

Redesign of the International Timetabling Process (TTR)

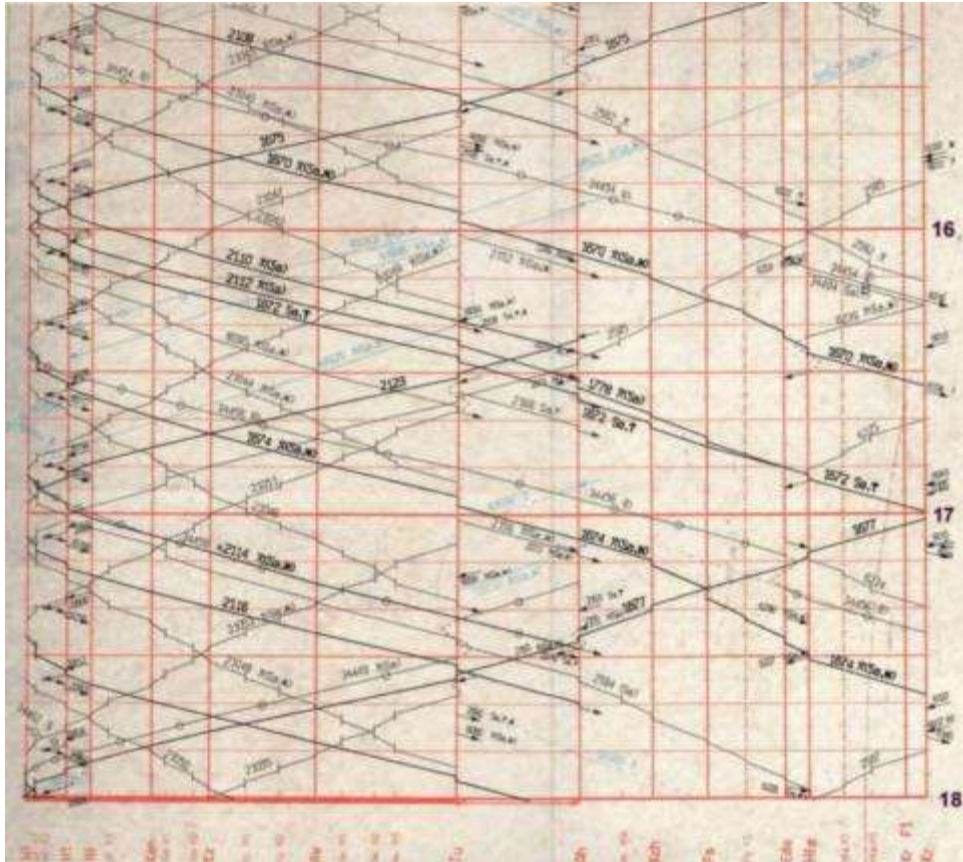
Ljubljana, 19 February 2019



TTR Introduction

Market needs, Vision, Elements, Timeline

The need for a redesigned TT process



- Out-dated timetabling process
- One static path request deadline does not fit to various market needs (e.g. freight traffic)
- Lack of harmonisation and cooperation
- Increasing national constraints
- Problem of coordination of works

