RNE CIP
Customer Information Platform

Customer Information Platform (CIP) of the Rail Freight Corridors (RFCs)

28 April 2022

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Customer Information Platform (CIP) of the Rail Freight Corridors (RFCs): *Information One-Stop Shop of the entire RFC Network*

RFCs using CIP formerly:

CORRIDOR RHINE-ALPINE
CORRIDOR NORTH SEA – MEDITERRANEAN
ScanMed RFC STOCKHOLM/OSLO-COPENHAGEN-HAMBURG-INNSBRUCK-PALERMO
ATLANTIC CORRIDOR
RFC5 Baltic-Adriatic Corridor
MEDITERRANEAN RAIL FREIGHT CORRIDOR Spain-France-Italy-Slovenia-Croatia-Hungary
RFC7 Orient/East-Med
Rail Freight Corridor North Sea – Baltic
Amber Rail Freight Corridor

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- **Interactive map with infrastructure parameters and future projects**
- **Full multi-corridor view**
- **Extended route-planning function**
- **Information on re-routing options**
- **Joint document structure**

Main recently completed CIP developments:

» Roll-out to RFCs 9 R-D and 10 A-WB;
» Improved usability of customer interface;
» Improved and full display of re-routing options;
» Introduction of additional line properties.

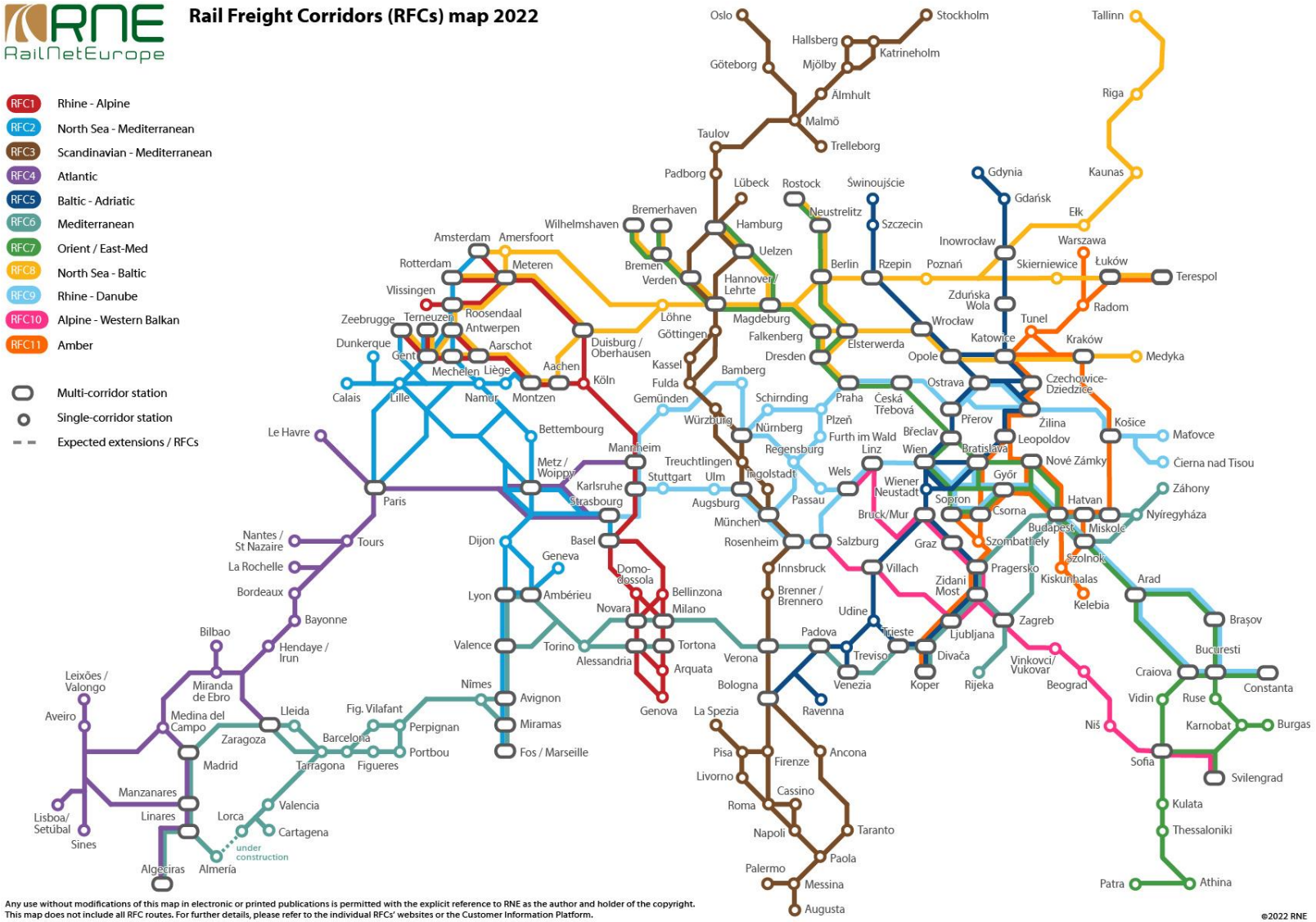
RFCs joining CIP recently:

9 RAIL FREIGHT CORRIDOR Rhine-Danube
Alpine-Western Balkan rail freight corridor

Focusing on customer benefit:

» All information related to RFC services / the RFC Network can be found in one place;
» Extended route-planning function with search criteria and download of route details;
» Re-routing options for the cases of contingency visualized in the interactive map.

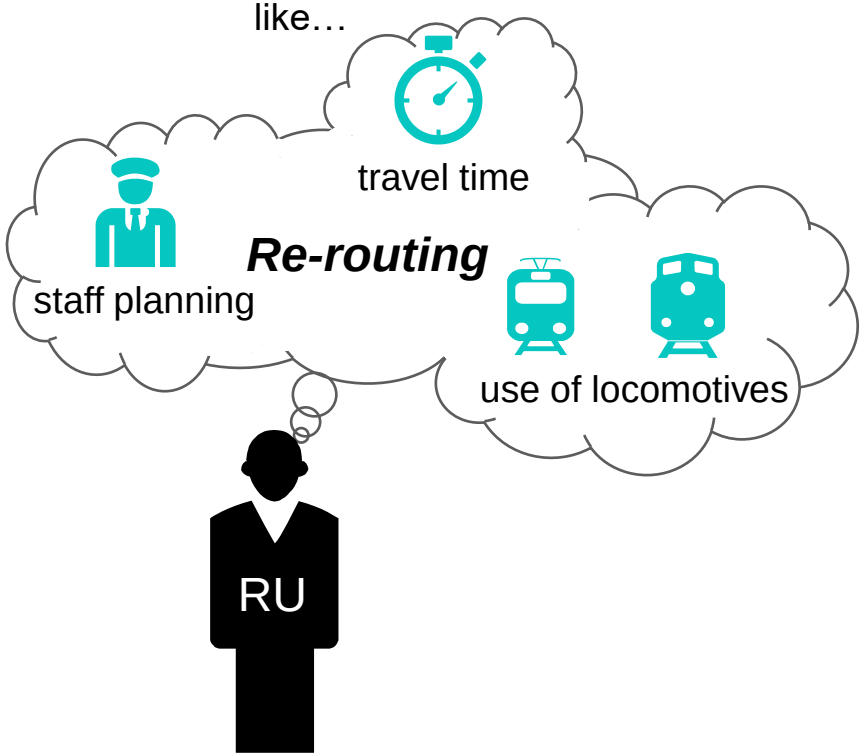
Geographical extent of RFC Network mapped in CIP

