



17.05.2021 | Jeroen Wesdorp and Thomas Moerman











EuroLink "Raison d'être"



Challenges:

Green deal, climate debate, short haul flights, ...

→ Need for a green solution for high CO2-emissioning transport modes



Suboptimal use of rail infrastructure and capacity

Planning of international trains within fixed national timetables vs Tabula Rasa and redesign of the European transportplan with a macro to micro philopsophy



Suboptimal travel times

Plea to make rail great again by improving travel times and making international train travel more attractive and competitive with the flight market



Example: Eurostar London – Amsterdam



Air-Rail substitution

>50 daily retour flights Amsterdam-London

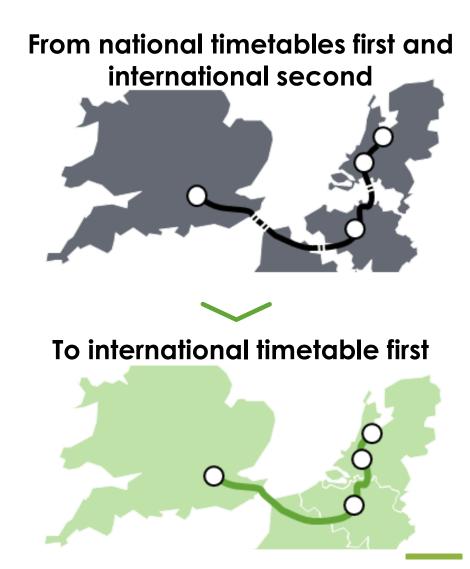


Suboptimal use of infra



Suboptimal travel times from Amsterdam to London:

2019 4h402020 (direct) 4h10Optimal (direct) 3h40





Our motives for a better international passenger rail network in Europe



Sustainable growth

International rail transport enables sustainable growth as an alternative to air and road traffic.



Better connectivity

Rail can accommodate growing demand and the need for connectivity within Europe.



Optimized use of infrastructure

Alignment of national networks and full use of existing and planned infrastructure.



Our design philosophy

Higher Frequencies



- More cross-border connections
- Systematic slots with potential for growth

Shorter Travel Times



- More attractive slots
- Needless run time margin to be avoided

Direct Connections



- Much more direct connections
 throughout Europe
- Not just link two countries but three or even more

Optimized Transfers



- Attractive transfers (in addition to direct trains)
- Pan-European integral clock face timetable





More and better quality travel options for more people



Since 2020 EuroLink offers a platform for network planning experts of a growing number of rail infrastructure managers.



- Bottom-up initiative of InfraBel, ProRail and DB Netz, with support of the Ostschweizer Fachhochschule.
- As experts in logistics and infrastructure, we help to improve international transport for sustainable growth and better connectivity.
- Our team is growing: more and more IMs are contributing to EuroLink.
- Our team sees opportunities for better international rail transport by designing logically from macro- to microscopic starting from a Tabula Rasa
- EuroLink supports initiatives like TEE 2.0 & TTR. With joined forces we can make rail great again!

Let's modal shift together!





