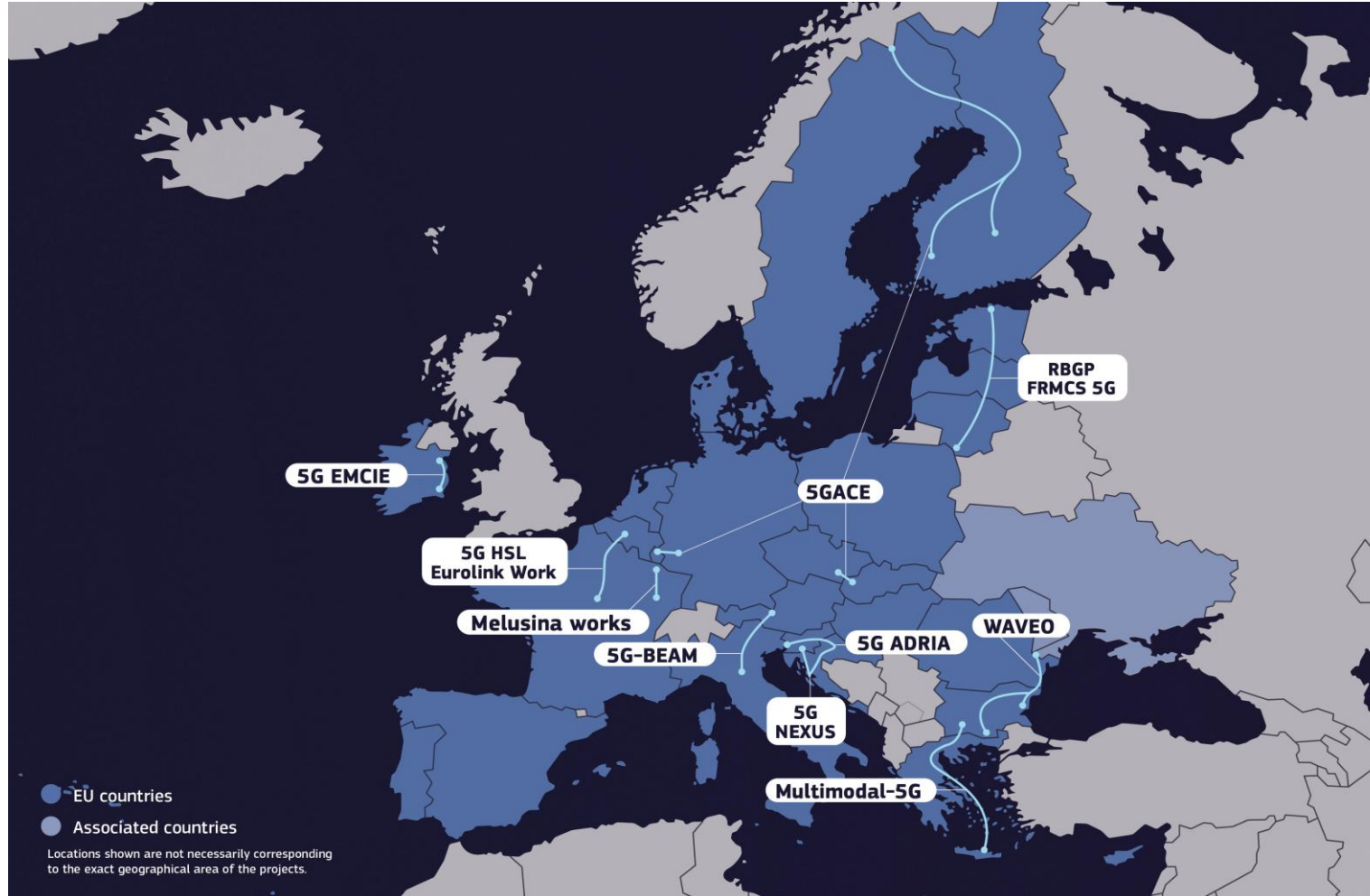


CEF 2 Project



Funded by
the European Union

- European context CEF2



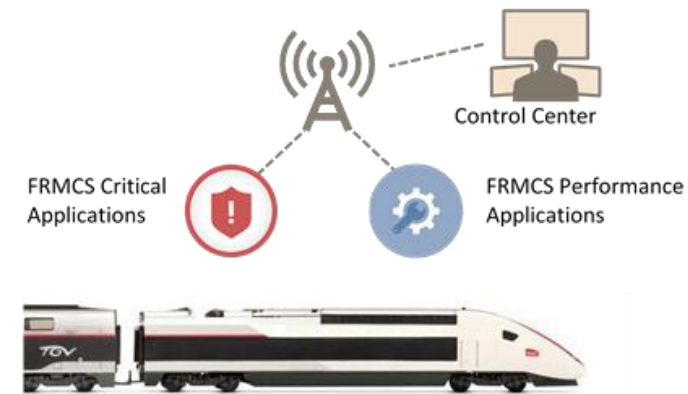
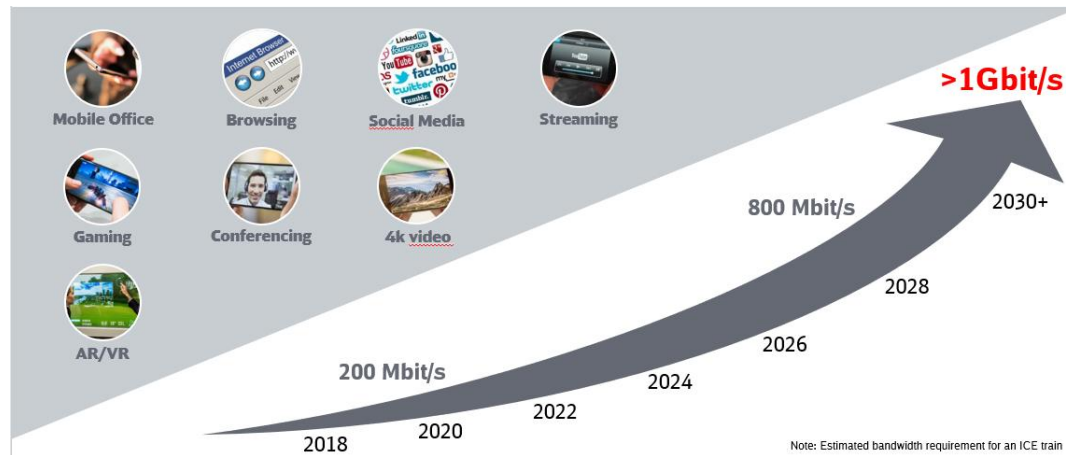
Collaboration project between railways company and MNOs

- CEF 2 Digital enables the financing of 5G infrastructure for the coverage of cross-border railway axes

