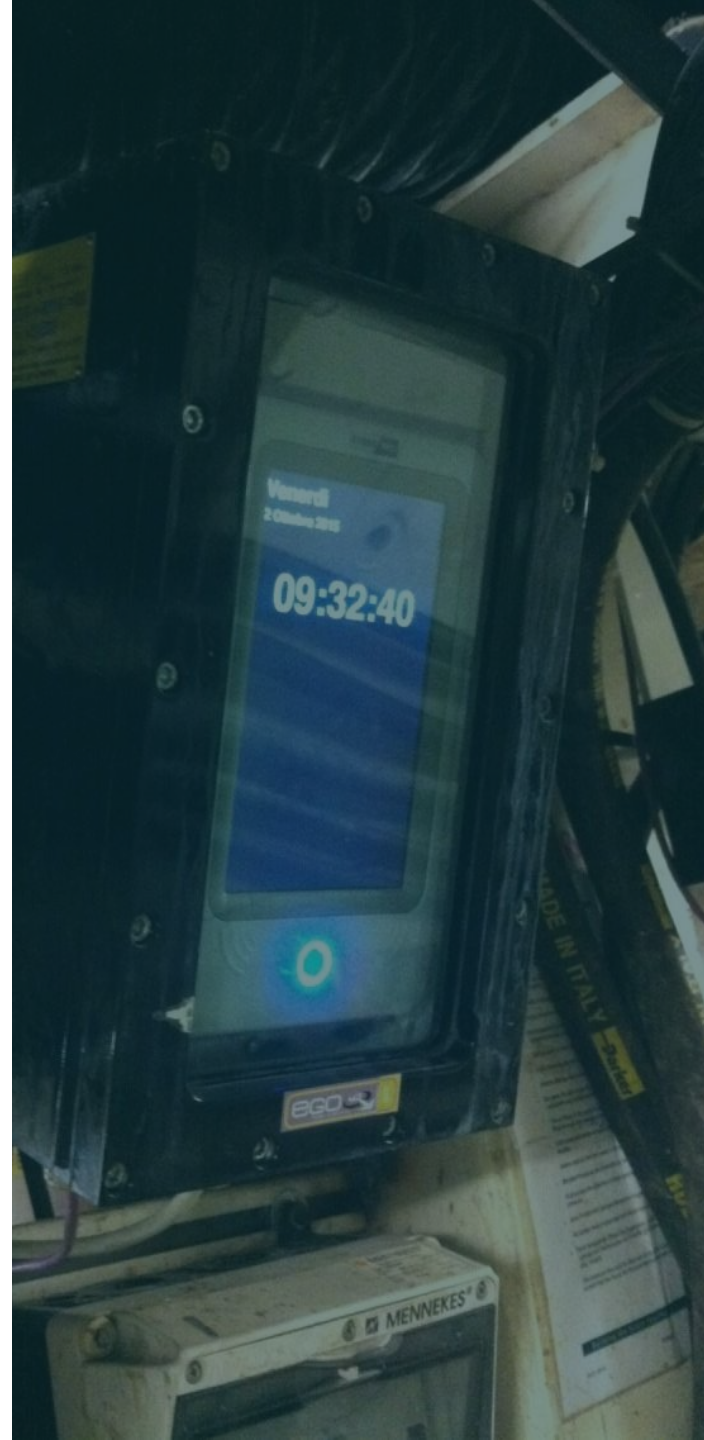
TUV Italia S.p.A.  
Notified Body N° 0948



**Alberto Caffè**  
Industry Service - Rail & Infrastructure  
Managing Director

TUV Italia has been authorized by the government to operate as notified body for the certification of equipment or protective systems intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The date of issue is 17/07/2023. page 1 of 1

TUV Italia • Gruppo TÜV SÜD • Viale Fabio Testi, 28016 • 20126 Milano • Italia • www.tuvitalia.it • 02 76 01 21 11 • 02 76 01 21 12



- We supply and integrate ATEX devices





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# ANTICOLLISION RANGE

## ANTI-COLLISION

Solution to prevent collisions between a moving vehicle and a pedestrian or another vehicle. It adjusts to any type of vehicle, environment and activity.



# THE ANTI-COLLISION SOLUTION IN ONE APP **AMESPHERE**

## **AMESPHERE - ANTICOLLISIONE**

The **presence and position of a pedestrian worker**, wearing a TAG or not, that is in a hazardous situation is displayed in real time on the tablet.



Active vehicle-to-person and **vehicle-to-vehicle anti-collision solution** that is **connected at all times and is constantly updated**.



**Secure collection, saving, and storage** of data gathered by the system.



**Data analysis** through high-performing software for cloud computing, and using AI and machine learning technologies.



**PUSHING Info vs PULLING data** transforms data into information, and the information gathered into direct notifications.