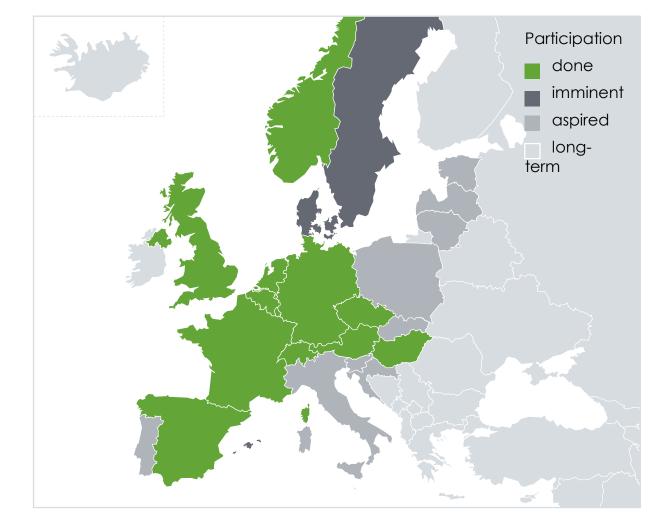


























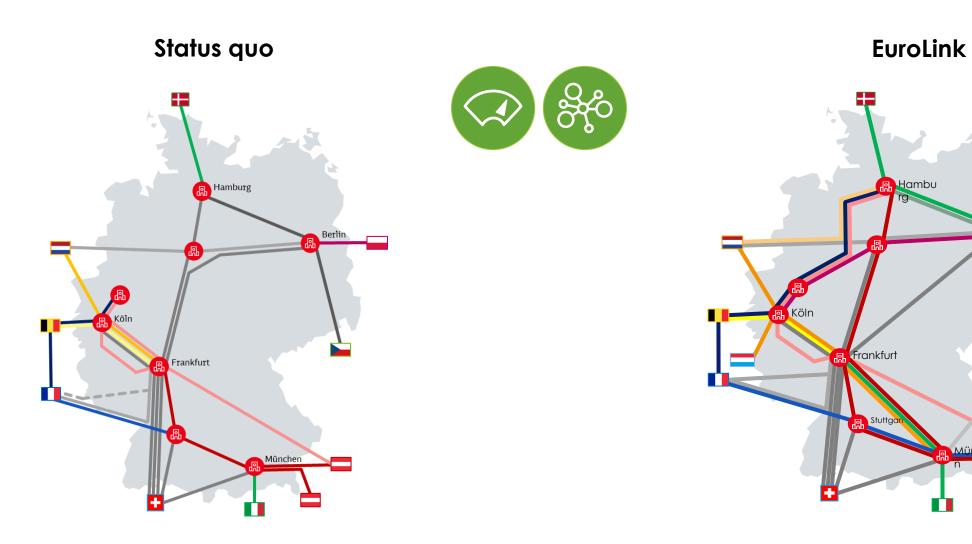






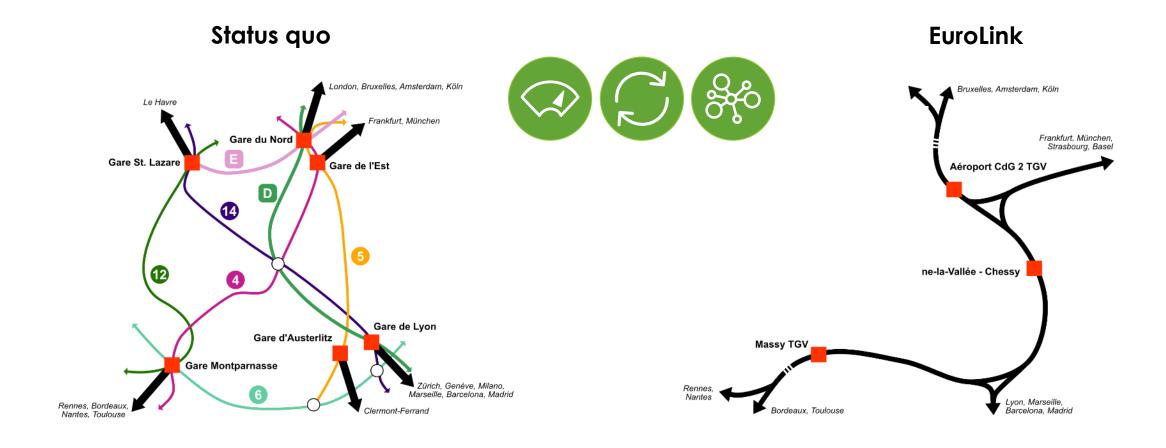


Example: International trains often end right after the border crossing. In EuroLink trains are extended across the country.





