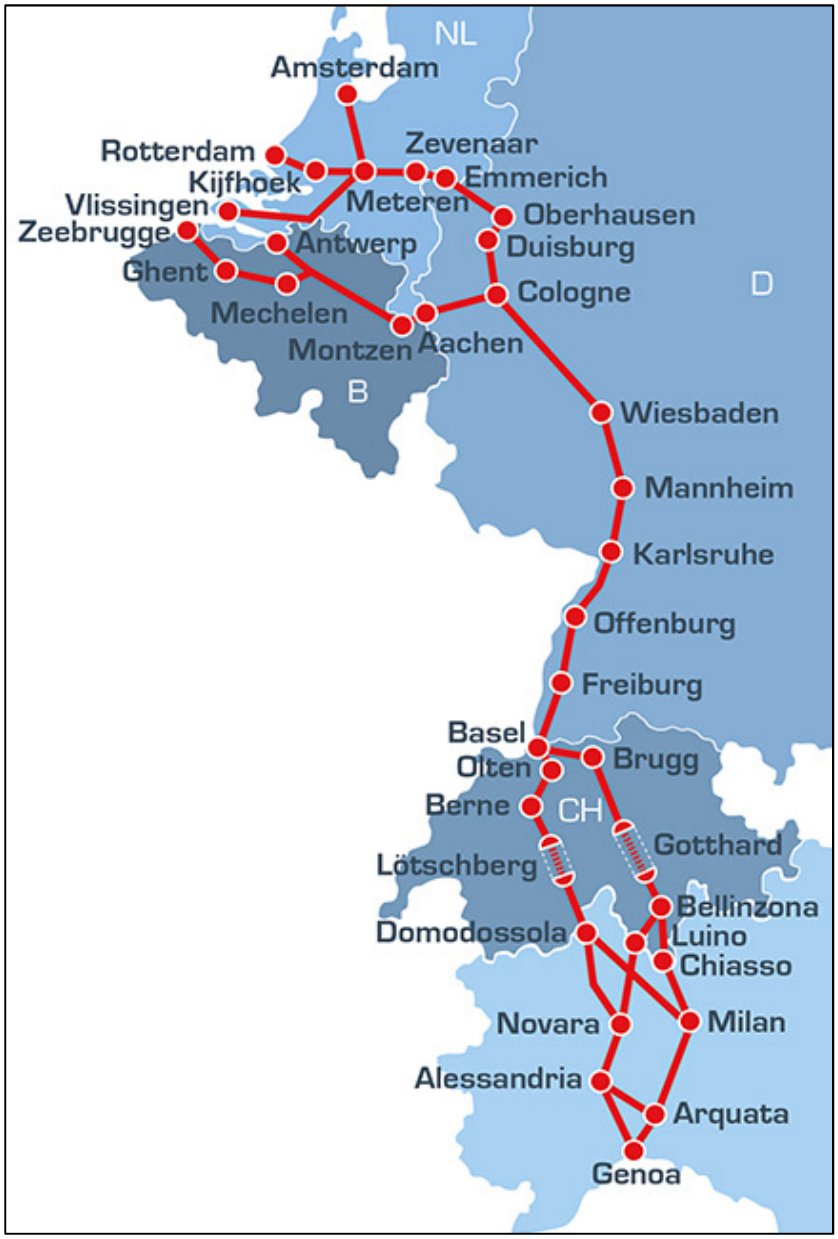
RFC Rhine-Alpine

IMPLEMENTATION PLAN Update 2018

ANNEX 5D: Maps for ERTMS Deployment Plan



Date of issue: 5. November 2018

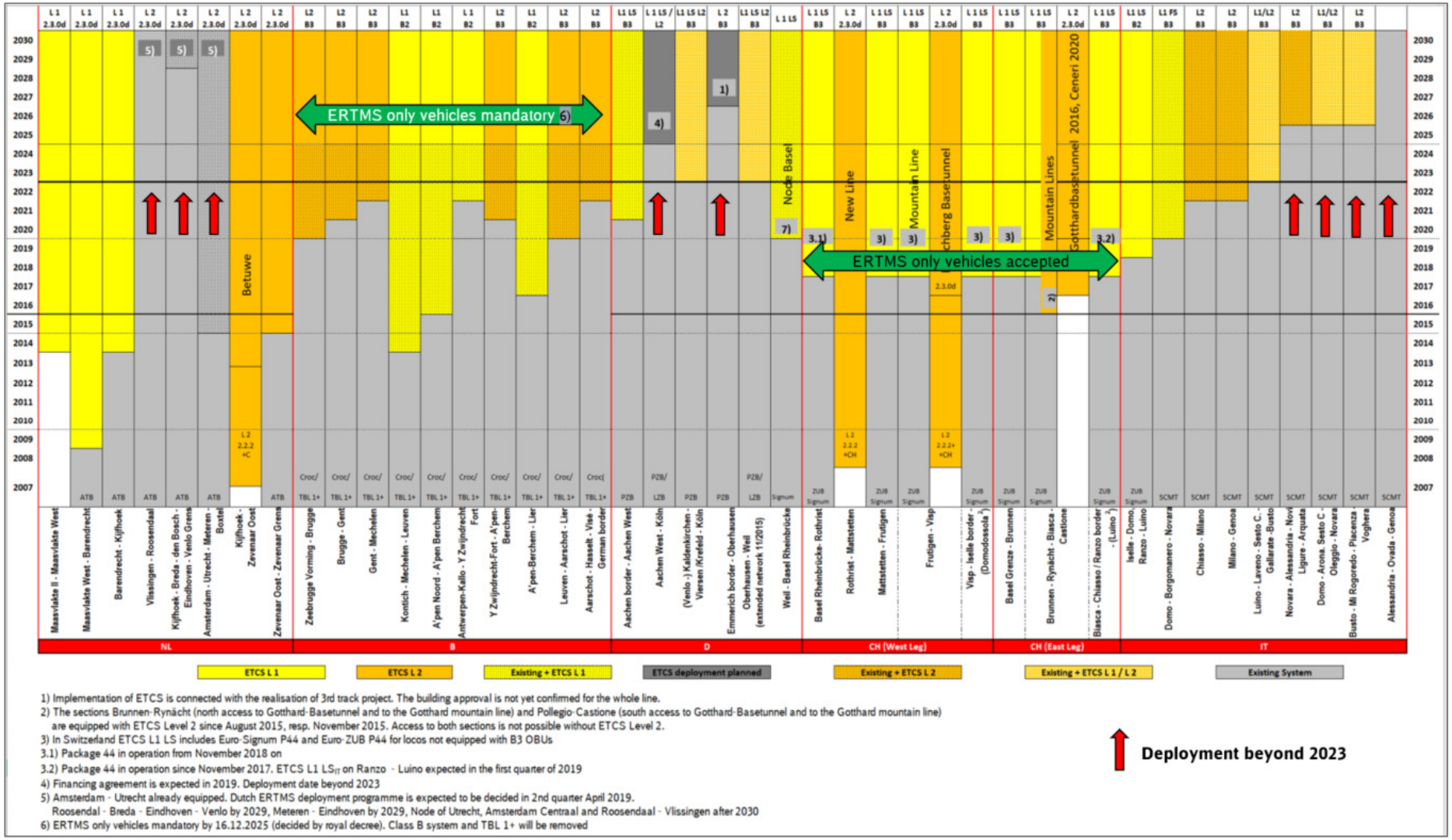
List of figures

Illustration directory

Figure 1 ERTMS Deployment Overview RFC RALP 3
Figure 2 Go Live of ETCS installations progress until 2023 4
Figure 3 ETCS deployment in 2023 5
Figure 4 ETCS deployment in 2028 6
Figure 5 ETCS deployment type 7
Figure 6 ETCS System Version 8
Figure 7 Gap analysis 2023 – trackside perspective 9
Figure 8 Gap analysis 2028 – trackside perspective 10
Figure 9 Zevenaar Oost – Emmerich (2022) 11
Figure 10 Zevenaar Oost – Emmerich (20xx) 11
Figure 11 Venlo – Kaldenkirchen (2023) 12
Figure 12 Venlo – Kaldenkirchen (2029) 12
Figure 13 Montzen – Aachen West (2021) 13
Figure 14 Montzen – Aachen West (2023) 13
Figure 15 Weil a. R. – Basel Bad. Bf – Muttenz RB (2019) 14
Figure 16 Brig – Iselle – Domodossola (2019) 14
Figure 17 Ranzo – Luino (2019) 15
Figure 18 Chiasso 2020 15

