

MACCAFERRI



HELLOMAC INFRA

Unlock the Future of Infrastructure Protection



Since 2020, Maccaferri has **embarked on a journey** towards embracing **IoT technologies**. We initiated this path by developing **the first HELLOMAC**, a pioneering project designed to enhance our rockfall protection systems by making them smart.

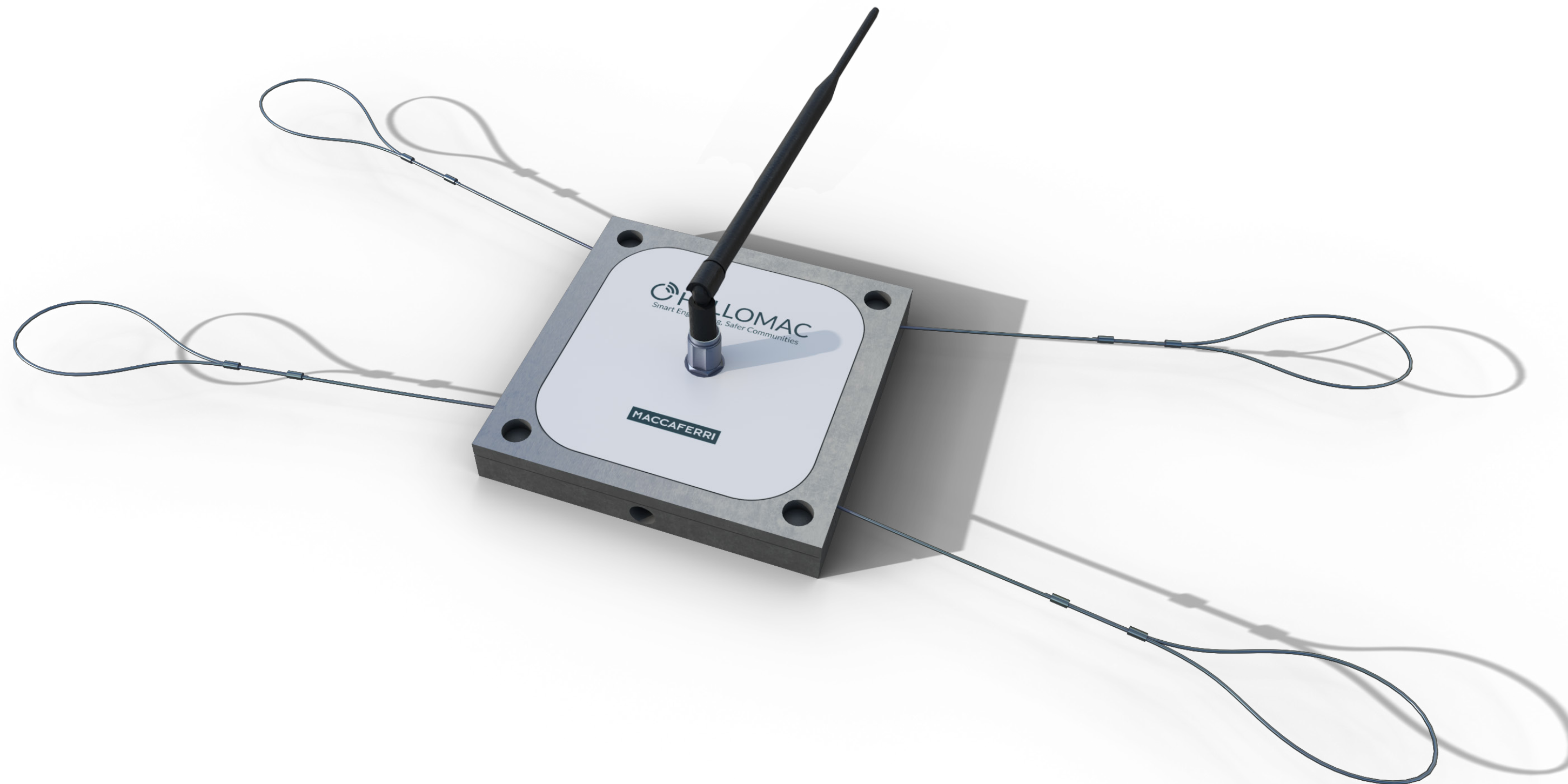
This innovation led to the creation of a comprehensive protection system equipped with early warning capabilities, **setting a new standard in environmental safety** and technological integration in our industry.

**We have firmly believed in this project
from the start, and now we're ready to do more**



All our solutions are designed to enhance safety and efficiency in civil engineering. By integrating **smart early warning systems**, we can elevate these solutions to new levels of intelligence and effectiveness, contributing to empower communities and their well-being.