Example: Use of new hubs for long distance travel around Paris



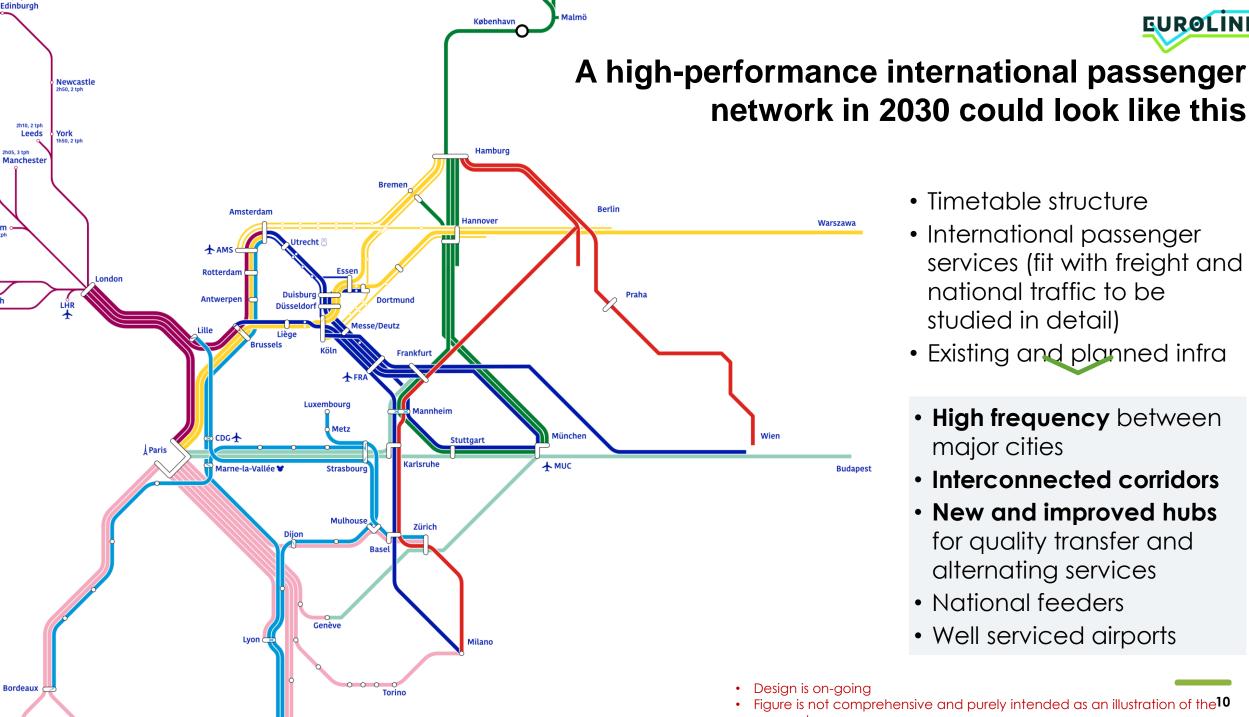




Example: There are already well-designed hubs for international relations.

In EuroLink these hubs are refined and get even more to Kobnhavn/ connections. Oslo/Stockholm **EuroLink** to Aarhus Hamburg to Köln/ Amsterdam/Paris Berlin Warszawa to Hannover Connections in to Erfurt Poland, Dresden Katowice Hungary and Slovakia, and further to Baltic countries and **Praha Bohumin** the Balkan to be to Plzen/ added München Breclav 🔯 to Passau/ Köln Wien **Bratislava** ►to Kosice every hour to Salzburg/ every 2 hours Zürich to Zagreb/ every 4 hour **Budapest** Bucuresti to Villach/ less than every 4 hours Venezia/ national line