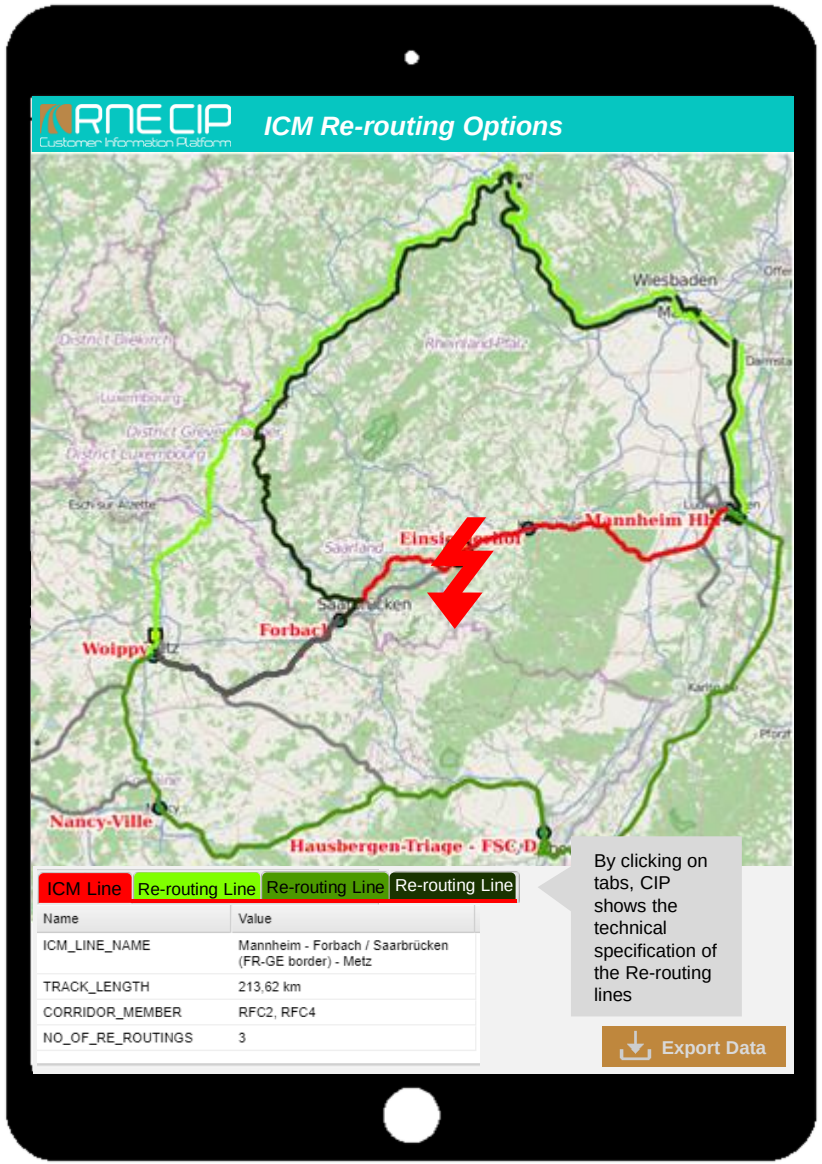


1st Use Case: CIP provides information for RUs to take the right measures in case of limited capacity due to an incident

Short-term vision

To deal with **limited capacity** or to manage disruptions of a larger nature like **closed routes**, the RUs need different kinds of information for their planning, like…





With the **International Contingency Management (ICM) Function** important information for the RUs can be shown in CIP, like**:**

- **Different Re-routing options**
- **Technical specification** of the re-routing lines (e.g. Train Length, Speed, Gradient)
- **Planning aid**: New travel time can be estimated

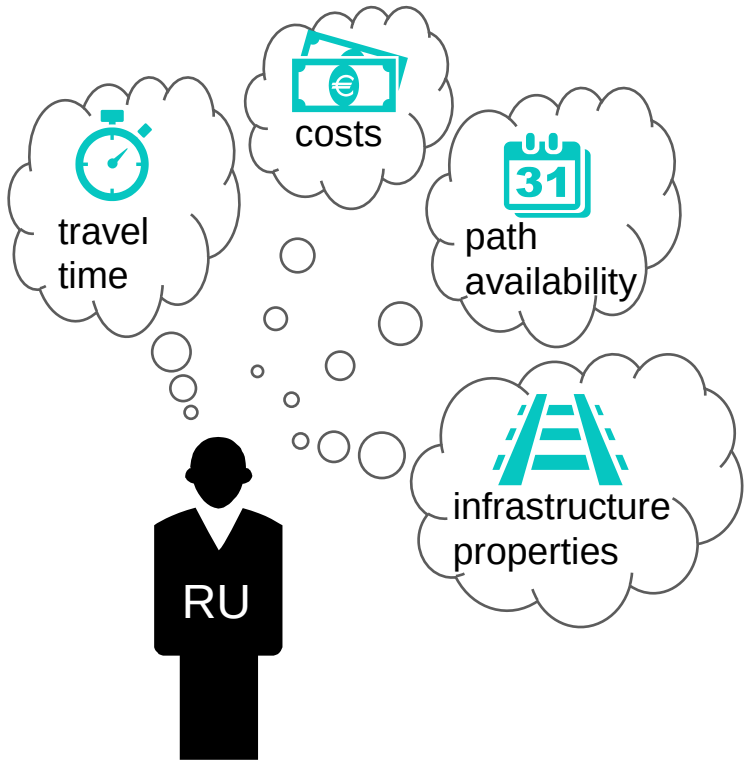
Customer benefit of the visualization of the ICM-Lines:

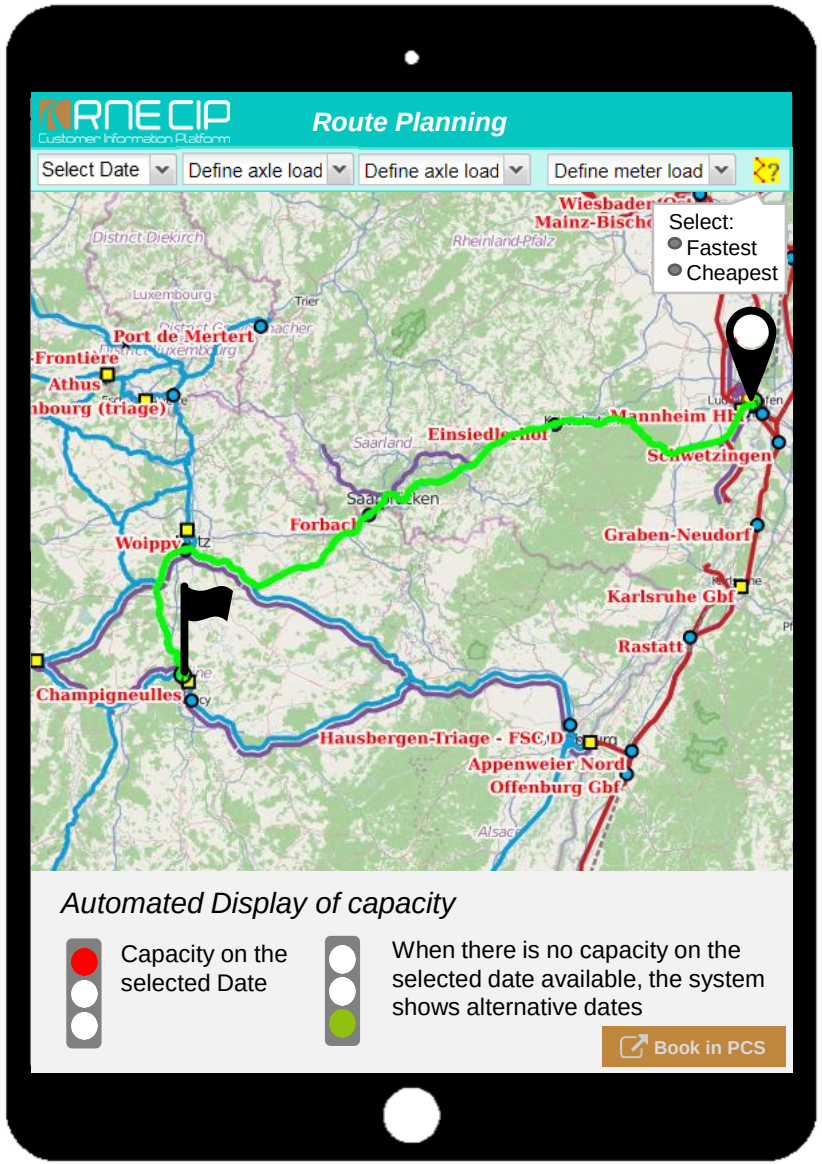
- **Requirements for the staff** (e.g. route knowledge)
- **Discussion basis** for the coordination of re-routing scenarios for different Stakeholders (e.g. RUs or IMs, allocation bodies)
- **Increase customer confidence** by showing that alternative routes exist and enhance costumer communication