An **effective tool** to comply with **UNI ISO 45001 standards** and increase social sustainability.

AMESPHERE

# V I S T A

EVOLVING SAFETY THROUGH VISION





# LPS & AI TECHNOLOGY FULL INTEGRATION AMESPHERE **VISTA**

Integrated UWB-LPS and AI camera based technologies at your services





# LPS & AI TECHNOLOGY FULL INTEGRATION AMESPHERE VISTA



- ✓ AMESPHERE's AI cameras analyse images in real time to detect any risk of collision, showing on the display the position of operators not wearing the tag.
- ✓ AMESPHERE's Key sensor visualises and detects the presence and position of operators wearing the tag and other vehicles, showing on the display the alarm



-  • PRE-WARNING - YELLOW
-  • WARNING - RED

Vehicle direction to adapt the detection range

Two viewing modes

with ICON



with IMAGES





# LPS & AI TECHNOLOGY FULL INTEGRATION AMESPHERE VISTA



## AI & LPS TECHNOLOGY



- ✓ The full integration of LPS and AI technology allows all warnings to be displayed very clearly on the same screen at the same time.
- ✓ White vehicle
- ✓ Red person with TAG
- ✓ Symbol person without TAG

It is possible to use the combination of technologies as best suits the operational scenario.



# AMESPHERE PERSONAL ACTIVE TAG

The **TAG** vibrates and lights up to alert operators in case of danger.

It is ergonomic and has a built-in clip and integrated eyelet to better adapt to all requirements.

The **wireless TAG charging pad** is complete with:

- A frame so the TAG can be charged horizontally or vertically (clips to fix it to DIN bar are included).
- A cable for sequential charging (up to 6 tags with only 1 standard power lead).



AMESPHERE

# SAFETY AS A SERVICE

FROM

PULLING DATA

TO

PUSHING INFORMATION

# AMESPHERE FROM PULLING DATA TO PUSHING INFORMATION

## AMESPHERE ANTI-COLLISION SYSTEMS



### On-Field Tools

- Real-time alerts to Drivers and Operators
- Machine interactions

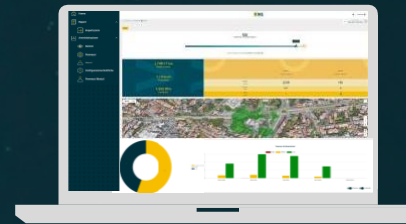
## AMESPHERE CLOUD



### Permanent Cloud Connection

- Secure collection and storage of data
- Automatic Software and Firmware updates

## AMESPHERE PLATFORM



### Dashboard

- Efficiency & Safety Index (ESI)
- Heat Maps and Graphs
- Machine Interactions

## AMESPHERE NOTIFICATION



### Notifications

- Alerts and notification
- Periodic Reports
- Trends Analysis



# AMESPHERE Digital Services DATA PROCESSING

Events are recorded and weighted as per their **actual level of risk**.

Amesphere detects any event and assesses its actual LEVEL OF RISK.

All the detections (events) occurring in immediate succession are grouped in one **INTERACTION** classified as per its max level of risk.

Drivers are alerted **ONLY WHEN THE LEVEL OF RISK EXCEEDS THE SET MINIMUM THRESHOLD**.