Ljubljana



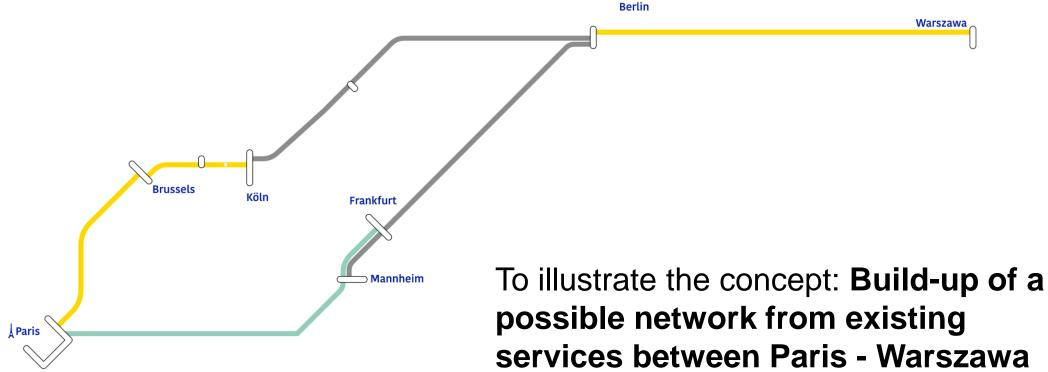


EUROLINK

- Timetable structure
- International passenger services (fit with freight and national traffic to be studied in detail)
- Existing and planned infra
- High frequency between major cities
- Interconnected corridors
- New and improved hubs for quality transfer and alternating services
- National feeders
- Well serviced airports
- Figure is not comprehensive and purely intended as an illustration of the 10



Warszawa,



possible network from existing services between Paris - Warszawa

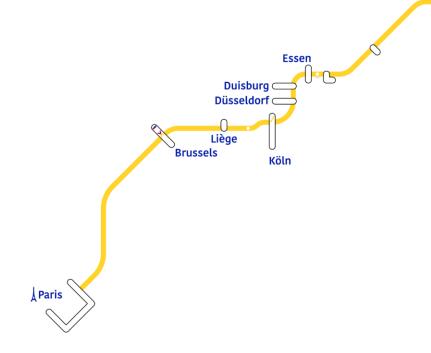
- Current situation: partially aligned international and national services:

Paris to	Today
Köln	3h26
Berlin	8h20, 1 change
Warszawa	15h09, 3 changes

^{*}Current travel times are based on public information for April/May and may be influenced by COVID.



Berlin Warszawa

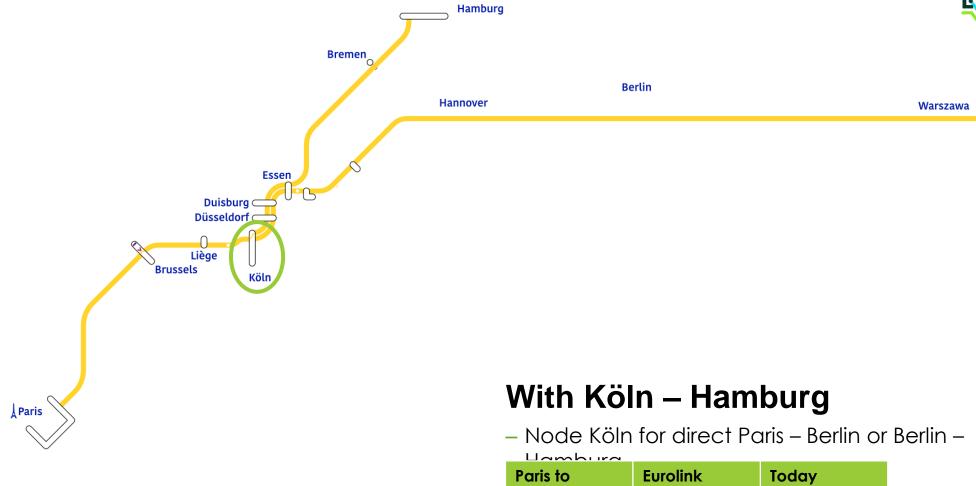


In Eurolink we align slots to create long-distance opportunities

Paris to	Eurolink	Today
Köln	3h19	3h26
Berlin	8h05	8h20, 1 change
Warszawa	13h44	15h09, 3 changes

*Eurolink travel times on this and following slides are indicative and subject to change





