

RFC Rhine-Alpine Graphical overview on ERTMS Deployment

Annex 1 to ERTMS Deployment overview



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ERTMS deployment overview for RFC Rhine-Alpine

Status September 2021 (regular updates available in [CIP](#) under: Information Documents/ Other Information Documents/ RFC Rhine-Alpine/ ERTMS Deployment)

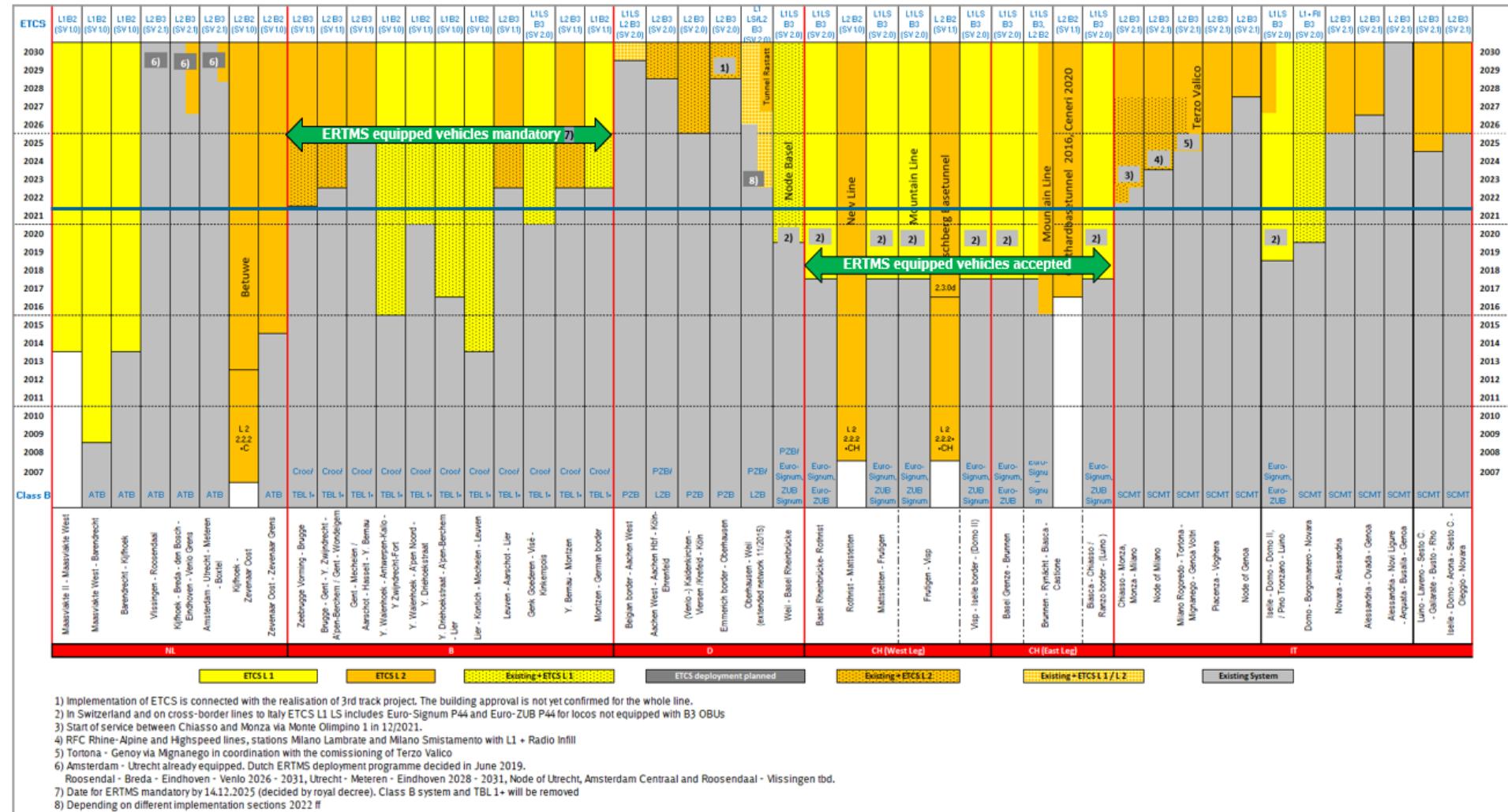


Figure 1 ERTMS Deployment Overview RFC RALF

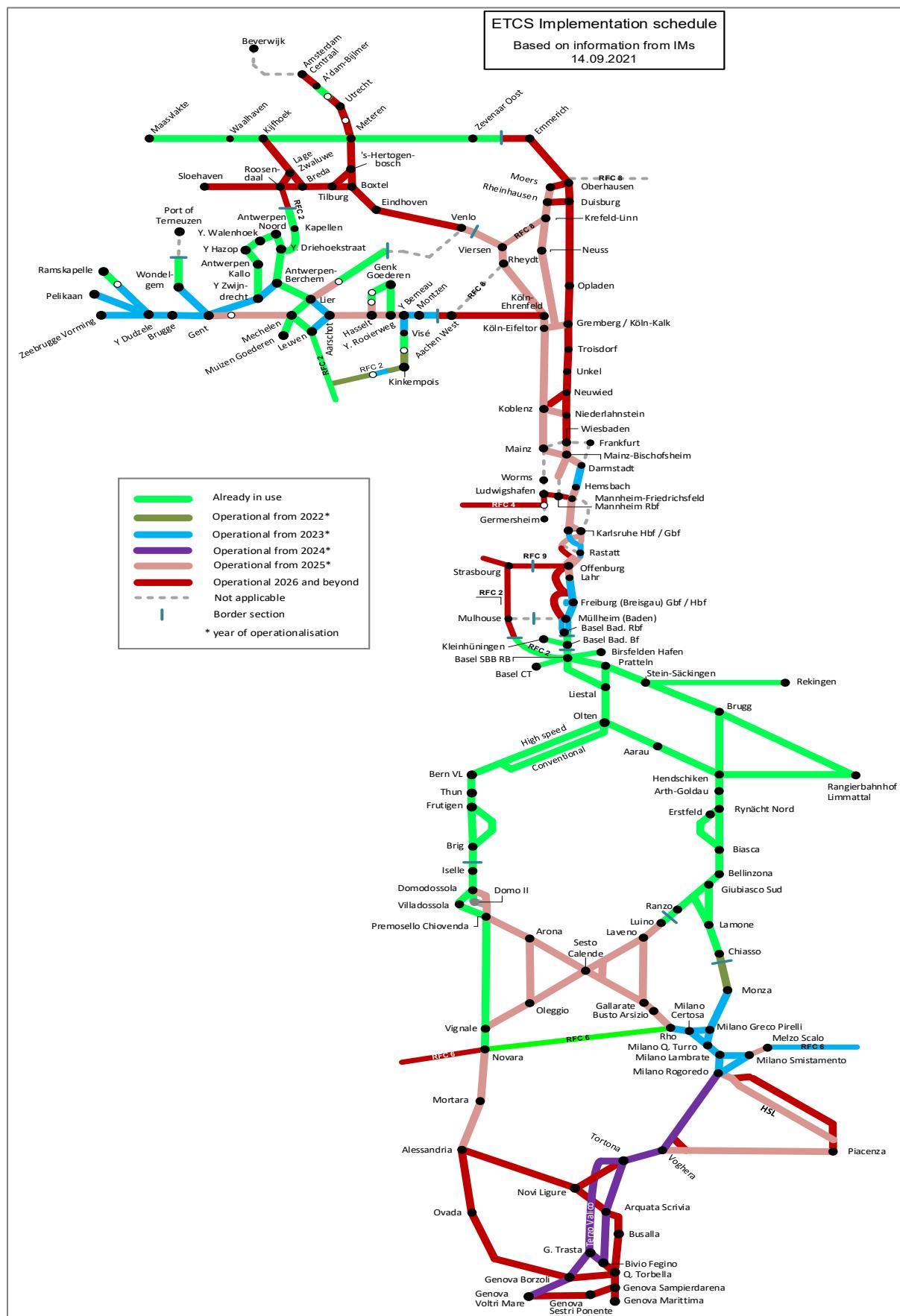


Figure 2 ETCS deployment progress

