

● ● ● **Extension of the rail network in the Cologne region**  
Ongoing and future projects

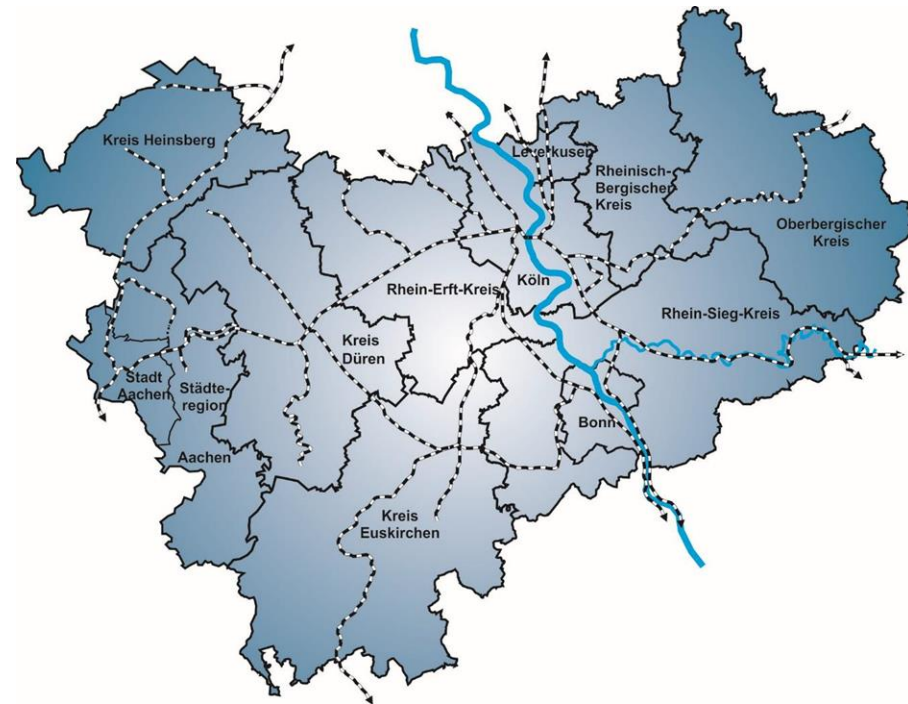
# Nahverkehr Rheinland (NVR)

## Who we are

- Regional public transport authority
- Area of responsibility: Cologne region

## What we do

- Timetabling and tendering of regional rail operation
- Funding of public transport infrastructure
- Regional coordination of extension measures of the rail (e.g. Cologne node)
- Regional mobility development (e.g. mobility hubs)



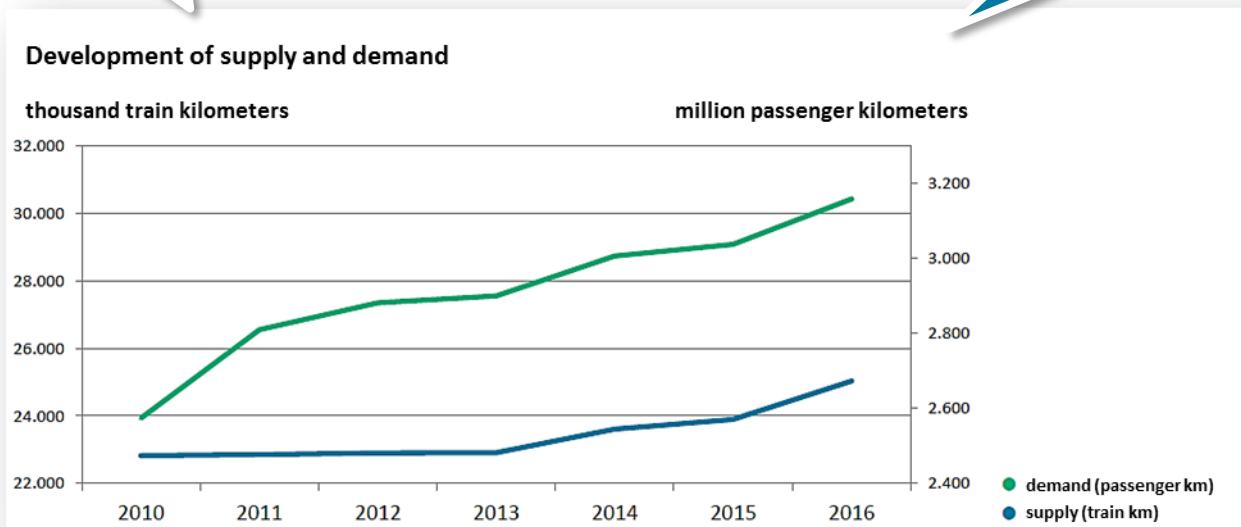
Source: [www.nvr.de](http://www.nvr.de)