ERTMS deployment overview for RFC Rhine-Alpine

Status September 2018 (regular updates available in CIP/ Information Documents/ Other Information Documents/ RFC Rhine-Alpine/ ERTMS Deployment)



1) Implementation of ETCS is connected with the realisation of 3rd track project. The building approval is not yet confirmed for the whole line.
2) 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.
3) In Switzerland ETCS L1 LS includes Euro-Signum P44 and Euro-ZUB P44 for locos not equipped with B3 OBUs
3.1) Package 44 in operation from November 2018 on
3.2) Package 44 in operation since November 2017. ETCS L1 LS_{IT} on Ranzo - Luino expected in the first quarter of 2019
4) Financing agreement is expected in 2019. Deployment date beyond 2023
5) Amsterdam - Utrecht already equipped. Dutch ERTMS deployment programme is expected to be decided in 2nd quarter April 2019.
Roosendal - Breda - Eindhoven - Venlo by 2029, Meteren - Eindhoven by 2029, Node of Utrecht, Amsterdam Centraal and Roosendaal - Vlissingen after 2030
6) ERTMS only vehicles mandatory by 16.12.2025 (decided by royal decree). Class B system and TBL 1+ will be removed

Figure 1 ERTMS Deployment Overview RFC RALP

Go Live of ETCS installations progress until 2023

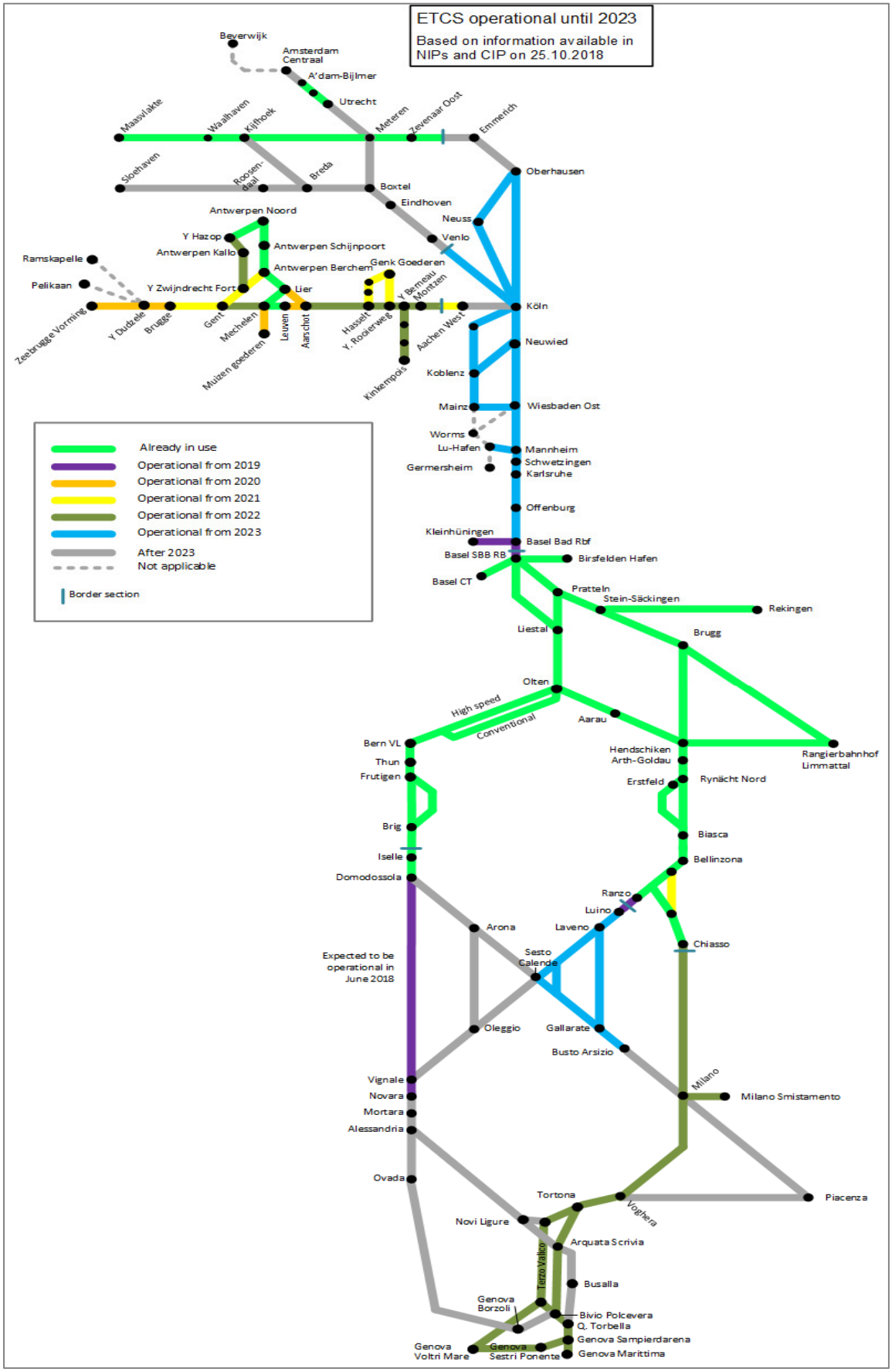


Figure 2 Go Live of ETCS installations progress until 2023

ETCS deployment in 2023

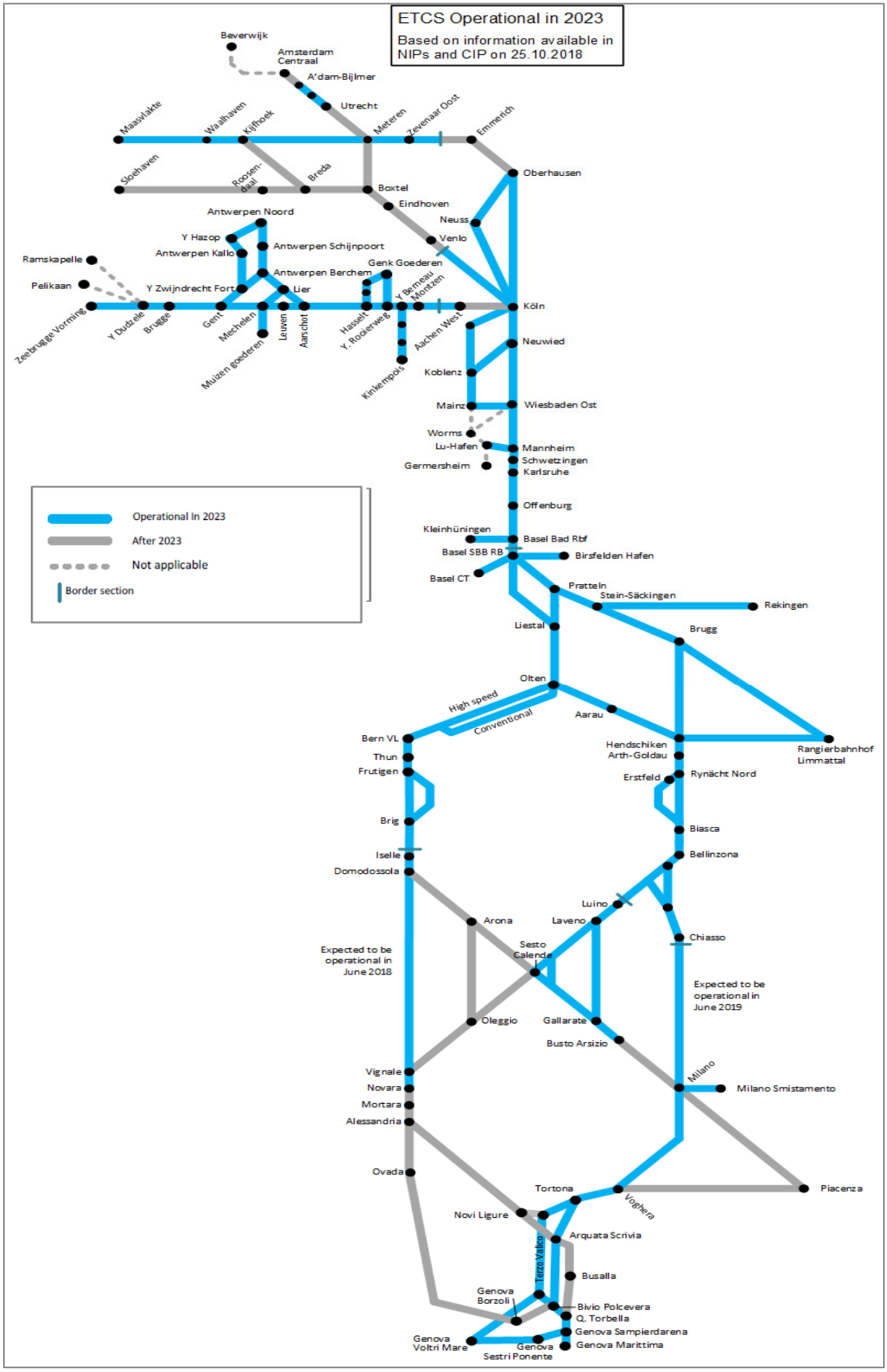


Figure 3 ETCS deployment in 2023

ETCS deployment in 2028

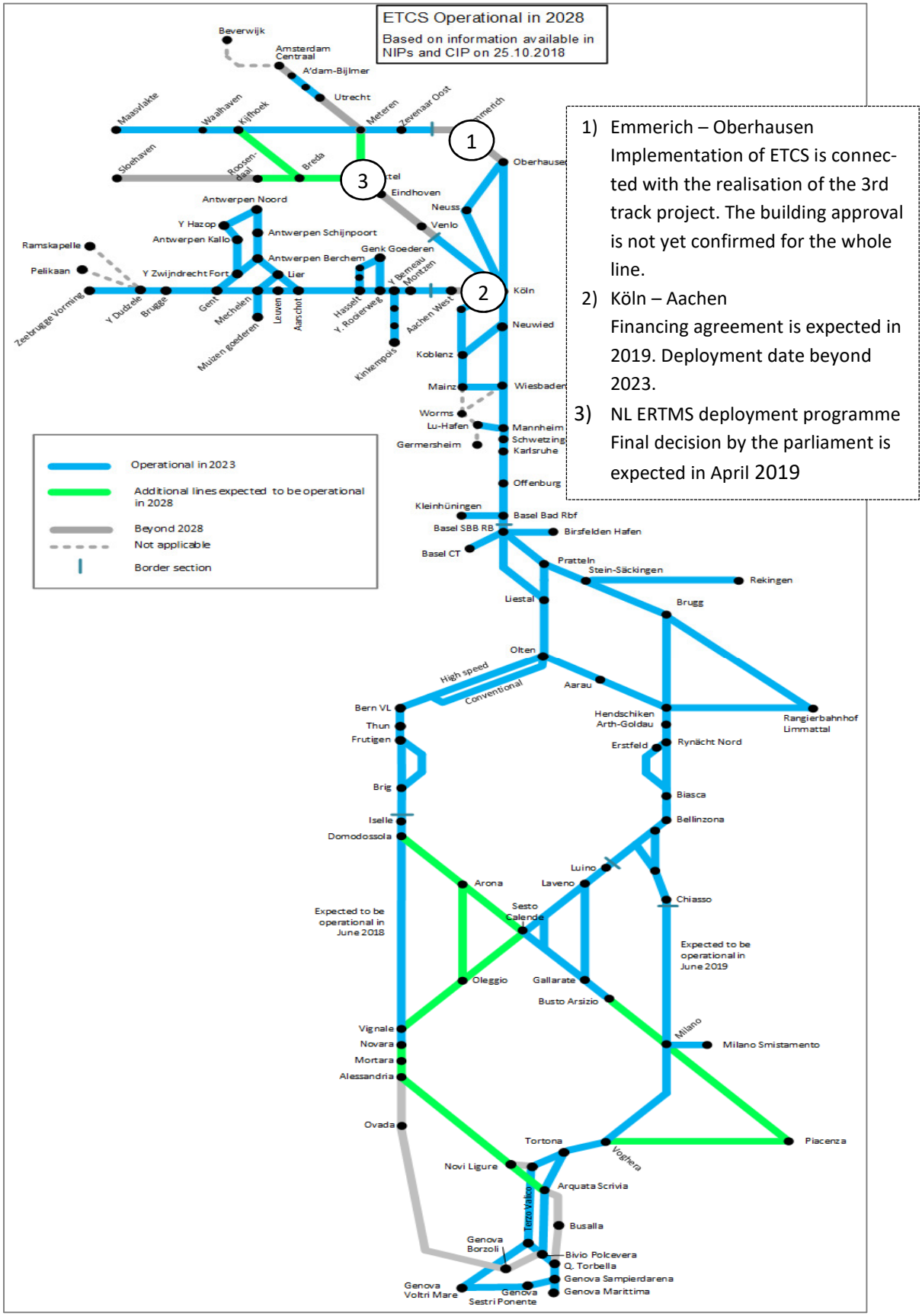


