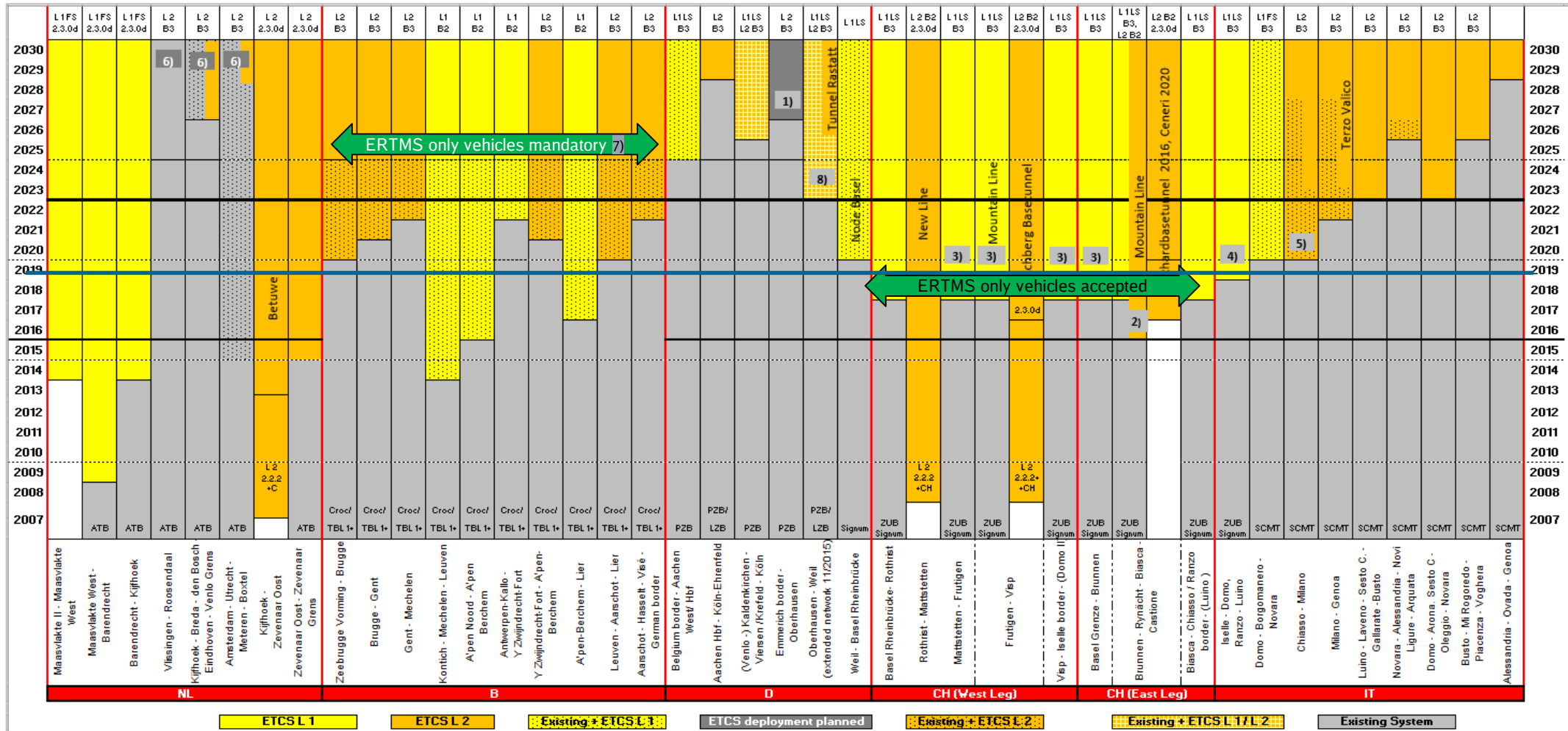


ERTMS deployment overview for RFC Rhine-Alpine

Status October 2019



- Implementation of ETCS is connected with the realisation of 3rd track project. The building approval is not yet confirmed for the whole line.
- The sections Brunnen-Rynächt (north access to Gotthard-Basetunnel and to the Gotthard mountain line) and Pollegio-Castione (south access to Gotthard-Basetunnel and to the Gotthard mountain line) are equipped with ETCS Level 2 since August 2015, resp. November 2015. Access to both sections is not possible without ETCS Level 2.
- In Switzerland ETCS L1 LS includes Euro-Signum P44 and Euro-ZUB P44 for locos not equipped with B3 OBU
- ETCS L1 LS₊ on Ranzo - Luino expected in 2019
- Start of service with ERTMS via Monte Olimpino 2 within 2020, via Monte Olimpino in 2021
- Amsterdam - Utrecht already equipped. Dutch ERTMS deployment programme decided in June 2019.
Roosendaal - Breda - Eindhoven - Venlo 2026 - 2031, Utrecht - Meteren - Eindhoven 2028 - 2031, Node of Utrecht, Amsterdam Centraal and Roosendaal - Misingen tbd.
- Date for ERTMS only vehicles mandatory by 16.12.2025 (decided by royal decree). Class B system and TBL 1+ will be removed
- Depending on different implementation sections 2022 ff