Paris to
Eurolink
Today
Hamburg
7h00, direct
8h04, 2
changes



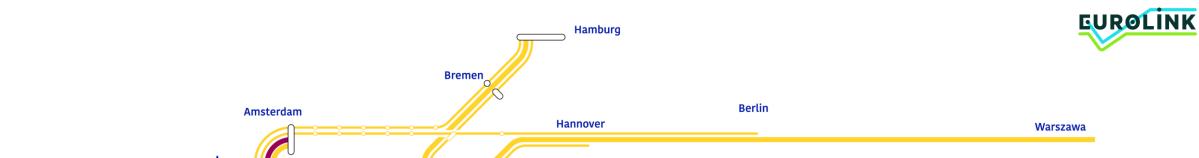


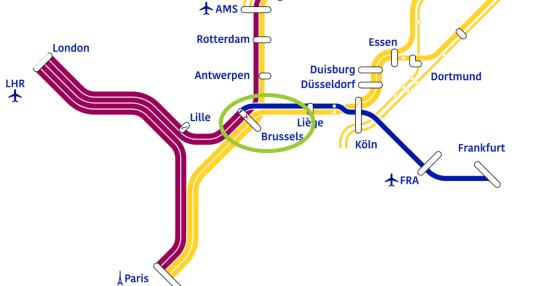
- Feeder and outflow of international network