Figure 4 ETCS deployment in 2028

ETCS deployment type

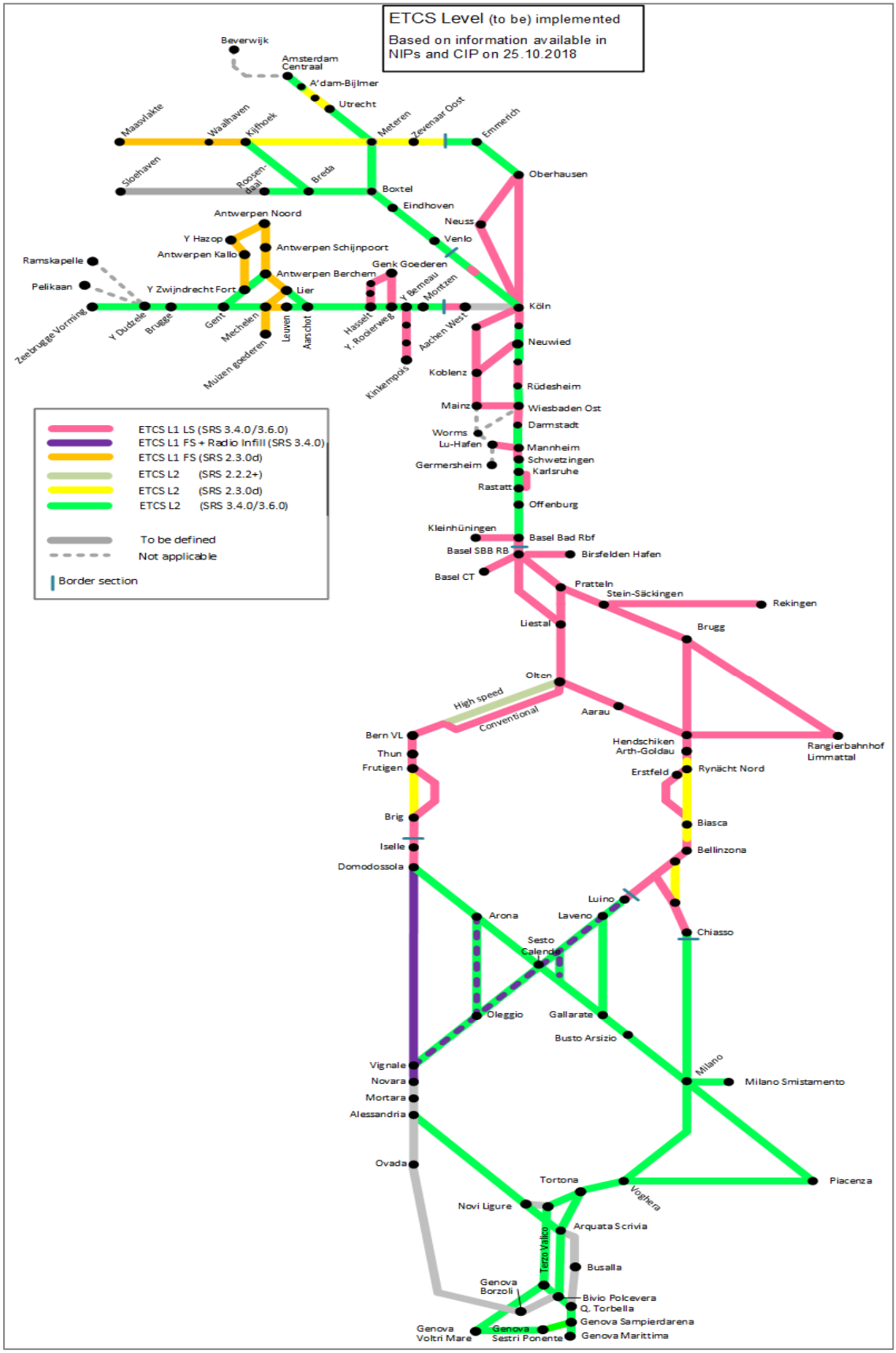


Figure 5 ETCS deployment type

ETCS System Version

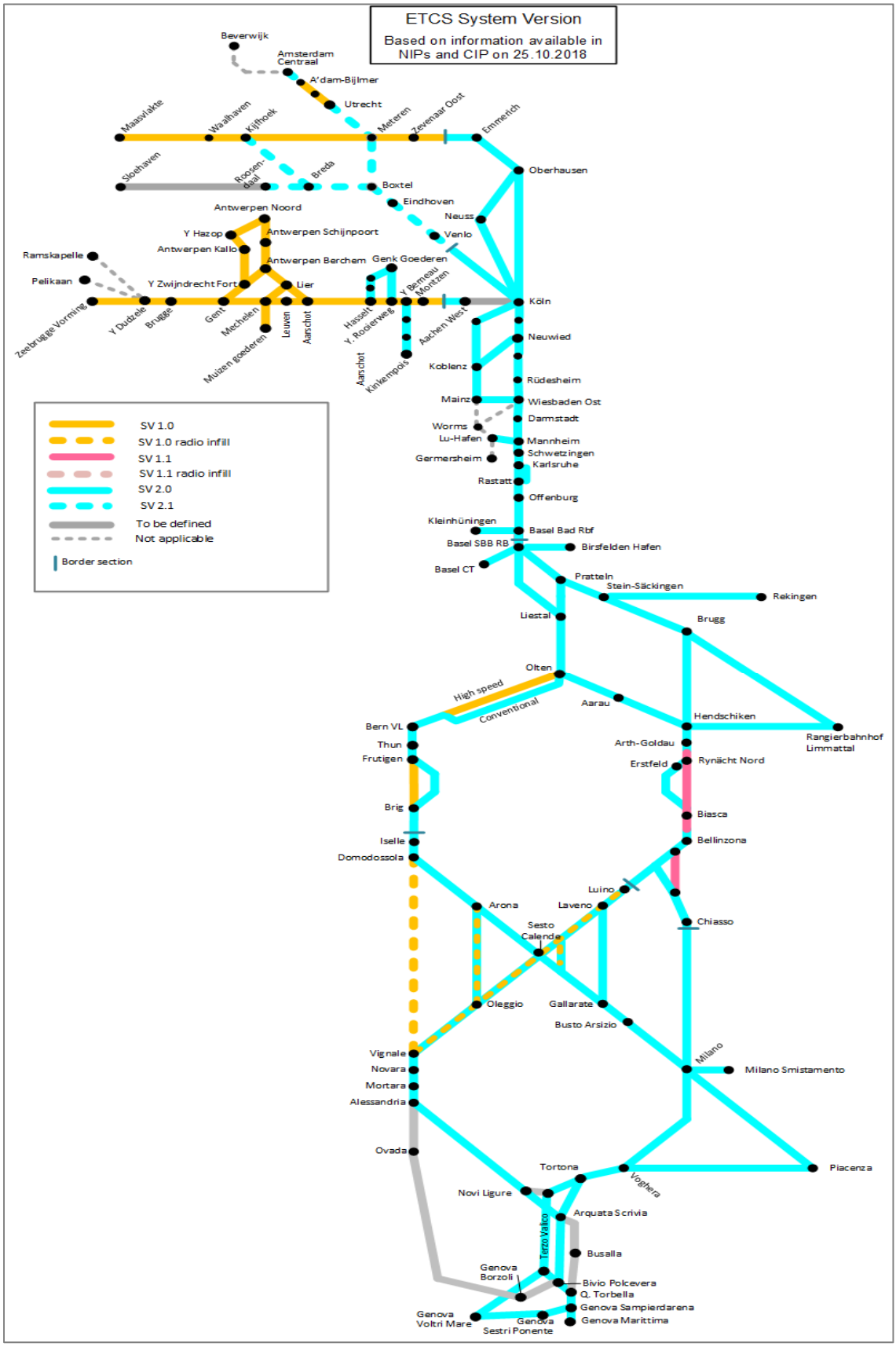


Figure 6 ETCS System Version

ETCS deployment gap analysis 2023 – trackside perspective

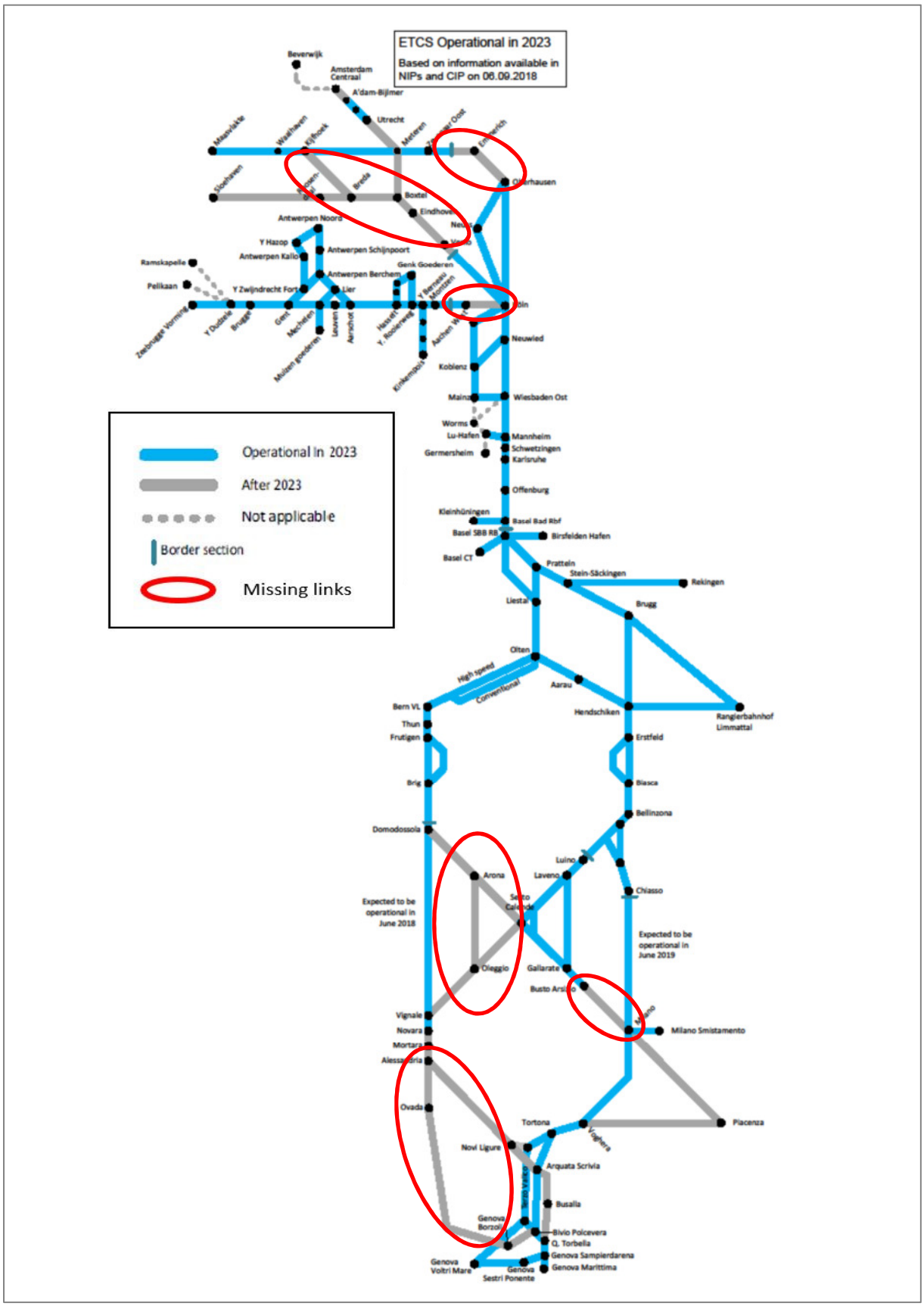


Figure 7 Gap analysis 2023 – trackside perspective

ETCS deployment gap analysis 2028 – trackside perspective

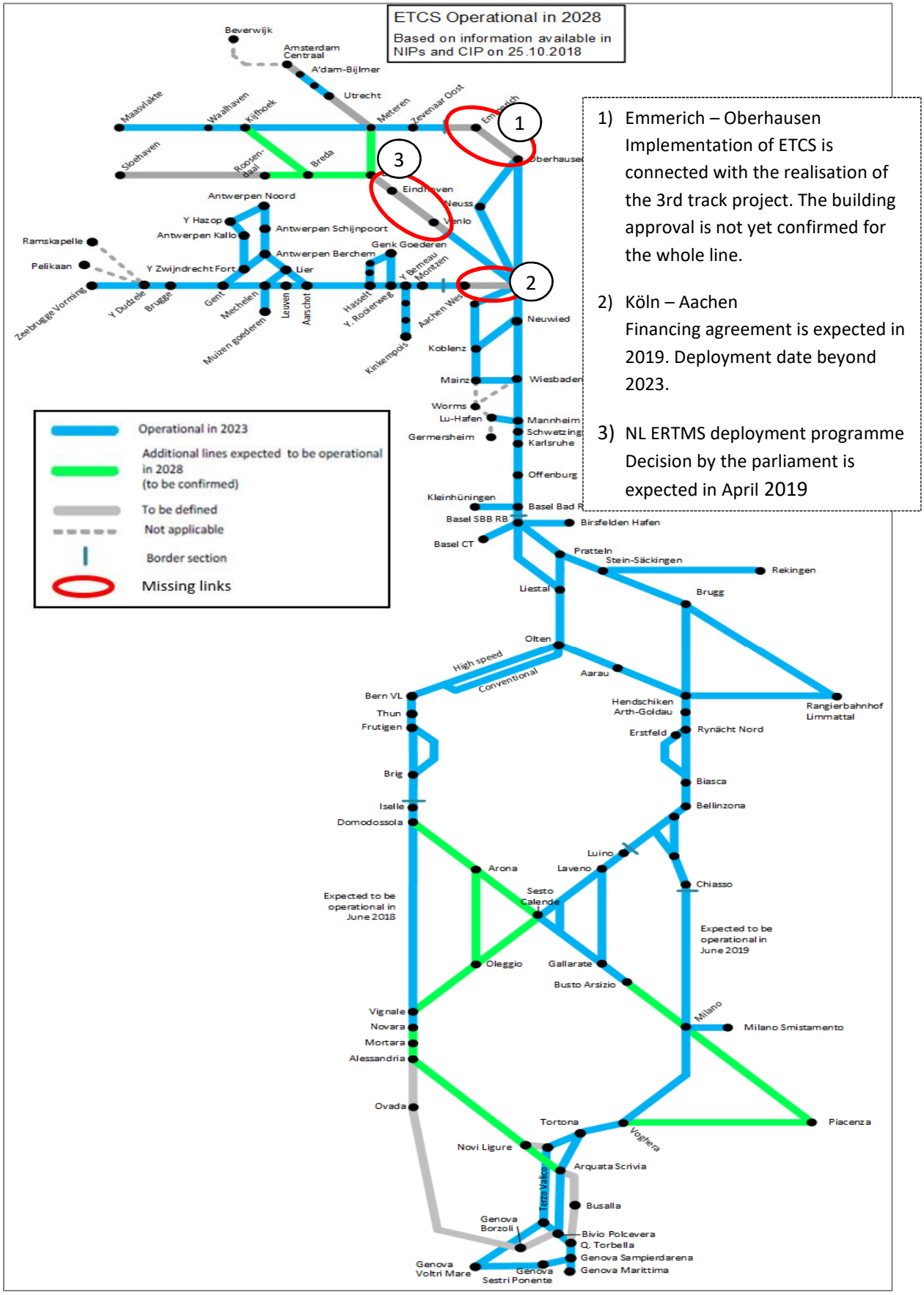
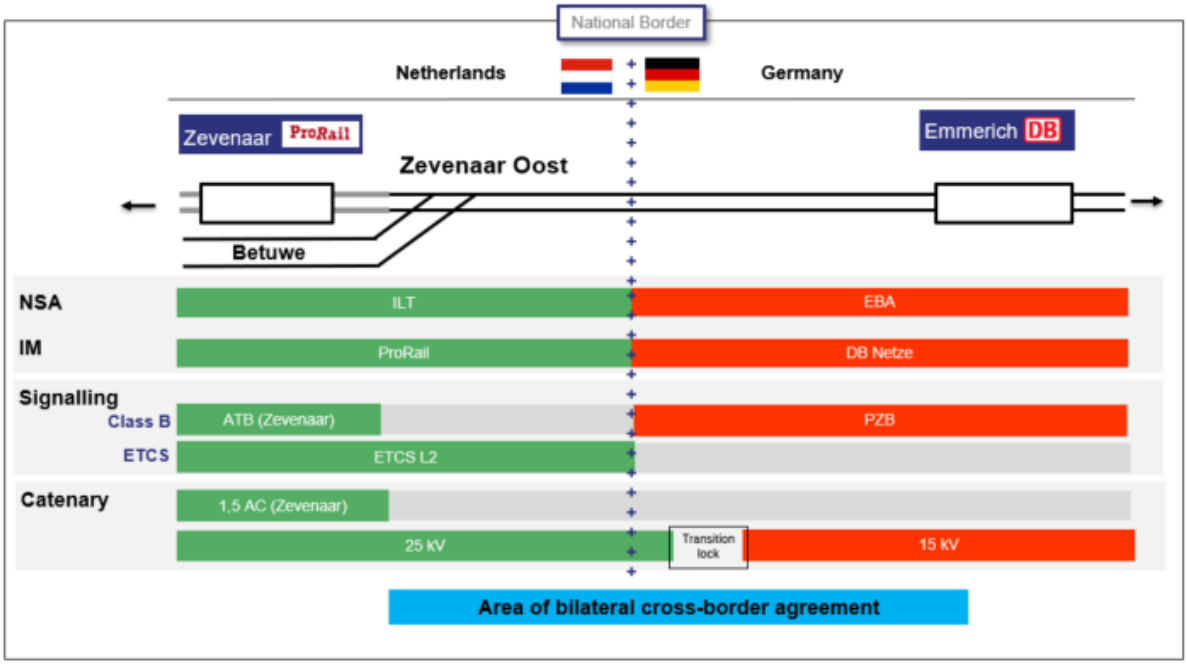


