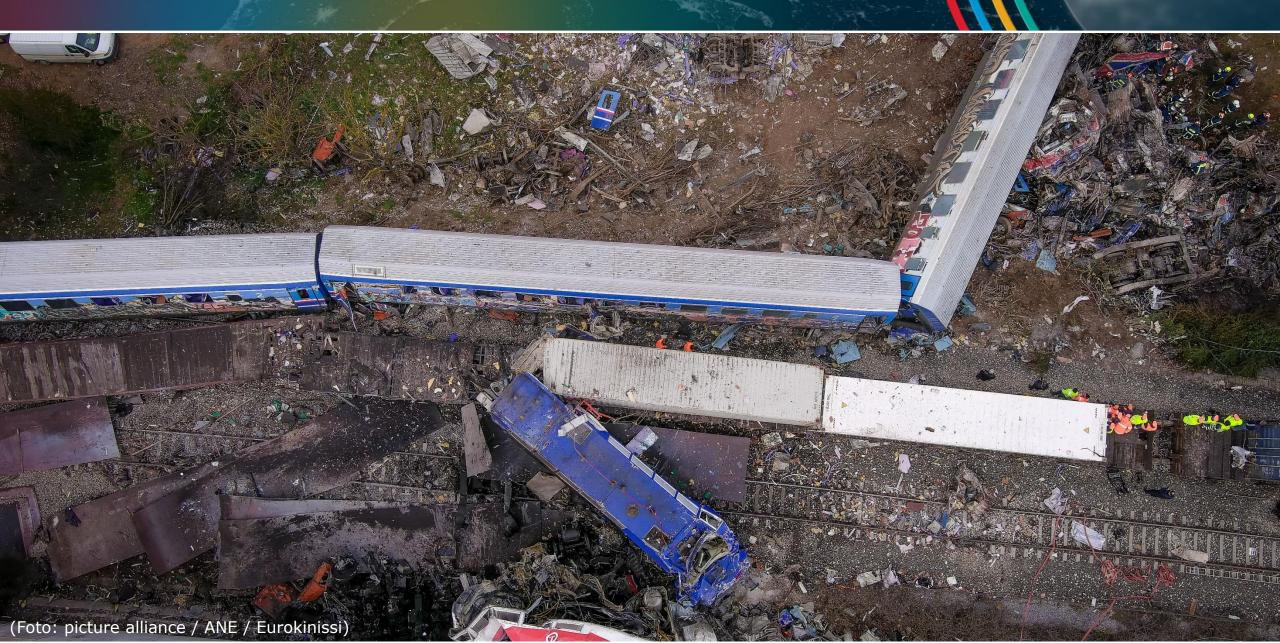
## Larisa/Greece, 28.02.2023, Athens–Thessaloniki (ETCS L1)





#### Transfer of a Success Story in Aeronautics







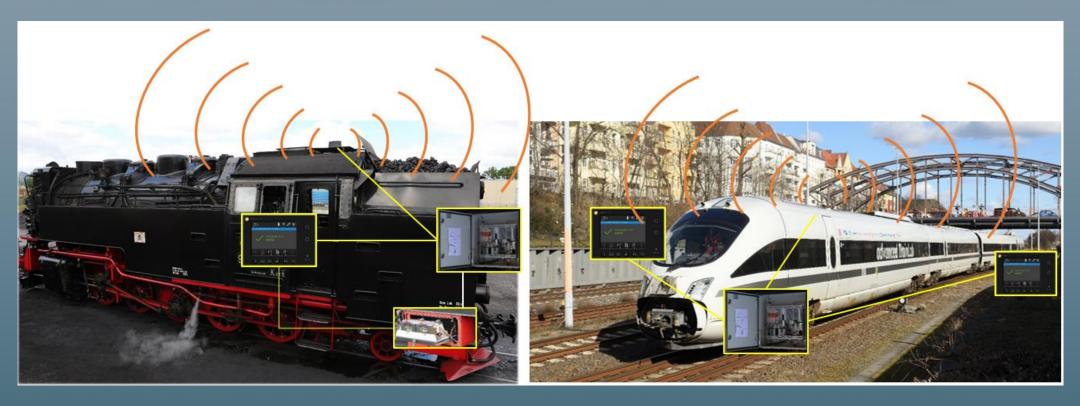






### Retrofit Assistance for Trains of any kind and age



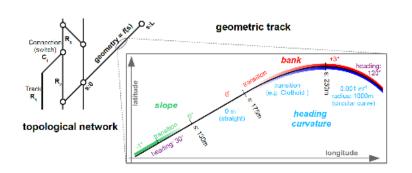


#### Key benefits:

- One onboard-unit per train and a driver interface. Costs scale only with number of trains, no longer track-km
- ✓ Formally, in most cases as add-on system no SIL2/4-qualification required
- Most important: No installation along infrastructure required

#### Key technology: Track-Selective Onboard Localization



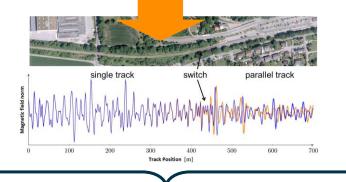


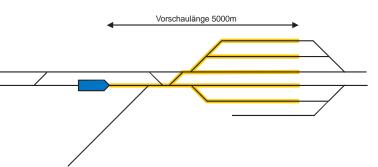
digital track data (map)





onboard sensors (Galileo/EGNOS, IMU, Mag, etc.)





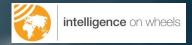
train movement model

Solution: Onboard multisensor train localization in relation to track



... even inside tunnel!

# Breakthrough in Localization within Difficult Railway Environments







Video of changing tracks inside 10.5km tunnel with ICE <a href="https://twitter.com/i/status/1369705272973930509">https://twitter.com/i/status/1369705272973930509</a>







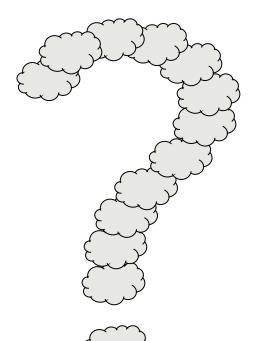
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## Questions