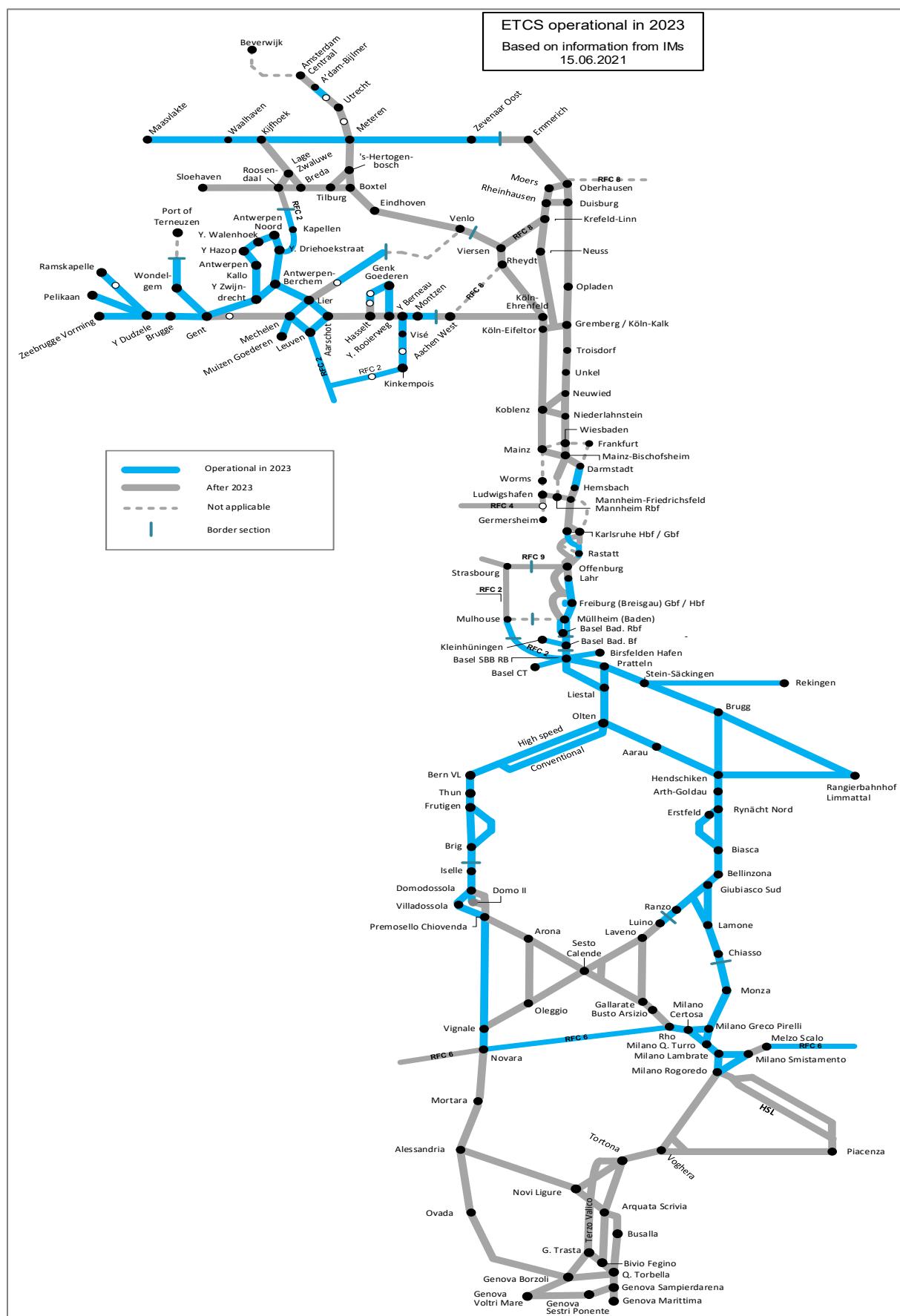


Figure 3 ETCS operational in 2023

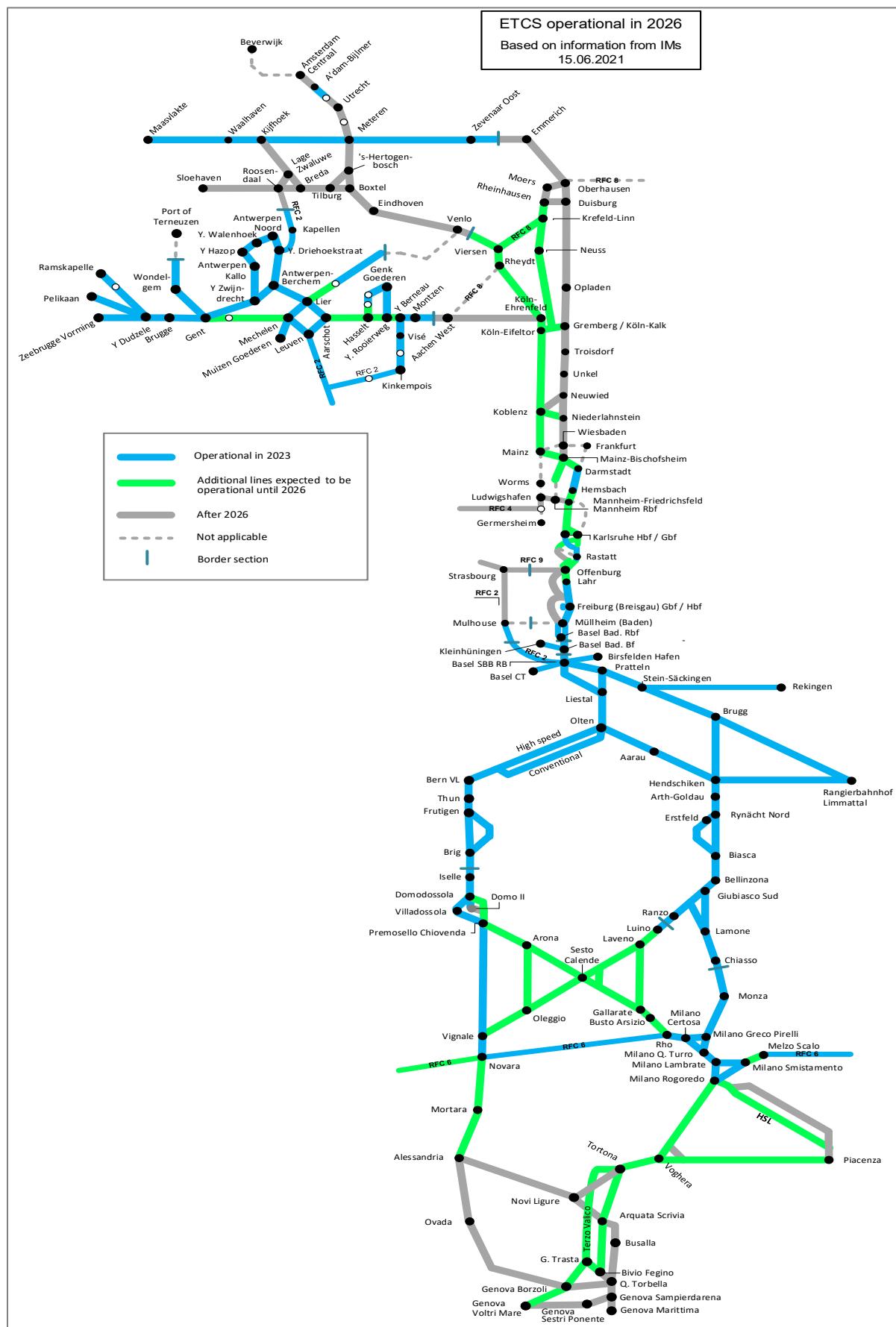


Figure 4 ETCS operational in 2026

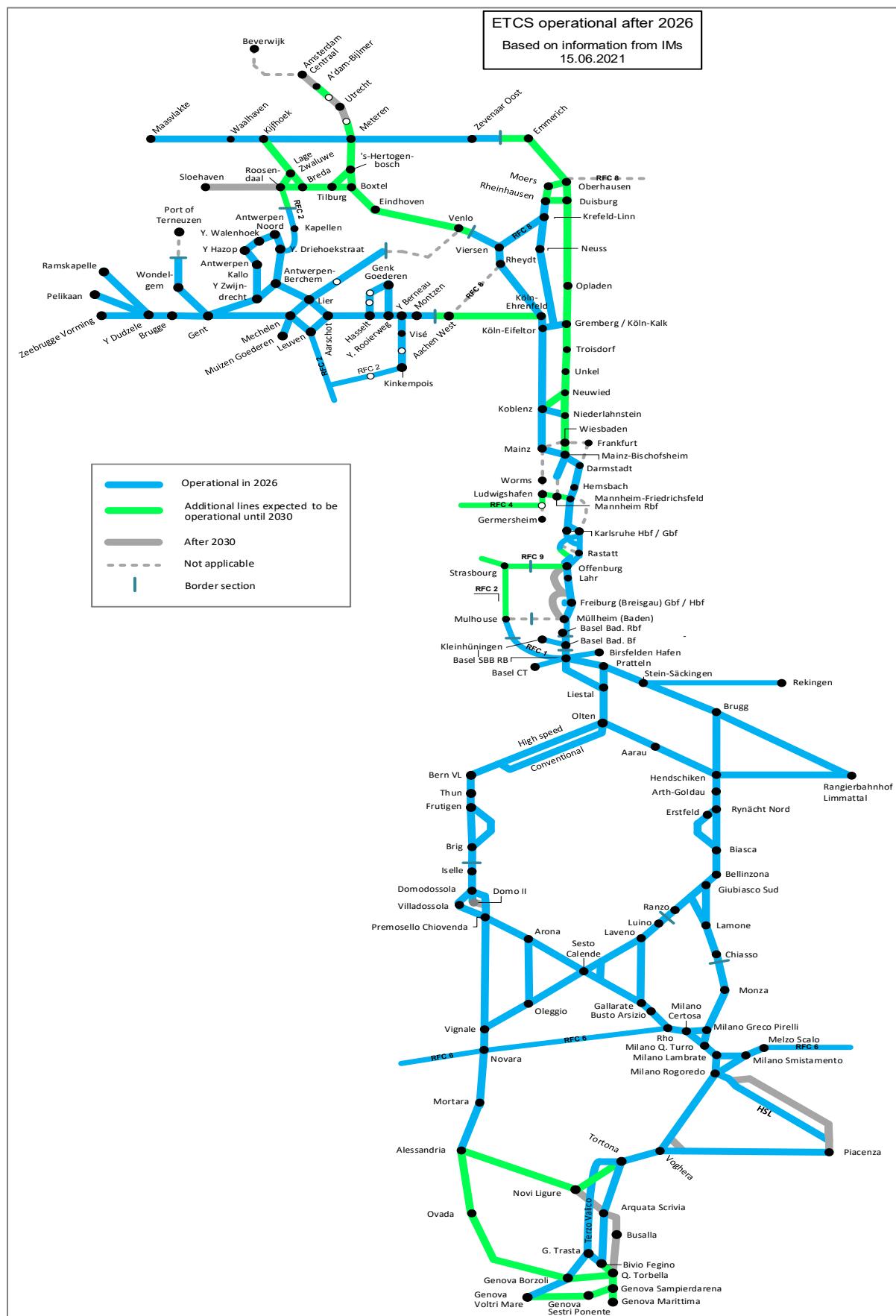


Figure 5 ETCS deployment after 2026

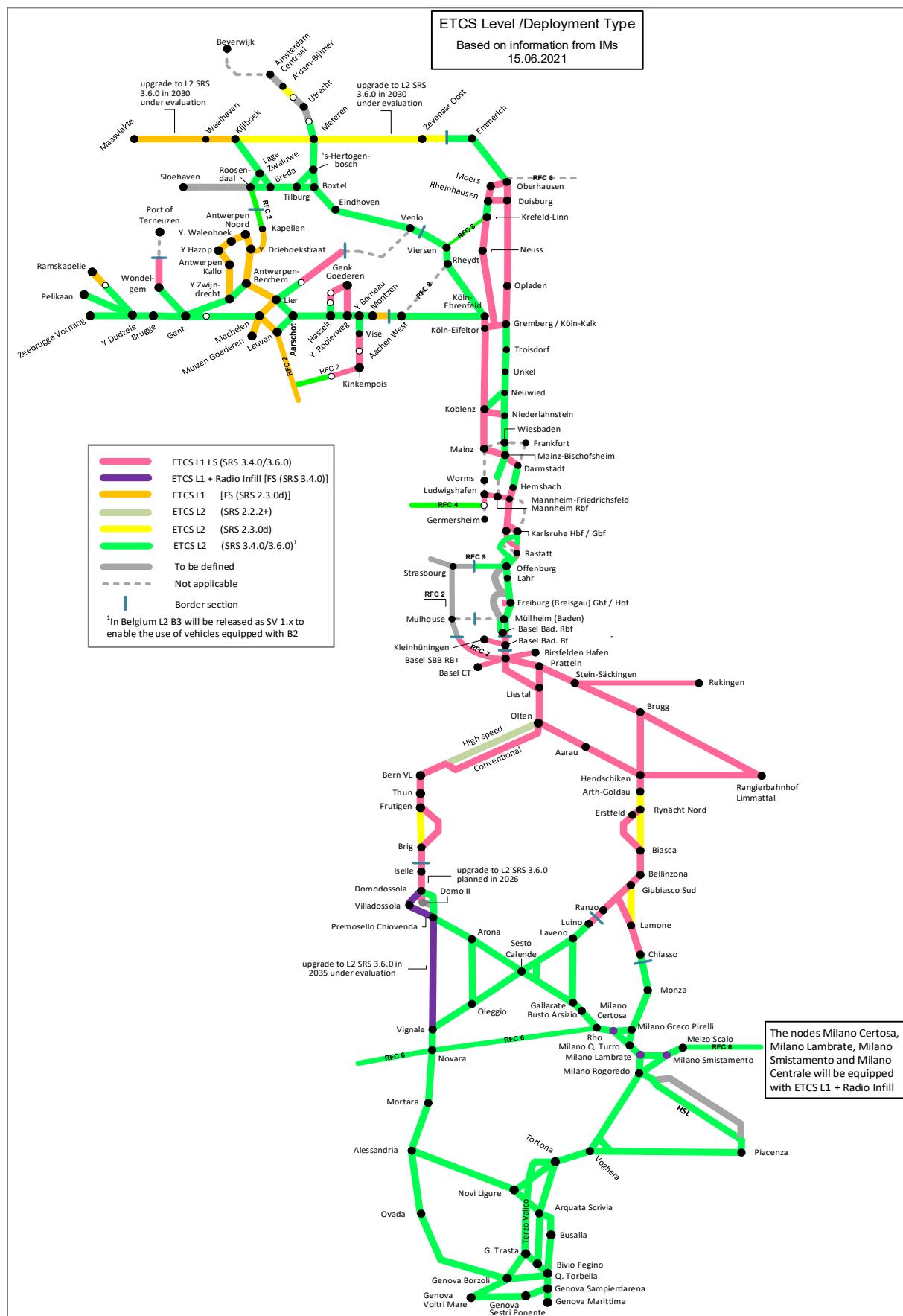


Figure 6 ETCS deployment type

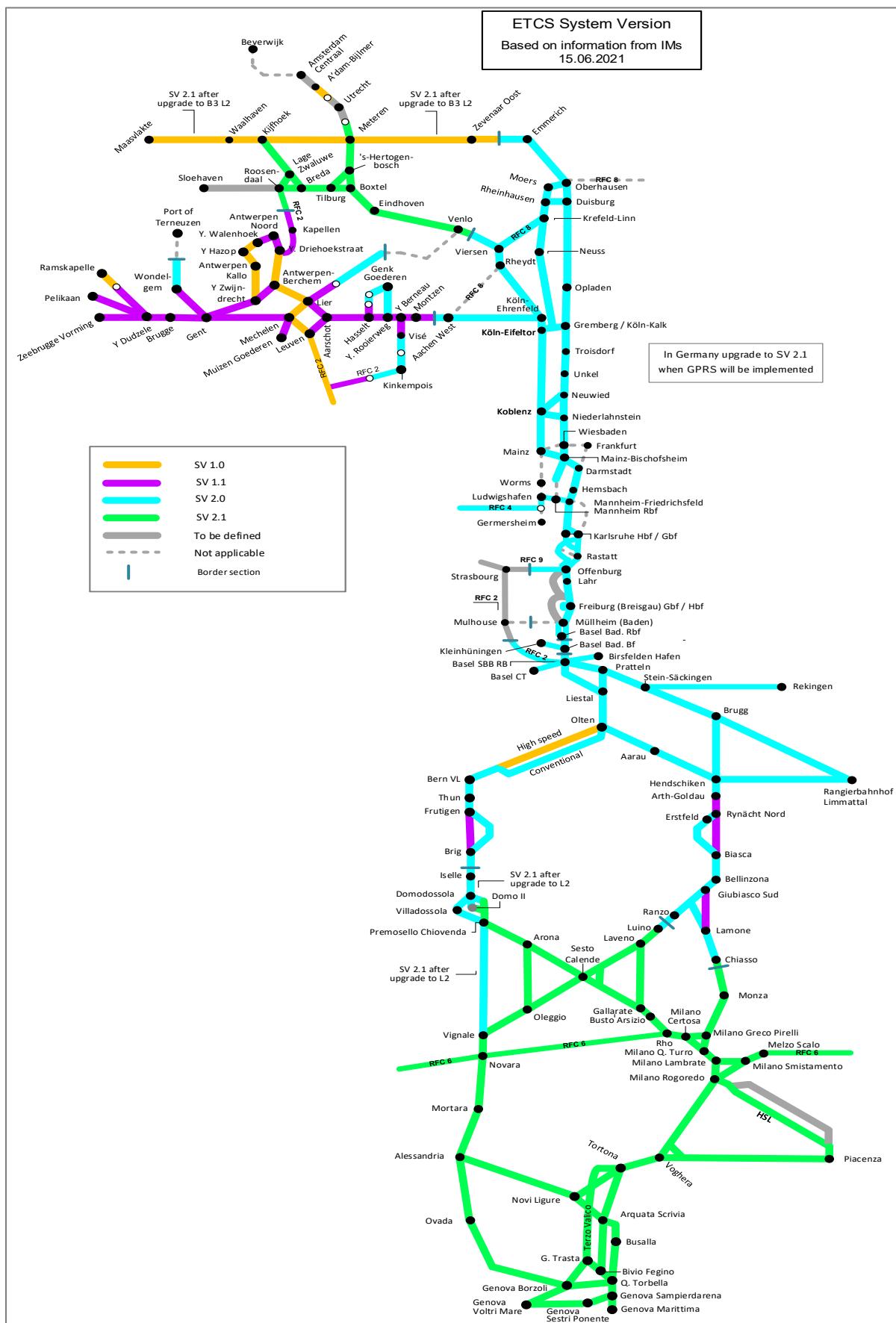


Figure 7 ETCS System Version

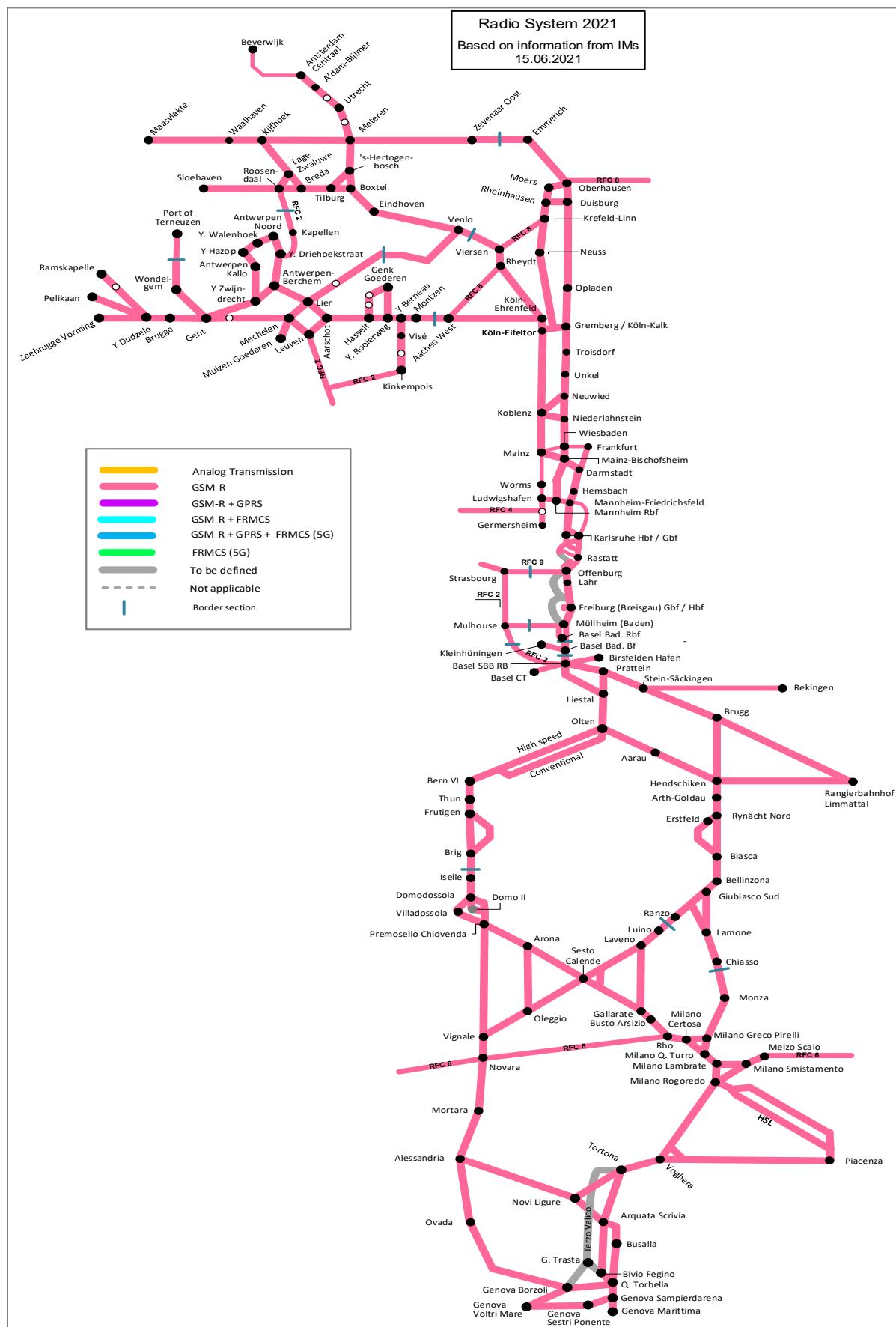


Figure 8 Radio System 2021

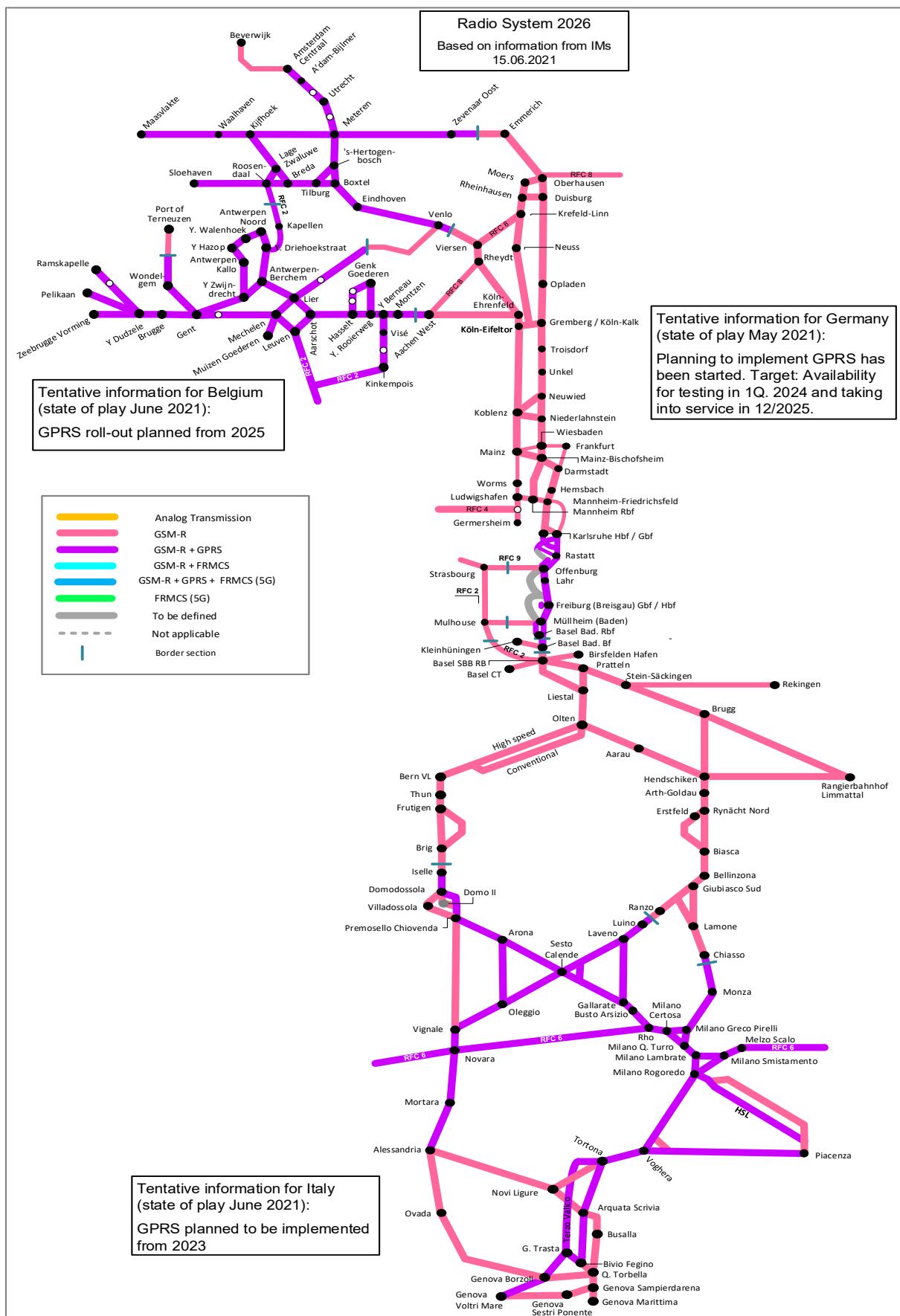


Figure 9 Radio System 2026

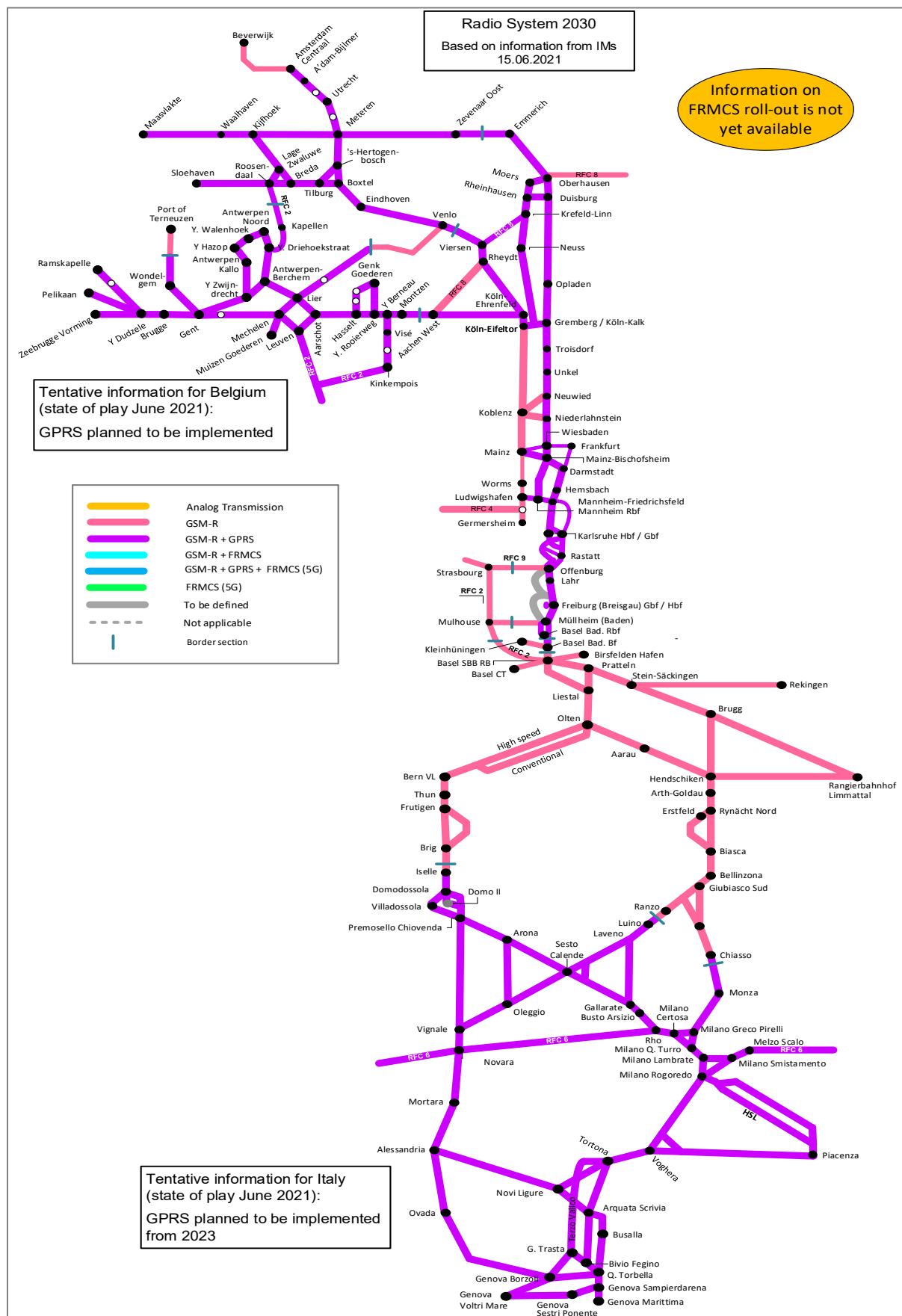


