

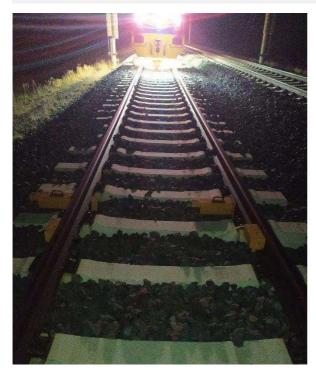


"ACOUSTIC DOMAIN" Technology is Changing the Game in Track Safety!

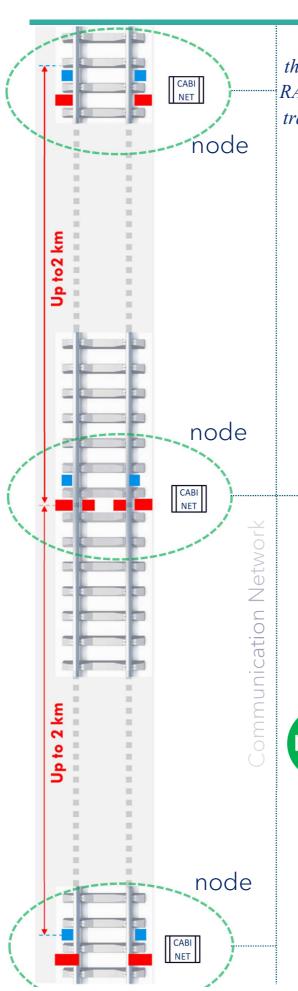
Most Reliable Information gathered through the "RAIL"

The "proven" RailAcoustic® Track-Safety Condition Monitoring System is successfully in operation since December 2018, at a 90 km double-track High-Speed Line section, with many features such as broken and cracked rail detection, train movement & velocity tracking, landslide-flood detection, flat-wheel detection, rail temperature monitoring and more... The second project implementation is in progress at Slab-Track High Speed Rail for 11 tunnels and planned to be put in operation by the end of 2020. New and prestigious international projects are in the pipeline!

Understanding how real-time, continuous information in the rail body reduces maintenance costs and increase asset availability







All components of the system are connected through an IP-based communication network. RA-Generator (Transmitter), RA-Receiver and track-side RA-Cabinet modules, which are the basic elements of the RailAcoustic® System, are constantly diagnosed by the remote Command & Control Center and the operating status of the system is monitored remotely. At the same time, the central software performs track-safety condition monitoring through rail fracture tests, landslide-flood detection, rail temperature measurement, train location & velocity tracking and flat-wheel detection



functions and informing the operator or related alarm monitoring system on-screen or remotely, in real time.





3 RA-Cabinet









The system itself generates acoustic signals!



Signal Injected to the Rail Body

Acoustic Signal Received from the Rail Body

> **Data Processed** and sent to the **Control Center**

Acoustic

Results shown on the **Control**





3

Center



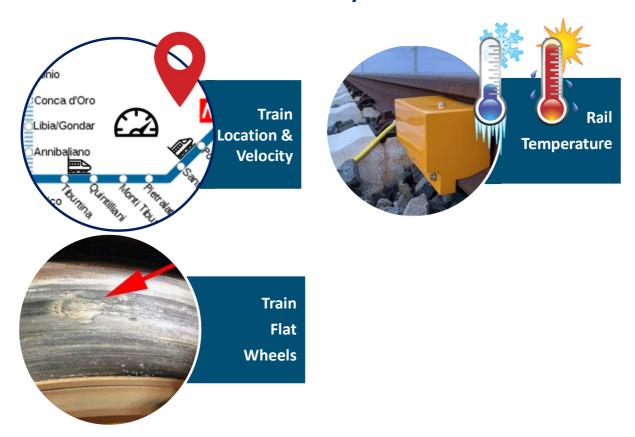
Without the need for a train to detect the rail defects...

What is detected through Automated or Manual Rail Defect Tests?

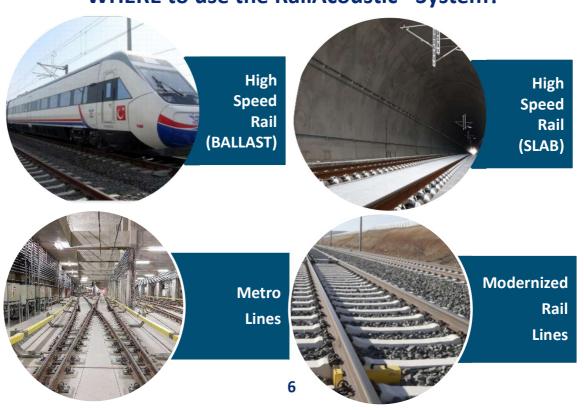


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What is monitored in "Stand-By Mode" in Real-Time?



WHERE to use the RailAcoustic® System?



What is required/preferred to deploy the RailAcoustic® System on a track?





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