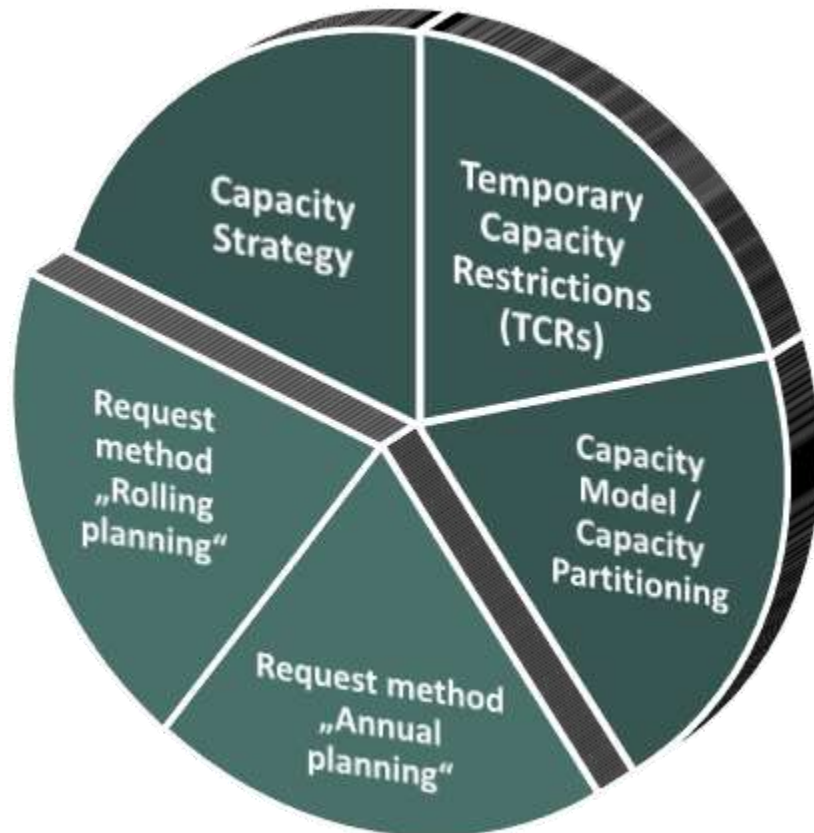
Vision

The goal is the implementation of the **complete process (i.e. all process components as agreed by RNE and FTE) latest by the end of 2024 (Timetable 2025).**

- Clear focus on freight and passenger **market needs** with optimised request deadlines
- Improved **reliability, consistency and stability** incl. planning and execution of Temporary Capacity Restrictions (TCRs)
- **Binding** implementation and application of the redesigned timetabling process TTR
- Improvement of **efficiency** (capacities, resources, IT) in order to avoid multiple planning/work
- Making best **use of existing Infrastructure capacity**

Elements of the redesigned timetabling process

Railway sector created a new TTR process that has the following main elements:



The successful implementation of TTR relies on several pre-conditions:

Legal Framework

TTR must be supported by the legal framework, pragmatic solutions shall be applied

