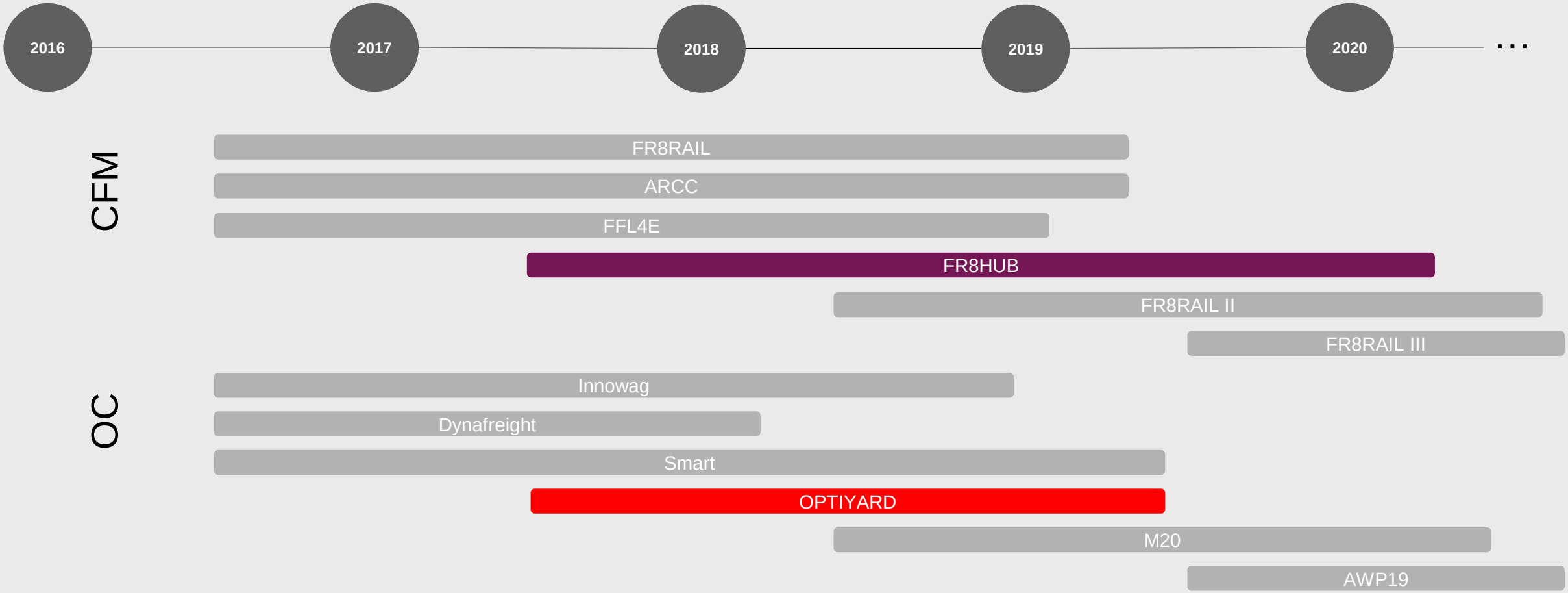
FR8HUB and OPTIYARD Collaboration

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 777402

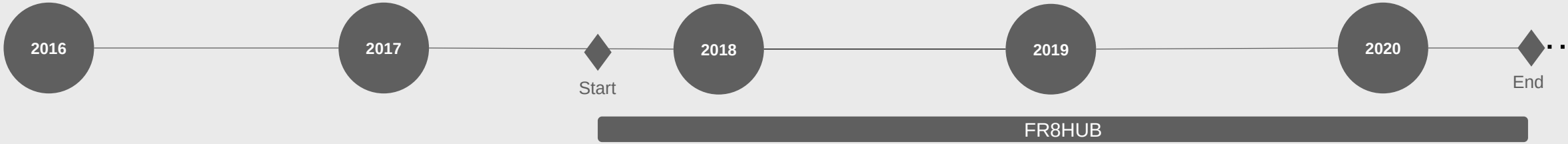
2019-09-26

Annual Work Plans - Projects



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 777402