At the heart of our vision for HELLOMAC lies a commitment to **pioneering smart innovations** that elevate safety across **diverse applications**. Within this framework, **HELLOMAC Infra** represents a specialized suite of solutions developed for **infrastructure protection**, making roadside fences into smart early warning systems and monitoring key parameters to help ensure normal road operability.



Smart Engineering

HELLOMAC Infra for Smart Fencing Monitoring

3 minutes

It takes no more
to receive the alert

5 years

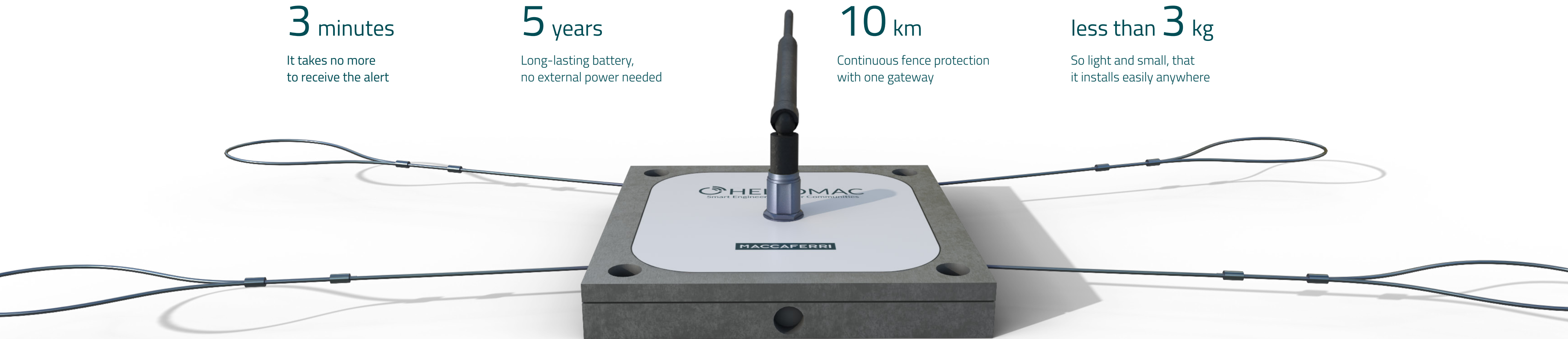
Long-lasting battery,
no external power needed

10 km

Continuous fence protection
with one gateway

less than **3** kg

So light and small, that
it installs easily anywhere



Smart Engineering

HELLOMAC Infra for Smart Icing Monitoring and Road Safety Monitoring



-40 °C

Built to perform
in extreme conditions

30 minutes

Constant data updates,
always on time

2 years of data

Minimum data retention
for deeper insights.

Powered by solar energy

With an extra battery for 7 days
of power - no sun needed



Safer Communities

SMART FENCING PROTECTION

HELLOMAC Infra makes roadside fences smart by integrating a simple, non-invasive sensor that triggers an alert when the fence is deformed, warning of a potential animal intrusion.

Compact, lightweight and easy to install, the device can be adapted to any type of fence and operates autonomously for years thanks to its long-lasting battery. These features make it an effective solution also for retrofitting existing fences. A limited number of devices can monitor several kilometres of fencing, while geolocation makes it possible to identify the exact point requiring intervention immediately. The sensor can also be positioned flexibly on the fence post, depending on the characteristics of the local wildlife.