Figure 10 Radio System 2030

Availability of Class B/A systems 2021

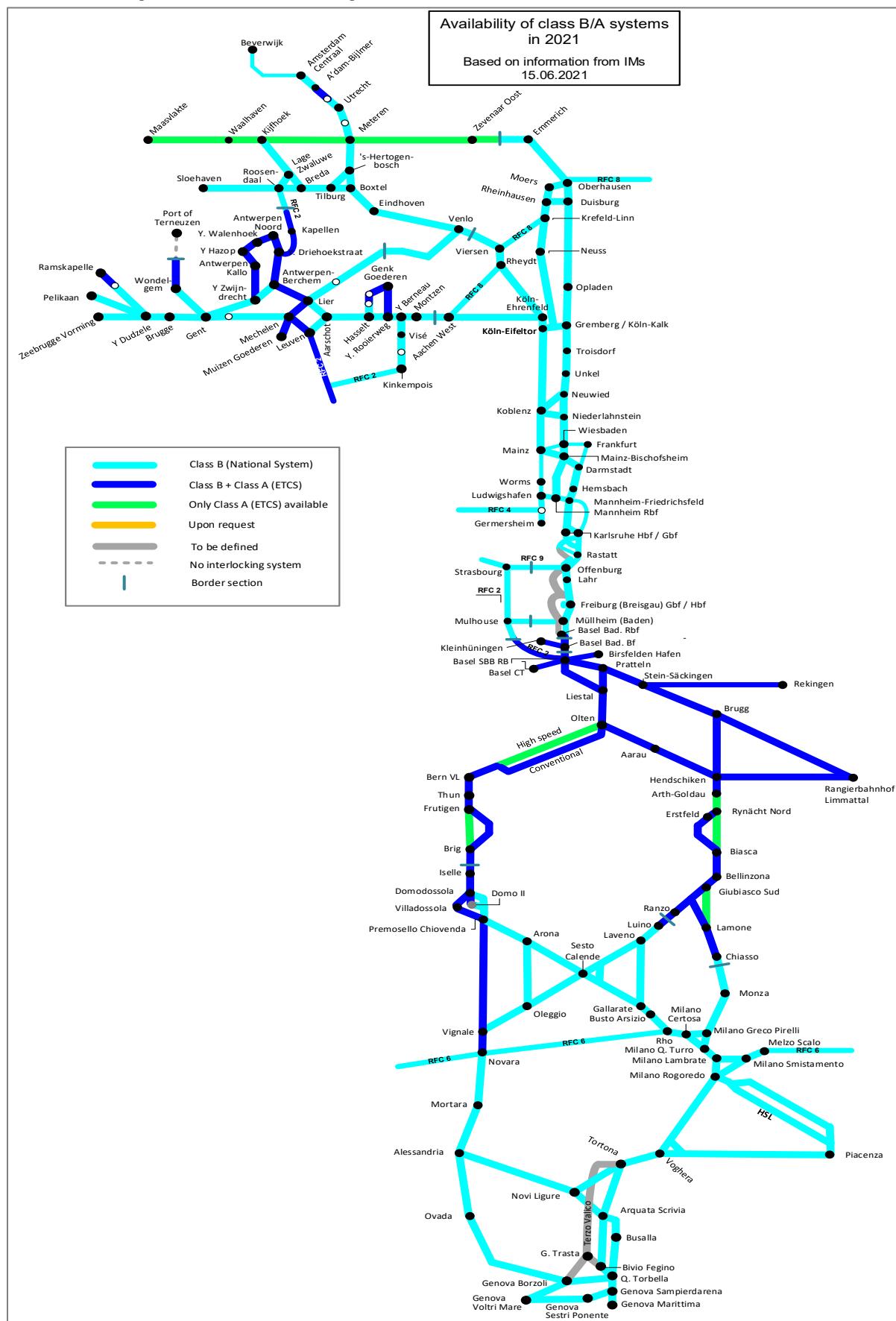


Figure 11 Availability Class B/A systems 2021

Availability of Class B/A systems 2026

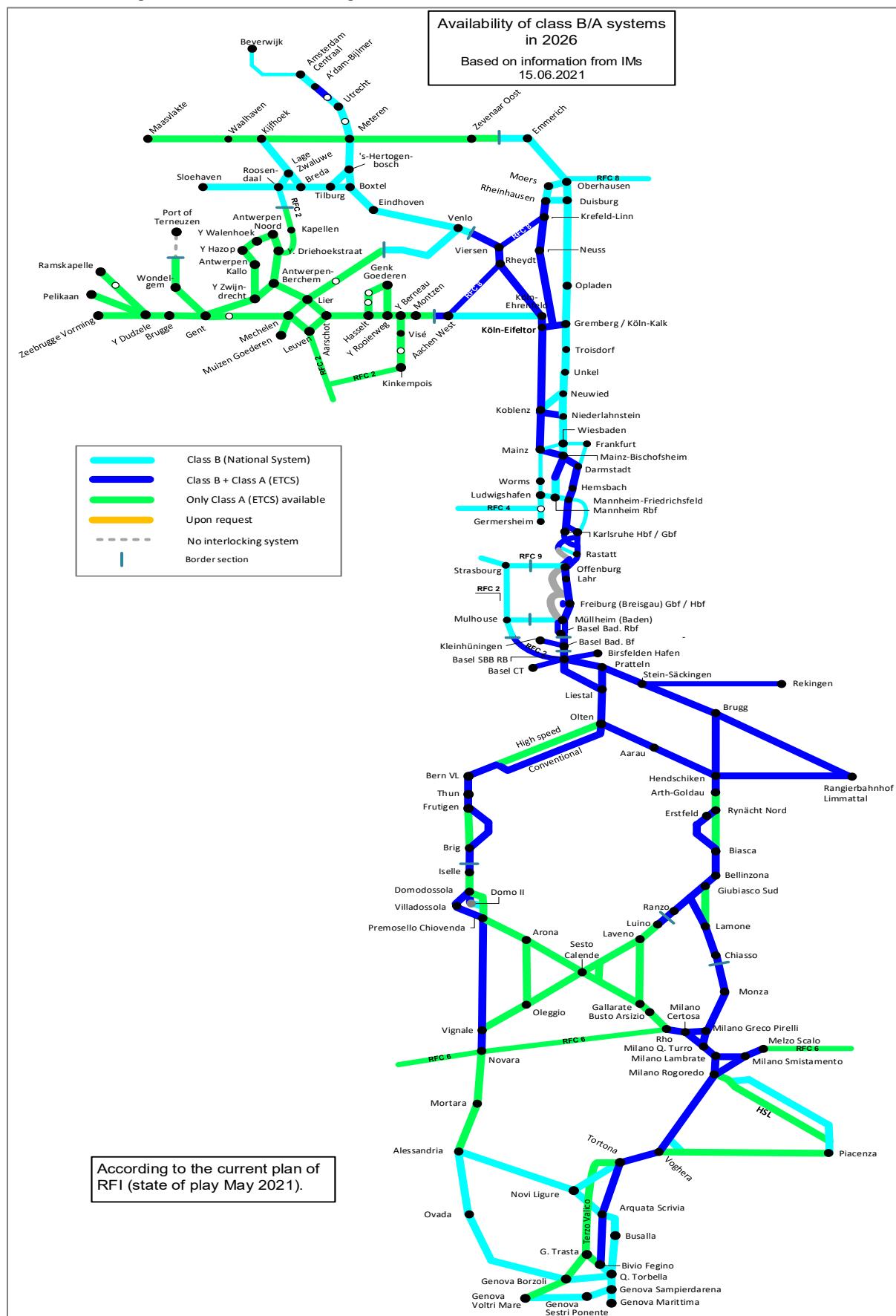


Figure 12 Availability Class B/A systems 2026

Availability of Class B/A systems 2030

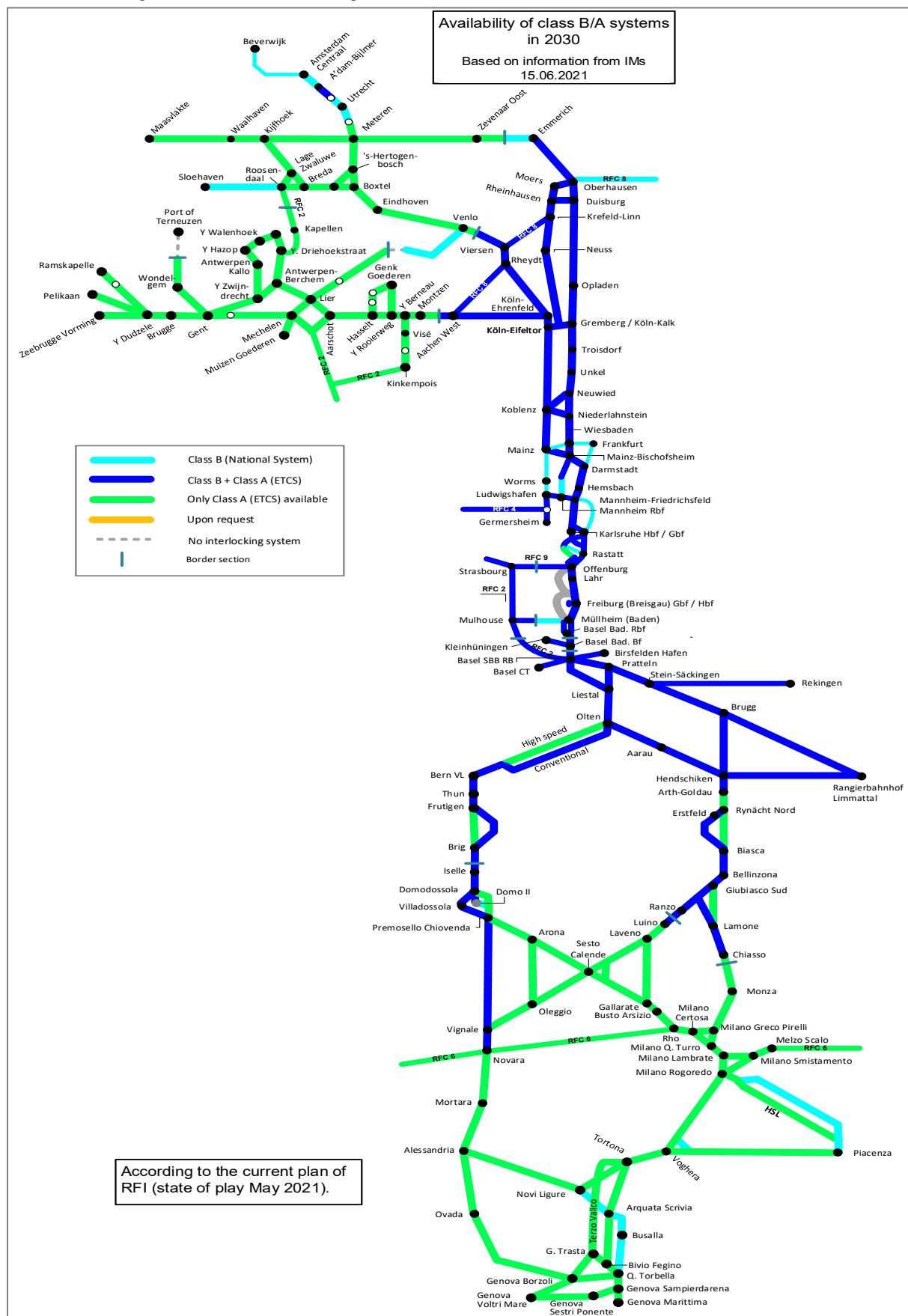


Figure 13 Availability Class B/A systems 2030

Cross-border installations

Directions for understanding the maps of the cross-border sections Example Ranzo – Luino 2021