## Bottleneck railway infrastructure

2017: 28 % more delays in the S-Bahn network

Especially the demand for the S-Bahn rises. From 2015 to 2016 it increased by 7,6 %!



Demand increased by 22 % since 2010

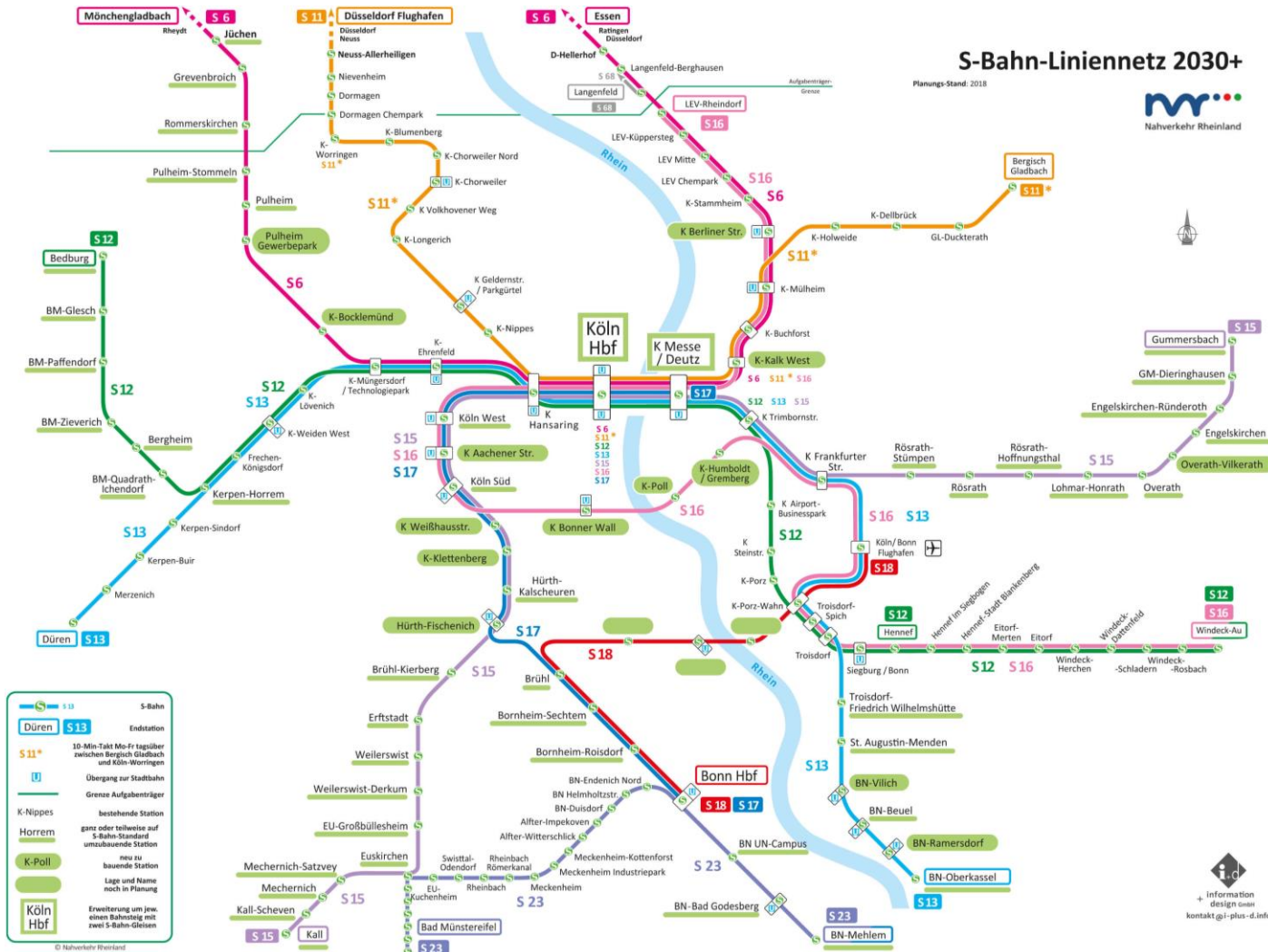
Supply increased by 10 % since 2010



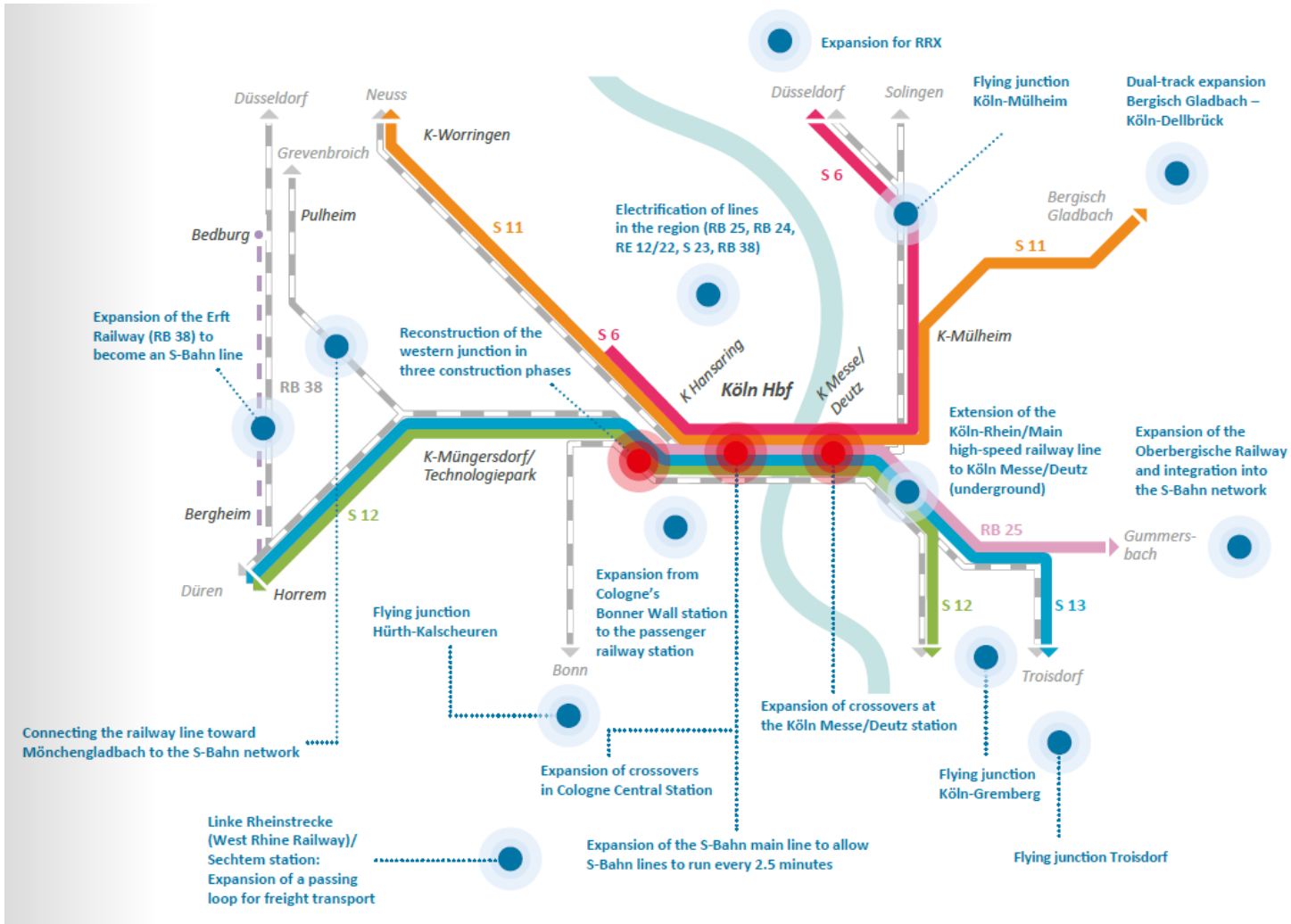
# S-Bahn network concept for 2025



# S-Bahn network concept for 2030+



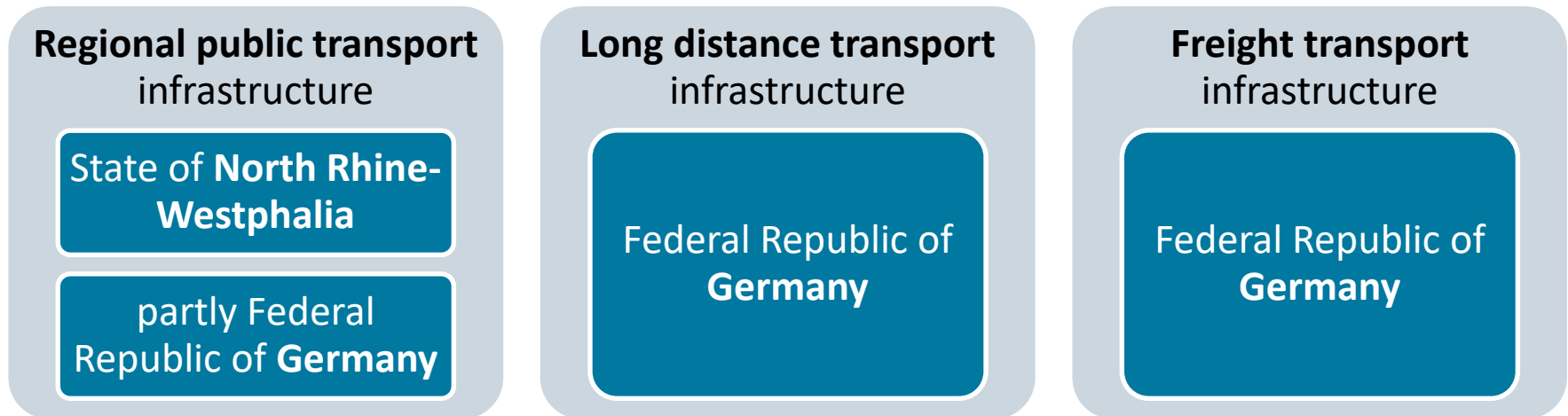
# Measures in the Cologne railway node





## Financing of the measures

- **Total costs for the Cologne railway node measures: around 3.6 billion euros**
  - Thereof expansion investments: around **2.5 billion euros**
  - Cost–benefit ratio: 1,7
- Allocation of funds for regional, long distance and freight transport required
- **Funding responsibilities in the Cologne region:**



- High coordination effort



## EU funded railway projects

- **Current project (together with Dutch province of Limburg):**
  - Electrification of the railway between **Herzogenrath (DE)** and **Heerlen (NL)**
  - Continuous connection between **Aachen (DE)** and **Maastricht (NL)** in service since January 2019
  - Extension to **Liège (BE)** planned
  
- **Possible future projects:**
  - Complete implementation of **ETCS** (European Train Control System) in the Cologne node
  - Further **cross-border rail** projects



● ● ● Thank you for your attention.

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