Figure 8 Gap analysis 2028 – trackside perspective

Cross-border installations

Zevenaar Oost – Emmerich (2022)



igure 9 Zevenaar Oost – Emmerich (2022)

Zevenaar Oost – Emmerich (20xx)

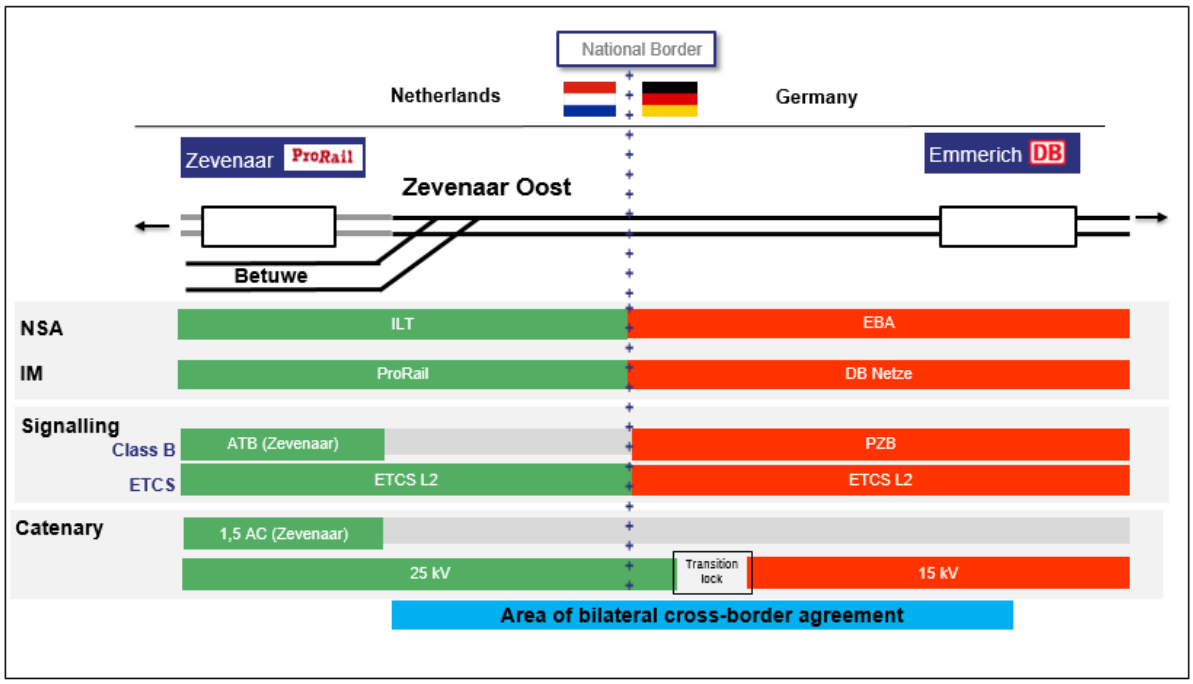


Figure 10 Zevenaar Oost – Emmerich (20xx)

Venlo – Kaldenkirchen (2023)

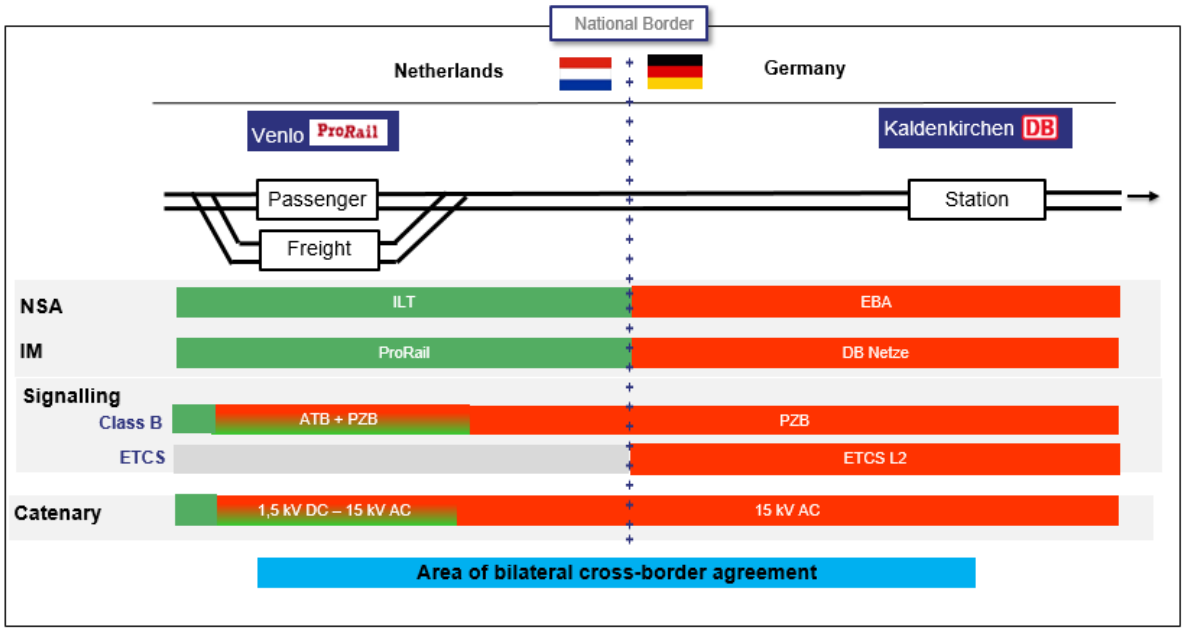


Figure 11 Venlo – Kaldenkirchen (2023)

Venlo – Kaldenkirchen (2029)

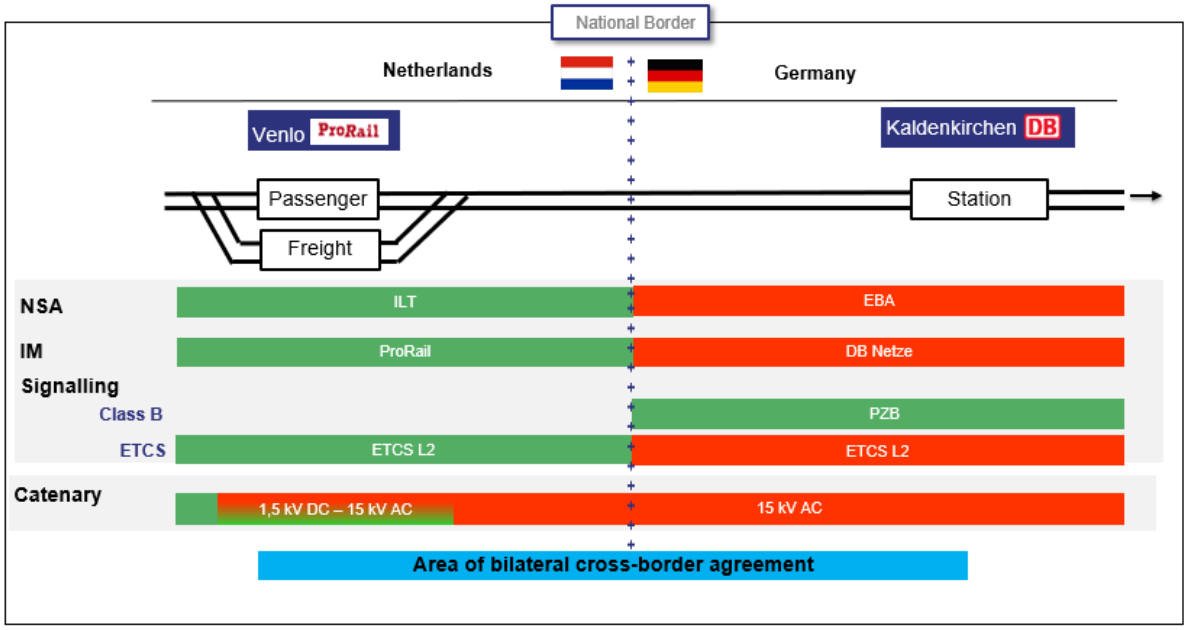


Figure 12 Venlo – Kaldenkirchen (2029)