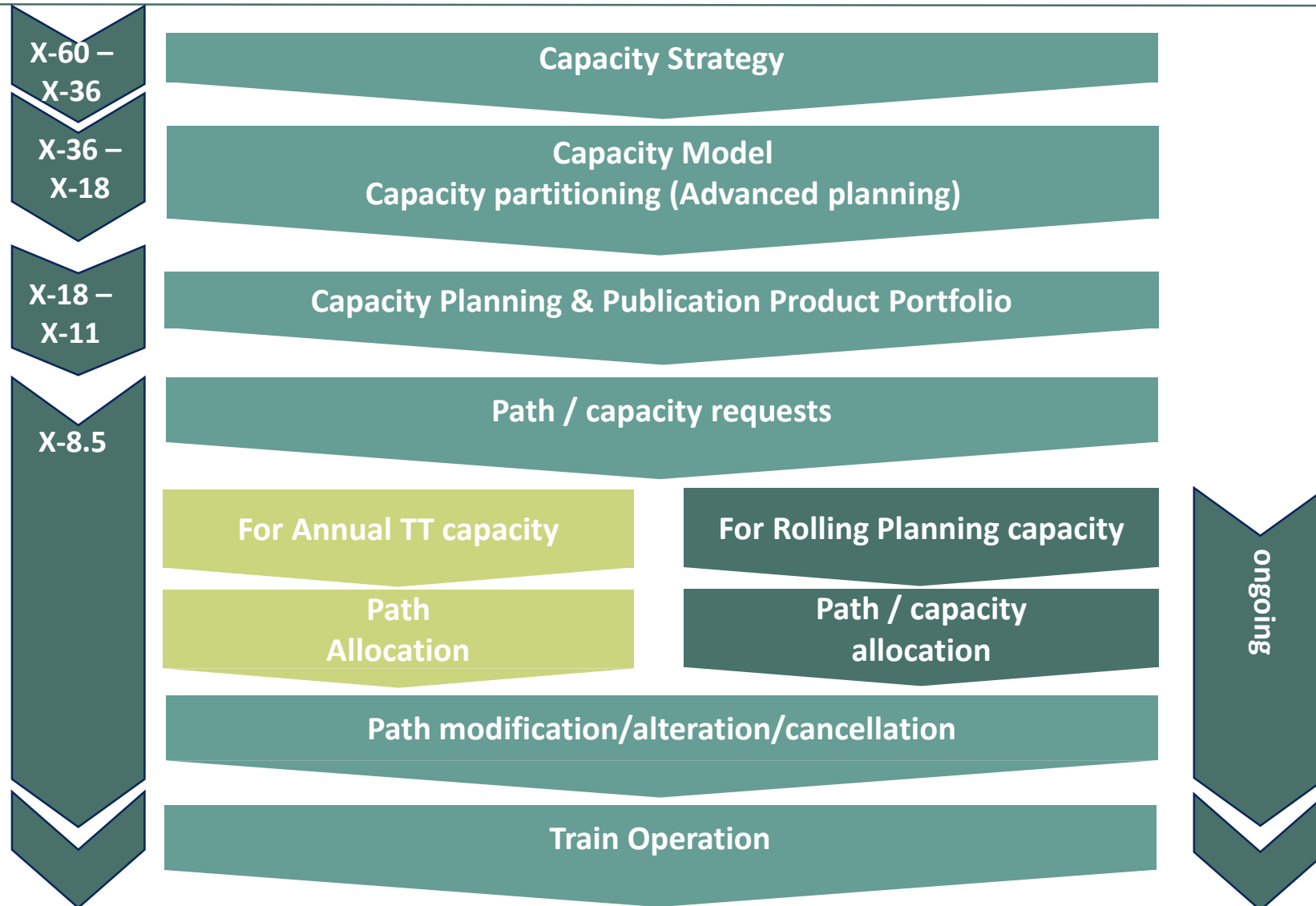
Commercial Conditions

Internationally harmonised CC are required to reduce waste of existing capacity

IT Landscape

Digitalisation and automatisisation is must. A common IT solution needs to be placed

Process timeline of TTR



Benefits of TTR for the sector

- **Benefits detected in Business Case:**

The complete implementation of all components will provide access to large financial benefits due to:

- Improved usage of available infrastructure (increased capacity/quality) and subsequent higher market share of railways in the modal split
- Increased efficiency of IMs and applicants when planning and allocating capacity with minimization of redundant work steps

TTR Pilots

Antwerp – Rotterdam (RFC North Sea – Mediterranean)

Mannheim – Miranda de Ebro (Atlantic RFC)

Munich – Verona (RFC ScanMed)

ÖBB-Infrastruktur

TTR Pilots – Testing innovative TTR components

TTR Pilots were launched to test some of the new crucial TTR components, namely:

CAPACITY MODEL

A consolidation of all known capacity elements into a single entity to display available capacity and partition the expected traffic according to its attributes. It also safeguards capacity (high-quality slots) for Rolling Planning requests.