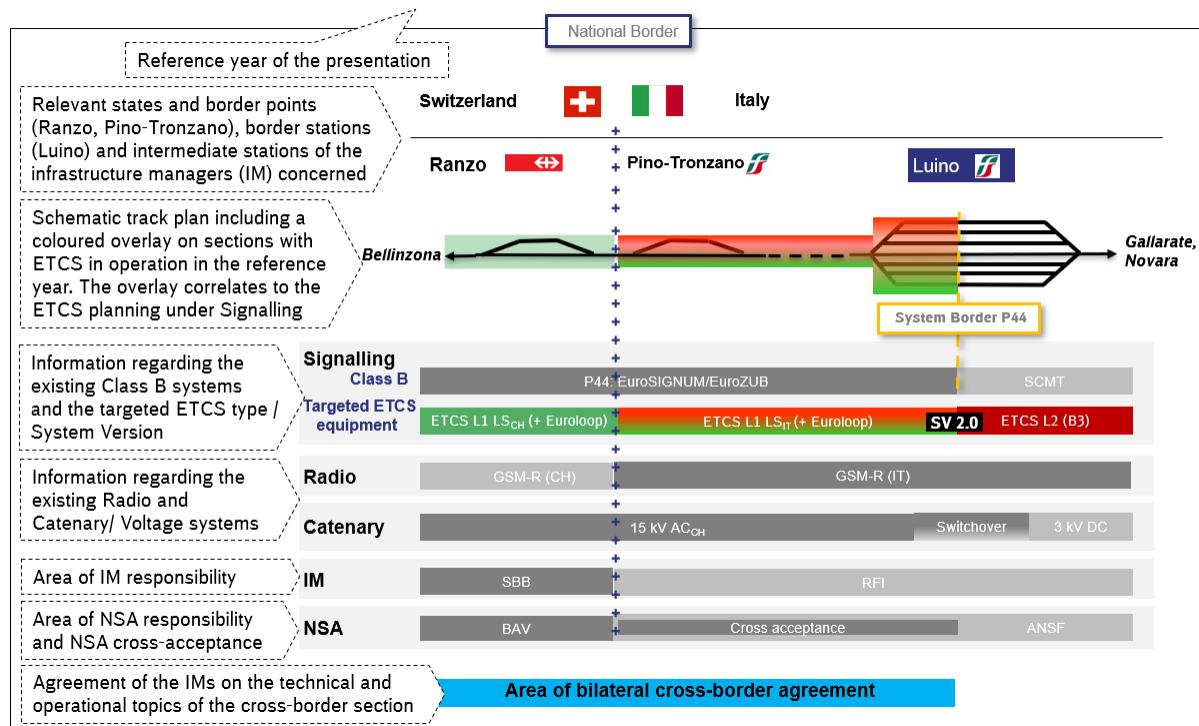


Figure 14 Directions for understanding the maps of the cross-border sections

Zevenaar Oost – Emmerich (2021)

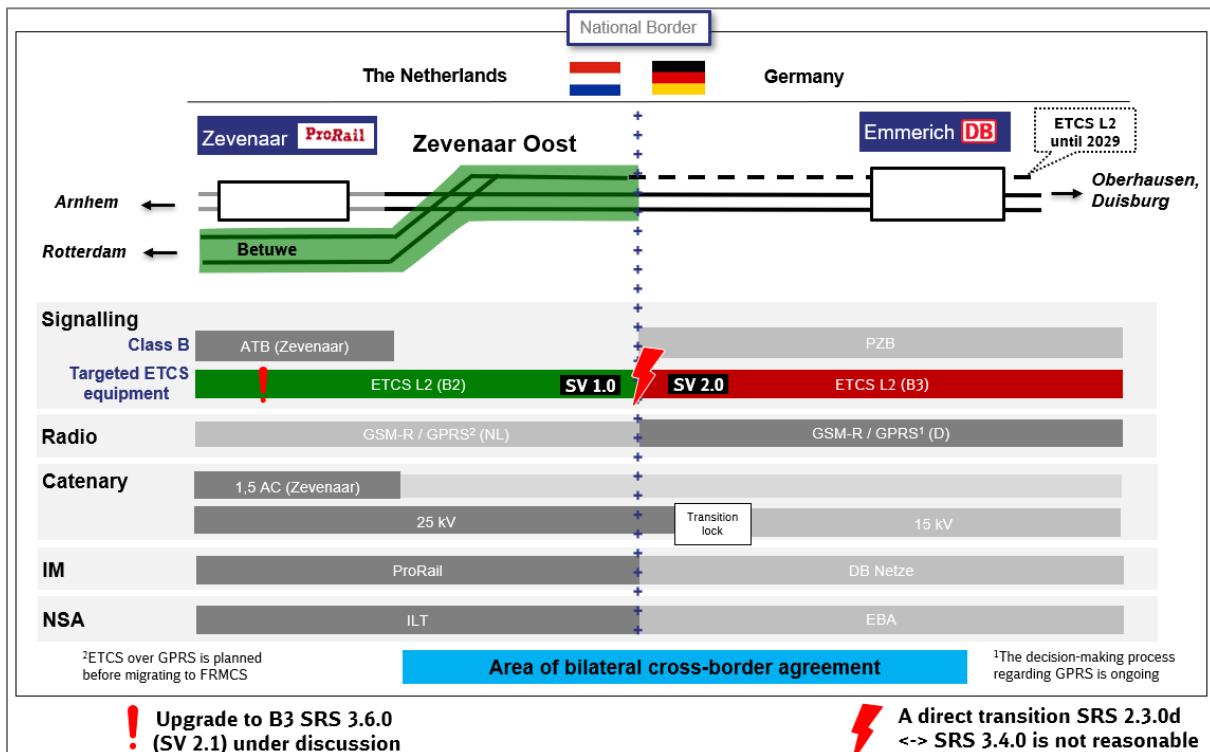


Figure 15 Zevenaar Oost – Emmerich (2021)

Zevenaar Oost – Emmerich (2029)

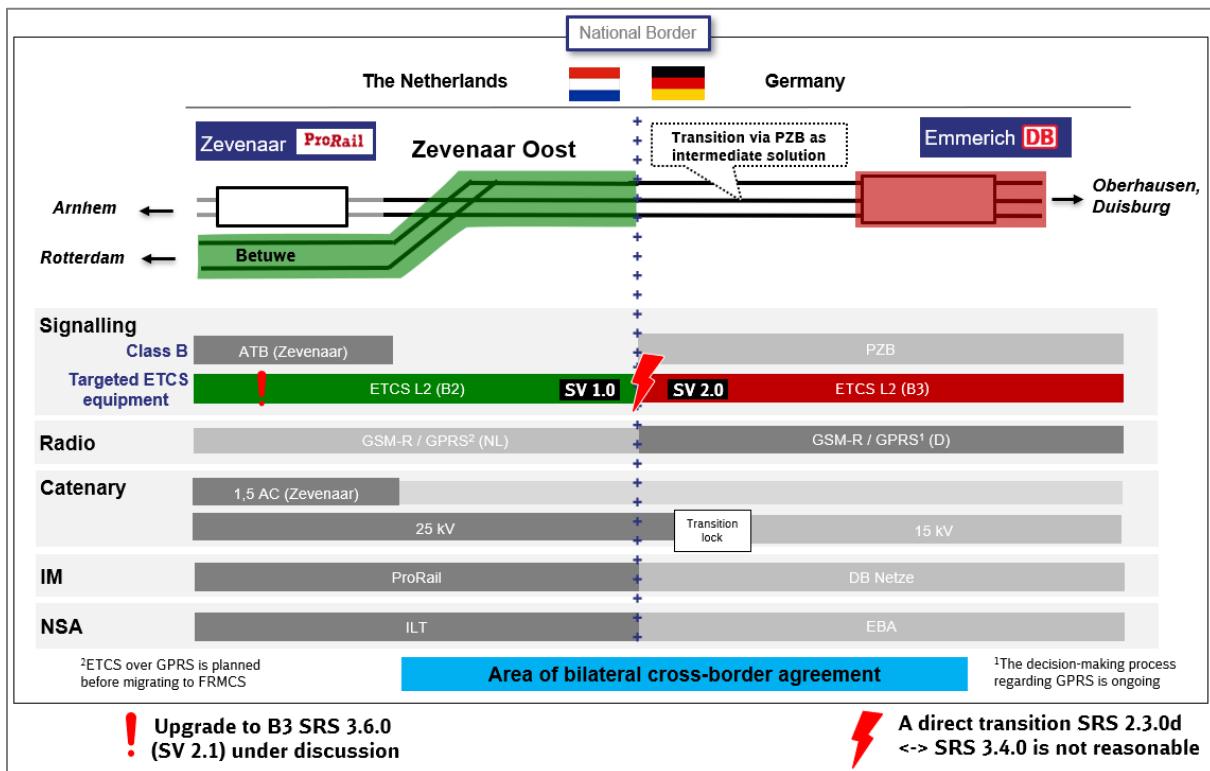


Figure 16 Zevenaar Oost – Emmerich (2029)

Zevenaar Oost – Emmerich (203x)

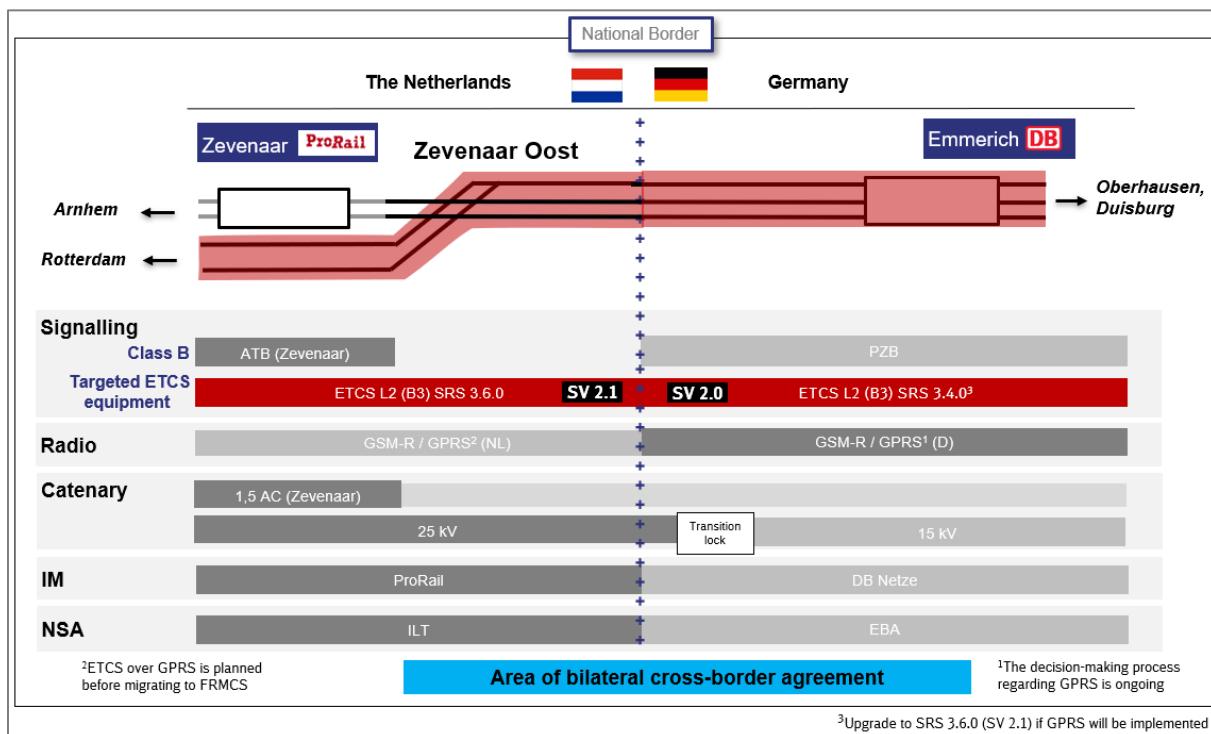


Figure 17 Zevenaar Oost – Emmerich (203x)

Venlo – Kaldenkirchen (2021)

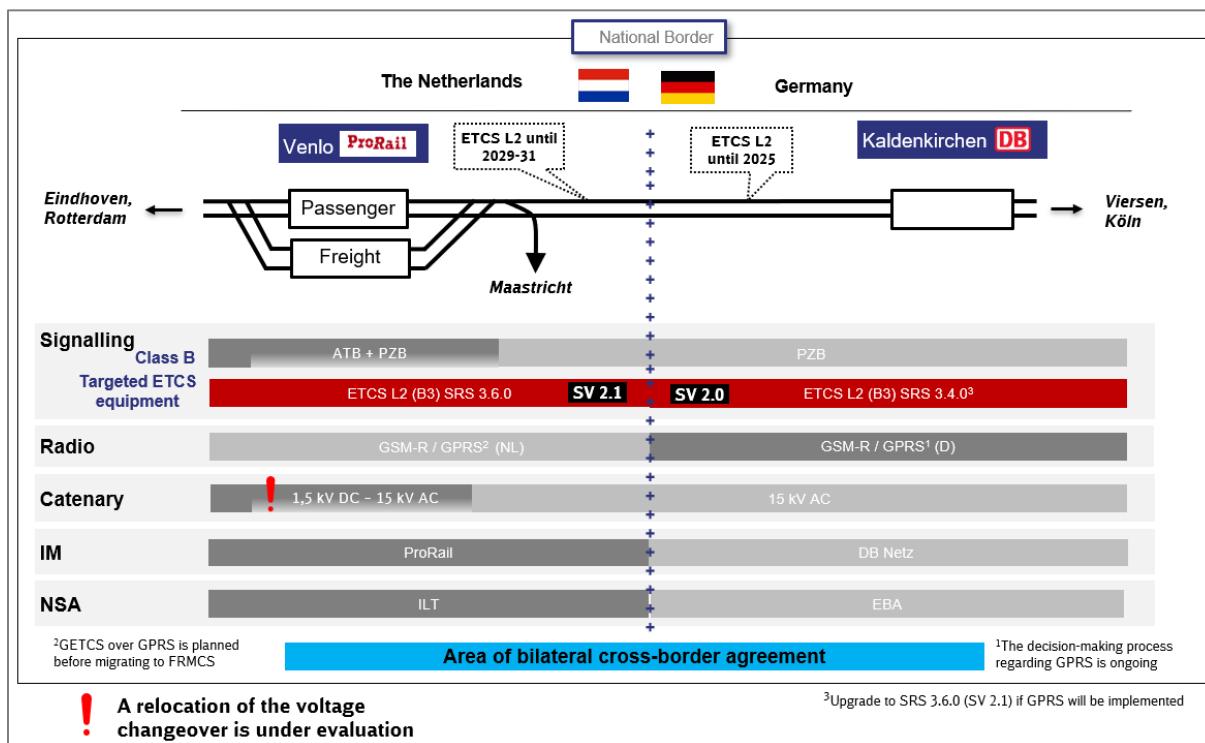


Figure 18 Venlo – Kaldenkirchen (2021)

Venlo – Kaldenkirchen (2026)