Montzen – Aachen West (2021)

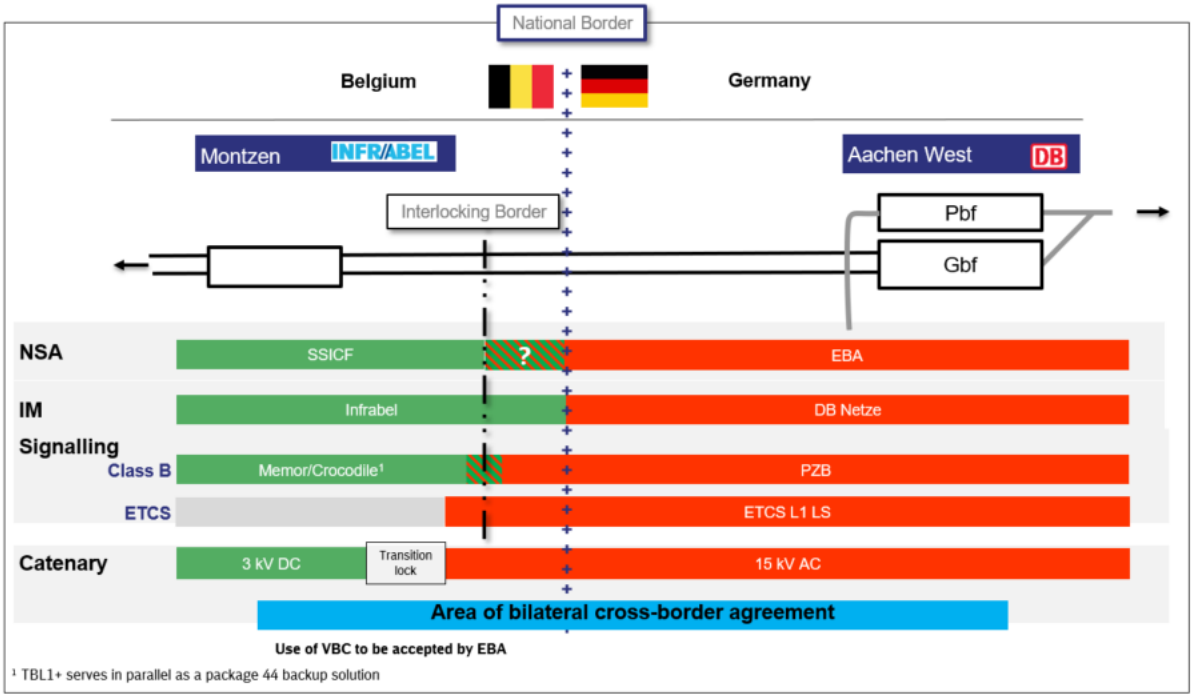


Figure 13 Montzen – Aachen West (2021)

Montzen – Aachen West (2023)

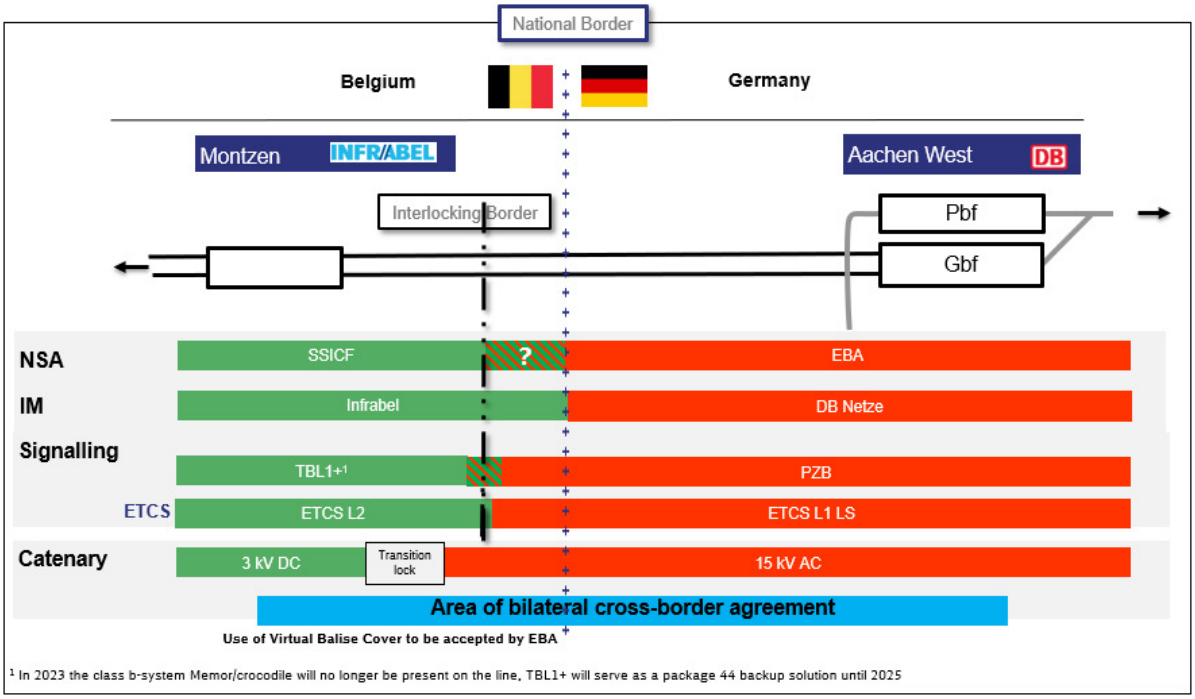


Figure 14 Montzen – Aachen West (2023)

Weil a. R. – Basel Bad. Bf – Muttenz RB (2019)

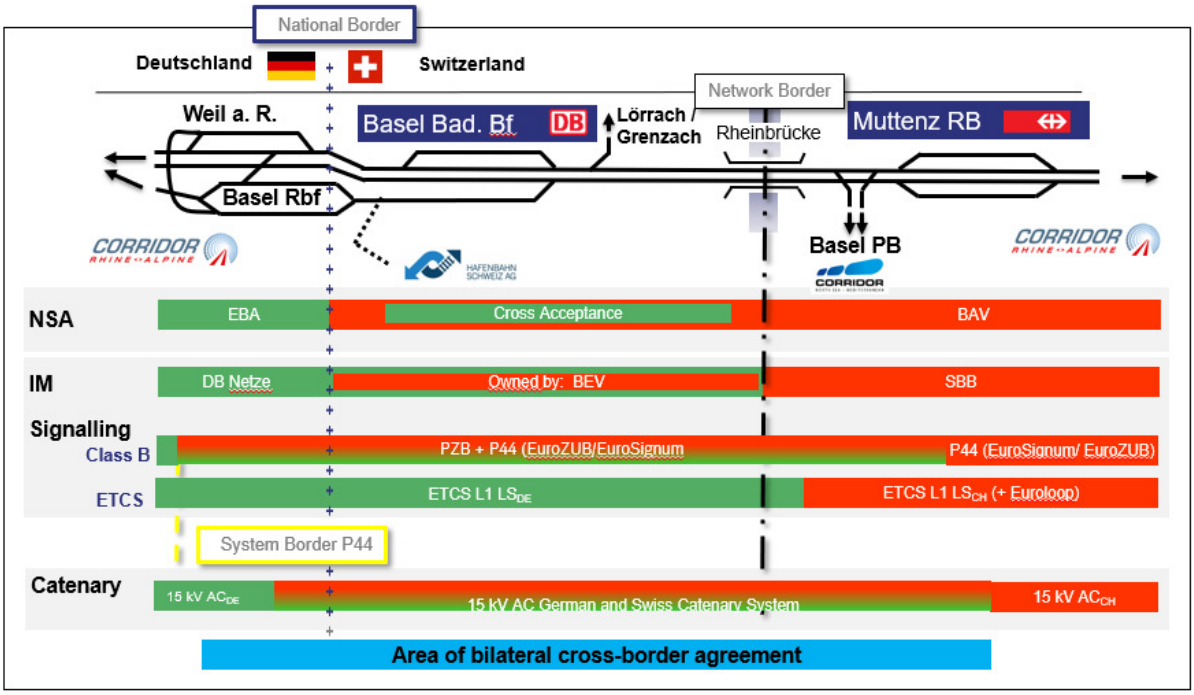


Figure 15 Weil a. R. – Basel Bad. Bf – Muttenz RB (2019)