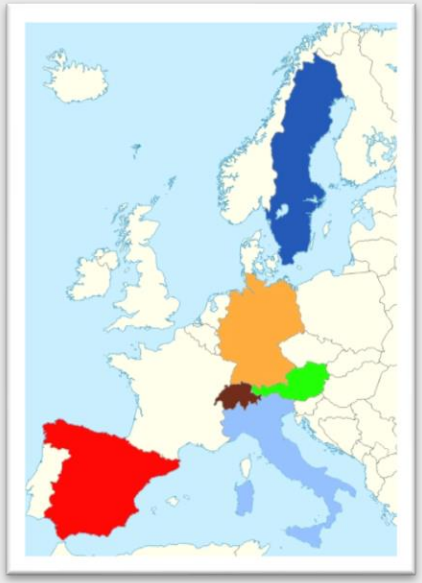
Overview of FR8HUB



Annual work plan 17
16 partners in Europe

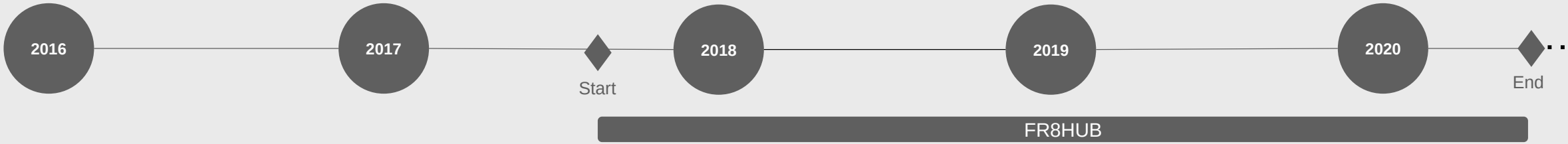
Trafikverket coordinator

Budget € 9 900 990



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 777402

Overview of FR8HUB

