

 **RNECIP**
Customer Information Platform

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

28 April 2022

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

RFCs using CIP formerly:



- 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:



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.

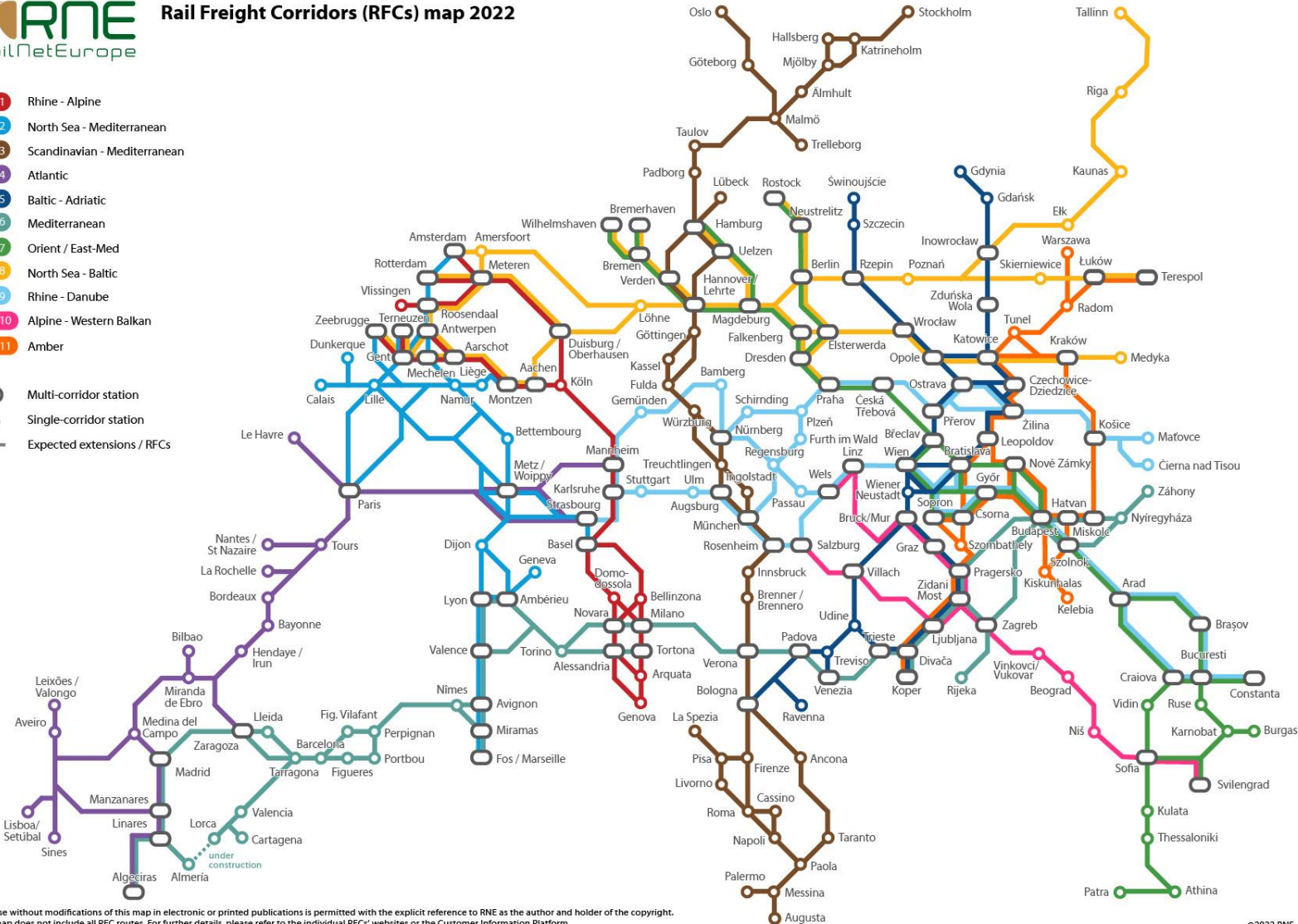
Geographical extent of RFC Network mapped in CIP



Rail Freight Corridors (RFCs) map 2022

- RFC1 Rhine - Alpine
- RFC2 North Sea - Mediterranean
- RFC3 Scandinavian - Mediterranean
- RFC4 Atlantic
- RFC5 Baltic - Adriatic
- RFC6 Mediterranean
- RFC7 Orient / East-Med
- RFC8 North Sea - Baltic
- RFC9 Rhine - Danube
- RFC10 Alpine - Western Balkan
- RFC11 Amber

- Multi-corridor station
- Single-corridor station
- - - Expected extensions / RFCs



Any use without modifications of this map in electronic or printed publications is permitted with the explicit reference to RNE as the author and holder of the copyright. This map does not include all RFC routes. For further details, please refer to the individual RFCs' websites or the Customer Information Platform.