**DATA COLLECTED ARE  
OBJECTIVELY MEASURED  
IN TERMS OF RISK**

LIVELLO DI RISCHIO



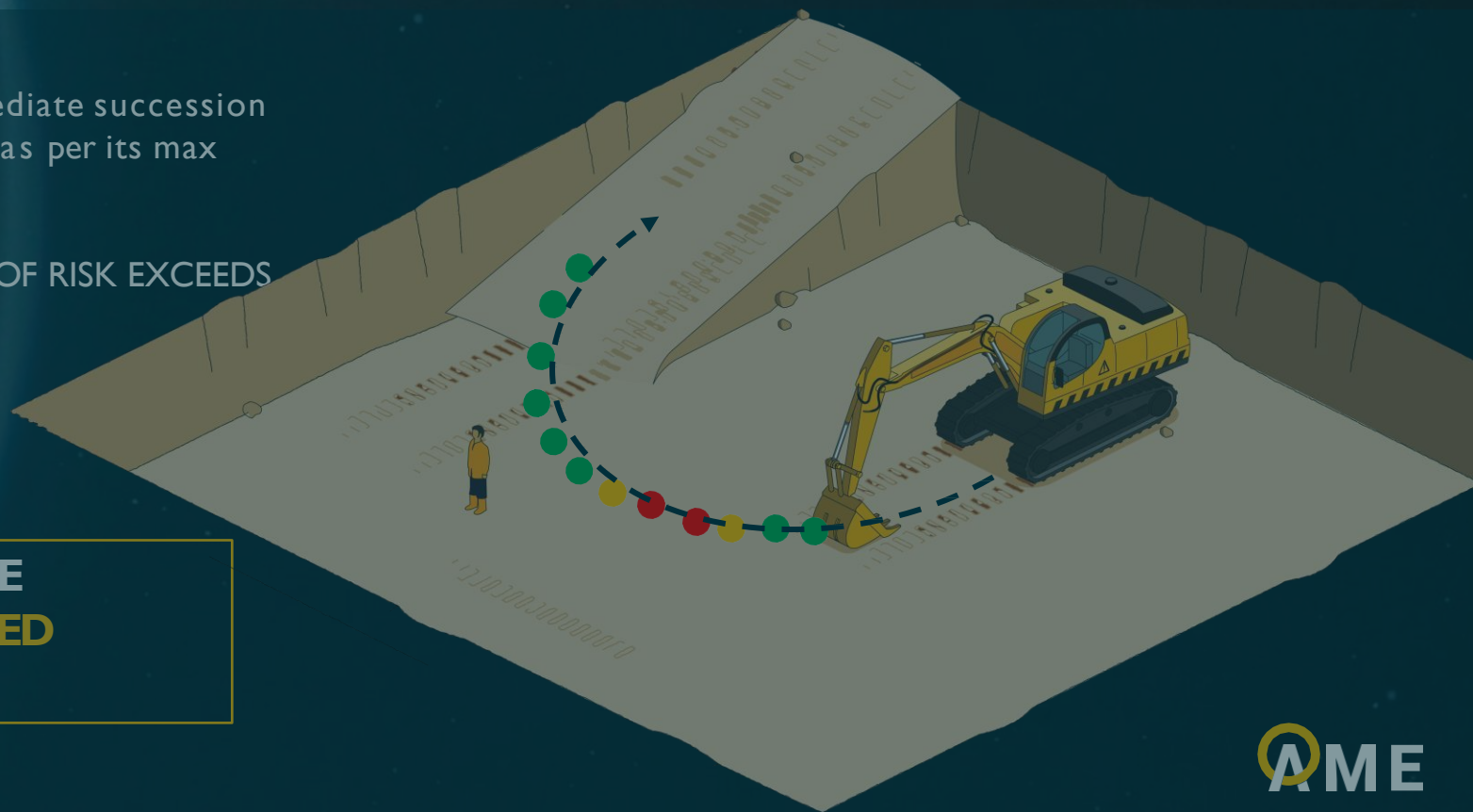
HIGH



MODERATE



LOW



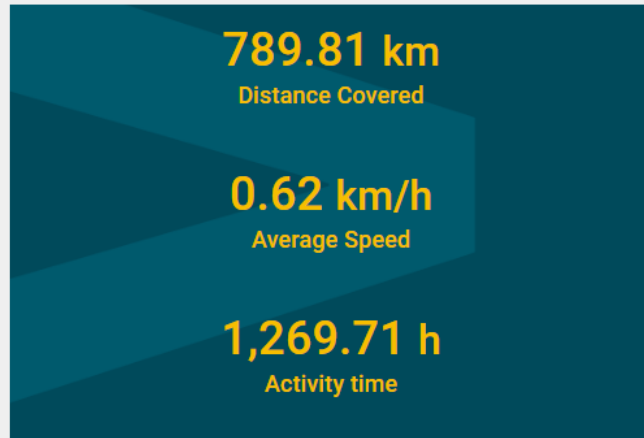


# AMESPHERE. Digital Services

## THE DASHBOARD

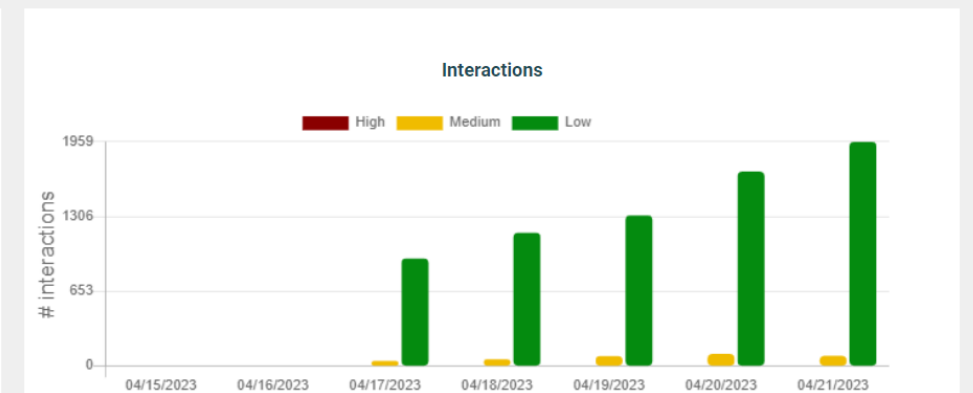
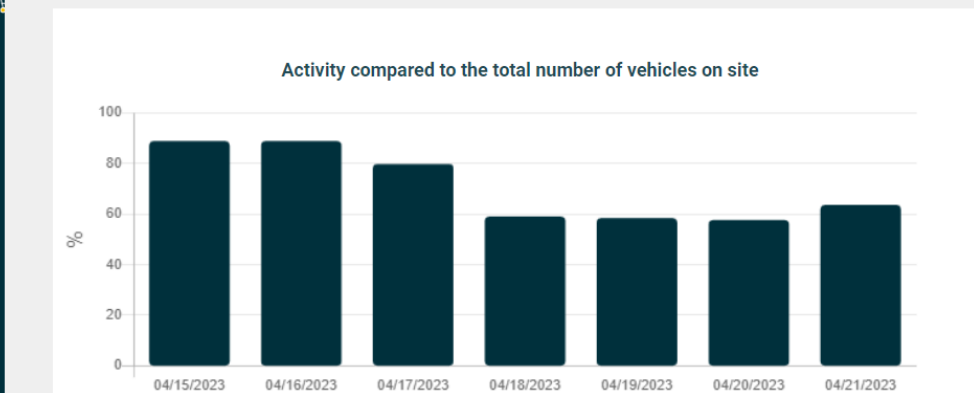
Interactions are clearly listed as per their **actual level of risk** together with main efficiency KPIs.