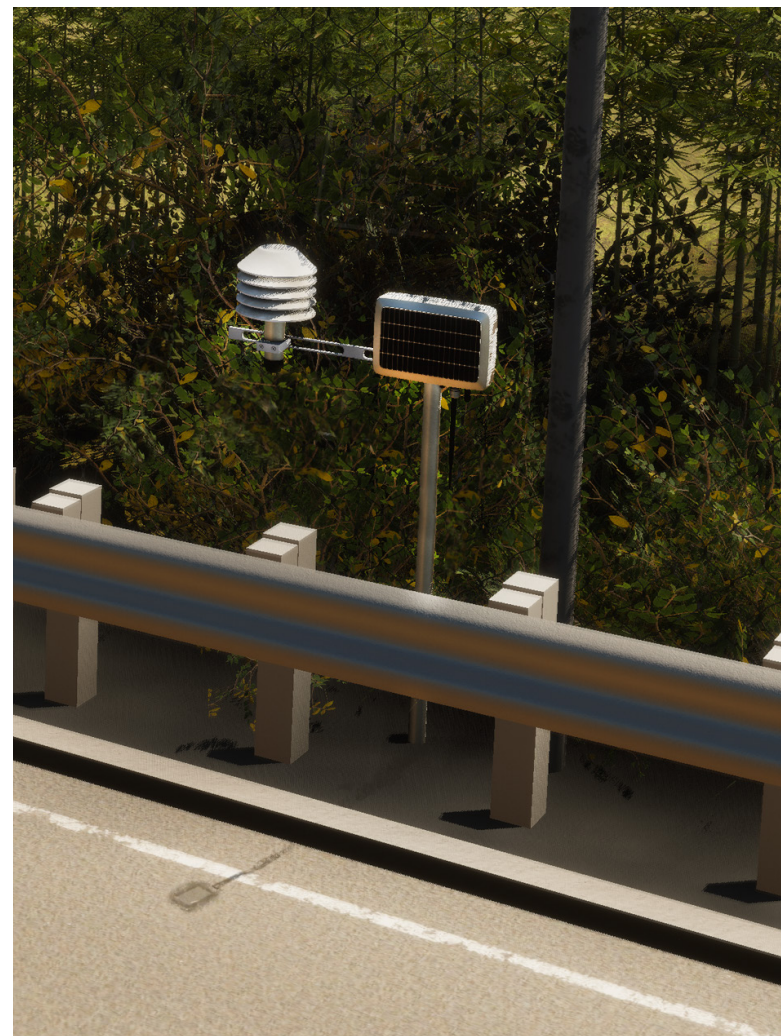


Safer Communities

SMART ICING MONITORING

HELLOMAC Infra makes road monitoring smarter by detecting the conditions that can lead to ice forming on the road surface, helping maintenance teams act before hazards become critical.

Installed at strategic points such as sharp bends, intersections and other critical stretches of road, the system collects environmental and surface temperature data at regular intervals and processes them in the cloud to estimate the probability of ice formation. This makes it possible to send timely alerts to road maintenance operators and support safer road management. Thanks to device mapping, the exact location requiring attention can be identified immediately, making the Smart Icing Monitoring kit an effective tool for improving safety across the road network.



Safer Communities

ROAD SAFETY MONITORING

HELLOMAC Infra helps make road monitoring more proactive by providing real-time visibility on weather conditions and road surface status, helping operators respond quickly when safety is affected.

Installed at strategic points along the road network, the system continuously collects and transmits data on parameters such as visibility, road surface temperature and surface conditions, including dry or wet pavement, snow, ice, water film thickness and residual salt content. Additional weather sensors for rain, temperature, humidity and wind can also be integrated according to site requirements. By combining these sources of information, the Road Safety Monitoring kit offers a more complete view of the conditions affecting road safety, enabling faster interventions and more effective traffic management.



Elevate your monitoring, make it Plus

Combine your HELLOMAC Infra with our kit Plus.

CLIMA CONTROL KIT

Take environmental monitoring to the next level with the Clima Control Kit. This all-in-one solution measures rainfall, temperature, and air humidity, providing real-time insights into key environmental conditions.

Compact and solar-powered, this innovative meteorological station seamlessly integrates with HELLOMAC Infra to deliver accurate and timely data. Designed for ease of use and efficiency, the Clima Control Kit ensures you're always one step ahead in safeguarding the environment.



LOCAL ALERT KIT

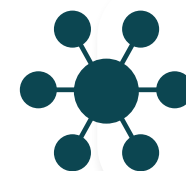
HELLOMAC Infra is all about **enhancing safety**, and this Kit Plus takes it further by integrating signaling panels, sirens and gates.

Directly connected to the HELLOMAC Infra's early warning system, it **automatically triggers alerts to block roads** when dangerous conditions are detected. With real-time monitoring and immediate action, this Kit Plus allows for a rapid response, supporting safer infrastructure management.



Real-time insights at your fingertips

Forget everything else. Monitor it all from one screen.



DON'T BUY EXTRA DATA LOGGERS. ONE IS ALL YOU NEED
Choose your kit, and it will arrive ready to integrate with your HELLOMAC data logger



COMPLETE CONTROL, ALL IN ONE APP
Monitor your daily data and your early warnings from the HELLOMAC App