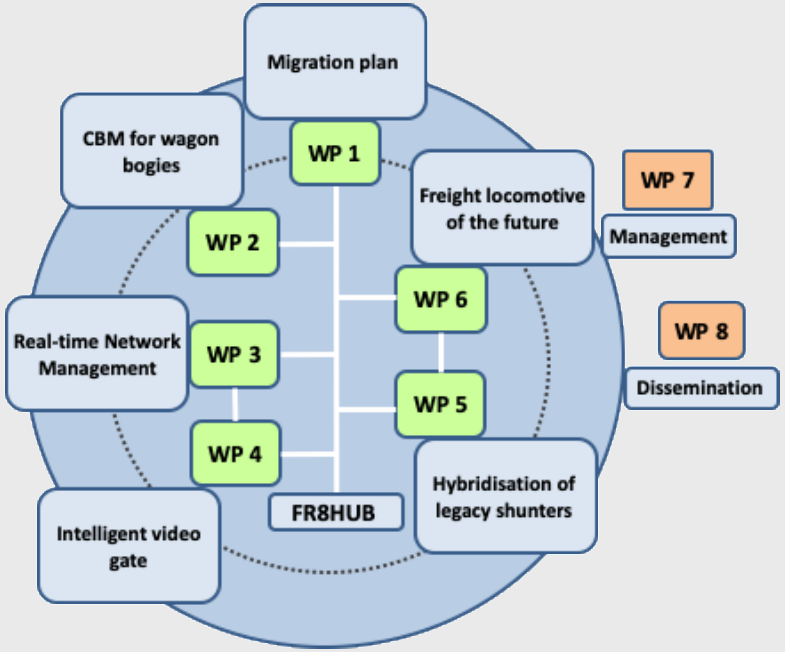


Annual work plan 17
16 partners in Europe

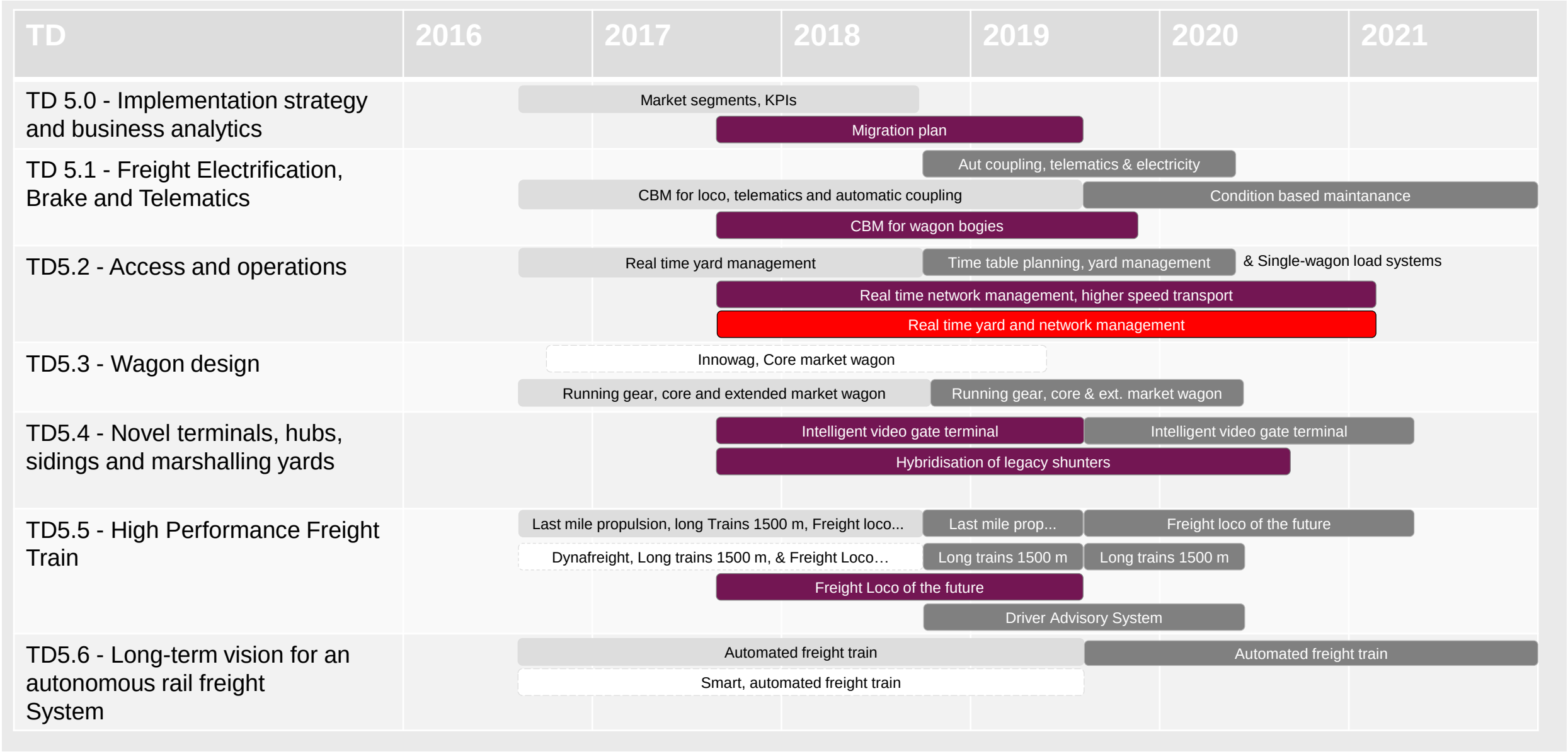
Trafikverket coordinator

Budget € 9 900 990

The work is divided to 8 Work Packages tackling 5 TDs and 6 focus areas.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 777402