### EFFICIENCY DATA



### SAFETY DATA

	Interactions VEHICLE - VEHICLE	Interactions VEHICLE - PERSON
Low Risk	6641	431
Moderate Risk	352	20
High Risk	1	0



0  
1  
2  
3  
4  
5  
6  
7  
8  
9  
A  
B  
C  
D  
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AMESPHERE

# ESI – EFFICIENCY AND SAFETY INDICATOR

All Interactions and main efficiency KPIs in one number

The ESI is the result of merging together data acquired by sensors, "weighted" according to the level of risk and data regarding fleet efficiency, converted in 1 single number on a scale from 0 to 1.

*The closer the number is to zero,  
the safer and more efficient operations are in the analyzed site/working environment.*

## ESI TODAY



## ESI DEVELOPMENT THROUGH TIME



# AMESPHERE ESI PROGRESSION AND TREND

ESI analysis becomes integral part of the **safety and efficiency improvement process**

AMESPHERE can **help educate drivers** to a safer and more efficient driving.



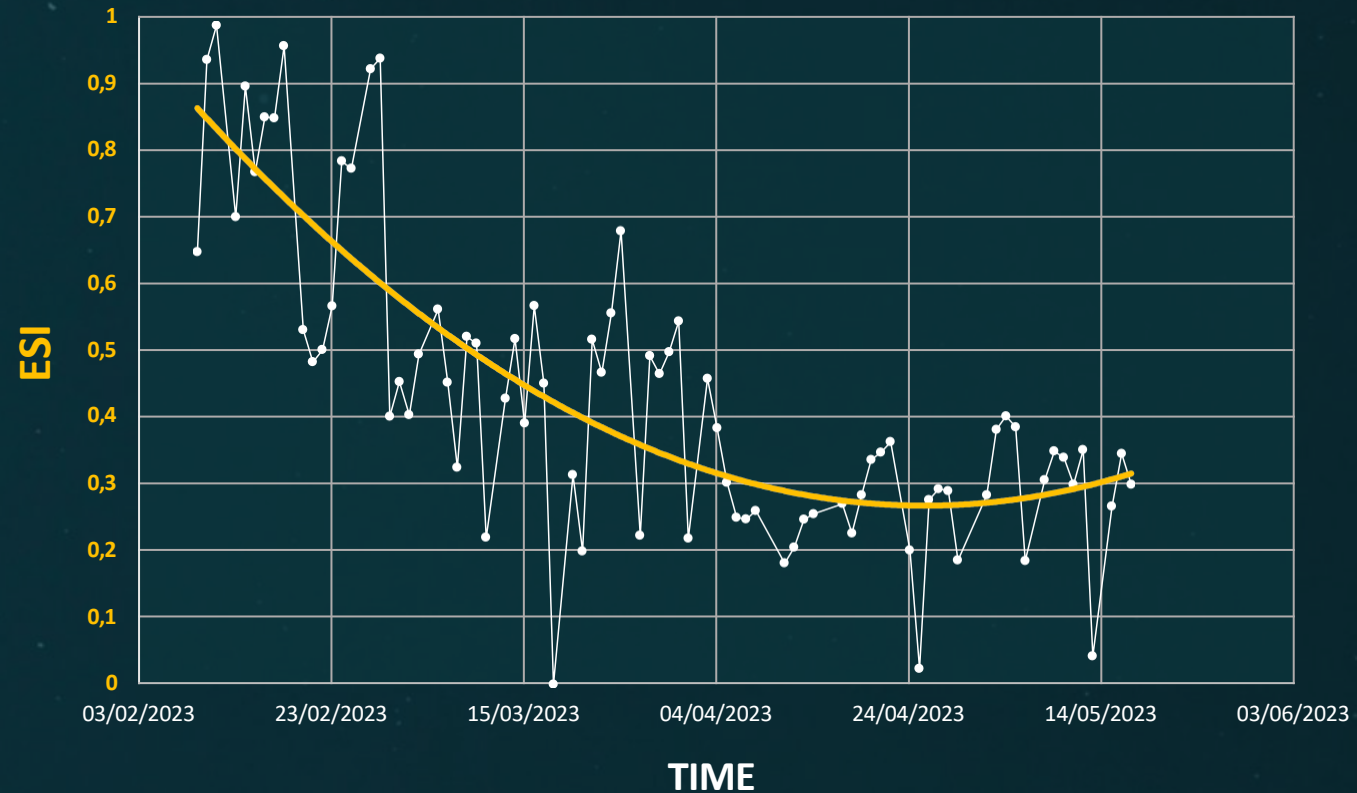
The diagram shows an evident improvement of ESI through time.



