



ERTMS deployment Where do we stand now? Where are we going?

Matthias Ruete,
European Coordinator for ERTMS

ERTMS 2022 Conference
Day 2 | 27th of April 2022



@Transport_EU

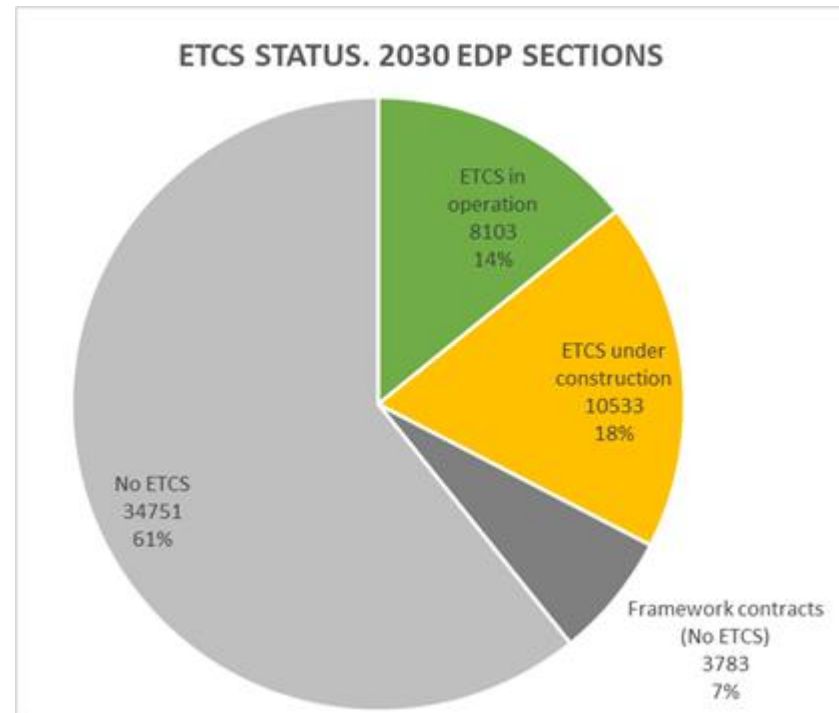
Mobility and
Transport

CONNECTING
EUROPE

The deployment on the CNC lines scheduled for 2030 is also taking momentum

Trackside ERTMS – State of play

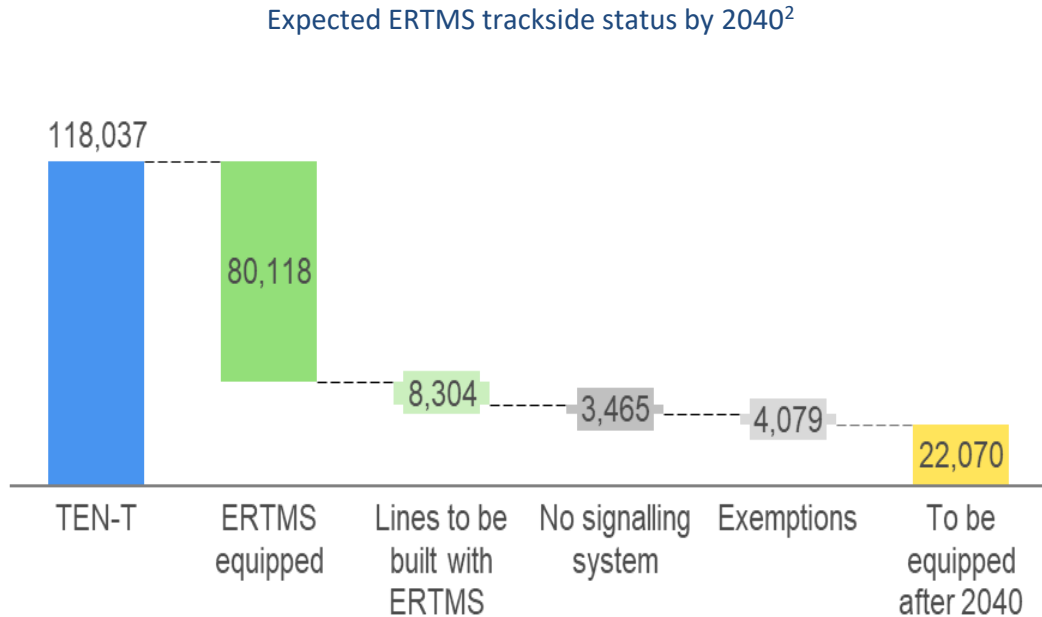
- The deployment on the lines scheduled by 2030 is also gradually taking momentum. This regards also lines included to the CNC under CEF2
- By September 2021, ETCS was deployed on 14% of the lines of the CNC expected to be equipped by 2030 (CEF 2 alignment - Total 57,170 km)
- Additional 25% are covered by contracts (including framework contracts)



By 2040 the vast majority of the TEN-T Network and beyond will be equipped. A number of Member States will have equipped their whole network by then.