TD
2016
2017
2018
2019
2020
2021
TD 5.0 - Implementation strategy and business analytics
Market segments, KPIs
Migration plan
TD 5.1 - Freight Electrification, Brake and Telematics
Aut coupling, telematics & electricity
CBM for loco, telematics and automatic coupling
Condition based maintanance
CBM for wagon bogies
TD5.2 - Access and operations
Real time yard management
Time table planning, yard management
& Single-wagon load systems
Real time network management, higher speed transport
Real time yard and network management
TD5.3 - Wagon design
Innowag, Core market wagon
Running gear, core and extended market wagon
Running gear, core & ext. market wagon
TD5.4 - Novel terminals, hubs, sidings and marshalling yards
Intelligent video gate terminal
Intelligent video gate terminal
Hybridisation of legacy shunters
TD5.5 - High Performance Freight Train
Last mile propulsion, long Trains 1500 m, Freight loco...
Last mile prop...
Freight loco of the future
Dynafreight, Long trains 1500 m, & Freight Loco…
Long trains 1500 m
Long trains 1500 m
Freight Loco of the future
Driver Advisory System
TD5.6 - Long-term vision for an autonomous rail freight System
Automated freight train
Automated freight train
Smart, automated freight train
Member calls
Open calls
Lighthouse
FR8RAIL
FFL4E
ARCC
FR8HUB
FR8RAILII/FR8RAIL III
Innowag
Dynafreight
Smart
OPTIYARD
M20/OC AWP 19
Smartrail

Overview of FR8HUB

2016 — 2017 — Start — 2018 — 2019 — 2020 — End

FR8HUB

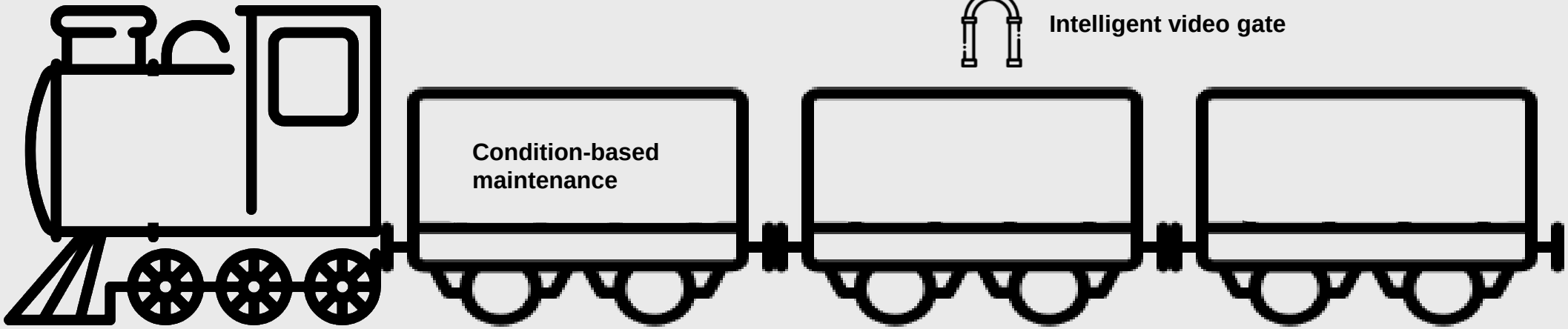
Freight Loco of the future

Hybridisation of legacy shunting Fleet

Last mile propulsion system

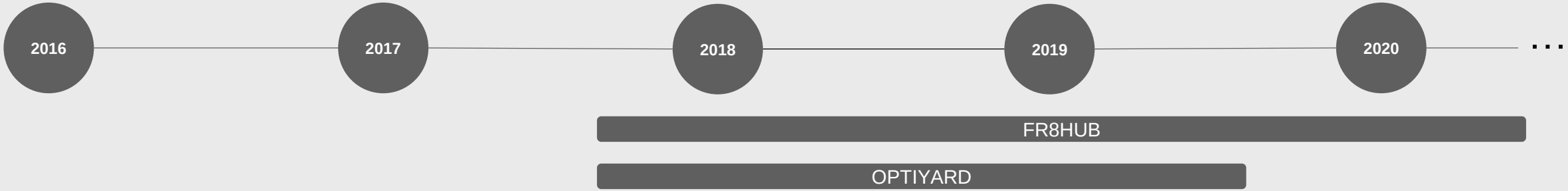
Improved methods for time table planning
Real-time network management
Business analytics & implementation strategies