When maximum improvement is achieved, the curve stabilizes and the analysis of all objective data may lead to some corrective actions, such as:

- New **PROCEDURES**
- Changes to site **LAYOUT/TRAFFIC FLOWS**
- Planning specific **TRAINING COURSES** etc.

which effectiveness can be measured straight away.





# AMESPHERE DATA MAPPING

Data are shown on **heat maps**, to immediately see where interactions, and their level of risk, took place.

LAST DAY

LAST WEEK

LAST MONTH



**MAPPING** by density of interactions weighted per level of risk.

■ HIGH

■ MEDIUM

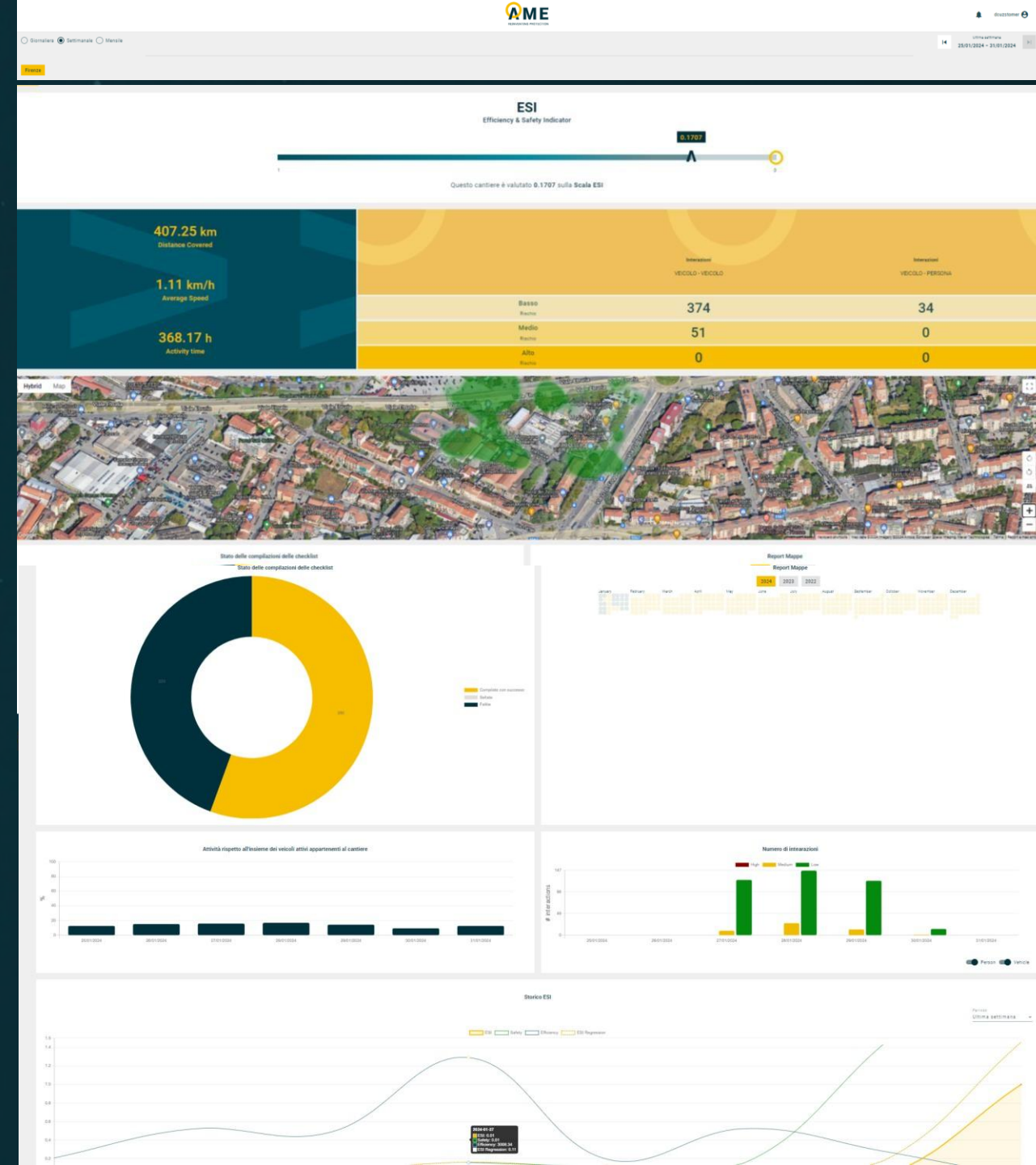
■ LOW



# AMESPHERE DATA REPORTS

- Full Interactions database
- Lists and Charts
- Geo-localized heat maps
- Operators and Fleet management
- Analysis and reports

**WHO READS ALL THIS?**





AMESPHERE

# PUSHING INFO INSTEAD OF PULLING DATA

## SERVICE INTELLIGENCE

Relevant info sent and displayed, as and when needed, on smartphones, via email, text, etc.

## NOTIFICATIONS



- **Periodic Reports**, via daily/weekly emails



- Real-Time Near Misses **Alerts** (es. High Risk events)



- Monthly **Trends** and Updates





AMESPHERE. Digital Services

# STANDARD AND ADDITIONAL DATA PACKS



## AMESPHERE SAFETY

- Anti-collision APP
- AMESPHERE Connect