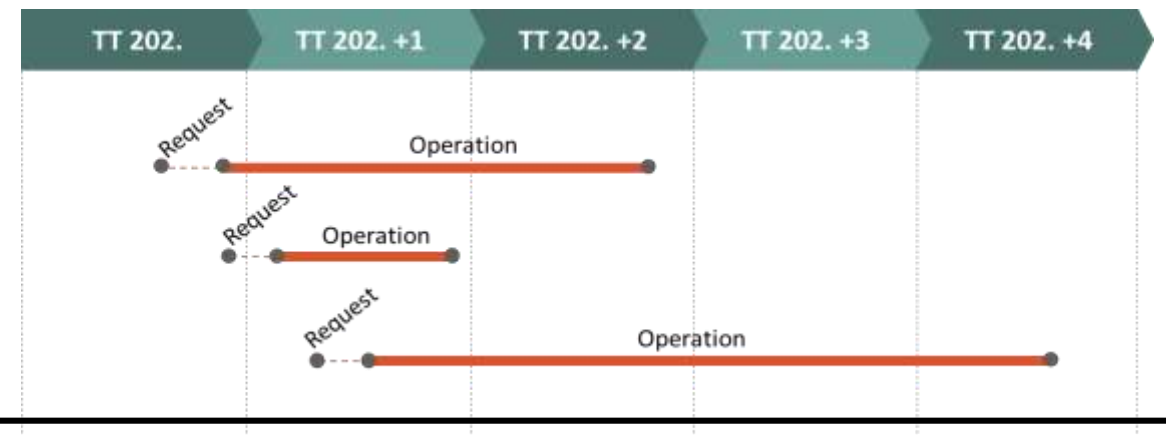
Capacity available for annual requests

Capacity required for TCR

Capacity safeguarded for dynamic traffic

ROLLING PLANNING

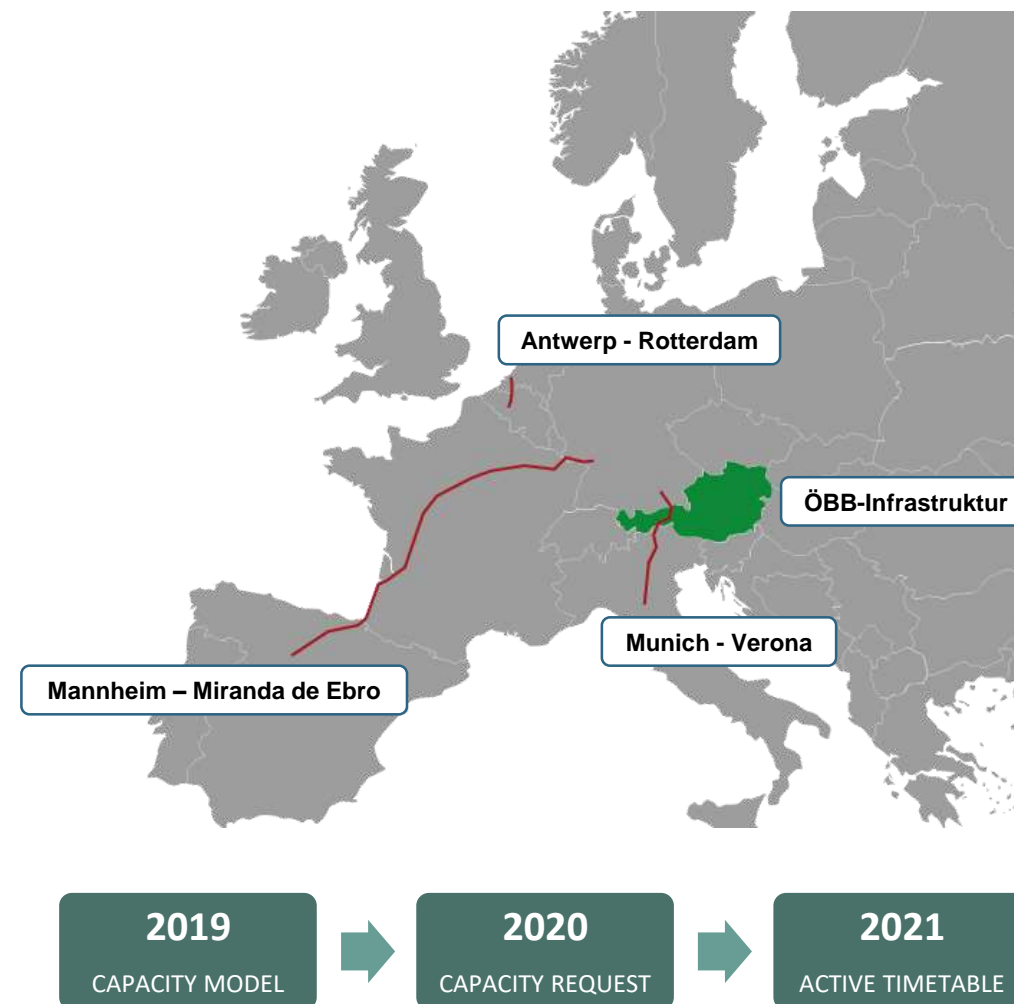
To serve the volatile market and ensure stability, a new product is introduced: Rolling Planning requests can be placed at any time between 4 and 1 month before the first operation day and is valid for a maximum duration of 36 months.