2nd Use Case: CIP provides all information that are required by an RU during the route planning process

Mid-term vision

During the **route planning process** many different types of information are relevant for the RU, like…





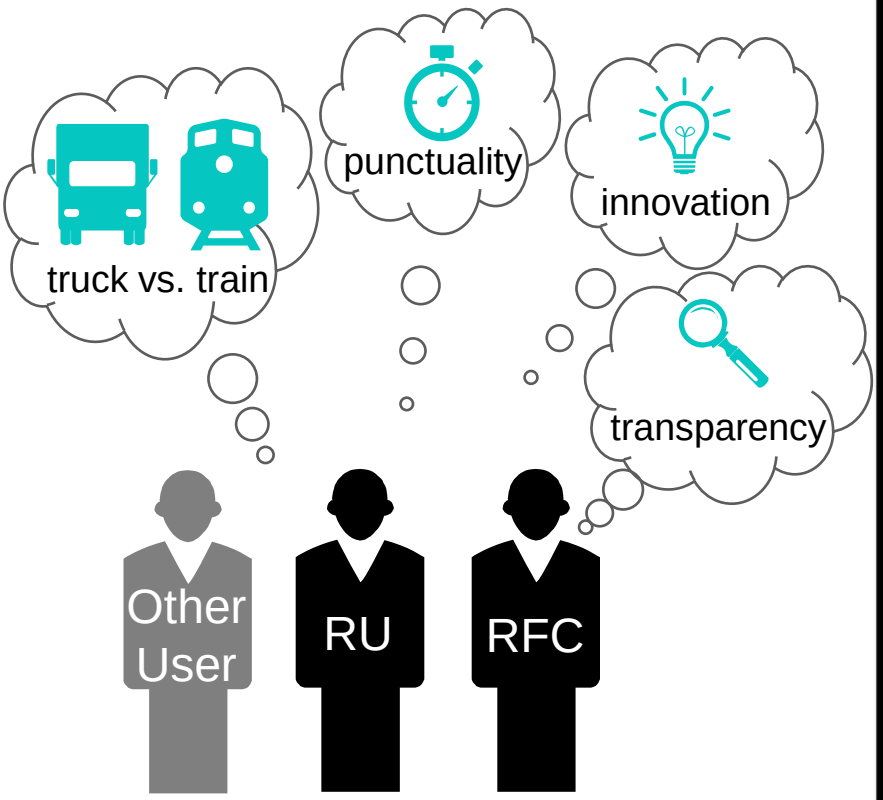
As a multi-corridor route planning tool CIP **calculates the best path form origin to destination** and **taking into account the given constrains.** Those are:

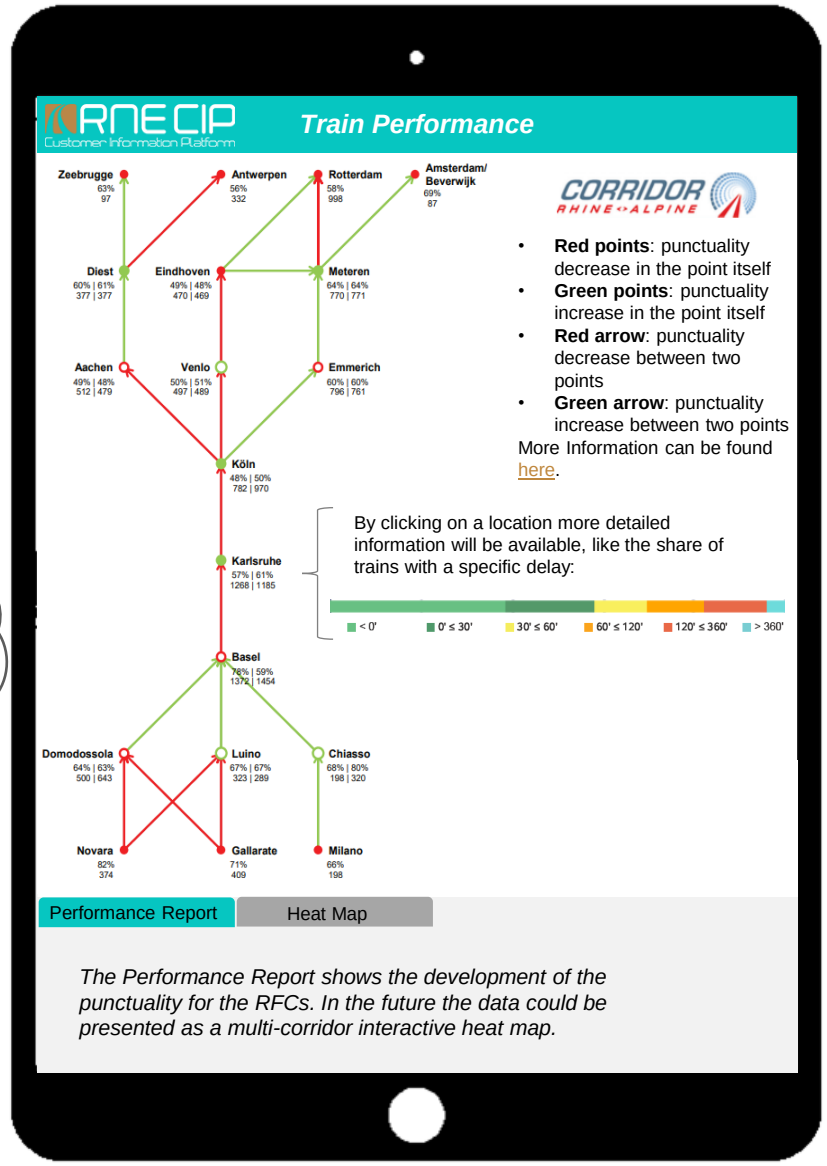
- **Infrastructure properties** (e.g. train length, meter load, gauge)
- Information about **costs** (interface to the Charging Information System CIS)
- Information about the **available capacity**, short- and long-term (interface to the Path Coordination System PCS)
- Information about **works and capacity restrictions** (Interface to the Temporary Capacity Restrictions Tool TCR-Tool)

3rd Use Case: Train performance data in CIP can be used as a basis for the quality management by RUs and others

Long-term vision

RUs and RFC advertise this international rail freight product and improve it´s quality.





CIP shows the **punctuality data** of a selected route, segment or point (NOT of a specific train) by visualizing information of TIS. The availability performance data in CIP could be seen as a tool creating **transparency to rail freight users**.

- It makes rail freight transport more transparent
- It shows the advanced state of digitalization

Furthermore this could be the **basis for the RFCs quality management** with market stakeholders**.**

What shall be the future of CIP:
From Corridor Tool to Network Tool?

CIP as a Corridor tool

- Lean decision-making process and business model is in place and working;
- Common vision of the next steps in developing the tool agreed by participating RFCs in form of a ‘CIP Strategy’;
- Operation and development of the tool is managed with relatively low resources;
- Availability of CIP-specific functionalities (e.g. route-planning) is limited to routing of RFCs;
- Future of CIP completely bound to the future of RFCs, unclear financing model after 2024.

CIP as a Network tool

- Extension of existing and new CIP-specific functionalities to the entire railway network would provide increased customer benefit;
- CIP as a potential front-end of customer-relevant information from all RNE IT tools shared via Big Data;
- Stable business model even after 2024 with potential contribution from IMs / RUs;
- Further resources required to manage the data quality of CIP’s contents;
- Additional level of complexity in decision-making and fund-raising.

What shall be the future of CIP:
From Corridor Tool towards a Network Tool

» Conclusion from the feasibility study conducted in 2020:

- Pursue a stepwise extension of the geographical scope of CIP,
- Complete the coverage of RFC Network and re-routing options of all RFCs,
- Cover the remaining TEN-T core and comprehensive network,
- Map selected lines earmarked as essential by the freight RUs and/or
- Complete the networks of some individual IMs as a pilot.