- Data Storage
- Dashboard and ESI
- Safety Notifications and Alerts
- Zoning Plus Module

**STANDARD PACKAGE**



## AMESPHERE FLEET MANAGEMENT

- CHECKLIST Mod
- DRIVER LOGIN Mod
- SHOCK Mod
- Active Data registration
- Driver's ESI

**ADDITIONAL PACKAGE**



## AMESPHERE EFFICIENCY

- GEOFENCING Module
- INDOOR precise vehicles  
GEO-LOCALIZATION and  
TRACKING
- Spaghetti Charts

**ADDITIONAL PACKAGE**

# STANDARD DATA PACK AMESPHERE SAFETY



## AMESPHERE ANTI-COLLISION APP

both LPS and AI technology solutions and **AMESPHERE CONNECT** with automatic FW and SW updates of the APP.



## SAFE DATA REPOSITORY

All data are safely stored in the cloud in the **AMESPHERE Platform**.



## USER-FRIENDLY AMESPHERE PLATFORM

Dashboard, KPIs and safety reports **weighted according to the level of risk of all interactions**, plus **ESI - Efficiency and Safety Indicator**.



## REMOTE SUPPORT

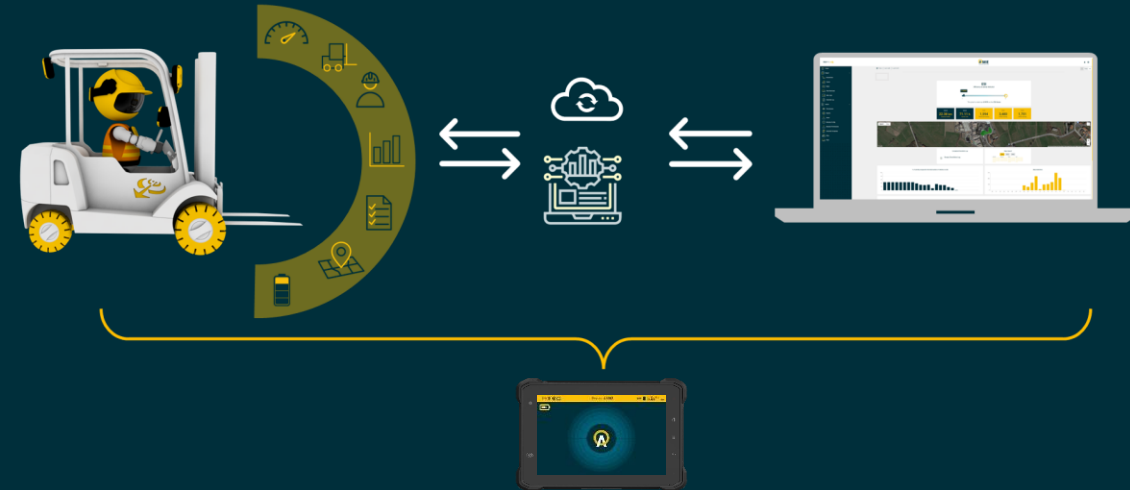
Configuration and set-up as well as after sale ongoing support can be done from remote.



## ZONING PLUS

In combination with Anti-Collision, Zoning Plus allows vehicles to adapt their performances in potentially dangerous areas, thanks to the installation of fixed sensors that can also open gates, switch on alarms, etc.