We need pilots to learn from experience!

Timetable period 2020

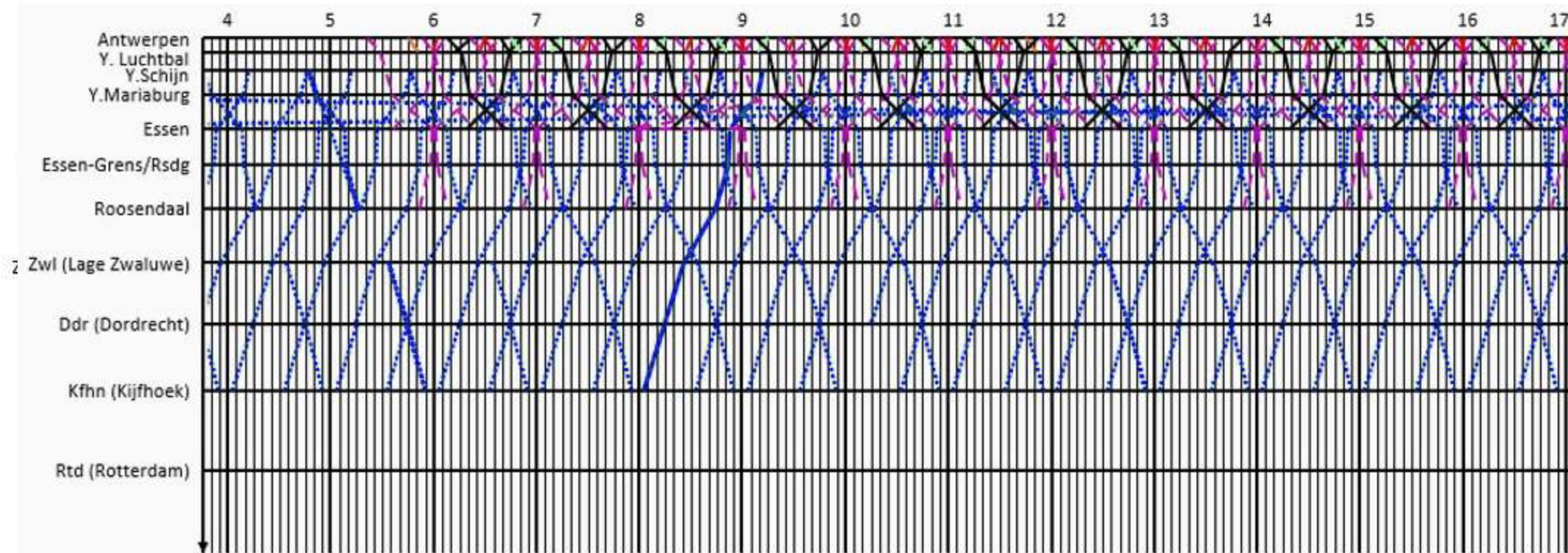
Timetable period 2021



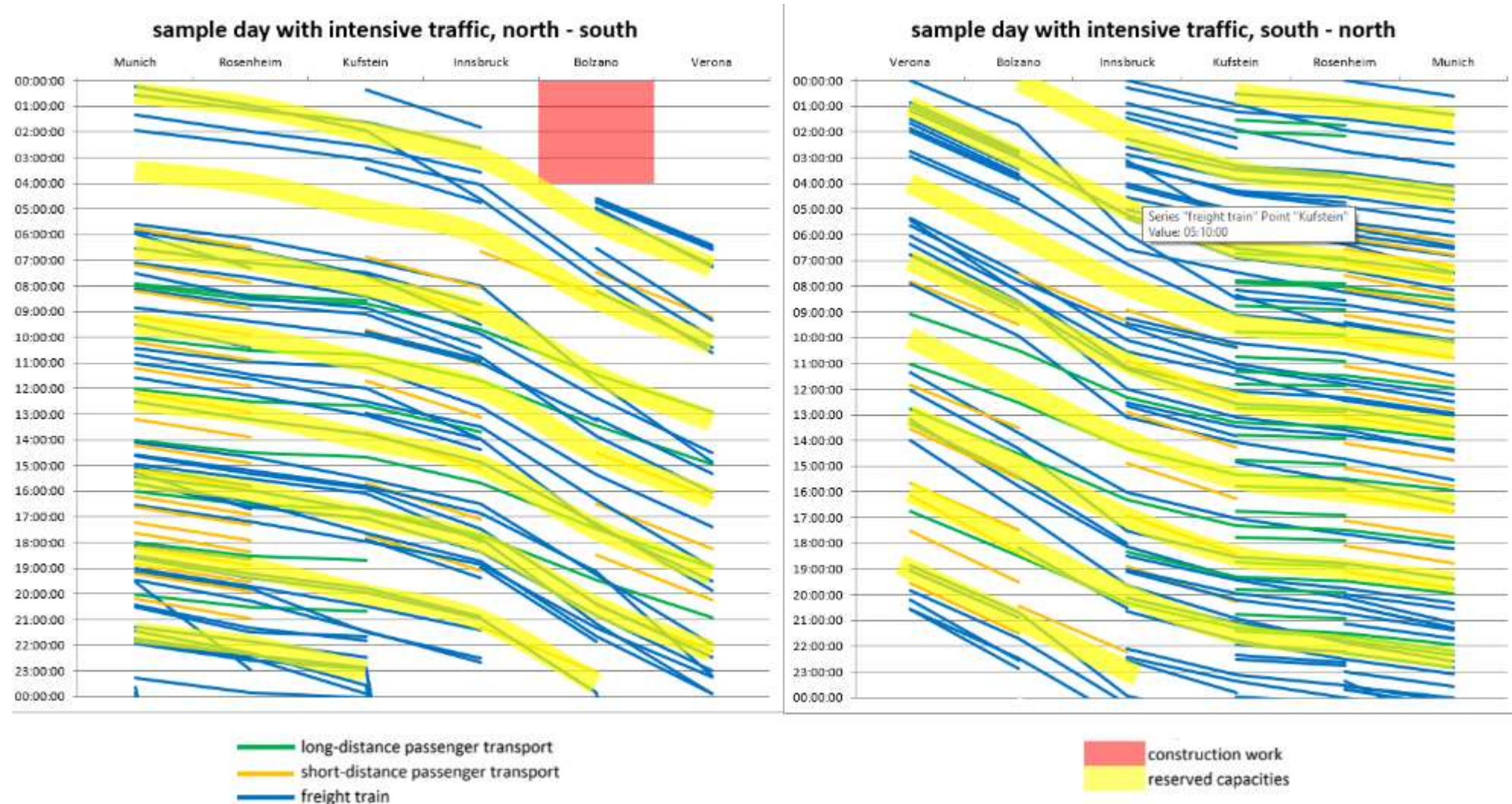
Example of Capacity Model (Rotterdam – Antwerp)

It contains:

- View on expected traffic volumes
- Partitioning in Annual Requests and Rolling Planning Request capacity
- View on capacity for maintenance in 2020
- View on TCRs in 2020



Example of Capacity Model (Munich-Verona)