» Achievables as of April 2022:

- Roll-out to RFCs Alpine-Western Balkan and Rhine-Danube completed in 2021,
- ***Entire network*** of ***4 IMs*** (GySEV, LFP, SŽ-Infra, MÁV) mostly mapped in CIP,
- ***Over 50%*** of the complete network of ***further 6 IMs*** already mapped in CIP,
- ***78.520 km*** of lines / ***40% of the total network*** of participating IMs mapped.

Additional line properties in CIP: available as of September 2021

» Former line properties:

- » Line Category (Load Model)
- » Traction Power
- » Intermodal Freight Code
- » Gauging
- » Gradient Dir. 1
- » Gradient Dir. 2

Formerly available in CIP for most of the RFC lines

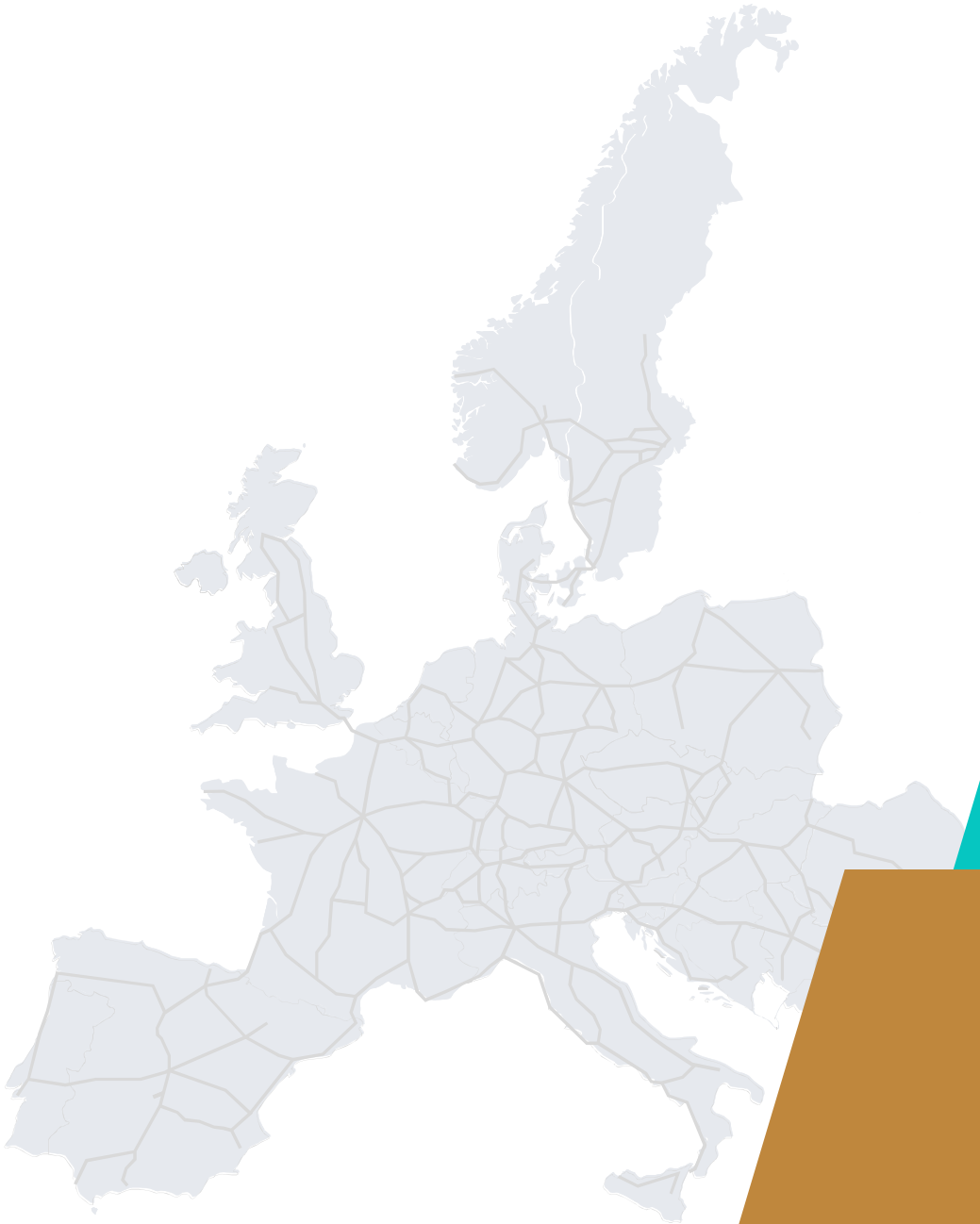
Displayed to CIP users as selectable map themes

» Additional line properties:

- » Track Gauge
- » Number of Tracks
- » Maximum Train Length
- » Maximum Speed
- » Usage (freight, passenger or both)
- » Miscellaneous (for additional info)

Formerly available in CIP for the re-routing lines

Formerly shown to CIP users only per re-routing option



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Accessing & lay-out of CIP

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1. How to access the CIP?
Easy navigation via Info-page: https://cip.rne.eu/

Access to CIP is FREE OF CHARGE and NO REGISTRATION is required:

If you need support with accessing the system or wish to become an internal user of CIP, please contact our Service Desk.

For e-mail inquires write to:
support.cip@rne.eu

For inquires by phone call:
+43 1 907 62 72 25

Tickets sent by e-mail in English are registered and handled on all weekdays, regardless of holidays or vacation periods, with a guaranteed response time.

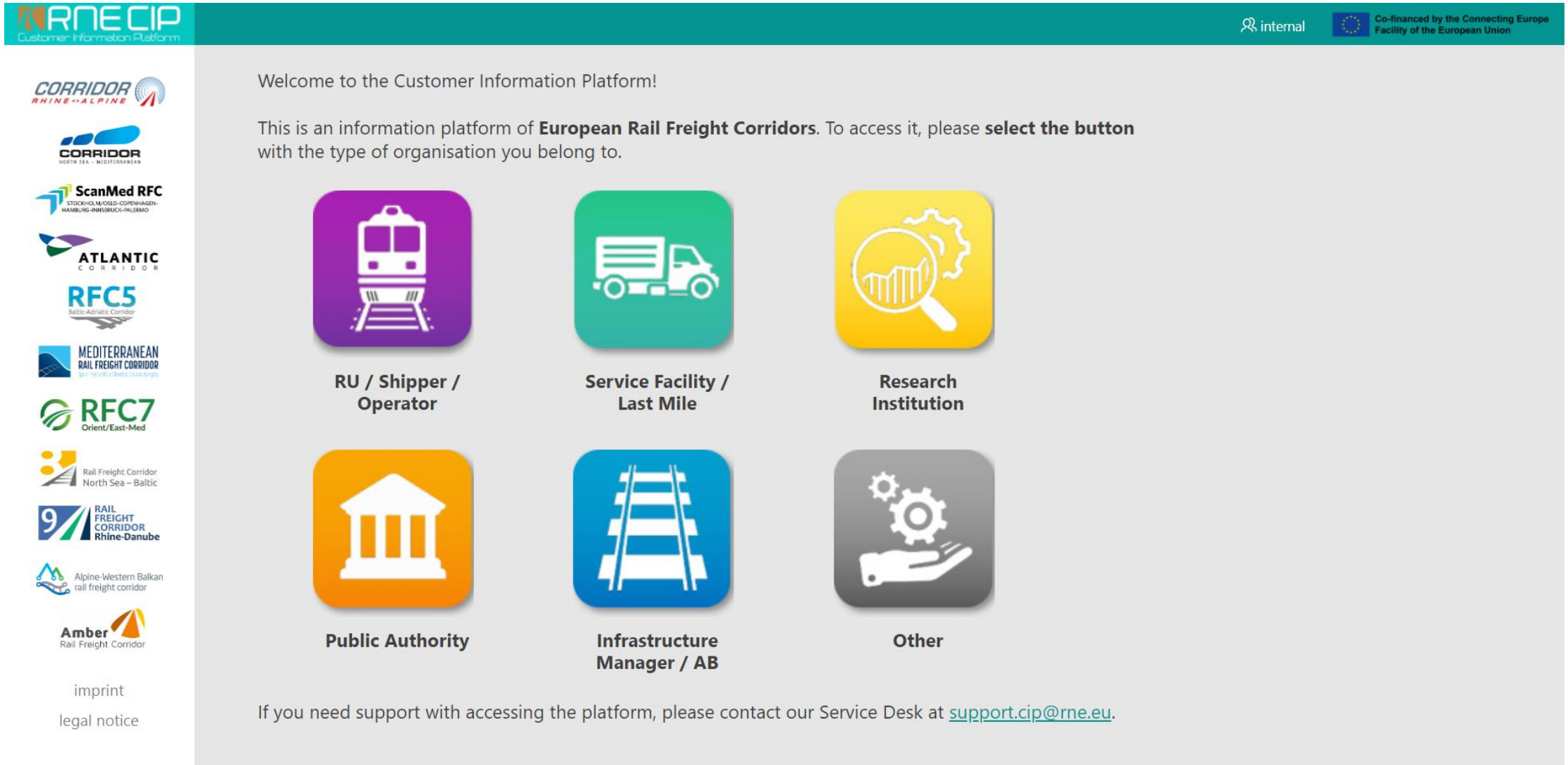
Service Desk opening hours on working days:

Monday - Thursday:	09:00 - 16:00
Fridays:	09:00 - 15:00

A direct link to the CIP can also be found on the webpage of each participating RFC:

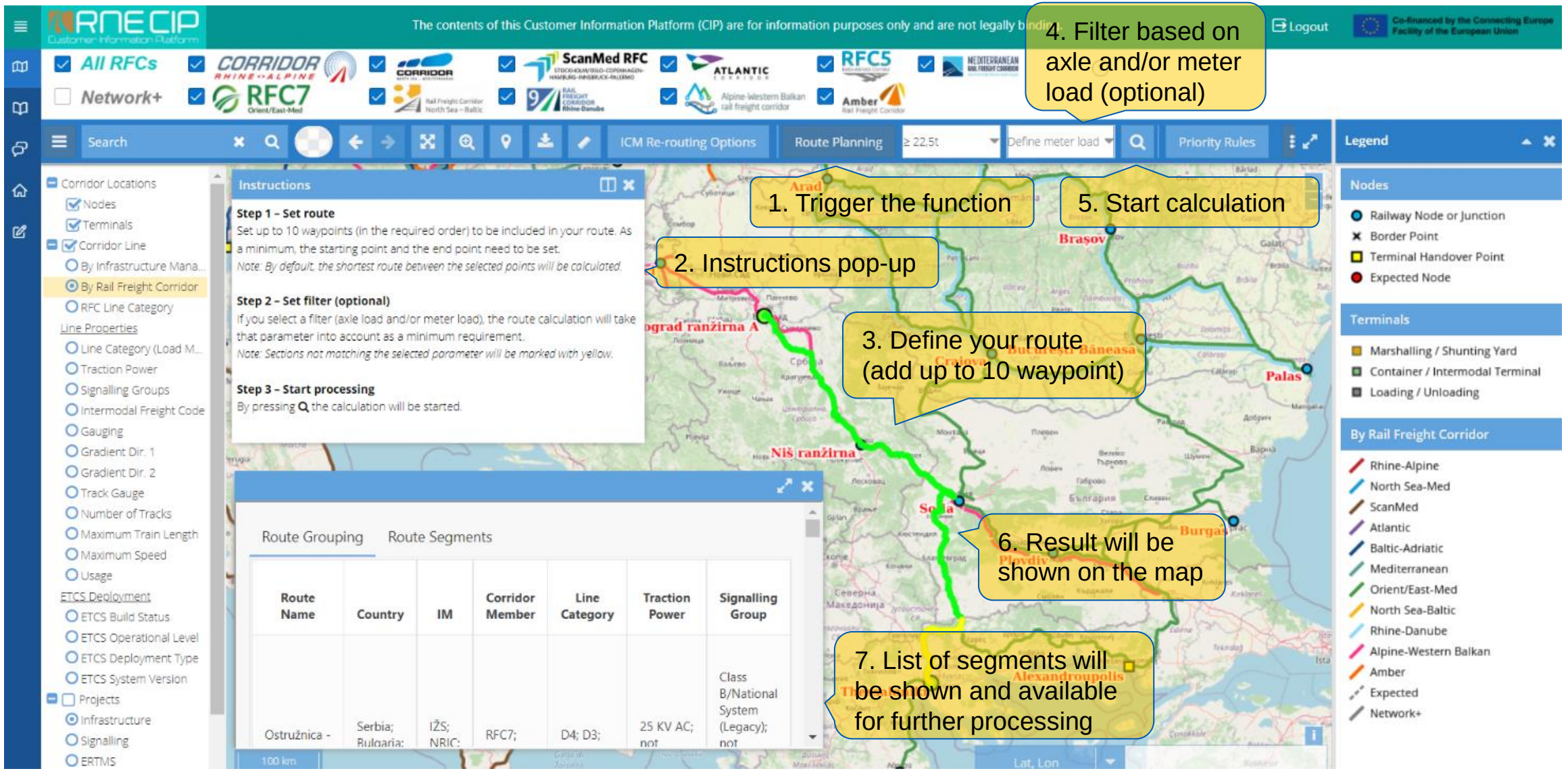
www.corridor-rhine-alpine.eu
www.atlantic-corridor.eu
www.rfc-orient-eastmed.eu
www.rfc-awb.eu
www.rfc-northsea-med.eu
www.rfc-baltic-adriatic.eu
www.rfc-northsea-baltic.eu
www.rfc-amber.eu
www.scanmedfreight.eu
www.railfreightcorridor6.eu
http://rfc-rhine-danube.eu