**AMESPHERE platform**  
Cloud-based **direct and two-ways** data transmission





## ADDITIONAL DATA PACK

# AMESPHERE FLEET MANAGEMENT

### CHECKLIST MODULE



List of operational questions for the driver to complete before the work shift. The checklist is tailored on the customer's specific requirement, added to the AMESPHERE Platform and sent to the vehicle. All data are registered and checked in real time.

### LOGIN MODULE



AMESPHERE will automatically detects the driver's TAG and determine the access to the vehicle based on WHITE and BLACK lists created by the customer.

When access is granted, AMESPHERE will inhibit the driver's TAG and enable driving the vehicle with an automatic login.

### ACTIVE VEHICLE and DRIVER STATUS



All details of both driver and vehicle are stored and can generate alerts to remind personal or specific deadlines, such as routine maintenance, etc.

### DRIVER'S ESI



Each driver is enabled to monitor their personal KPIs on tablet's display.



## ESI DISPLAYED in the VEHICLE

Personal ESI can be seen by the DRIVER only

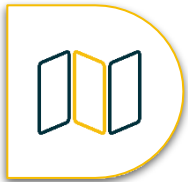
- ✓ Driver engagement
- ✓ Job Assessment
- ✓ Training courses
- ✓ Continuous improvement

# **ADDITIONAL DATA PACK** **AMESPHERE LOGISTICS**



## **GEOFENCING**

*Vehicle precise indoor geolocalization. Thanks to installation of fixed sensors, Amesphere will precisely position each vehicle inside any plant.*



## **ZONING**

*Trucks behaviour and anti-collision parameters can be set different in those areas that are more susceptible to risks, with GPS and LPS Geo Localization Systems.*



## **TRACKING WITH GPS OR LPS**

*Constant monitoring of vehicles via GPS or LPS.*



## **SPAGHETTI CHARTS**

*Graphic display of movements and behaviour of all vehicles during a given period of time via GPS and/or LPS.*

**GPS Sensor**

**LPS Sensor**



# AMESPHERE LOGISTICS POSITIONING - GEOFENCING

## PHYSICAL INFRASTRUCTURE



The localization infrastructure allows to define the position of the vehicle.