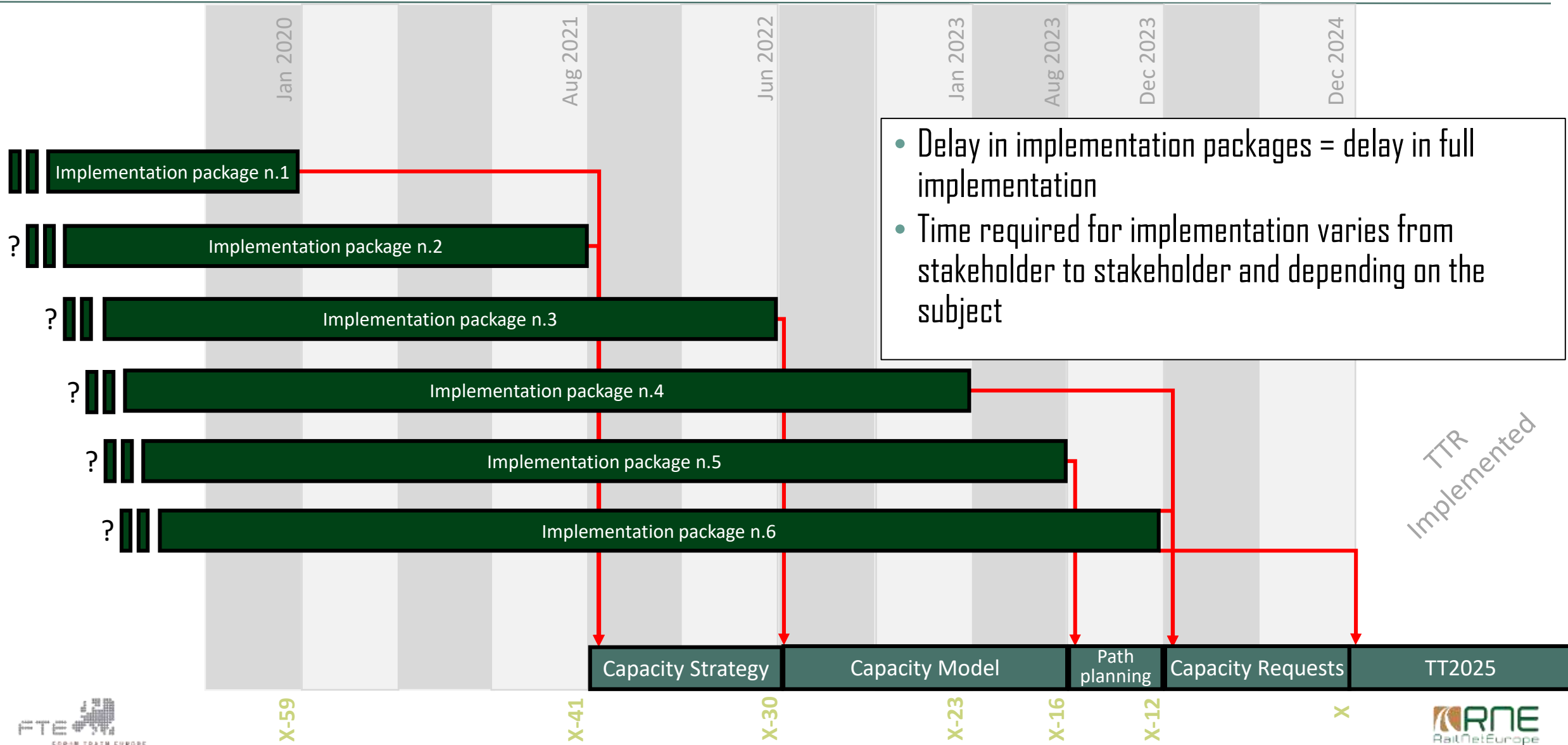


TTR Pilots: Achievements

- Joint text in Network Statements
- Increased awareness about TTR
- New annex to FCA
- Two pilot lines started phase 2
 - Antwerp – Rotterdam
 - Munich – Verona
- Documents published by the two pilot lines in CMS:
 - Pilot Information Documents (PIDs) for two pilot lines available
 - Capacity for two pilot lines published
 - Pilot publications online: <https://cms.rne.eu/ttr-communication-platform>

TTR Implementation

Approach: Implementation in packages



Implementation in Europe

- European organizations will be asked to adapt and provide
 - IT
 - Legal Framework
 - Commercial Conditions
- Implementation steered by RNE