The FRMCS has found its place in the CEF 2 Digital work programme, thanks in particular to the explanations given by EIM/CER in the Strategic Deployment Agenda (SDA) document "5G CONNECTIVITY AND SPECTRUM FOR RAIL".

The SDA states that the deployment of 5G along rail corridors should serve both :

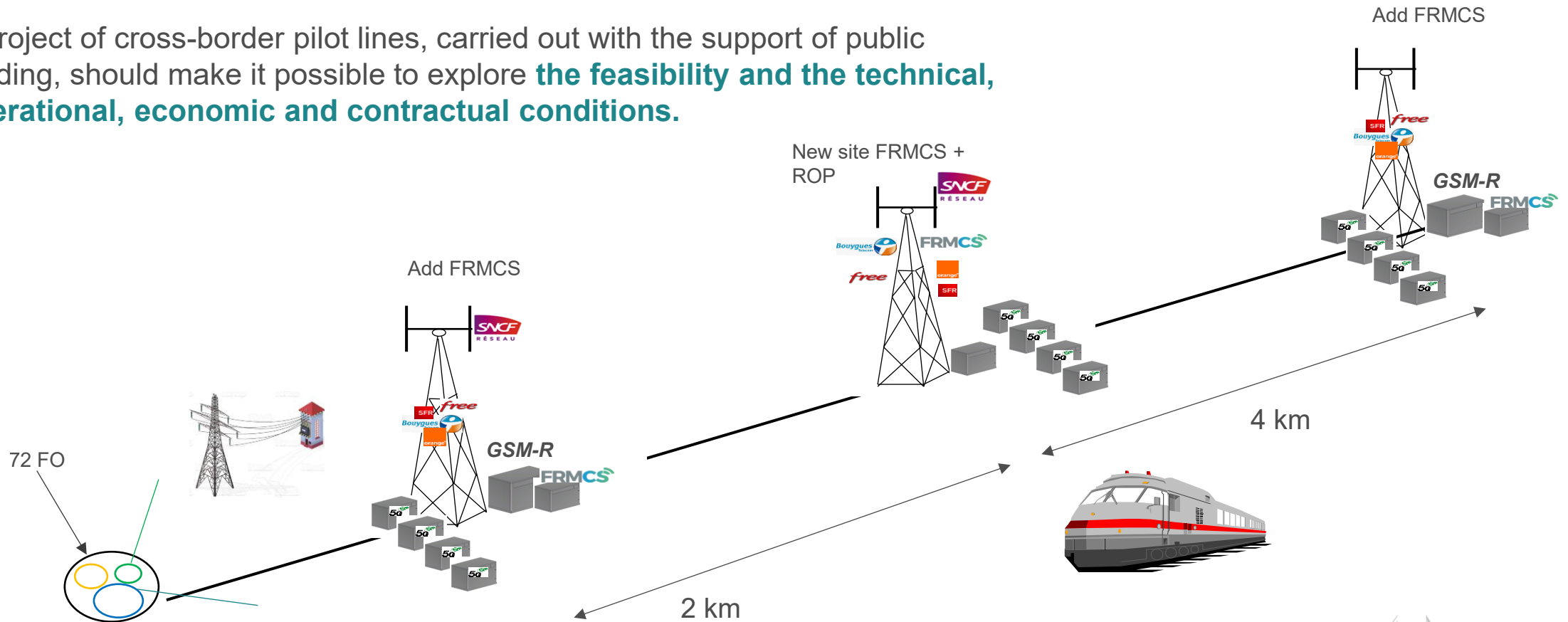
- + needs of passenger connectivity
- + digitalisation of rail operations