Brig – Iselle – Domodossola (2019)

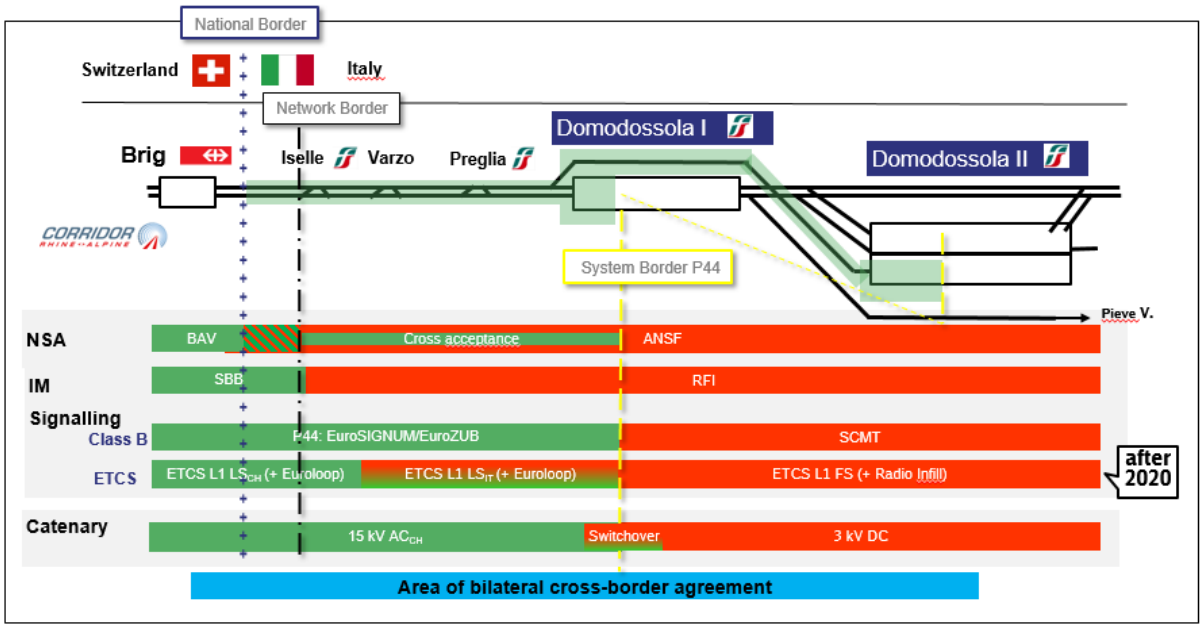


Figure 16 Brig – Iselle – Domodossola (2019)

Ranzo – Luino (2019)

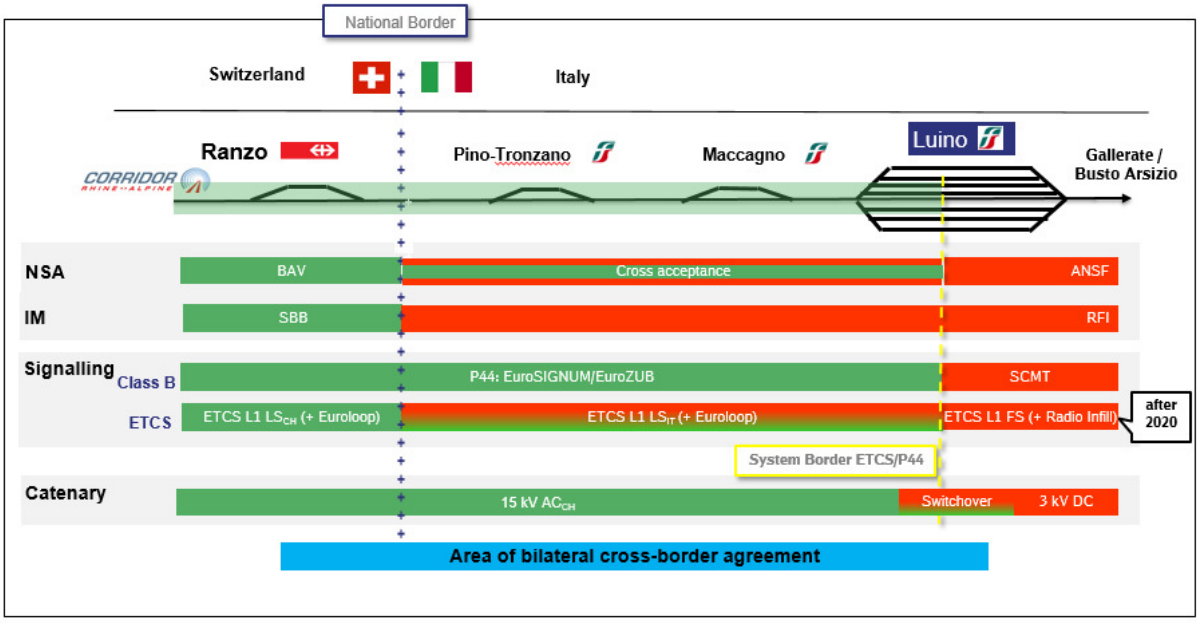


Figure 17 Ranzo – Luino (2019)

Chiasso 2020

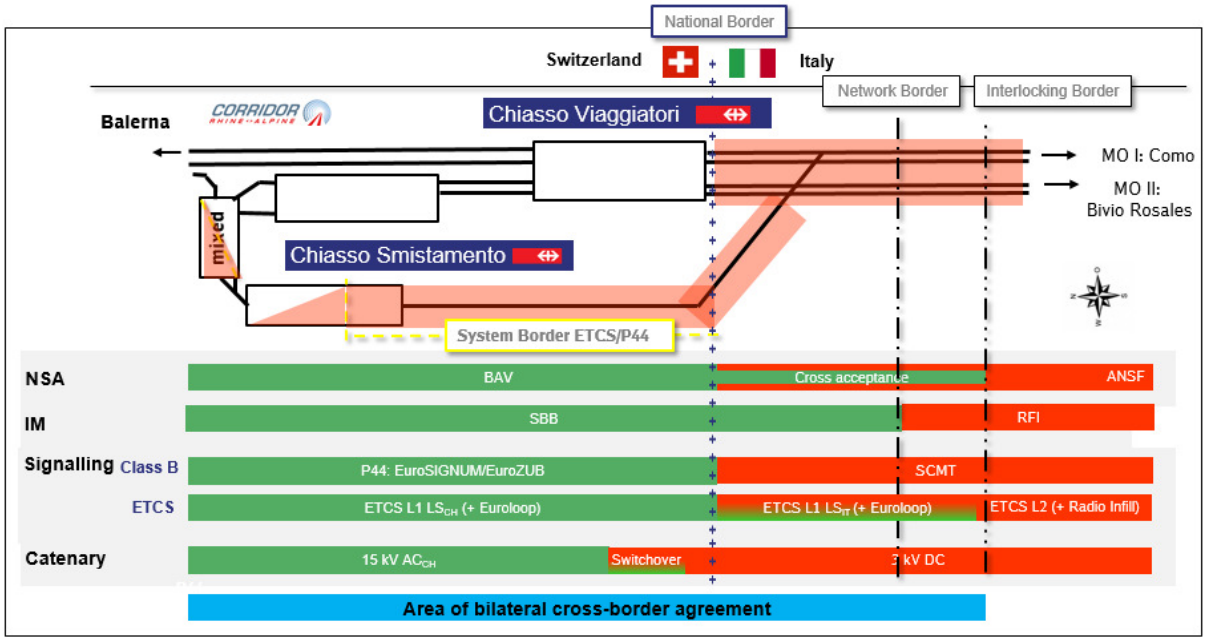


Figure 18 Chiasso 2020