Amsterdam to	Eurolink	Today
Hamburg	4h48	5h05, 1 change

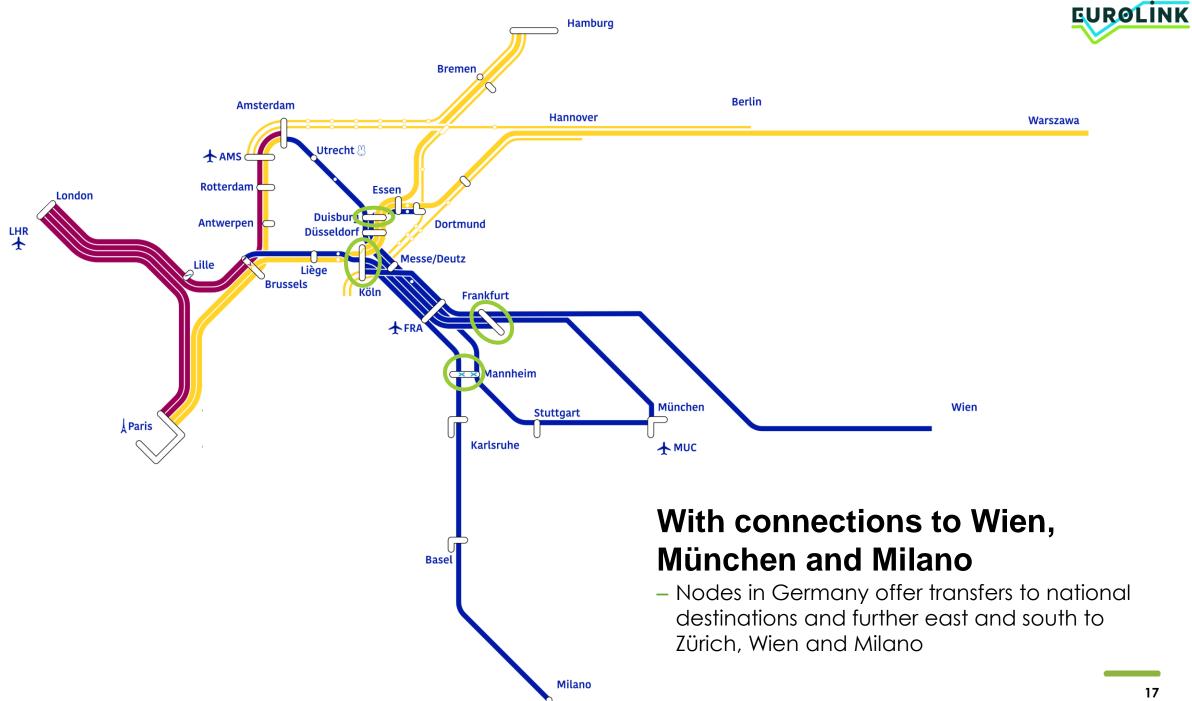


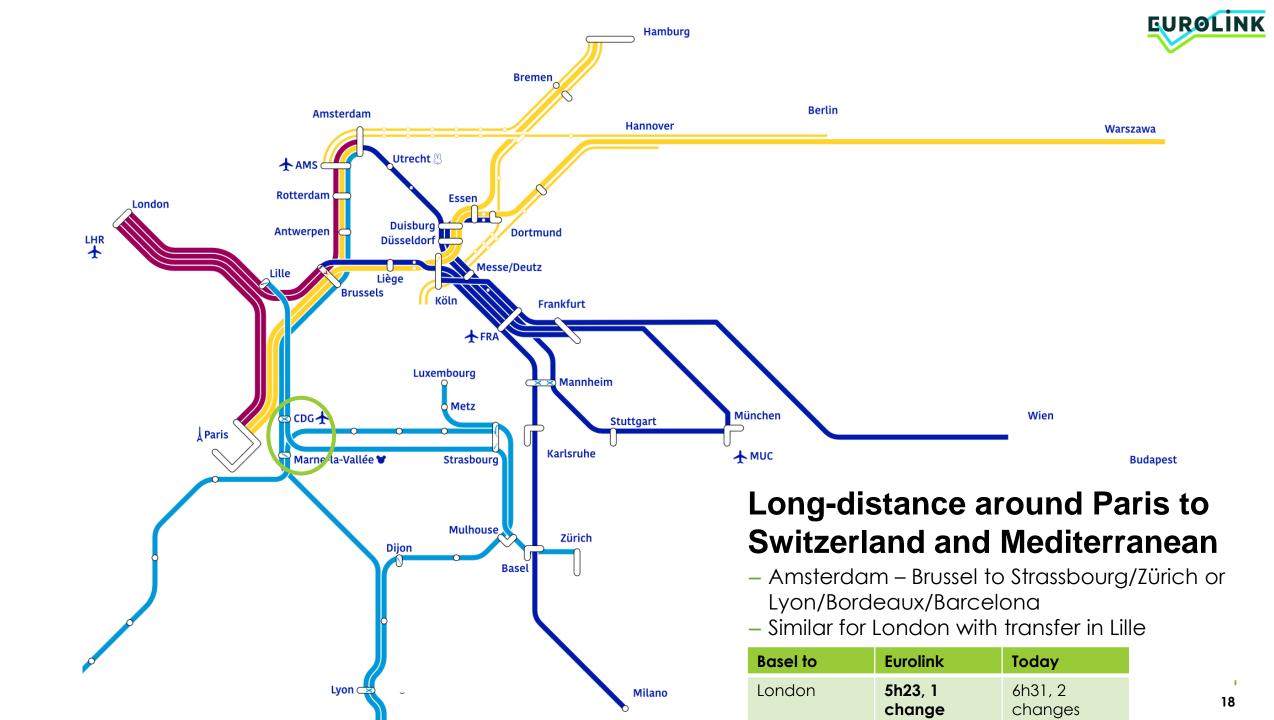


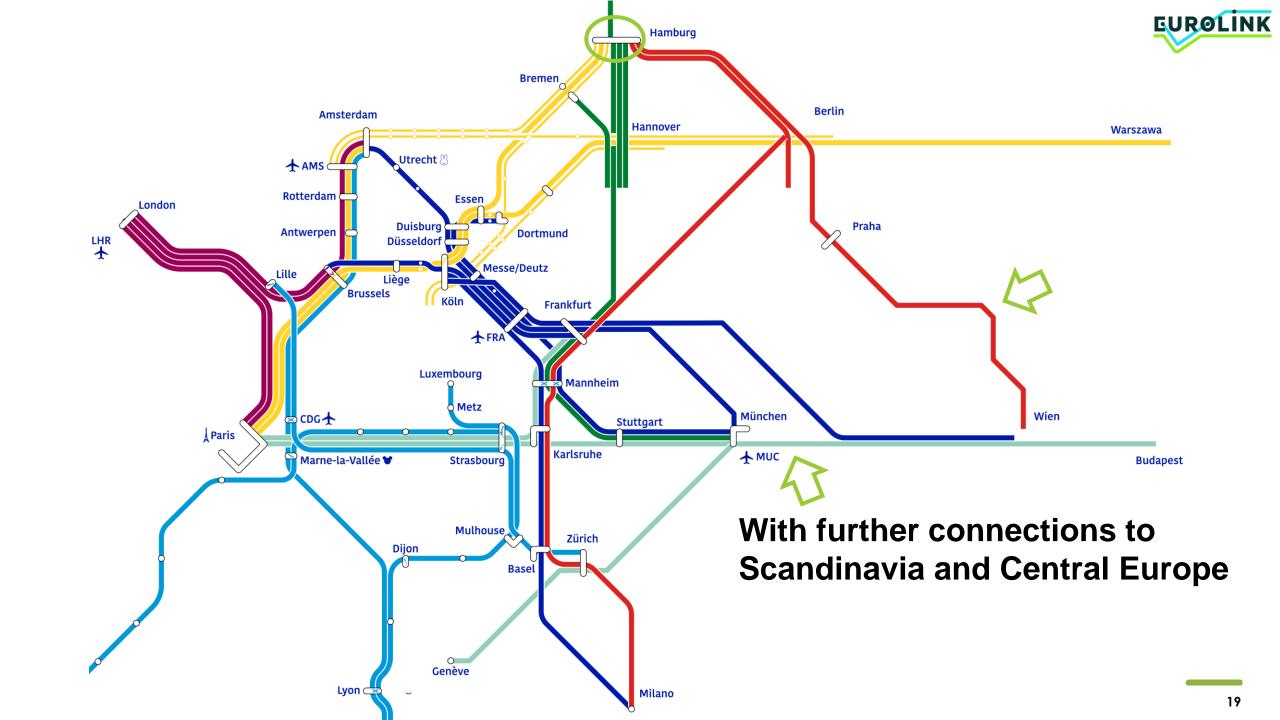