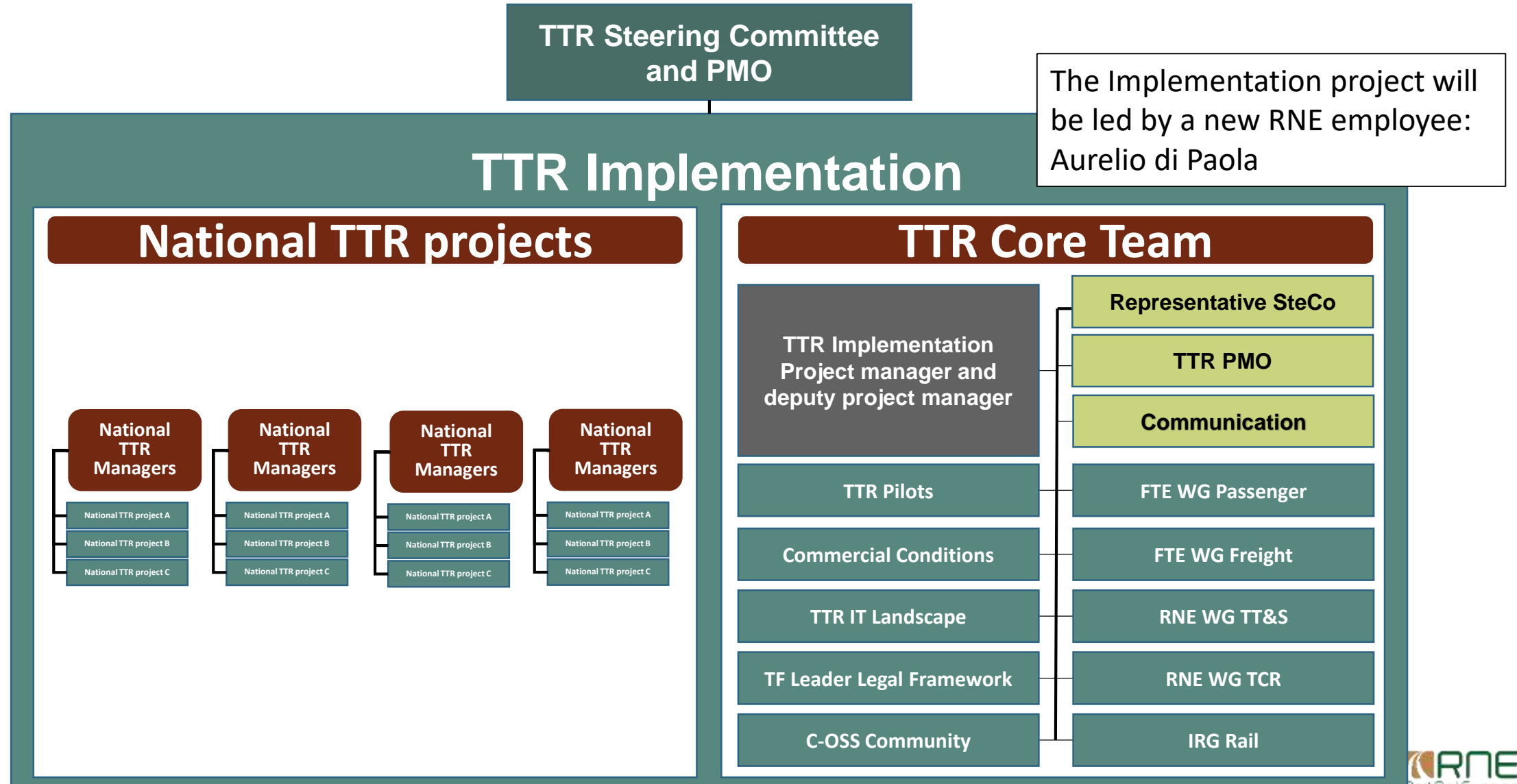


National implementation

- National organizations will need to adapt and provide
 - IT
 - Legal Framework (if required)
 - Commercial Conditions
- National implementation projects conducted by IMs
 - Inclusion of national stakeholders (e.g. RUs, RBs)
 - Coordination among projects via RNE



Structure TTR Implementation



Thank you!

If you have further questions, you may contact...

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