2. Login mask for public users
Available under: https://cip-online.rne.eu/

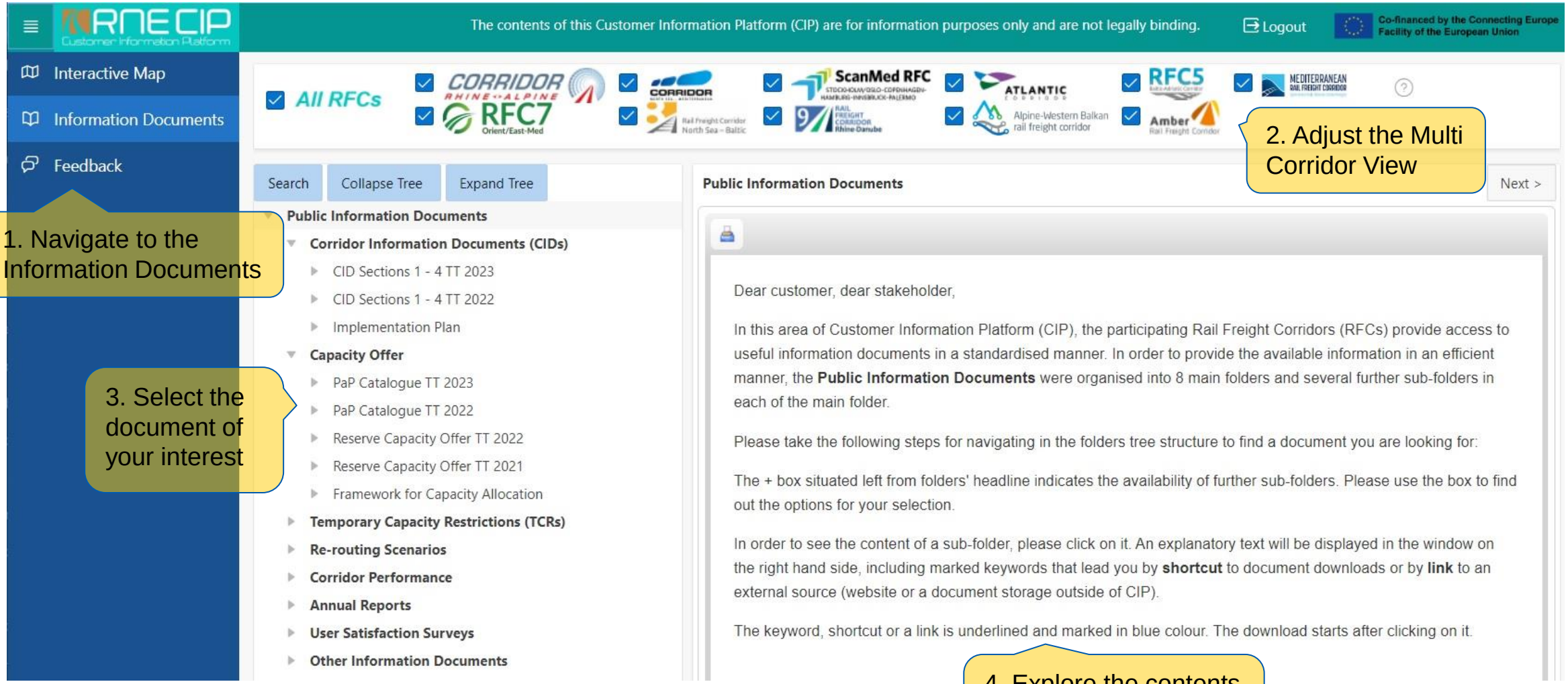


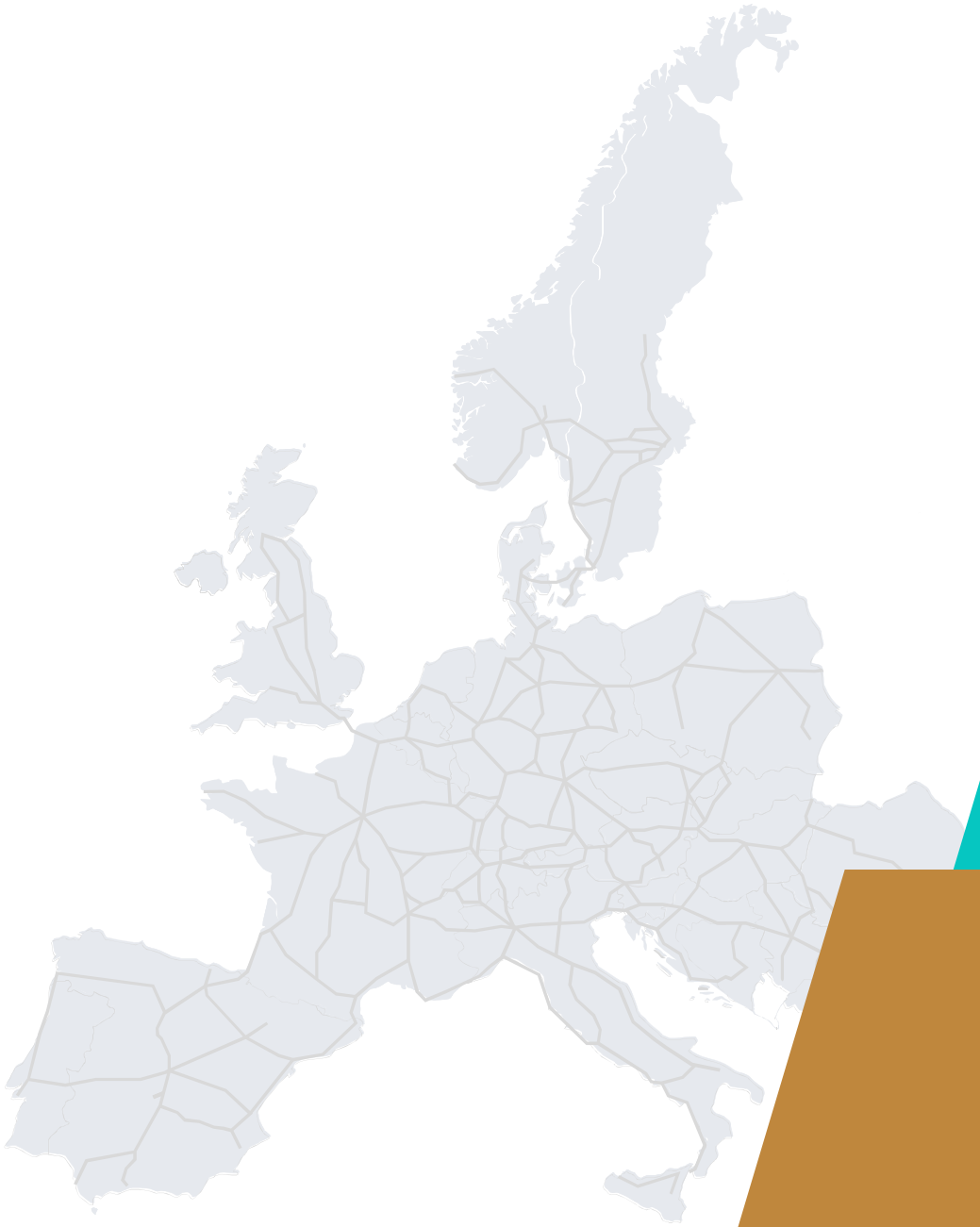
3. General layout of CIP - the Interactive Map

4. Extended route-planning in CIP



5. Joint document structure maintained by all RFCs





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Technical support for ICM processes in CIP