Searching for MNO - Railway synergy

- A possible economy in the co-construction of public 5G coverage for passenger use and private 5G coverage for rail operations.

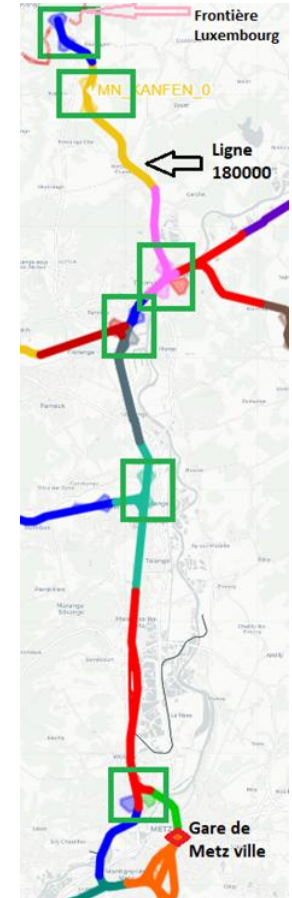
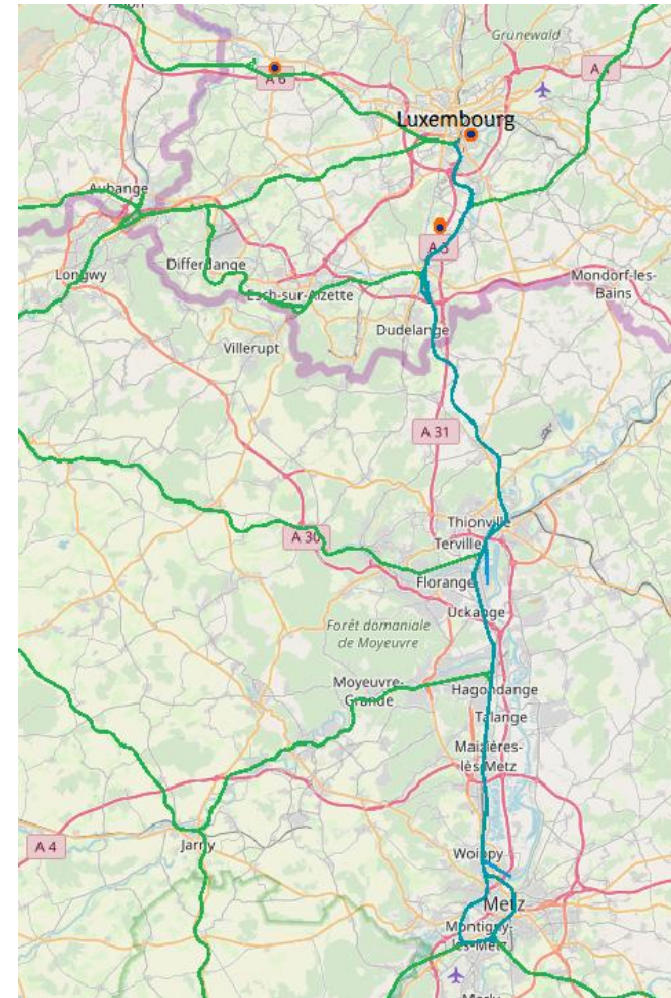
A project of cross-border pilot lines, carried out with the support of public funding, should make it possible to explore **the feasibility and the technical, operational, economic and contractual conditions.**



Projet Study 5G MELUSINA

	Rail	Telecom
Participants	 	<ul style="list-style-type: none"> • Free Mobile • SFR • Bouygues Telecom • Orange Lux • Luxembourg OnLine • Proximus Lux • Post Luxembourg

