

WHO WE ARE

Futures Tech BSN is engaged in the design and production of electronic materials, diagnostic tools, and monitoring equipment for the railway sector.

Continuous research and a strong commitment to improvement are the strengths of this young and forward-looking company – driving innovation, station after station.

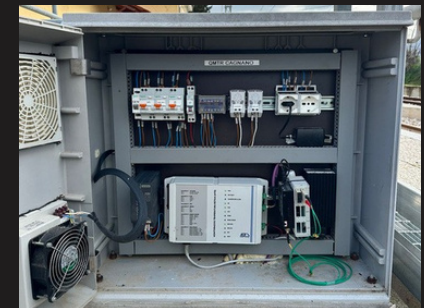
Our work is made possible thanks to our team: Giandomenico Buchagiar, CEO and Co-founder; Andrea De Gregorio, Commercial Director and Co-founder; and Spiro Buchagiar, Chief Operating Officer and Consultant, with over 30 years of experience in electronic materials for railway safety.

FIND US

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TUNNEL SUPERVISOR

Safety and Control

In partnership with **Ferrovie del Gargano S.r.l.** and following the award of the related tender, Futures Tech BSN is developing the **SCADA system** for the **Monte Tratturale Tunnel Supervisor**, in compliance with specification RFI DTCSTE SF EN LF 616 1 A.

This advanced system acts as the central command and control hub, ensuring the highest standards of safety inside the tunnel.



Smart Monitoring and Remote Management

The system constantly **monitors all PLCs** of the tunnel's electrical network. In case of anomalies, it can automatically reconfigure the **1 kV backbone** to restore power supply. Through the intuitive SCADA interface, operators can act remotely on single PLCs — for example:

- activate emergency evacuation route lighting;
- check the status of LED lighting fixtures;
- detect emergency button activation;
- reprogram protection devices without physically accessing the tunnel.



Comprehensive Data and Diagnostics

The Tunnel Supervisor provides continuous acquisition of critical data, including:

- circuit breaker and grounding switch status;
- overcurrent protection efficiency, activations, and event logs;
- transformer and fuse condition monitoring;
- auxiliary 24 V DC power supply diagnostics;
- alarms on LED lighting, emergency buttons, and communication systems;
- cabinet and switchboard monitoring.

This wide range of diagnostics guarantees real-time awareness and rapid intervention, making the Monte Tratturale Tunnel Supervisor a benchmark solution for tunnel safety and operational reliability.