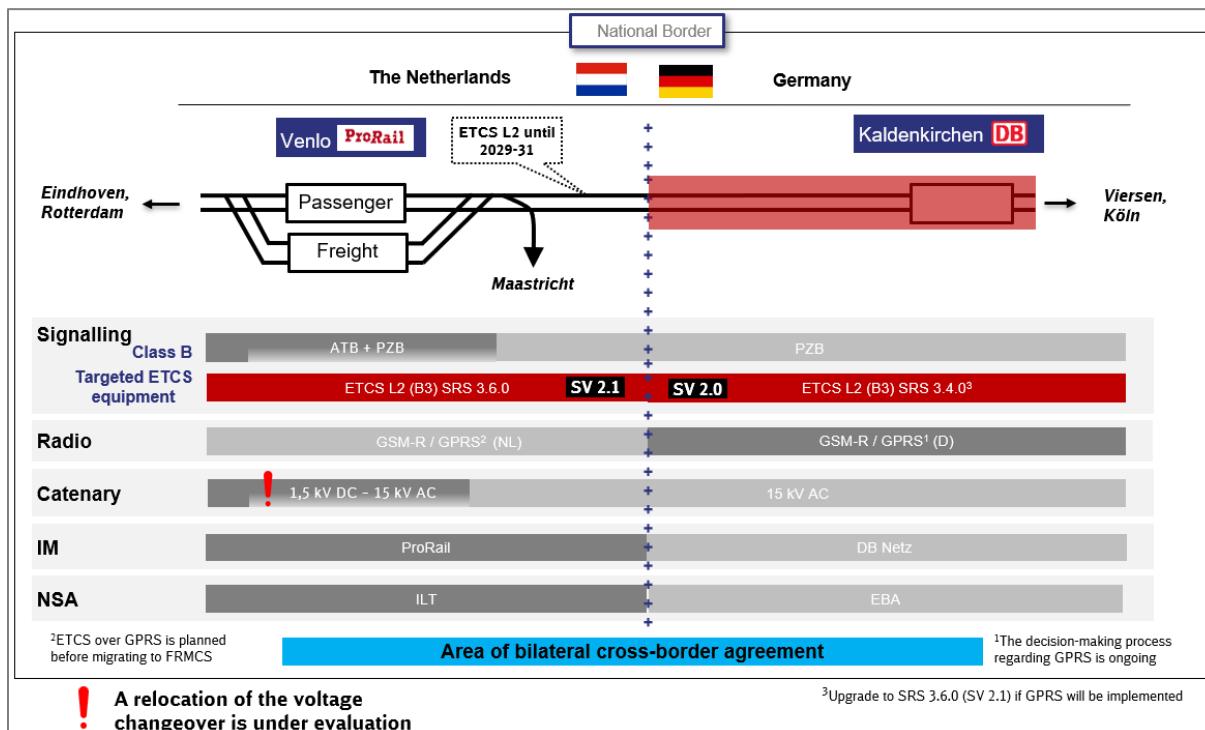


Figure 19 Venlo – Kaldenkirchen (2026)

Venlo – Kaldenkirchen (2029-31)

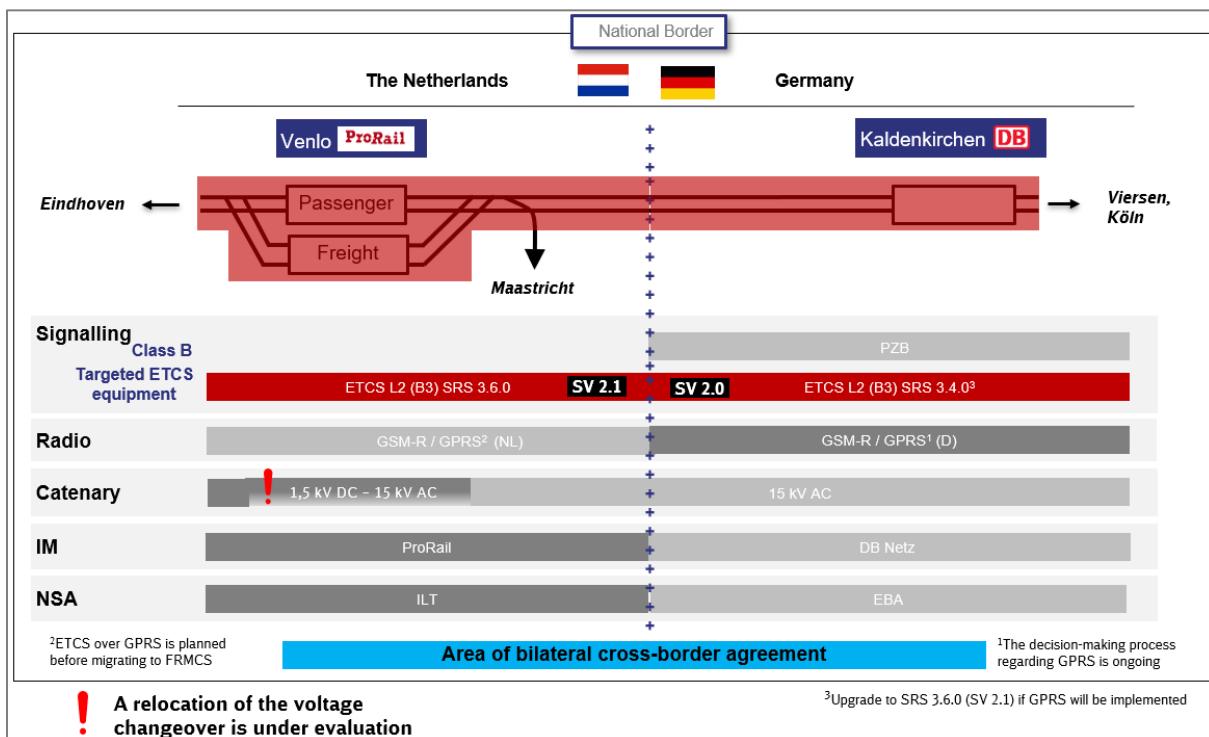


Figure 20 Venlo – Kaldenkirchen (2029-31)

Montzen – Aachen West (2021)

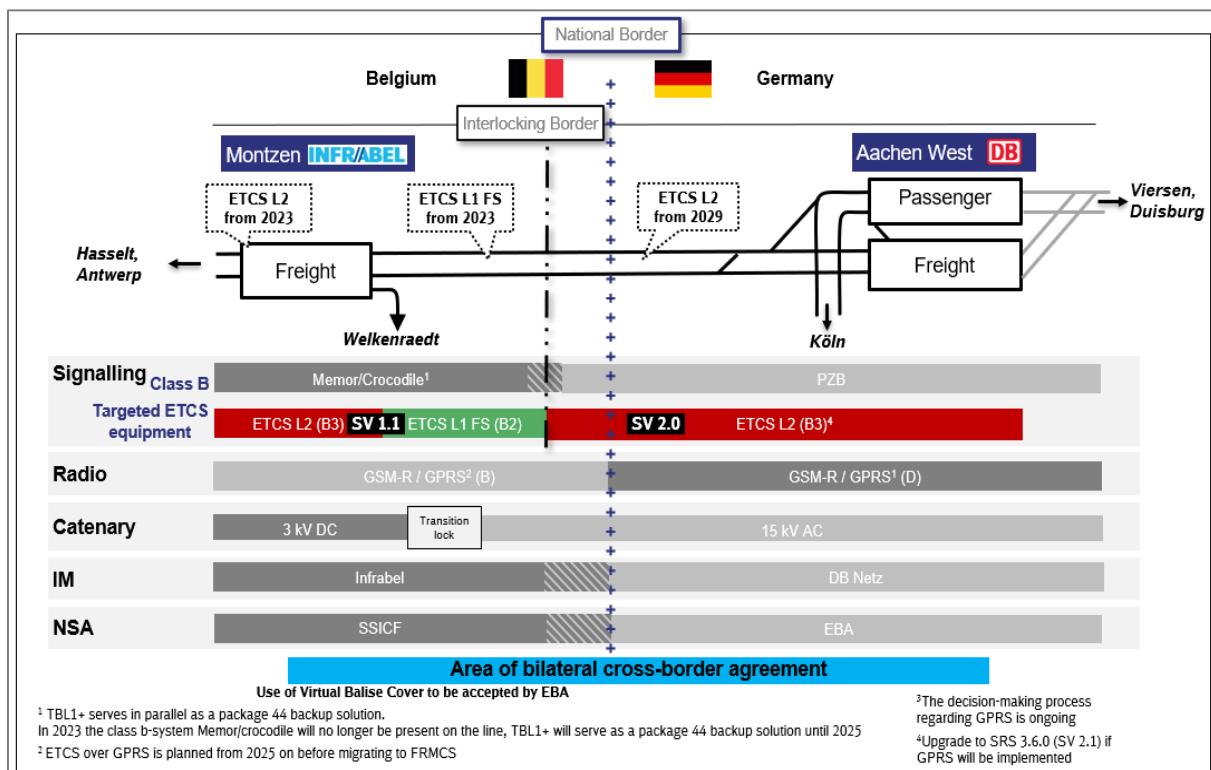


Figure 21 Montzen – Aachen West (2021)

Montzen – Aachen West (2023)

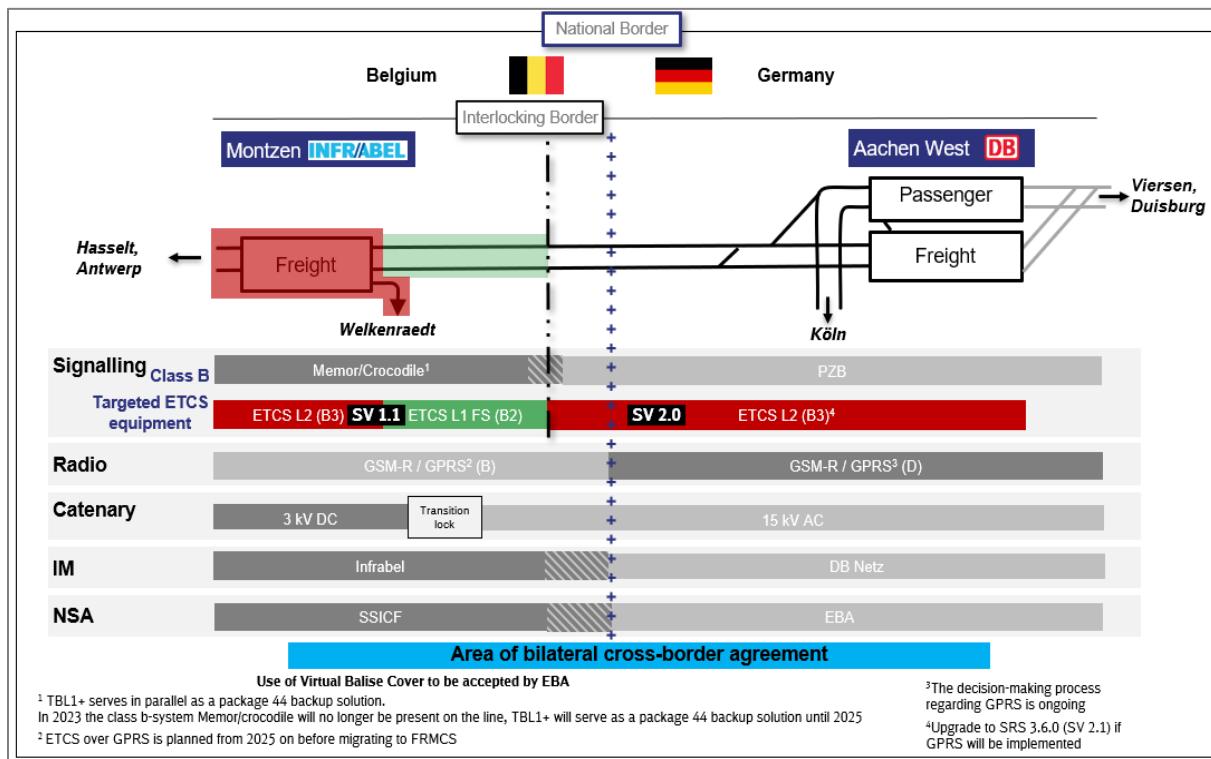


Figure 22 Montzen – Aachen West (2023)

Montzen – Aachen West (2026)

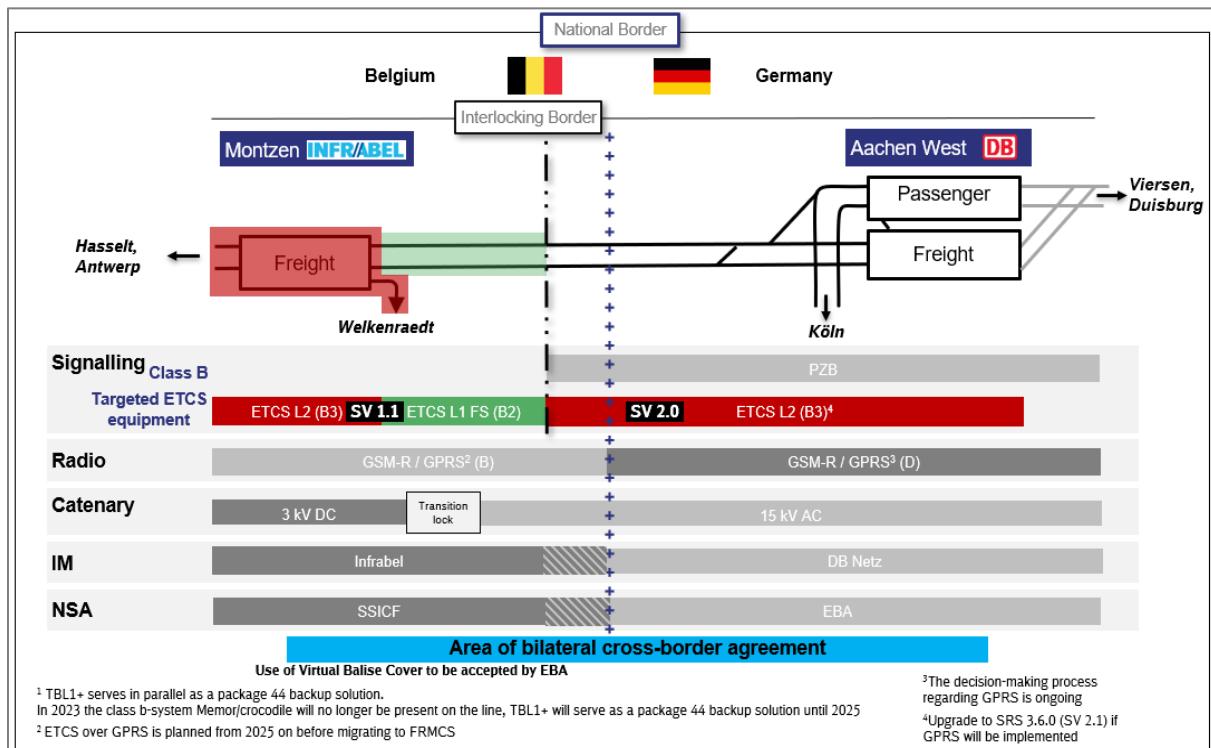


Figure 23 Montzen – Aachen West (2026)

Montzen – Aachen West (2029)

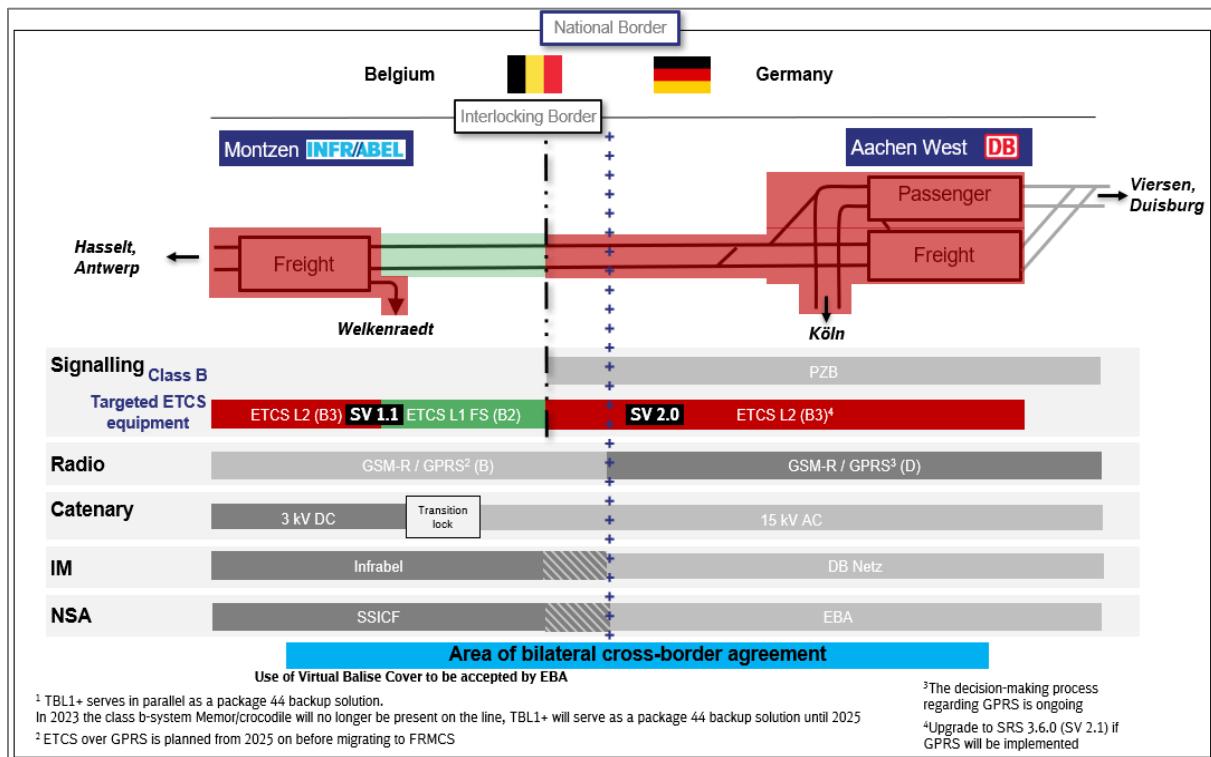


Figure 24 Montzen – Aachen West (2029)