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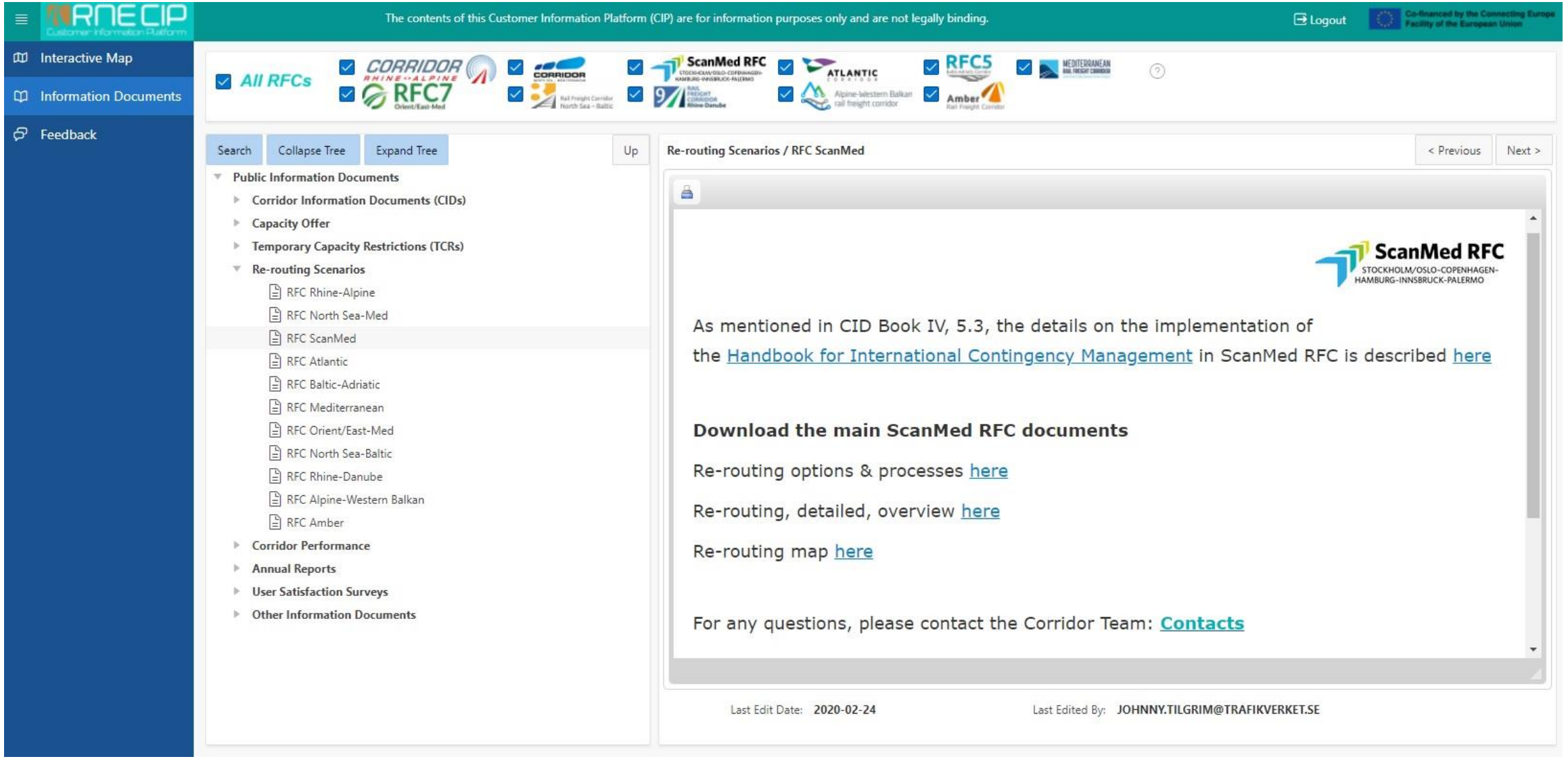
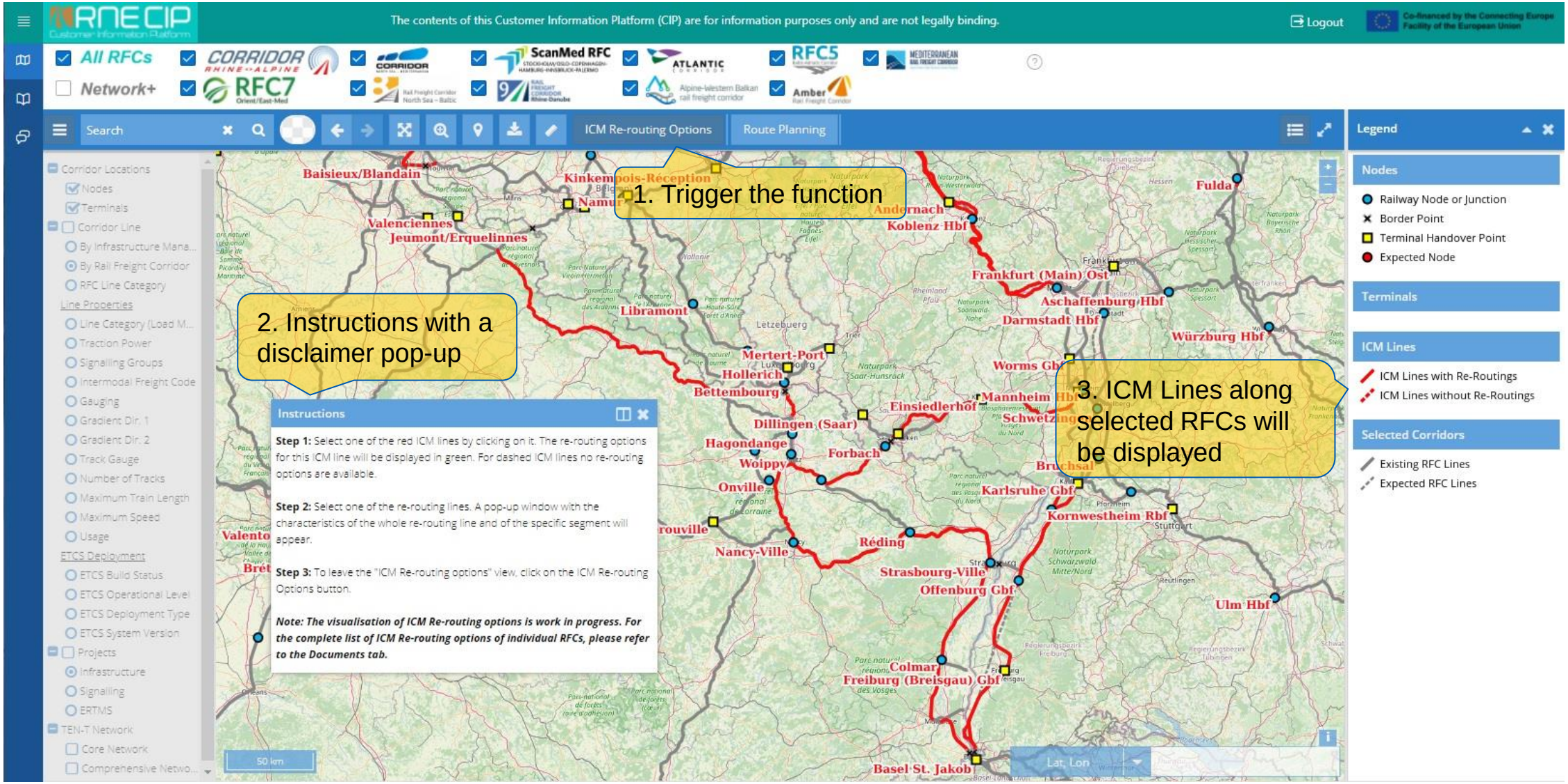
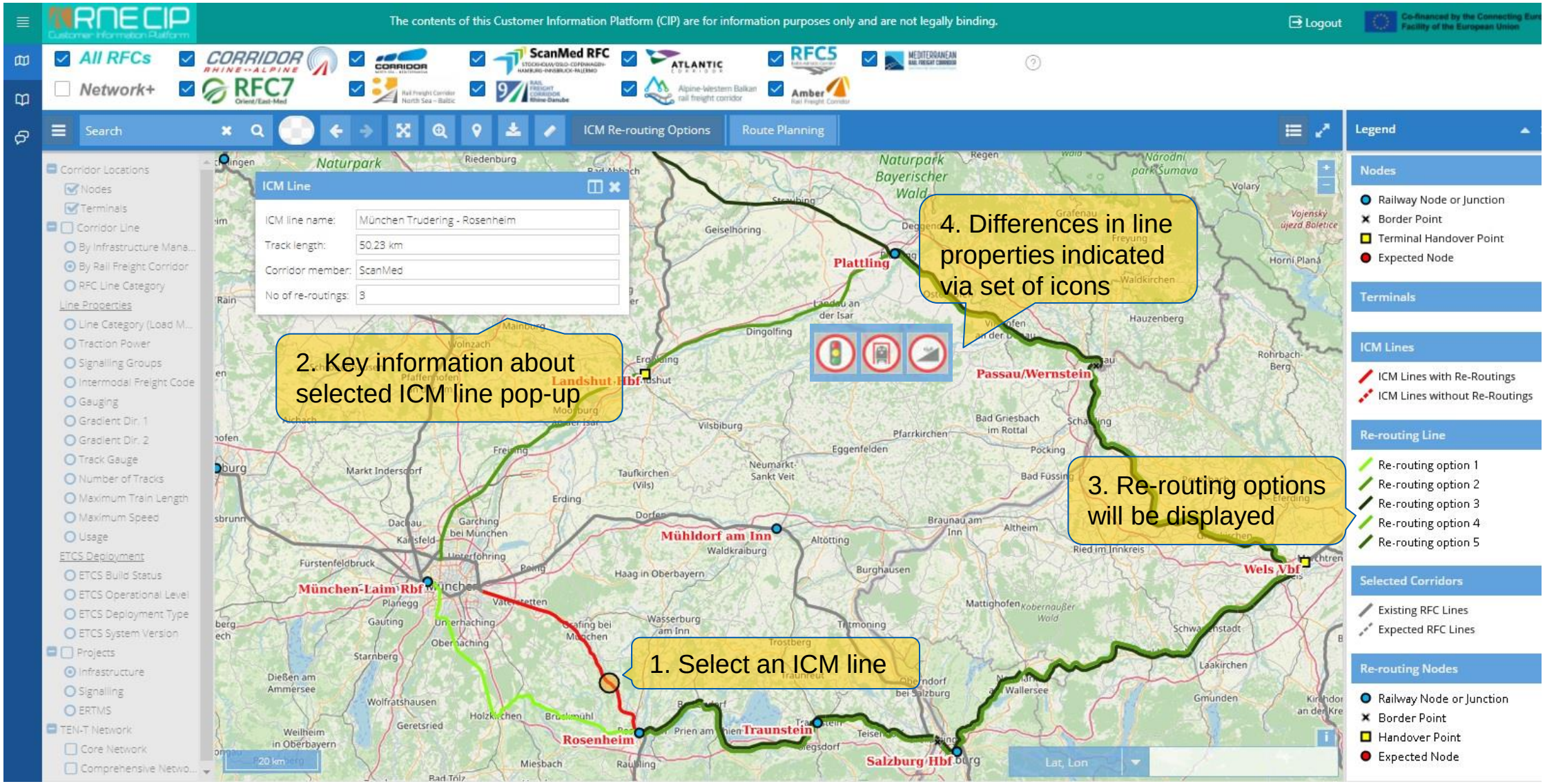
1. Re-routing scenarios published under joint documents structure:
Fast and user-friendly access available for all RFCs



