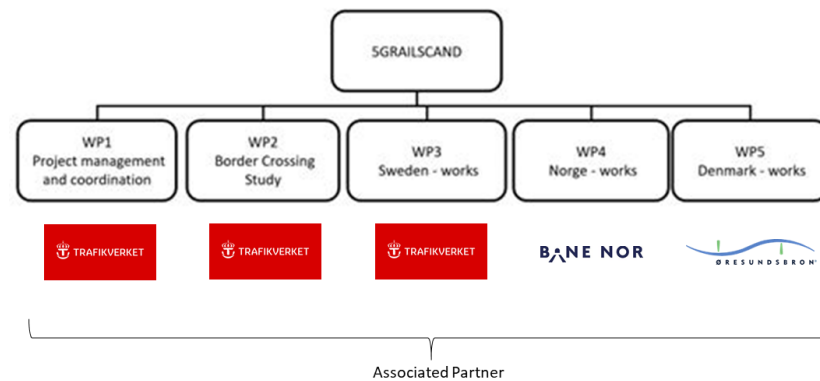


# 5G4RailScand

5G for Railway operations in Scandinavian-Mediterranean Corridor section Copenhagen-Oslo

- To facilitate the first implementation of the Future Rail Mobile Communication System (FRMCS) in the Scan-Med European transport corridor, section Copenhagen-Gothenburg-Oslo, by deployment of the needed passive digital infrastructure.
- Long term: Increase the railway attractiveness for users by offering cutting edge digital mobile communication services.



# Works

- Length: approximately 800 km of railway track
- Installation and preparation of 5G telecom passive infrastructure for FRMCS:
  - Installation of optical fiber in selected sections of the railway
  - Installation of radiation cables in selected railway tunnels
  - Construction of new radio sites (Densification)
  - Upgrade of existing radio sites
- Collaboration with mobile operators (site hosting)



# Deliverables

- Guidelines for FRMCS cross border consideration and passive infrastructure
- Upgraded passive infrastructure for the future deployment of active components and FRMCS network.
- Upgraded FRMCS test track in Sweden with 5G radio 1900 Mhz and 5G SA test core for piloting, testing of rolling stock and innovation of FRMCS services
- Plans for deployment of active FRMCS network and piloting of rolling stock in the section of the corridor.
- Preparedness for the full-scale implementation of FRMCS, by streamlining processes and organizations.

