



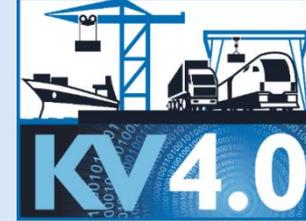
# Digitization of intermodal supply chain (KV4.0)



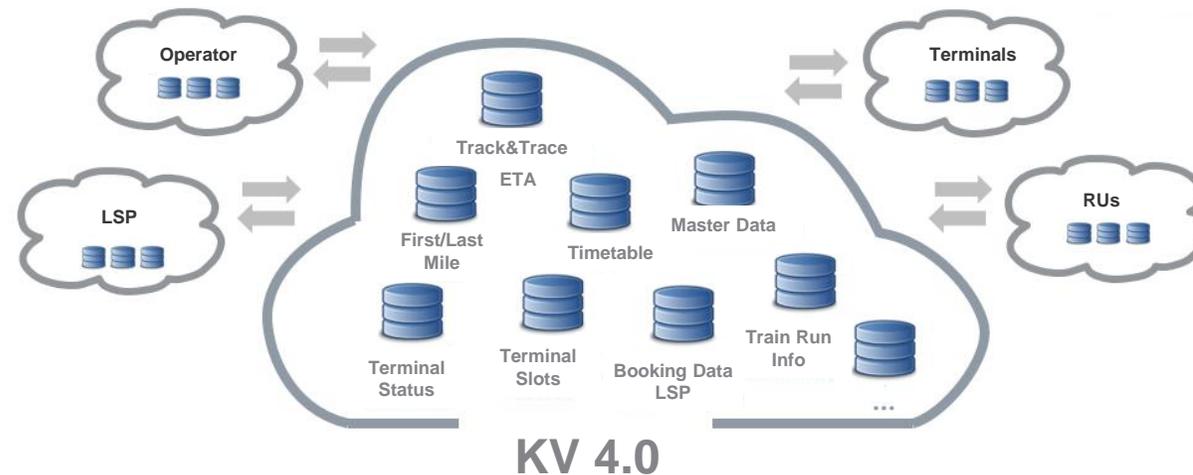
Bundesministerium  
für Verkehr und  
digitale Infrastruktur



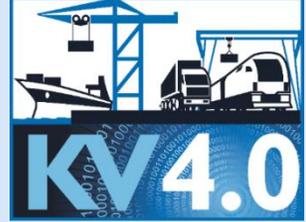
# Objective



- The aim KV4.0 Project is to build an **integrated data hub in order to increase transparency across the entire intermodal transport chain**, including: Logistics Service Provider, Intermodal Operator, Terminal Operator, Rail-Road Terminal, Rail-Road-Inland Waterway Terminal, Rail-Maritime Port Terminal, Railway Undertaking
- All participating partners will provide the **relevant and transport-related data**, starting from the first (electronic) booking with the intermodal operator, to the train run information until the collection of the loading unit at the arrival terminal