France (Metz- Border)	Luxembourg (Border-Luxembourg City)
<ul style="list-style-type: none"> ▪ 50 km of railways for french section • ≈ 33 MNO 5G radio stations and 16 SNCF FRMCS radio stations 	<ul style="list-style-type: none"> ▪ 17 km of railways for luxembourg section ▪ ≈ 6 FRMCS radios stations
<ul style="list-style-type: none"> • Possible synergy with ATO project • Speed up to 160 km/h (FR) and 140 Km/h (Lux) • Traffic mix of freight(30%) and passenger (70%) 	



Project Works 5G HSL EUROLINK

The overall objective of the 5GHSL Eurolink project is to prepare for the deployment of 5G infrastructure along the high-speed rail line between Paris (France) and Brussels (Belgium). This project will explore synergies between IMs, MNOs and railways around infrastructure sharing to reduce deployment costs, reduce carbon footprint and enable service efficiencies for long-term operations.



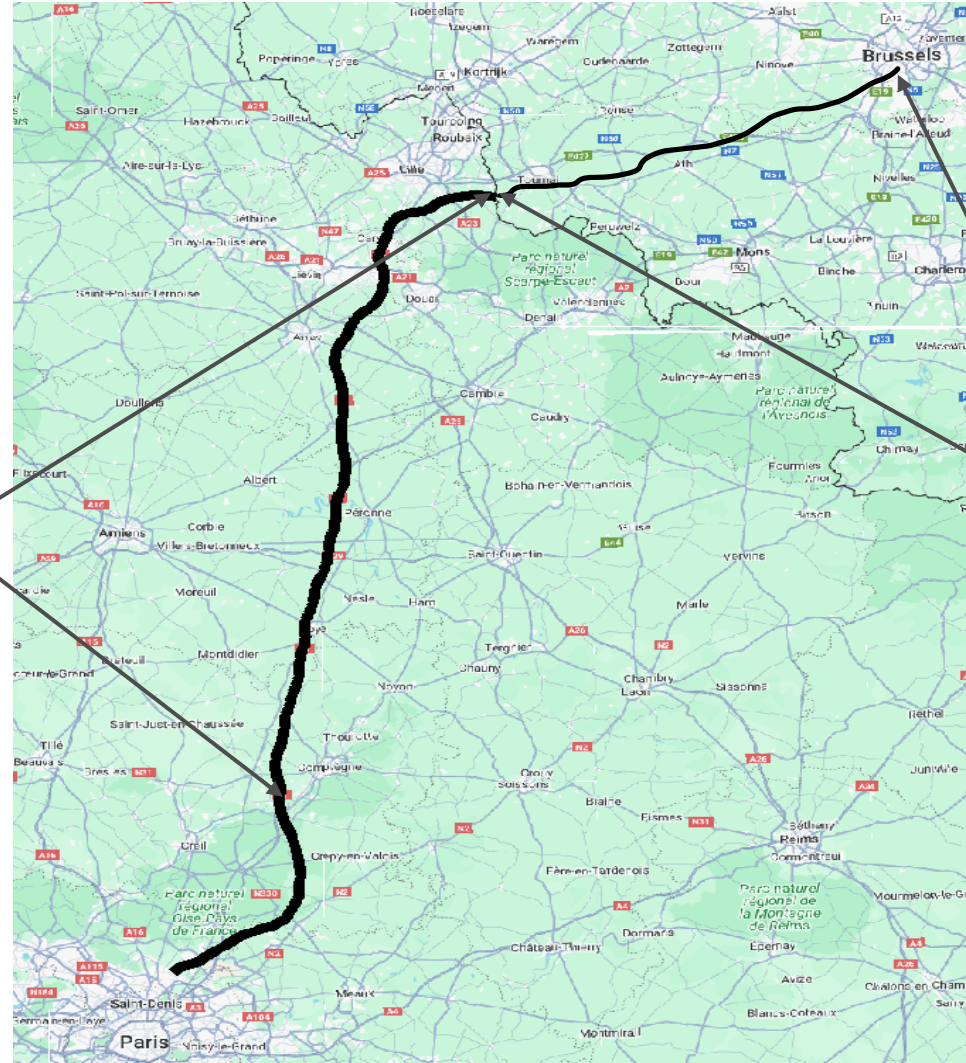
Project objective : better connectivity

- Synergy between railways and ROP
- High connectivity for the passengers
- FRMCS Deployment

PARIS - BRUXELLES

- **155 km** for France la France
- **88 Km** for Belgium (71 Kms LGV from Lembeek to the boarder)
- **International HSL line** (TGV, EUROSTAR, etc.)

Project



France : 155 Km

Belgique : 88 Km

PARTNERS

Beneficiaries

proximus



INFRABEL
Right On Track



SNCF
RÉSEAU



THANK YOU !

MERCI !

