Smart Railway Maintenance to Reduce Noise Pollution and Extend Service Life
Railway systems must be remain competitive.

WHO: « railway noise has demonstrated adverse health effects on nearby residents »

Railway is safe but railway noise kills!

Infrastructure costs are internalized, including noise protection!
VibRail: a Tool for Smart Maintenance

On-board and wayside monitoring systems:
- Reduce noise and vibration
- Reduce Infrastructure maintenance

Status - Alert - Evolution

Calibration and installation

- Reduce wear on rolling stock
- Extend service life of rolling stock
Smart Maintenance for Asset Management

Measuring Rail Network Condition
- Reduce Noise & Vibration for Residents
- Infrastructure Maintenance Planning

Monitoring Rail Condition
- Optimal Condition-Based Maintenance
- Anticipate Noise & Vibration Issues

Real-time Squealing Detection
- Fight Squealing more Effectively
- Anticipate Noise Issues

Monitoring Service Load
- Reduce Vibration Damage on Rolling Stock
- Extend Service Life
French Engineering SME since 1986
Mechanical Engineering, Vibration, Acoustics
120 highly-specialized engineers and PhDs
Certified RTD Performer

Looking for cities interested in integrating the VibRail technology in their Smart City policy to improve living conditions and help promote modal shift by reducing externalities and increasing competitiveness of rail transportation.

VibRail in action: [https://www.youtube.com/watch?v=0zZwvd1EAUY](https://www.youtube.com/watch?v=0zZwvd1EAUY)