# Project partners



## Logistics Service Providers



## Intermodal Operators

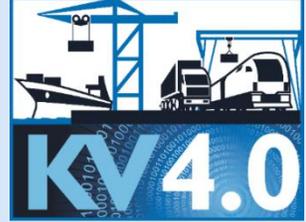


## Railway Undertakings



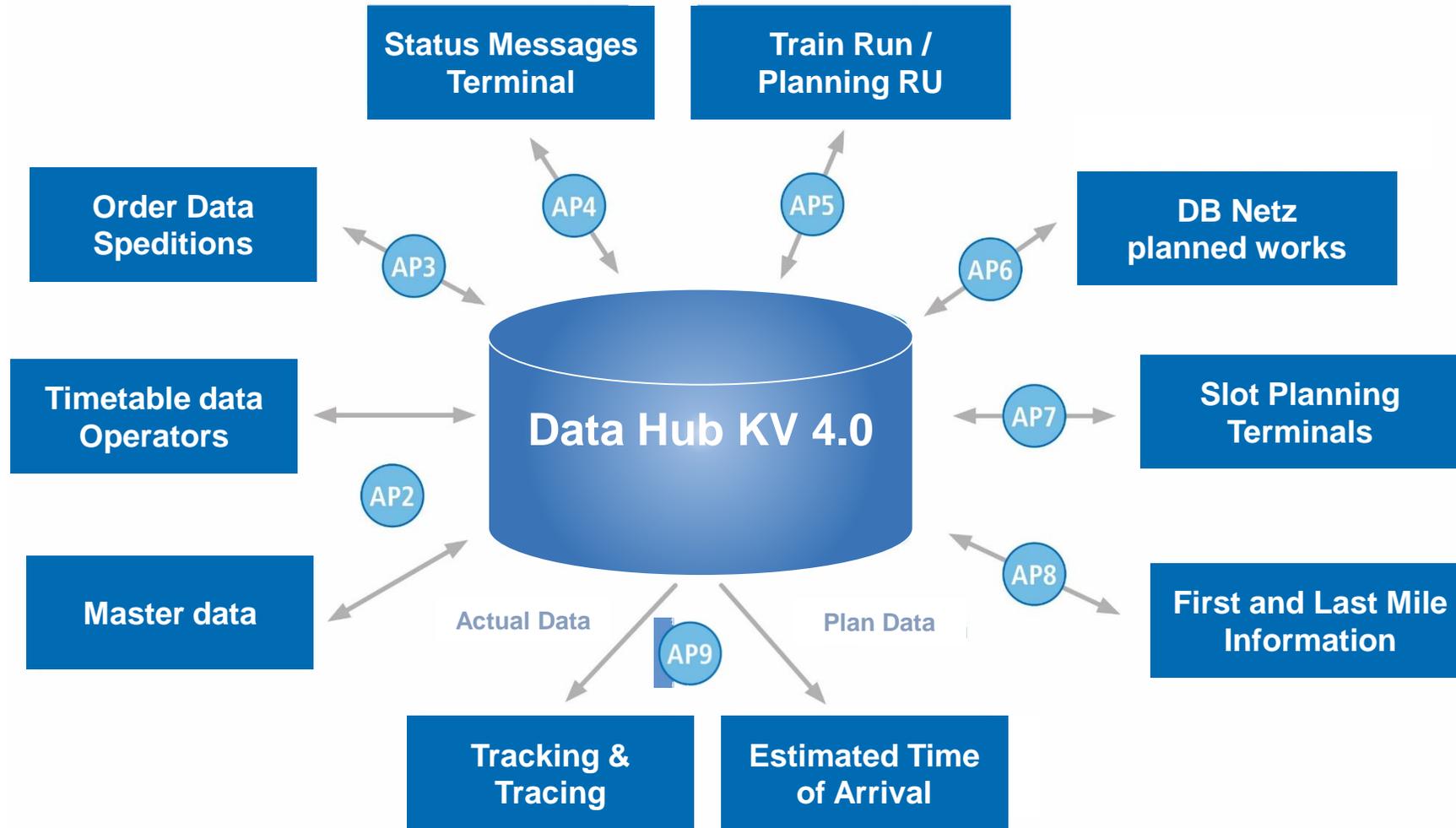
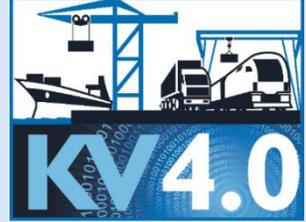
## Intermodal Terminals