Welkenraedt – Aachen Hbf (2021)

- section of the Core Network Corridor not of the Rail Freight Corridor Rhine-Alpine

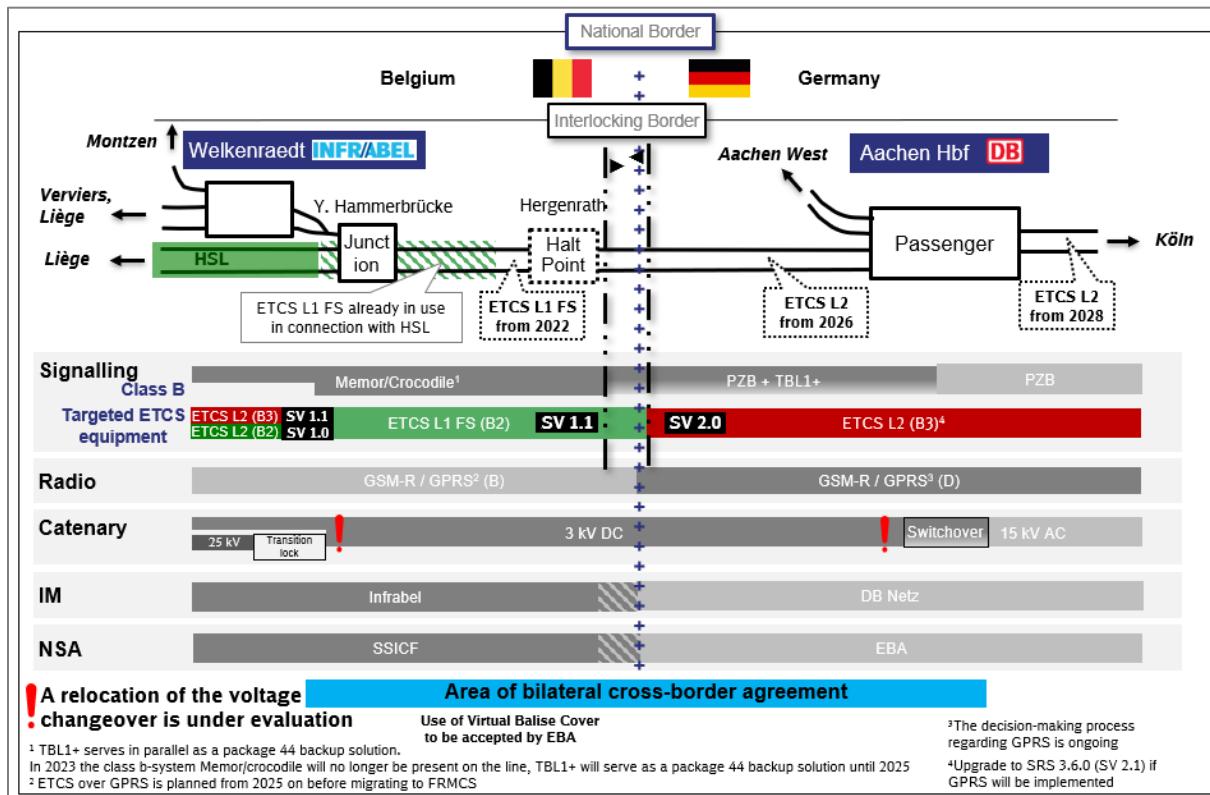


Figure 25 Welkenraedt – Aachen Hbf (2021)

Welkenraedt – Aachen Hbf (2023)

- section of the Core Network Corridor not of the Rail Freight Corridor Rhine-Alpine

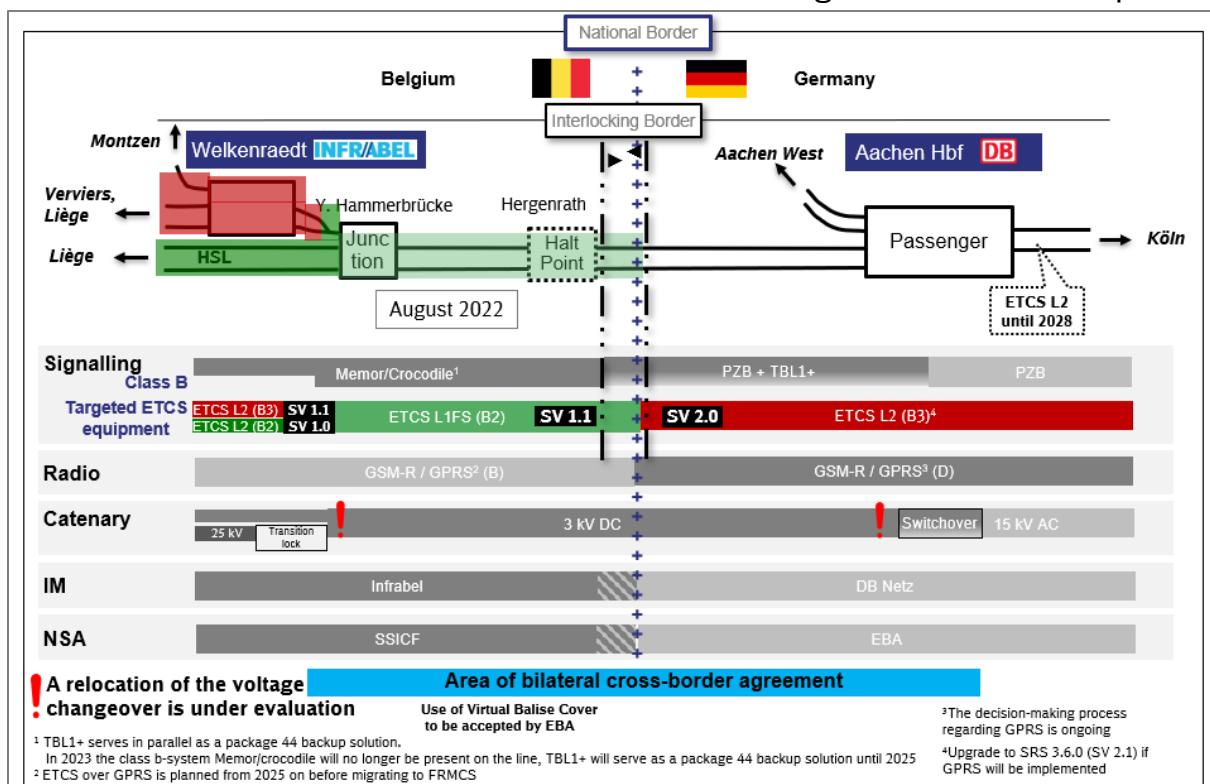


Figure 26 Welkenraedt – Aachen Hbf (2023)

Welkenraedt – Aachen Hbf (2026)

- section of the Core Network Corridor not of the Rail Freight Corridor Rhine-Alpine

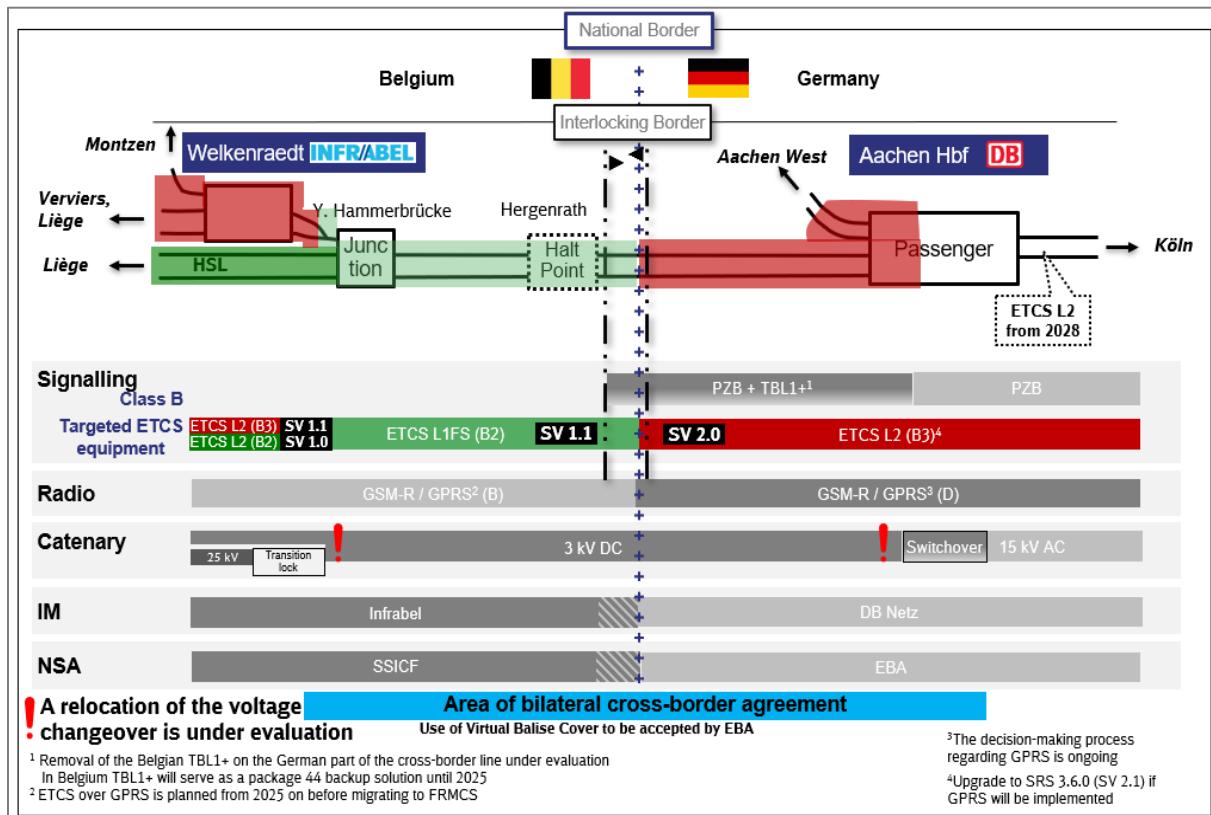


Figure 27 Welkenraedt – Aachen Hbf (2026)

Sas van Gent – Gent Zeehaven (2021)

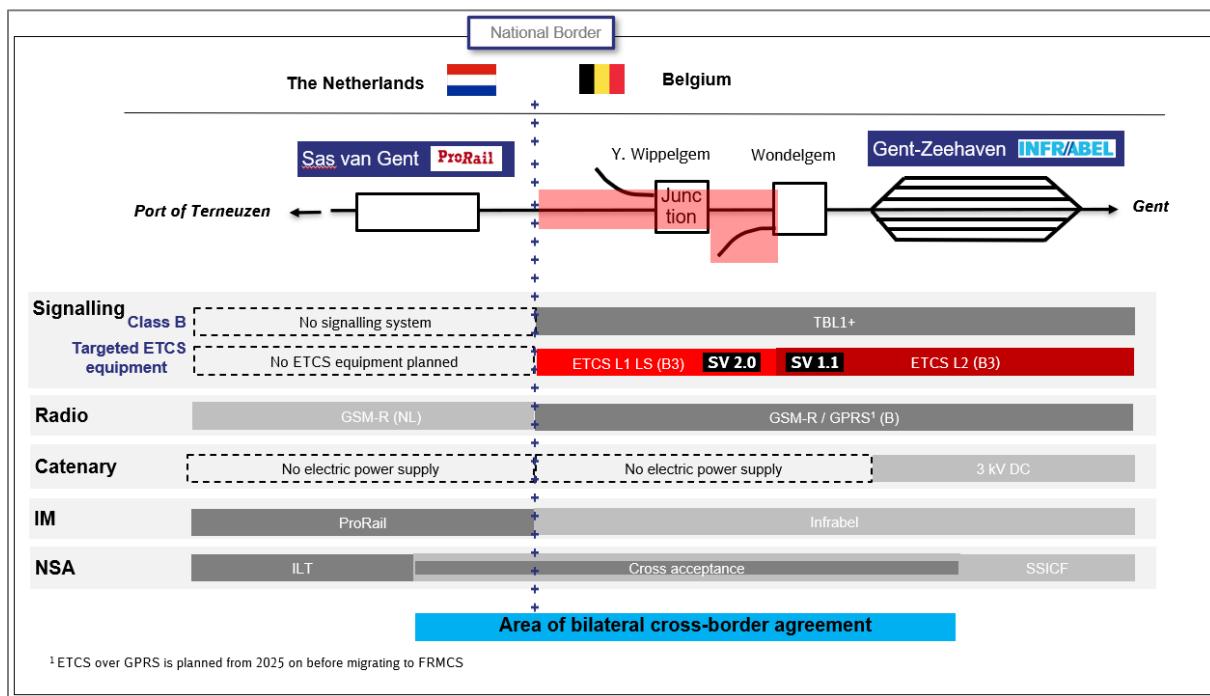


Figure 28 Sas van Gent – Gent Zeehaven (2021)

Sas van Gent – Gent Zeehaven (2024)

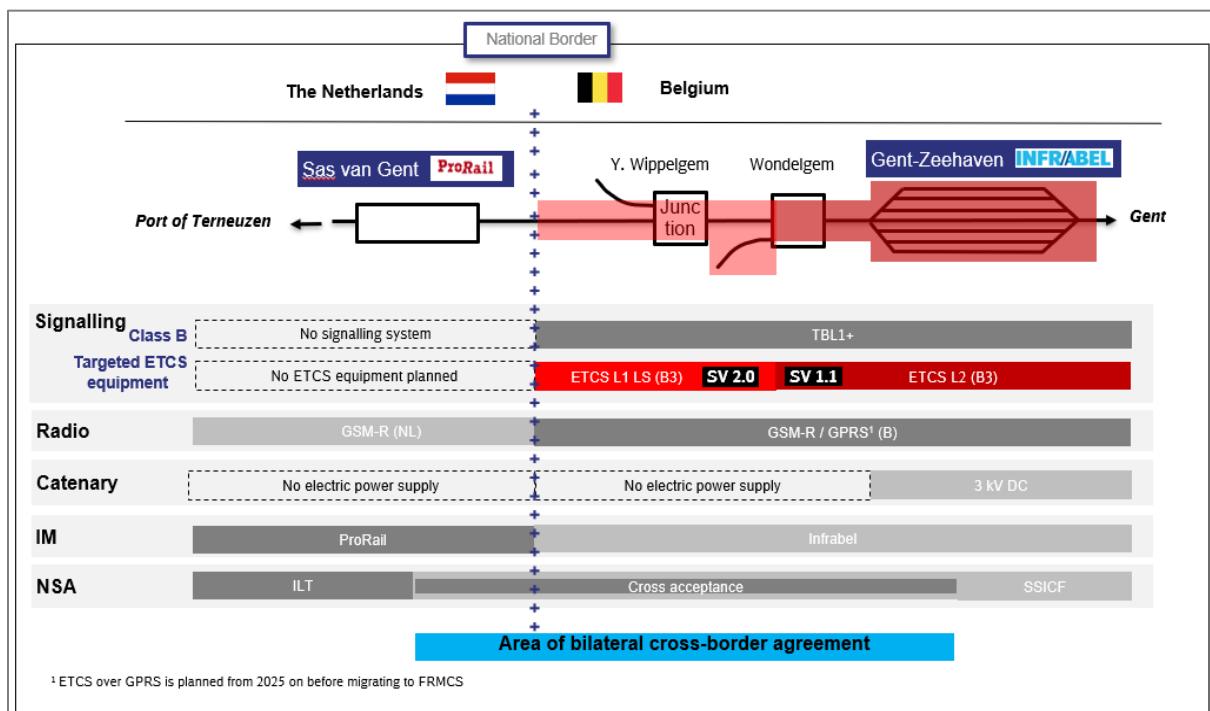


Figure 29 Sas van Gent – Gent Zeehaven (2024)