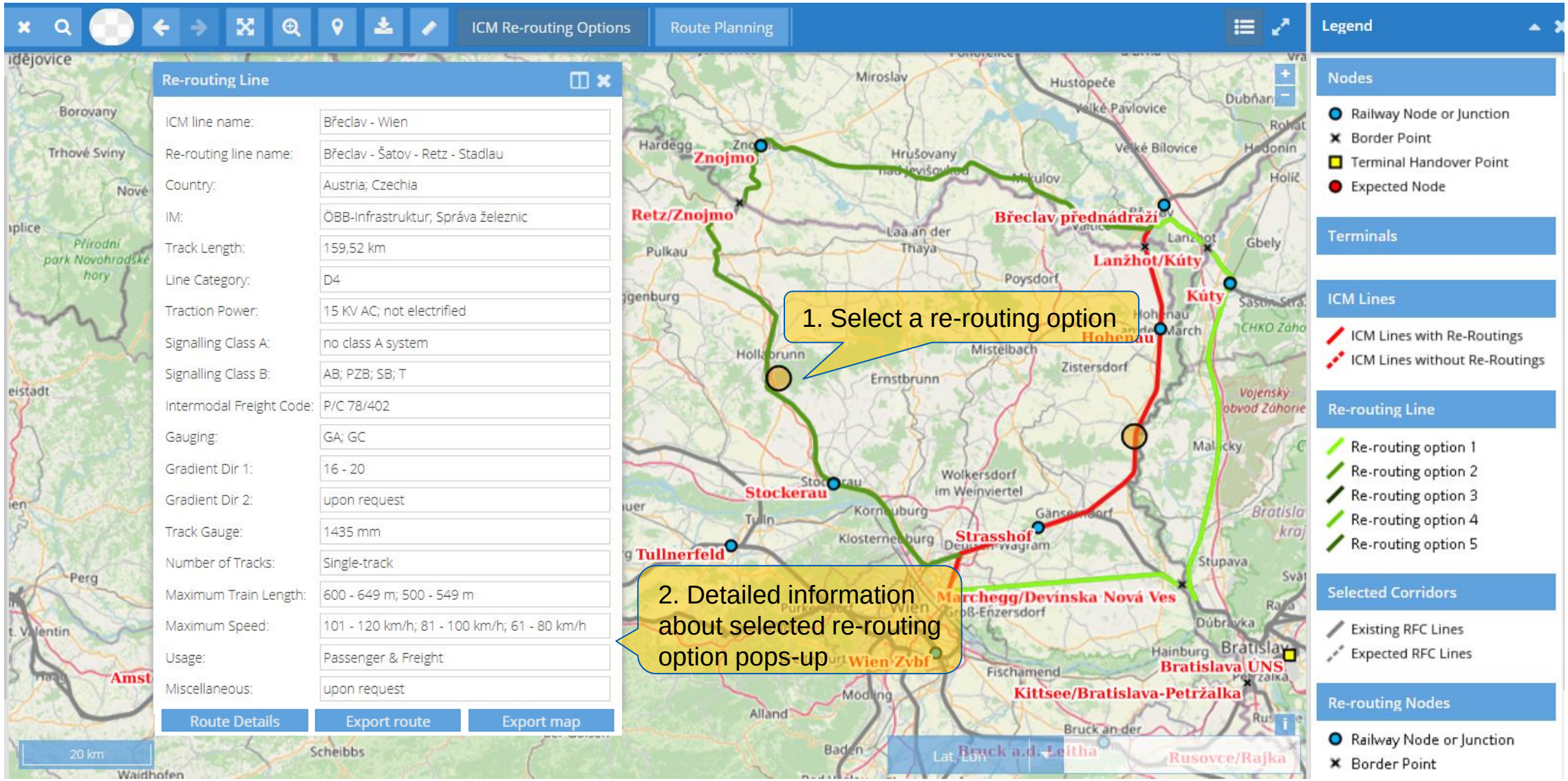
2. ICM Lines along the RFCs are *displayed in the interactive map*



3. Re-routing Options relevant for a selected ICM Line *are displayed in the interactive map*



4. Detailed information about selected Re-routing Option



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Coming up & CIP contact

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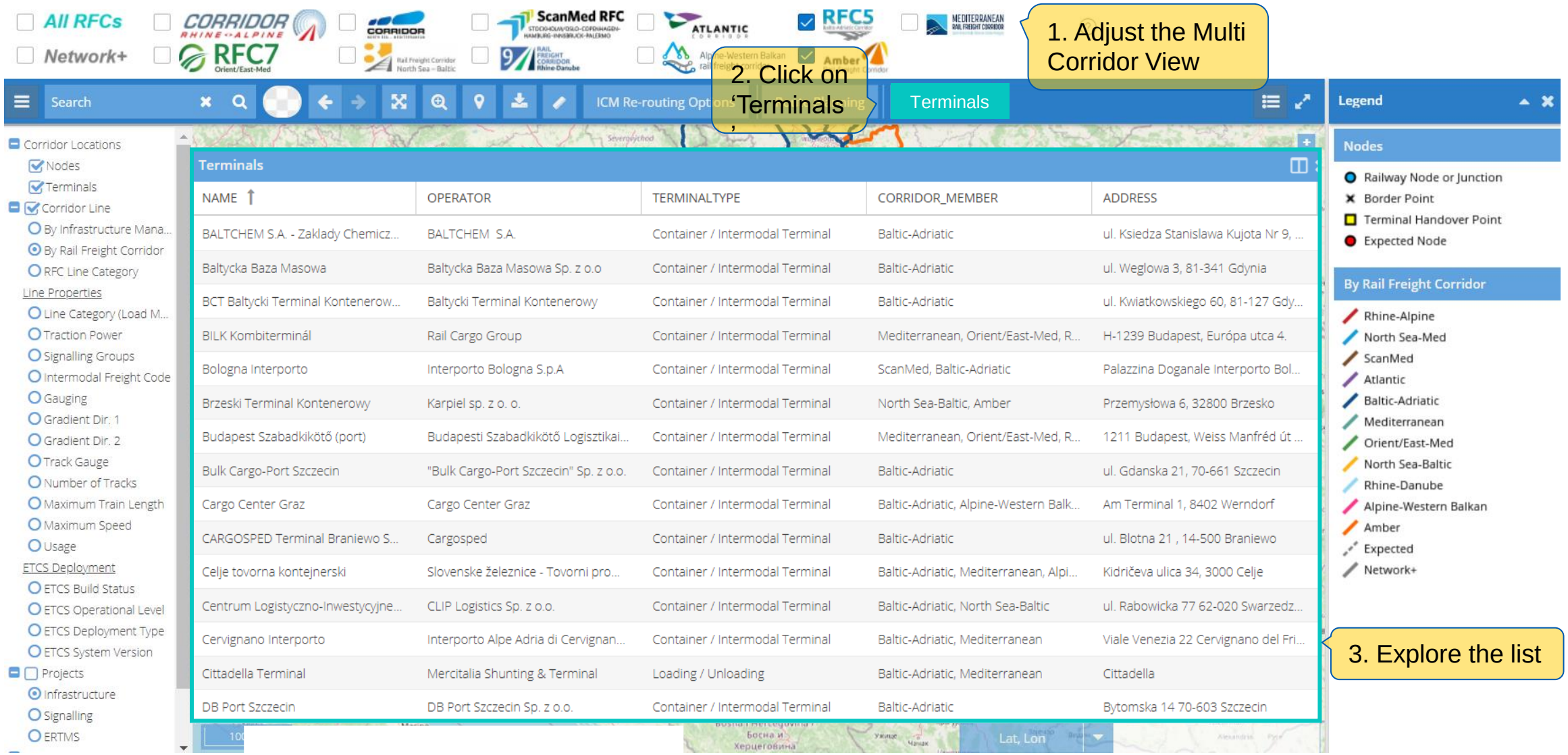
Coming up: List of terminals in a tabular view



CIP Contact: RailNetEurope

RailNetEurope

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www.rne.eu