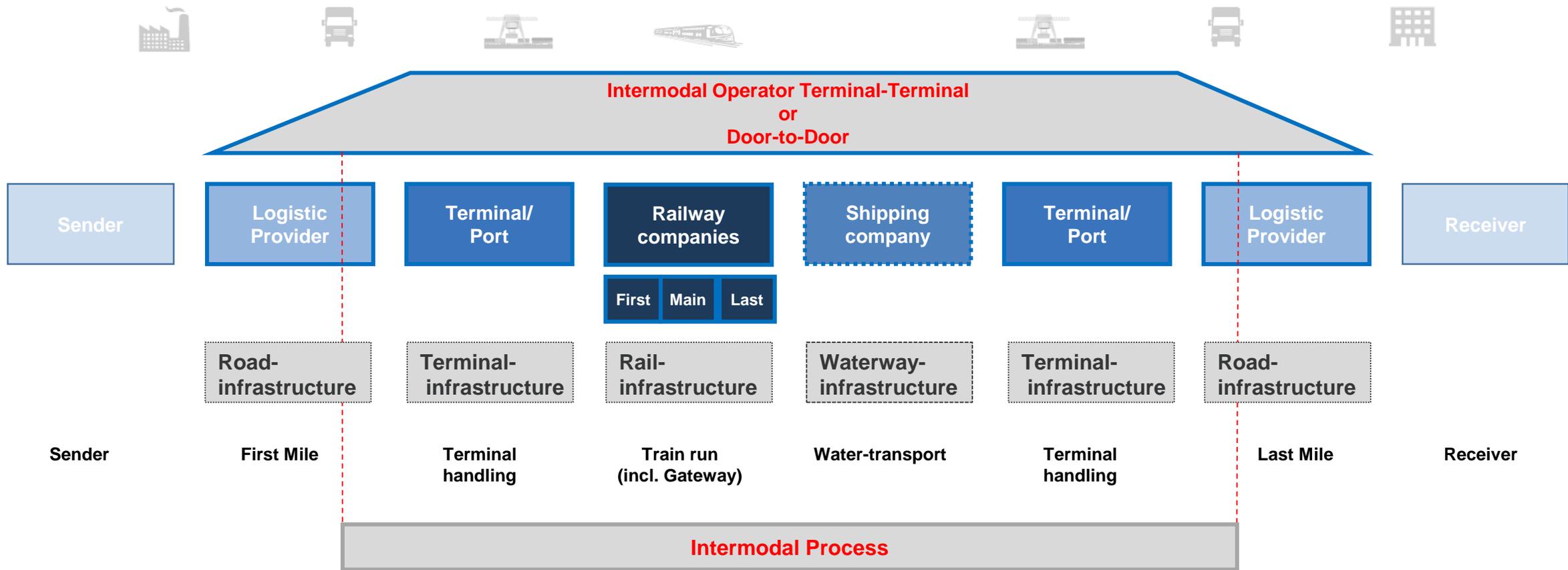
- Duration: 3.5 years (01.09.2017 – 31.03.2021)
- Planned budget: 5.87 million EURO Total cost, requested funding 2.29 million EURO
- Project partners: 11 companies from Germany, Italy and Switzerland
- Project objectives: use, exchange and processing of existing electronic data (train run information, order information, status information terminal/truck)
- Work packages: Timetable, Booking, Master Data, Train Run Data, Terminal Slot Planning, First/Last Mile, ETA (Estimated Time or Arrival) / ETP (Estimated Time of Pickup) forecasts

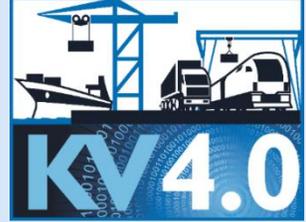
# Overall concept



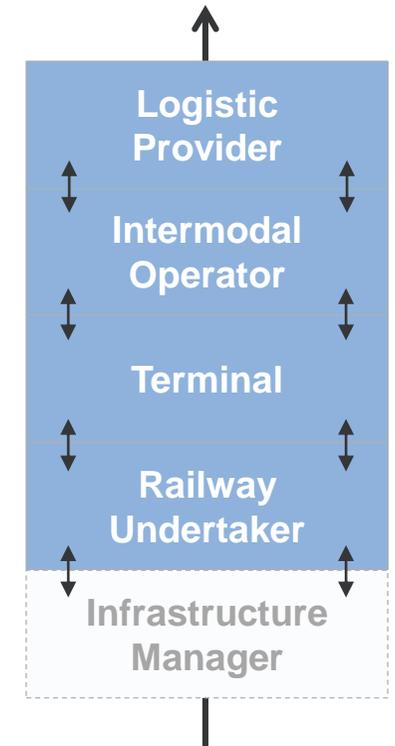
AP = Working Package

# Standard intermodal process





- Each level of the chain provide and receive real time services and data
  - Forwarder = Logistics Service Provider – LSP
  - Intermodal Operator - IO
  - Terminal Operator - TO
    - Rail-Road Terminal
    - Rail-Road-Inland Waterway Terminal
    - Rail-Maritime Port Terminal
  - Railway Undertaking – RU
  - Infrastructure Manager – IM
- “Network effect” very important to simplify the business processes of each partner and create a Win-Win situation



# Overall Data Hub – components & architecture