Sas van Gent – Gent Zeehaven (2026)

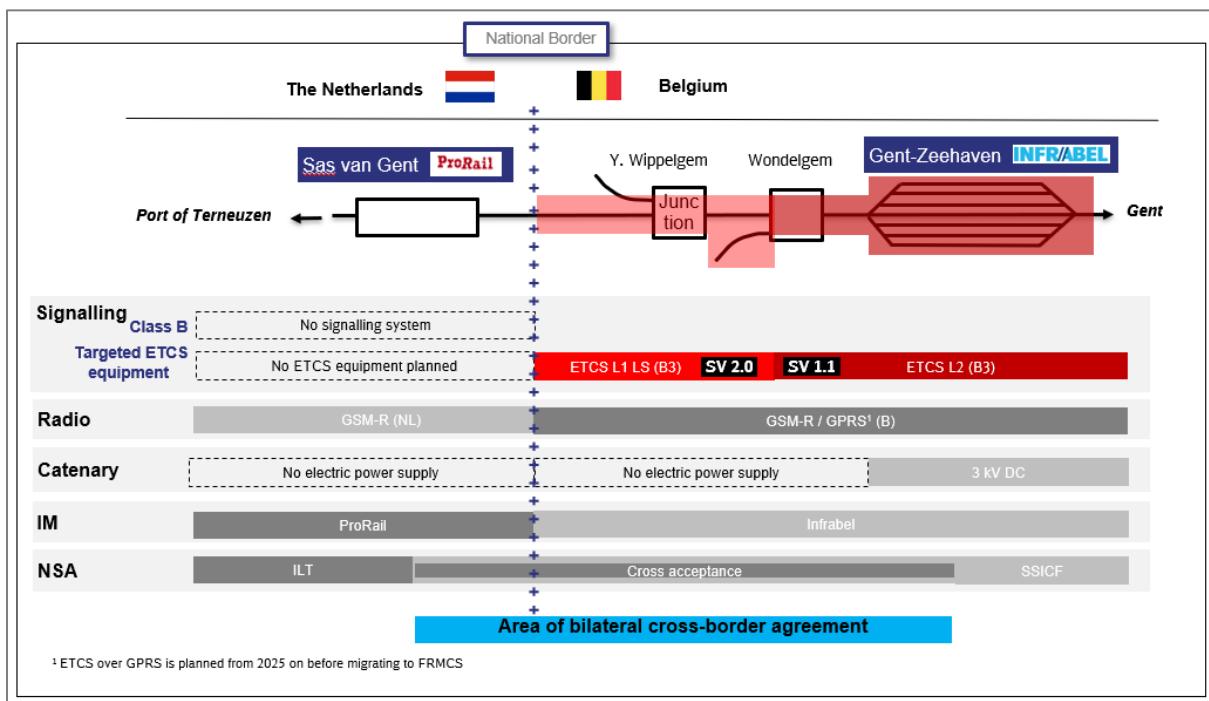


Figure 30 Sas van Gent – Gent Zeehaven (2026)

Weil a. R. – Basel Bad. Bf – Muttenz RB (2021)

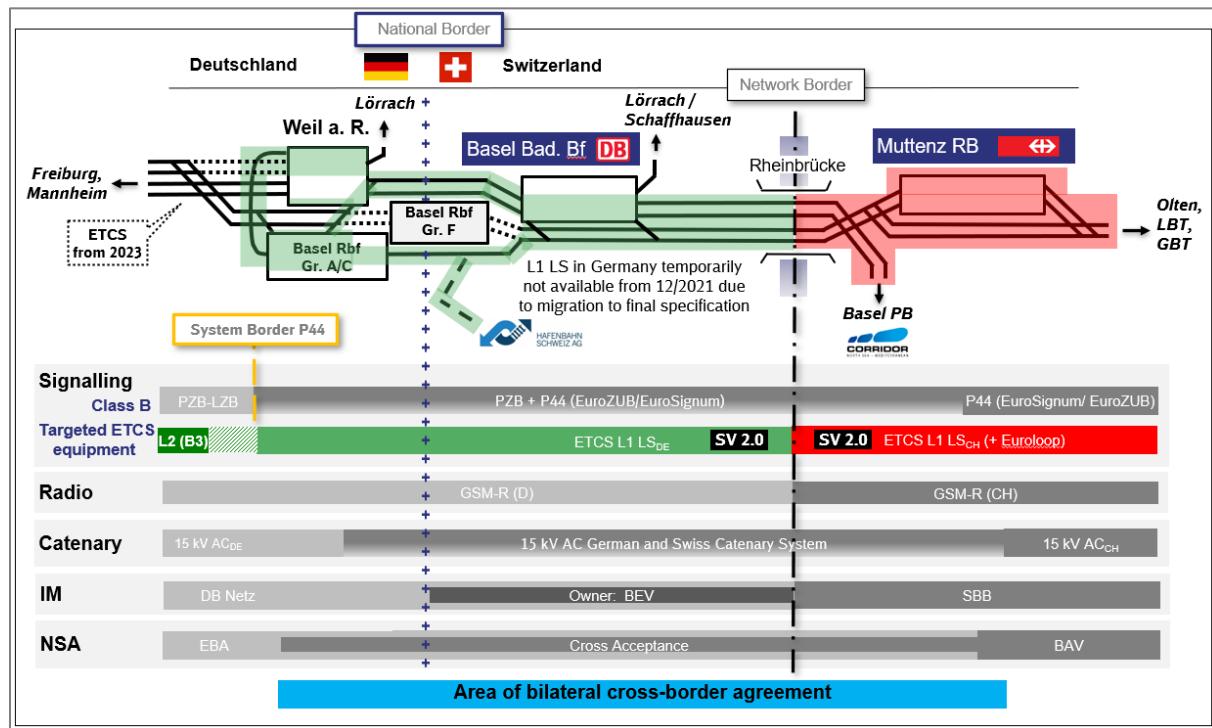


Figure 31 Weil a. R. – Basel Bad. Bf – Muttenz RB (2021)

Weil a. R. – Basel Bad. Bf – Muttenz RB (2023)

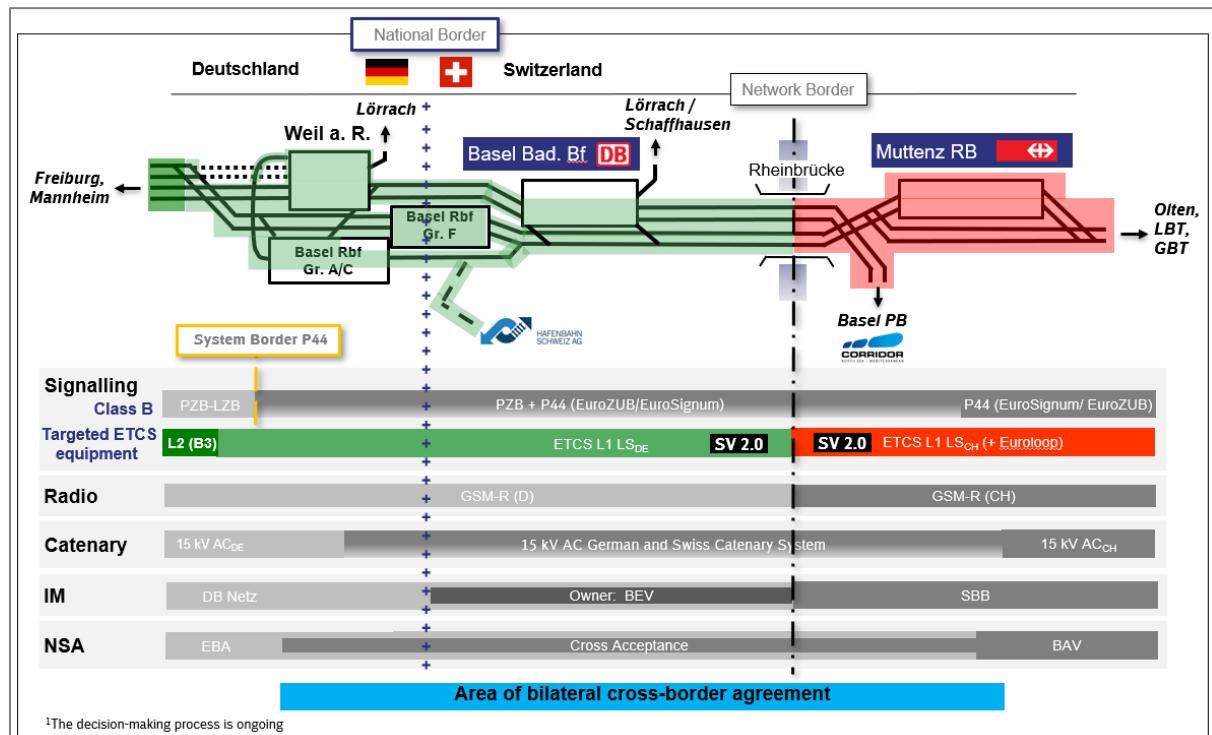


Figure 32 Weil a. R. – Basel Bad. Bf – Muttenz RB (2023)

Weil a. R. – Basel Bad. Bf – Muttenz RB (2028*)

* date depending on the decision to extent the GSM-R by GPRS

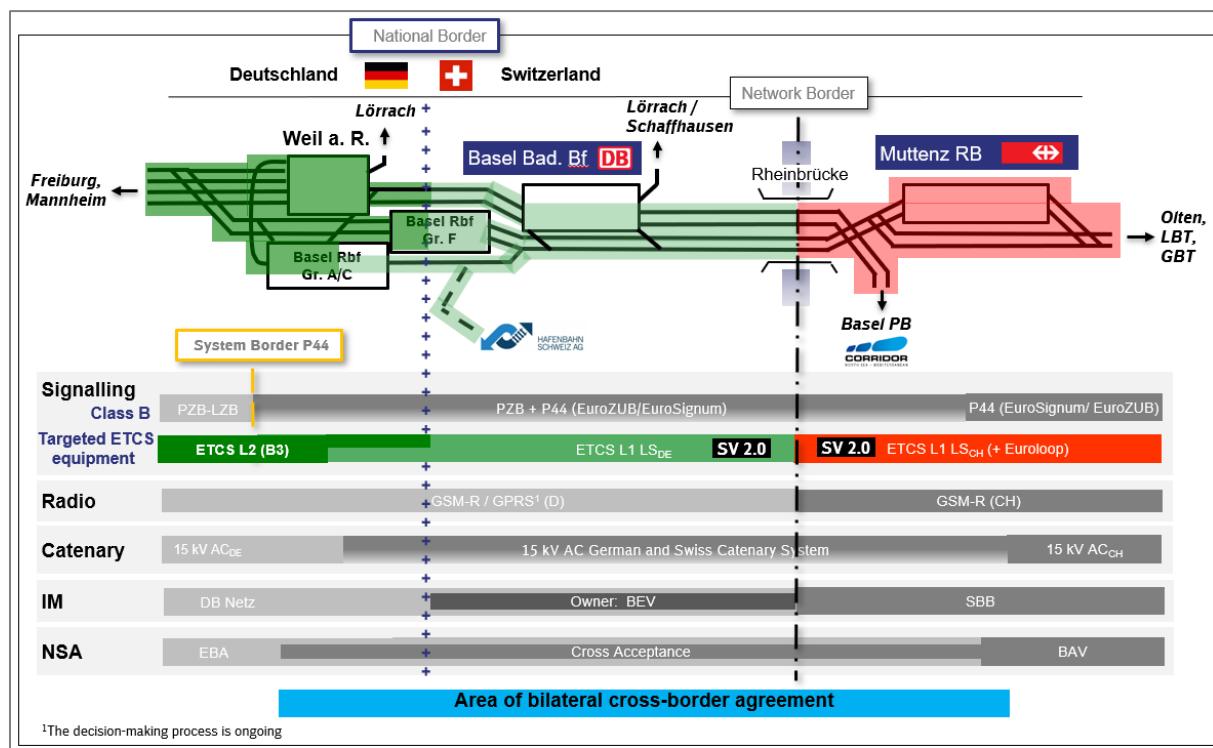


Figure 33 Weil a. R. – Basel Bad. Bf – Muttenz RB (2028)

Brig – Iselle – Domodossola (2021)

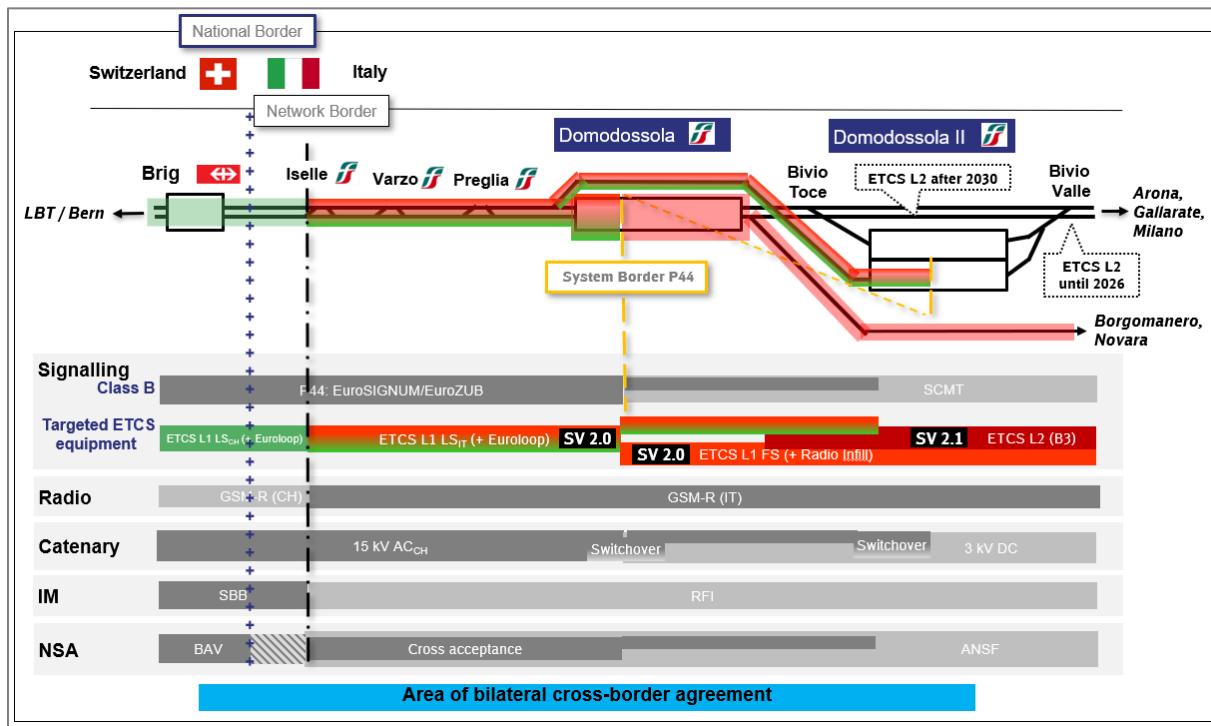


Figure 34 Brig – Iselle – Domodossola (2021)

Brig – Iselle – Domodossola (2026)