## EASY AND SIMPLE INSTALLATION

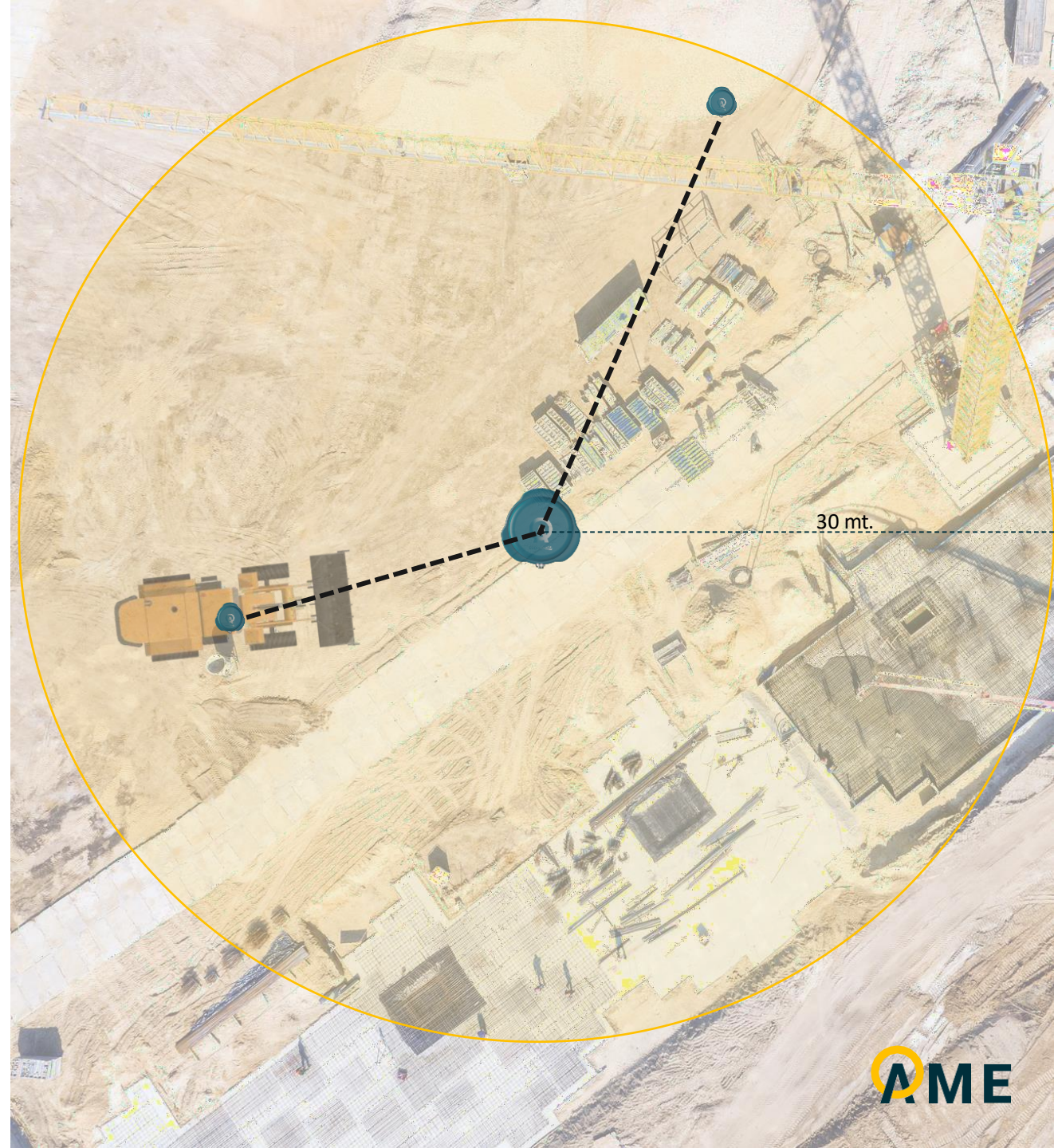
### ✓ JUST ONE SENSOR

LPS Technology: each individual sensor covers a circular area with a radius of up to 30 meters providing information: distance and angle (position).

The sensors can be from 1 to infinity depending on the area to be managed.

### ✓ NO NETWORK INFRASTRUCTURE

The sensor only requires power to be active; the position is then calculated by the sensor on vehicle





## LOGICAL INFRASTRUCTURE

Definition of a grid of squares with a maximum size of 10 meters and a minimum size equal to the vehicle's dimensions.

A profile is assigned at each area thus allowing to modify the behavior of the vehicle inside that specific area.

- **Reduced speed**
- **Increase or decrease of the activation range**
- ...

### ✓ **MANAGEMENT OF NON-CONTIGUOUS AREAS**

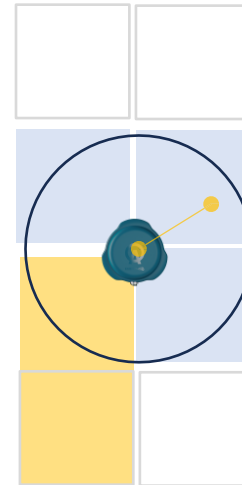
using just one sensor it's possible to manage even non-contiguous areas

### ✓ **NO NETWORK CONNECTION IS REQUIRED**

The plat map and the profiles are downloaded from the AMESPHERE PLATFORM on the tablet and are updated remotely

### ✓ **GPS - LPS**

The system selects the most performant technology in real-time, being able to combine them. For example, external-GPS and internal-LPS.





# AMESPHERE LOGISTICS DATI E NOTIFICHE

## DATA AND NOTIFICATIONS

The information relating to the tracking and the position of the vehicles allows to get relevant data for logistics which can be viewed on the AMESPHERE PLATFORM dashboard and/or received as direct NOTIFICATIONS.

- Spaghetti chart
- Shock notification ( with position of the vehicle )
- Notification of vehicle entering unauthorized area
- System standby notification (vehicle powered on but stationary)
- Anomaly notification
- Notification of a configuration change





# WHY CHOOSE AMESPHERE

## SIMPLE & FAST TO INSTALL



- ✓ **AMESPHERE devices** integrated and easily connected to each other.
- ✓ **Much Shorter installation times** and **lower installation costs**.
- ✓ **Adaptability and functionality** for any type of operating machine.
- ✓ Battery-driven installation.

## TECHNOLOGY INTEGRATION – LPS & AI



- ✓ **Anticollision LPS** – shape and size of detection ranges and **adaptive mode** are extremely easy to design and adjust.
- ✓ **AI anticollision** – integrates up to 4 cam in capable to detect operators without tag.
- ✓ Possibility to drive the vehicle behaviour and performances via **relays**.
- ✓ Rechargeable **TAG with LED & vibration alarms**.

## CONNECTIVITY



- ✓ **AMESPHERE** is a Cloud-based **direct and two-ways** data transmission **platform**.
- ✓ **AMESPHERE** Platform provides totally **safe Data storage** and **continuous SW & FW updates**.
- ✓ **Remote support** and service.

## DATA ANALYSIS



- ✓ Intuitive **dashboard** with real time calculation of **ESI, Efficiency and Safety Indicator**.
- ✓ Processing, analysis and reporting of data collected **according to their level of risk**.
- ✓ **Immediate display** of most potentially dangerous time slots, operations and zones as well as information on fleet management.



REINVENTING PROTECTION

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