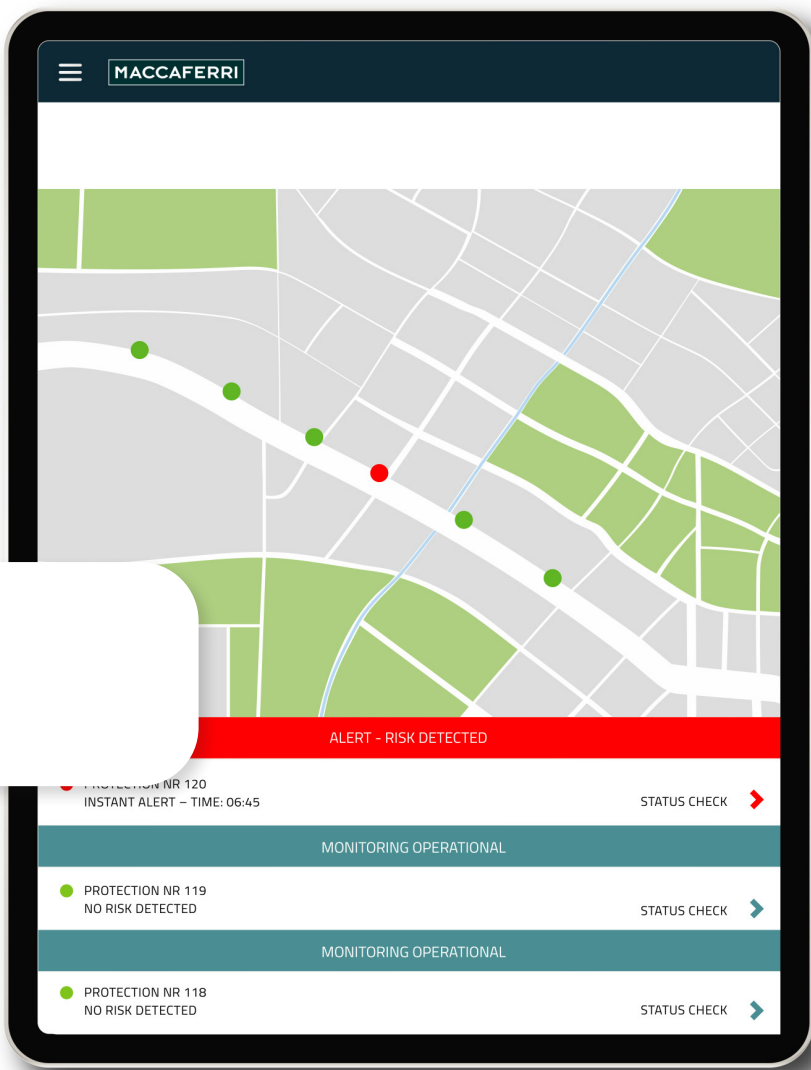
CUT THE CORDS. GO FULLY WIRELESS!
A fully wireless system connecting your HELLOMAC Infra and your data logger

Always in the know with the HELLOMAC app.



CHECK THE MAP!
Monitor your fences and road sensors anytime, anywhere.

Download the HELLOMAC App
on the App Store and on Google Play



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maccaferri.com

Engineering a Better Solution

We do not merely supply products, but work in partnership with our clients, offering technical expertise to deliver versatile, cost effective and environmentally sound solutions. We aim to build mutually beneficial relationships with clients through the quality of our service and solutions.

GLOBAL ENGINEERS

In the second half of the 19th century, we invented Gabions and dramatically changed the civil engineering landscape. We are still changing today. We work every day to find better solutions for our clients at every degree of latitude and longitude. Our worldwide network grows through innovation and diversification of sectors of activity and through an increasing range of high quality and environmentally friendly products and applications.

OFFICINE MACCAFERRI GROUP PROFILE

Founded in 1879, our Group soon became a worldwide reference in the design and development of advanced solutions, with offices in over 70 subsidiaries and 20 factories worldwide.

Our mission is to pursue excellence through continuous improvement, while delivering to customers engineered solutions that are innovative, advanced and environmentally friendly. We are committed to outstanding safety, quality and sustainability, to create value for all stakeholders as well as our communities.

MACCAFERRI APPLICATIONS



RETAINING WALLS
& SOIL REINFORCEMENT



SOIL STABILISATION
& PAVEMENTS



DRAINAGE OF STRUCTURES



FENCING & WIRE



HYDRAULIC WORKS



BASAL REINFORCEMENT



TUNNELLING



AQUACULTURE NETS/CAGES



ROCKFALL PROTECTION
& SNOW BARRIERS



COASTAL PROTECTION,
MARINE STRUCTURES & PIPELINE
PROTECTION



LANDSCAPE & ARCHITECTURE



CONCRETE FLOORING,
PRECAST & OTHER USES



EROSION CONTROL



ENVIRONMENT, DEWATERING
& LANDFILLS



SAFETY & NOISE BARRIERS



INDUSTRIAL
MANUFACTURING

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