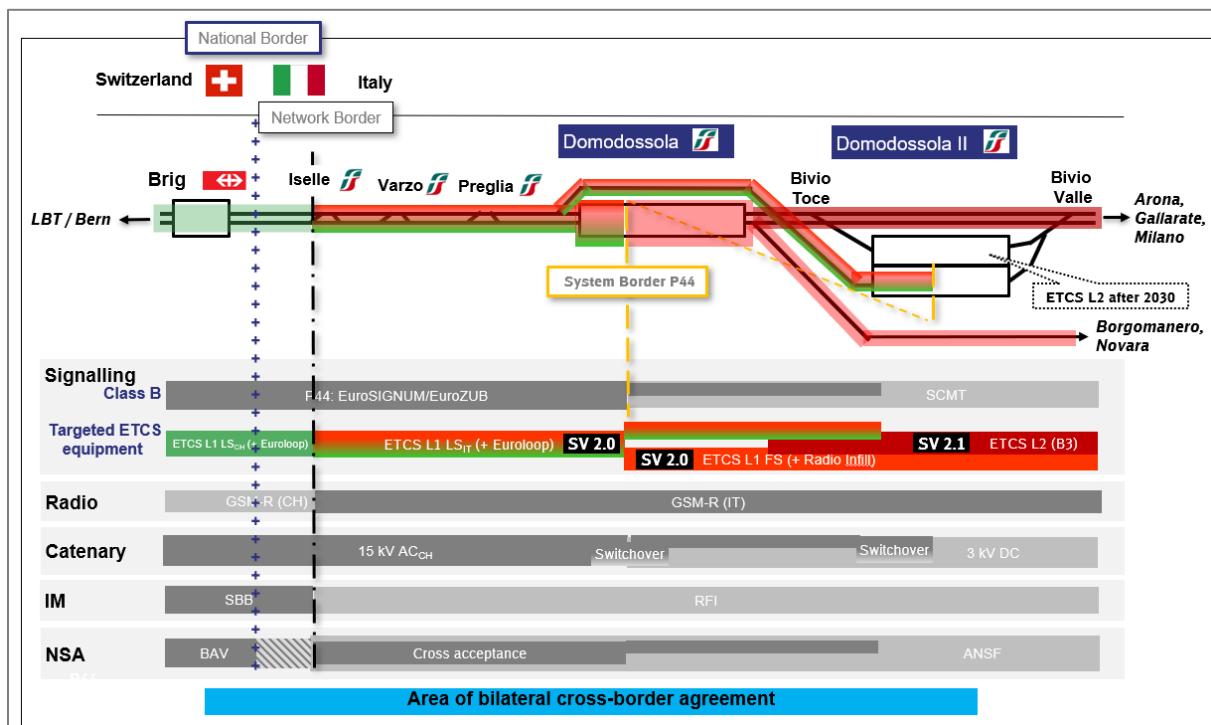


Figure 35 Brig – Iselle – Domodossola (2026)

Brig – Iselle – Domodossola (203x)

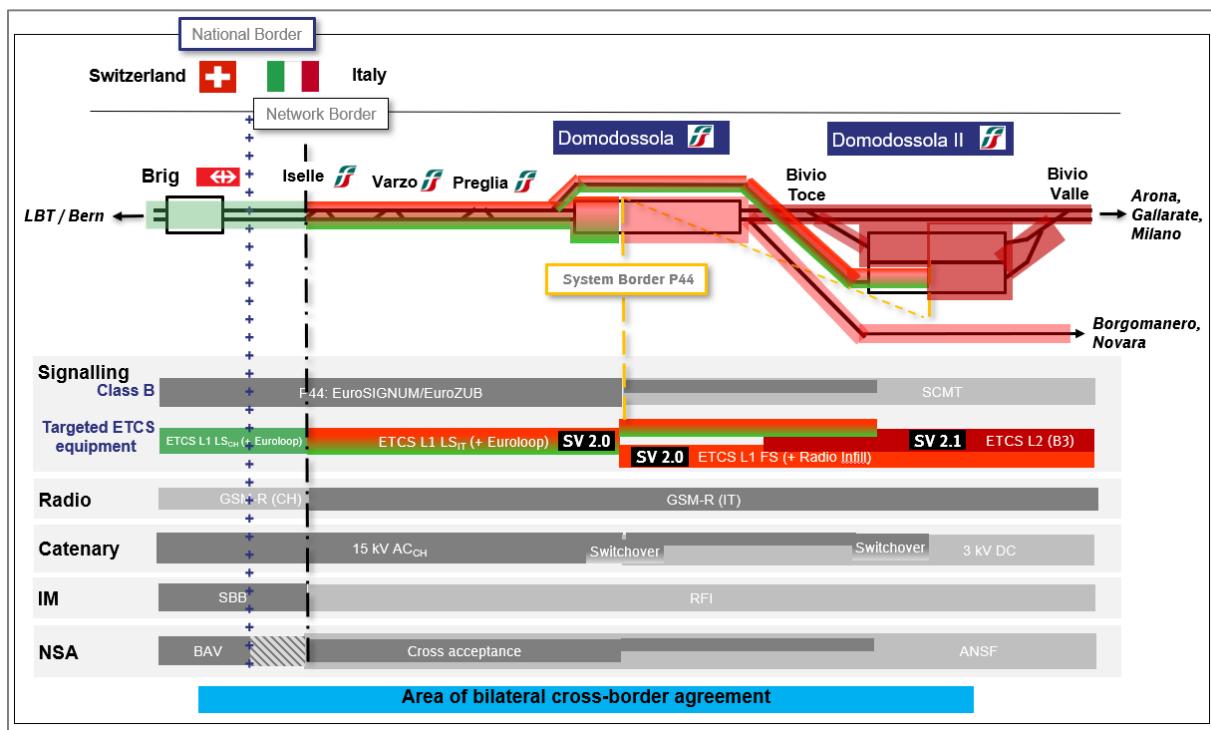


Figure 36 Brig – Iselle – Domodossola (203x)

Ranzo – Luino (2021)

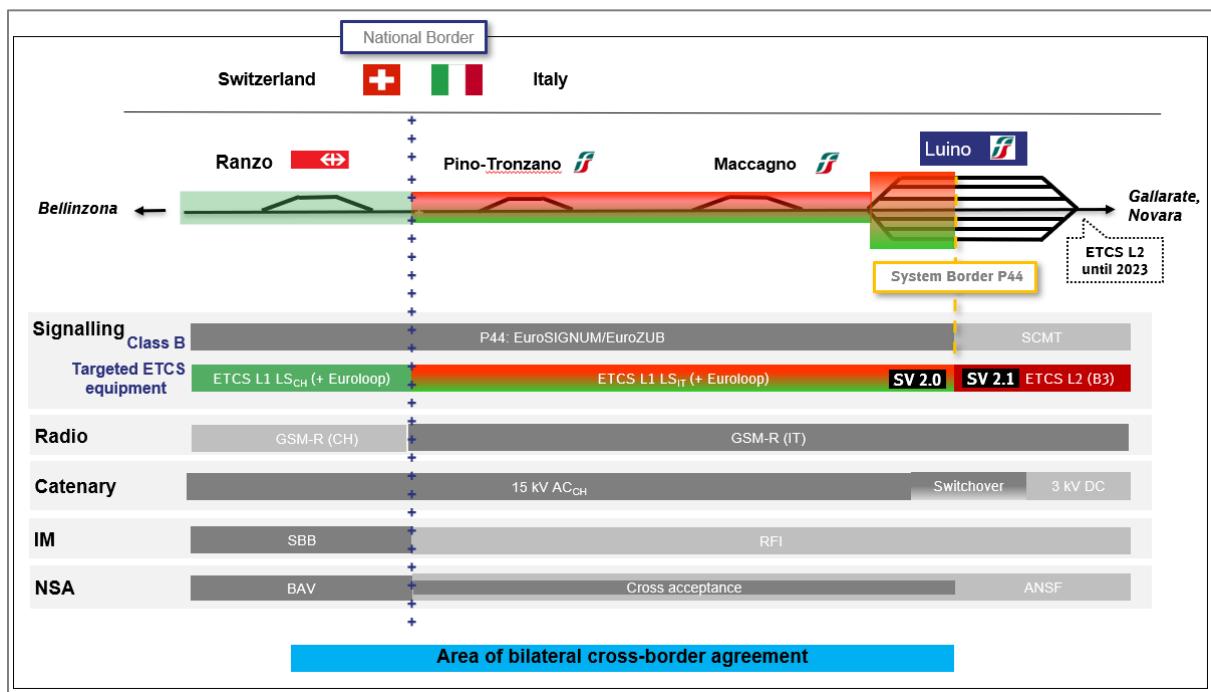


Figure 37 Ranzo – Luino (2021)

Ranzo – Luino (2025)

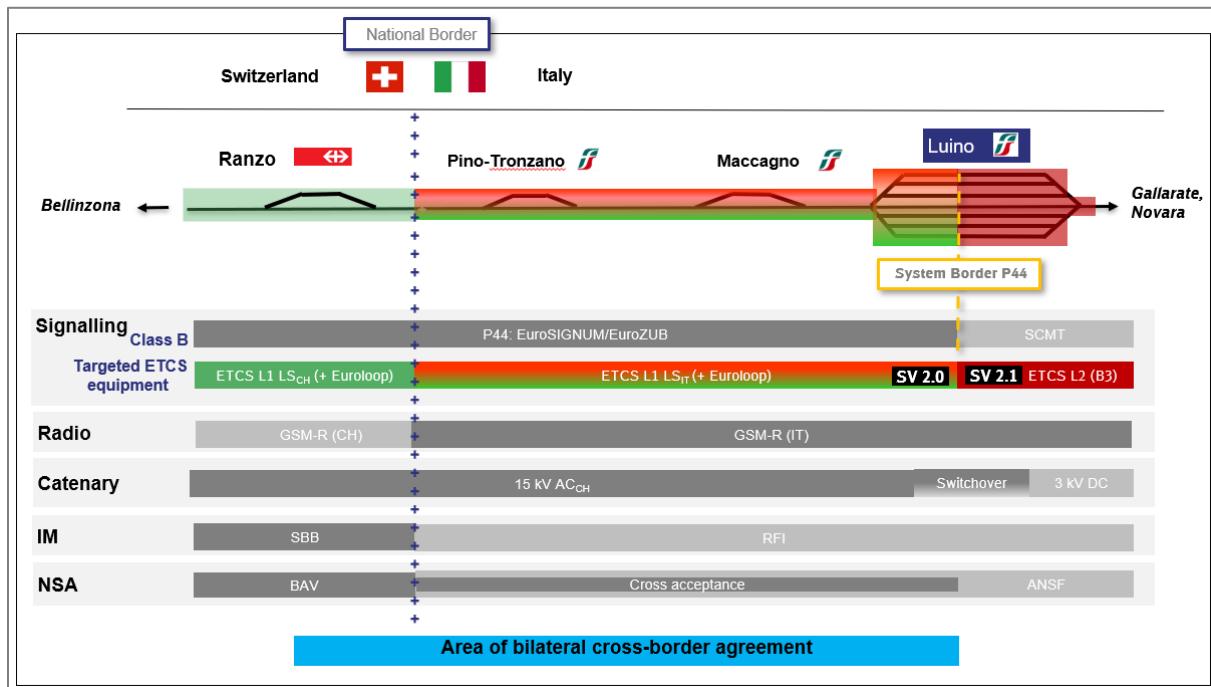


Figure 38 Ranzo – Luino (2025)

Chiasso (2021)

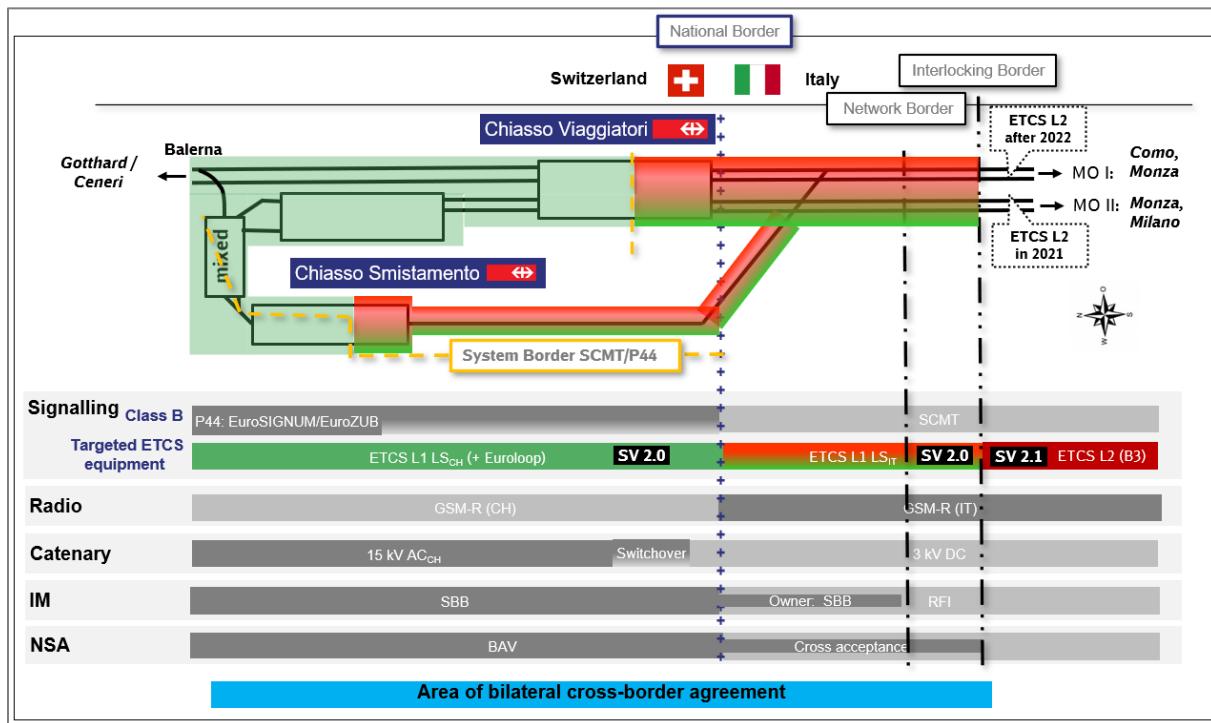


Figure 39 Chiasso 2021

Chiasso (2022)

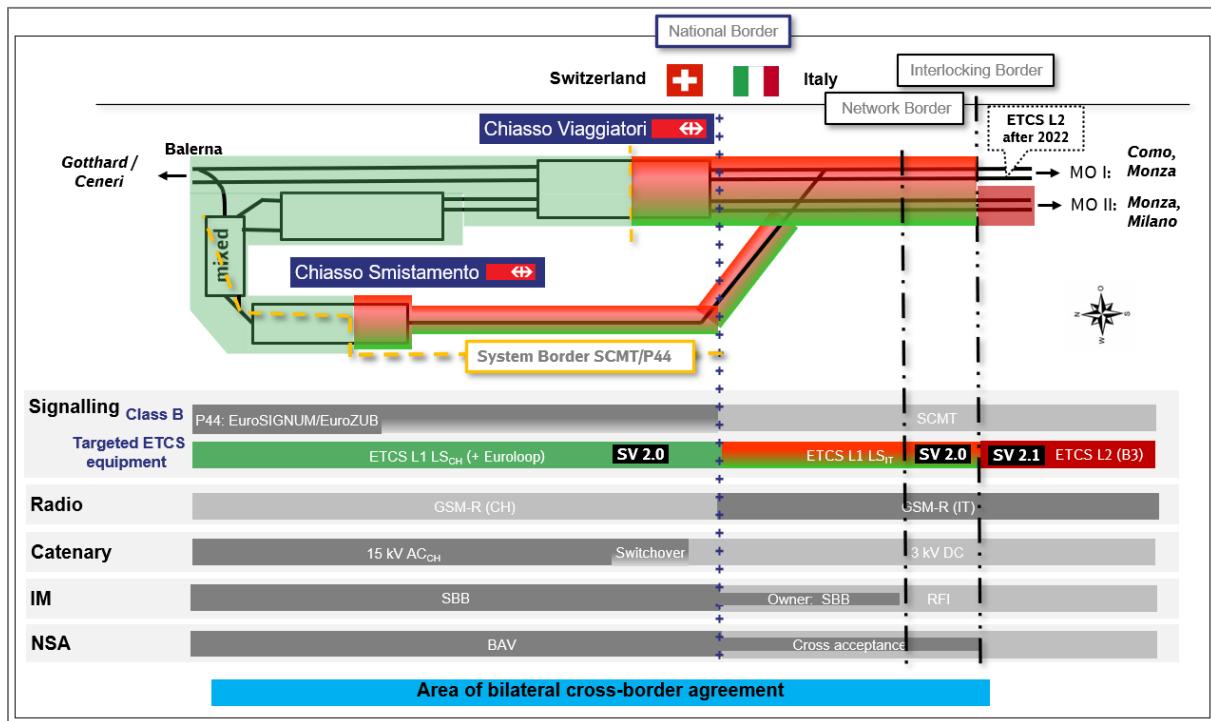


Figure 40 Chiasso 2022