With connections to the United

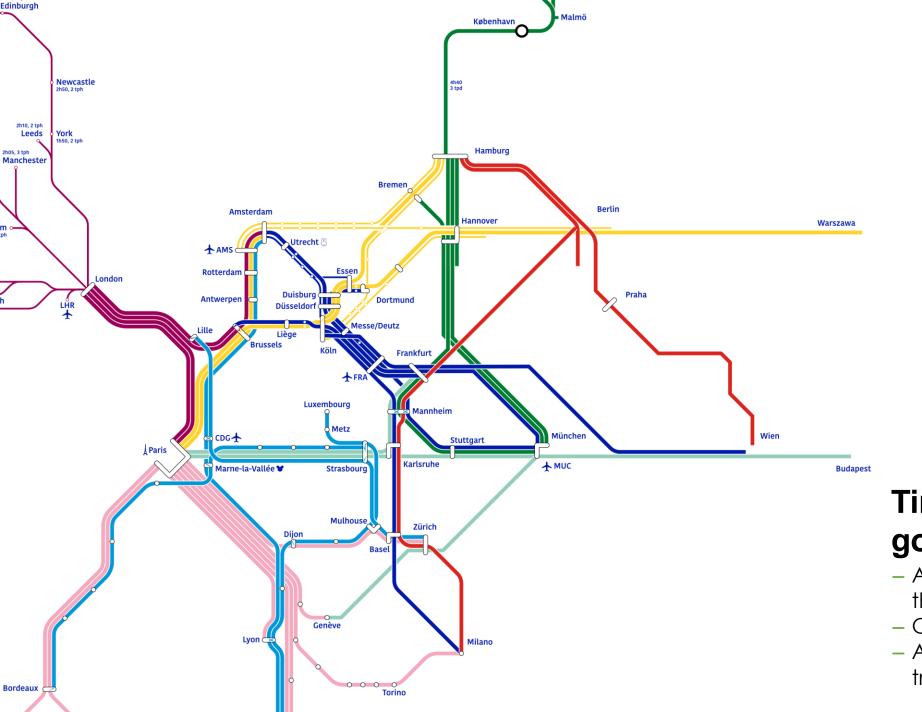
- High frequency fast services to London and UK fit in with yellow services on mainland
- Hub Brussel for connection London Köln, Frankfurt