Intelligent video gate



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 777402

Collaboration agreement



Collaboration agreement signed

UIC – Trafikverket

Real time network management

Some examples

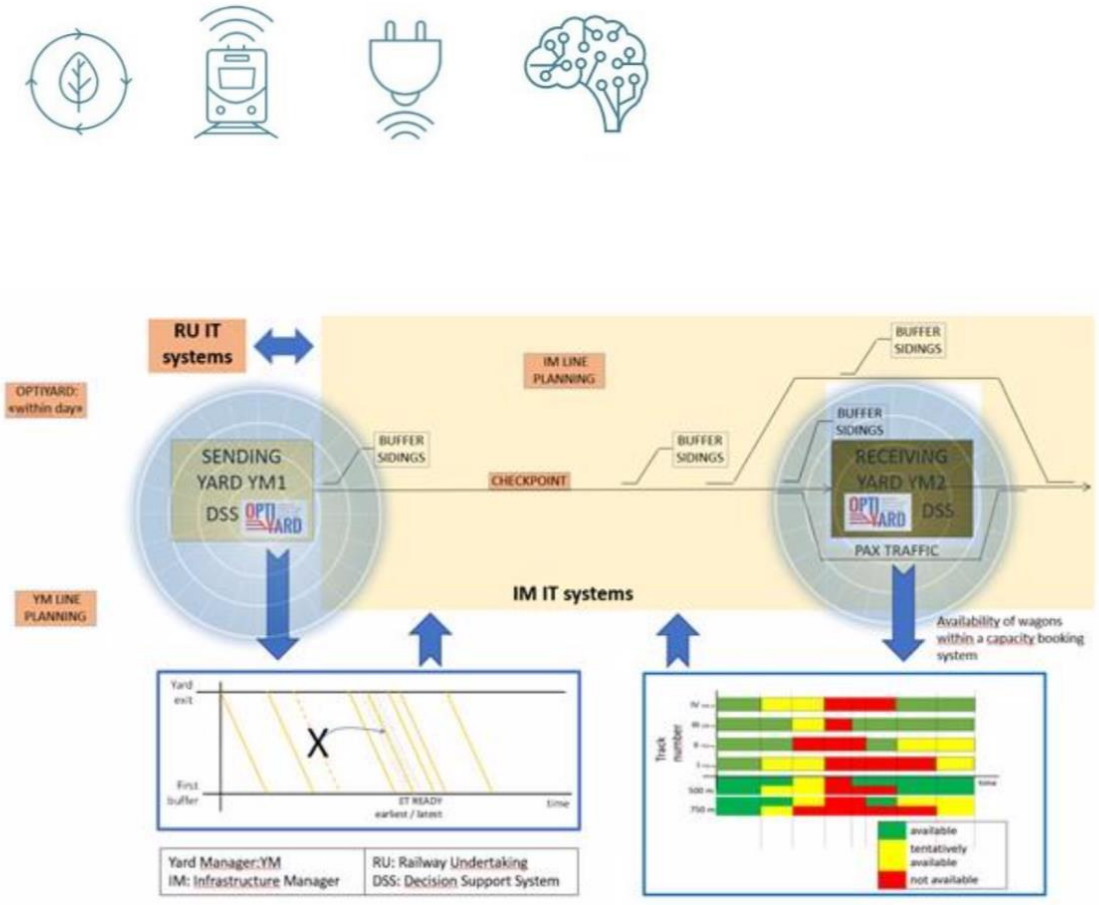
Collaboration Workshops

Rome 13062018 – OPTIYARD, FR(HUB

Stockholm 07022019 – OPTIYARD, FR8HUB, ARCC

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 777402

47. Yard and Network management



The solution to efficiently manage yards and rail network will result in identifying the difficulties and shortcomings for a yard manager and provide improved algorithms and specifications. The tool provided to support decisions will increase automation in planning and traffic control tasks.

Targeted market:

- Mainly RU's focussed on growth of pan-European freight operations market

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 777402

fr8 hub

Takeaways

Takeaways and next steps from WP3

- Improved knowledge interaction Yards/terminals – network
- Connection to Intelligent videogate gives knowledge about current digitalisation in freight
- Demonstrators gives methods and knowledge for current automation in timetable planning and traffic management
- Research connects with future processes for example RNE rolling timetable process, TTR ”Redesign of the international timetabling process”
- Increase speed freight trains – simulations and quantitative results will come during last year M25 – M36

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 777402