Trackside ERTMS – Outlook

- **By 2040**, the majority of the TEN-T network will have been equipped.
- Given national plans, by 2040, **less than 20% of the TEN-T Network will still require class B system onboard to run.**



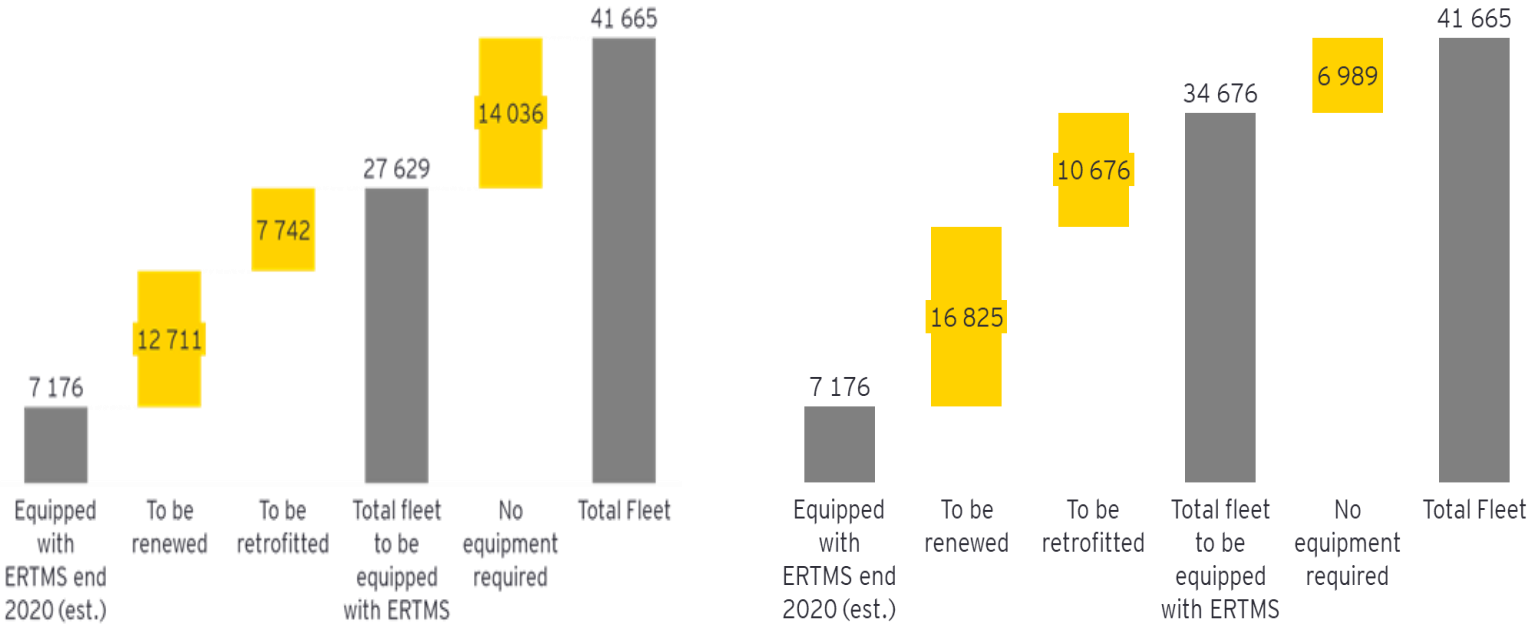
Expected ETCS status by 2040 according to the national plans



10 countries will have achieved full network coverage, and in total **no class-B system** will be required onboard in **14 countries**

- ETCS in operation by 2040 – Core Network
- ETCS in operation by 2040 – Comprehensive Network
- No ETCS operation – Core Network
- No ETCS operation – Comprehensive Network
- - - No ETCS operation, new construction – Core Network
- - - No ETCS operation, new construction – Comprehensive Network
- No ETCS operation without train protection system – Core Network
- No ETCS operation without train protection system – Comprehensive Network

Total fleet to be equipped with ERTMS by 2030 – low and high bound



- Based on currently available data some 15,000 vehicles will be equipped with ERTMS by 2030 (7,176 existing plus 7,680 to be renewed or retrofitted)
- Around 20,000 vehicles will reach the end of life and therefore are expected to be renewed in the next ten years. This is an opportunity to **render the fleet green and digital**



Thank you for your attention!