London to	Eurolink	Today
Paris	2h24	2h36
Brussel	1h54/2h00	2h00
Amsterdam	3h44	4h10*
Köln	4h24, 1 change	6h17, 1 change
*Frankfyrt stop L	5h32, 1 change	6h04, 1 change







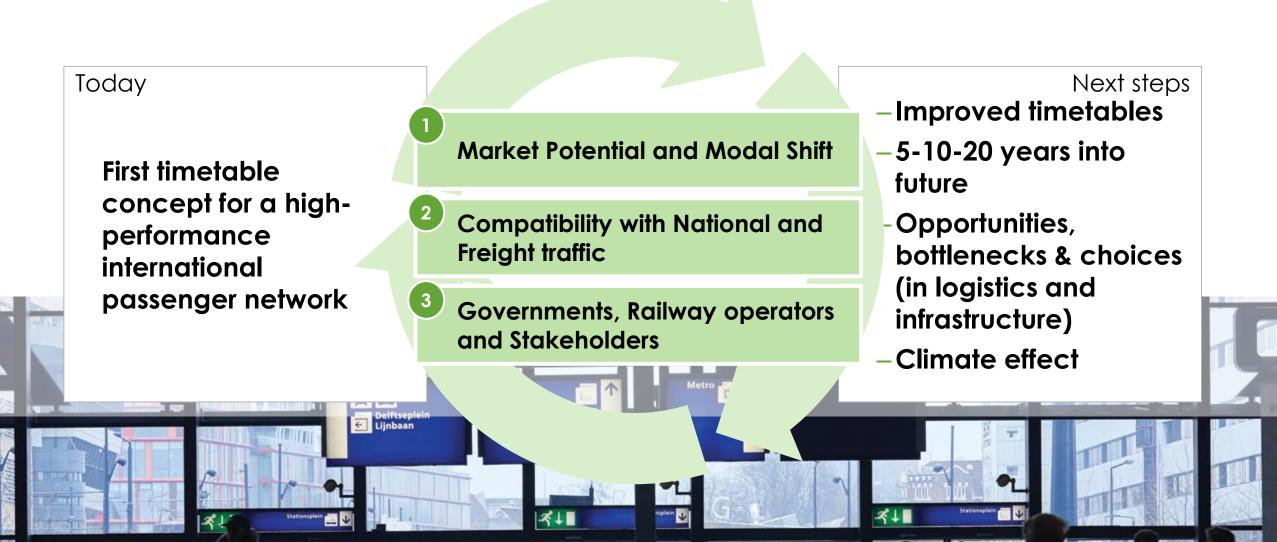




Timetable design is ongoing

- Adding new parts of Europe to the design
- Optimizing the 'core-area'
- Adding other types of rail traffic

By iteration we will learn more about the best possible network.



EuroLink forms a promising basis for further development

- EuroLink shows a possible high-performance international network around 2030, every hour. For short-, medium and long-distance international travel.
- Further step-by-step development of the international network for instance in pilots and TimeTable Redesign.
- New and better scenarios 5-10-20 years into the future.
- As partners in EuroLink we form a network of experts and can help in the interaction between operators, governmental parties and other stakeholders.

We'd be very interested in your thoughts and suggestions!