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...



travel time



staff planning

Re-routing



use of locomotives



RU

| ICM Line | Re-routing Line | Re-routing Line | Re-routing Line |
|-------------------|--|-----------------|-----------------|
| Name | Value | | |
| ICM_LINE_NAME | Mannheim - Forbach / Saarbrücken (FR-GE border) - Metz | | |
| TRACK_LENGTH | 213,62 km | | |
| CORRIDOR_MEMBER | RFC2, RFC4 | | |
| NO_OF_RE_ROUTINGS | 3 | | |

By clicking on tabs, CIP shows the technical specification of the Re-routing lines

Export Data

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:

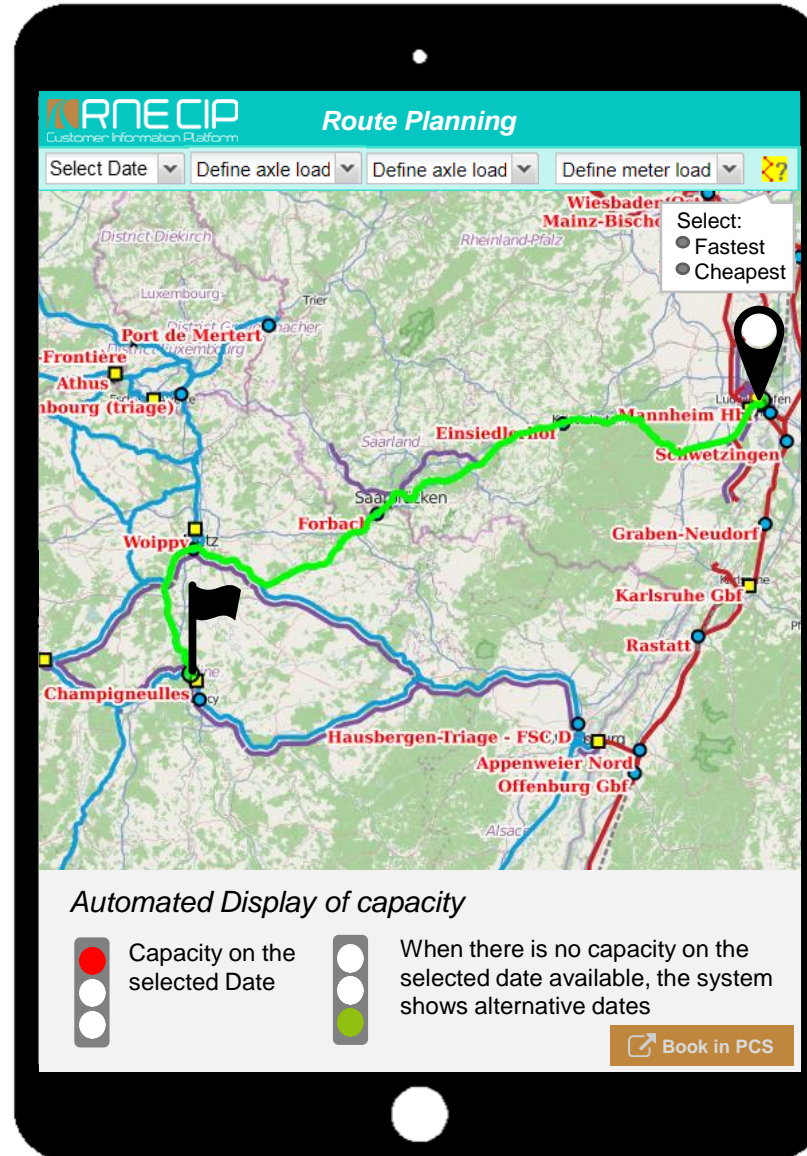
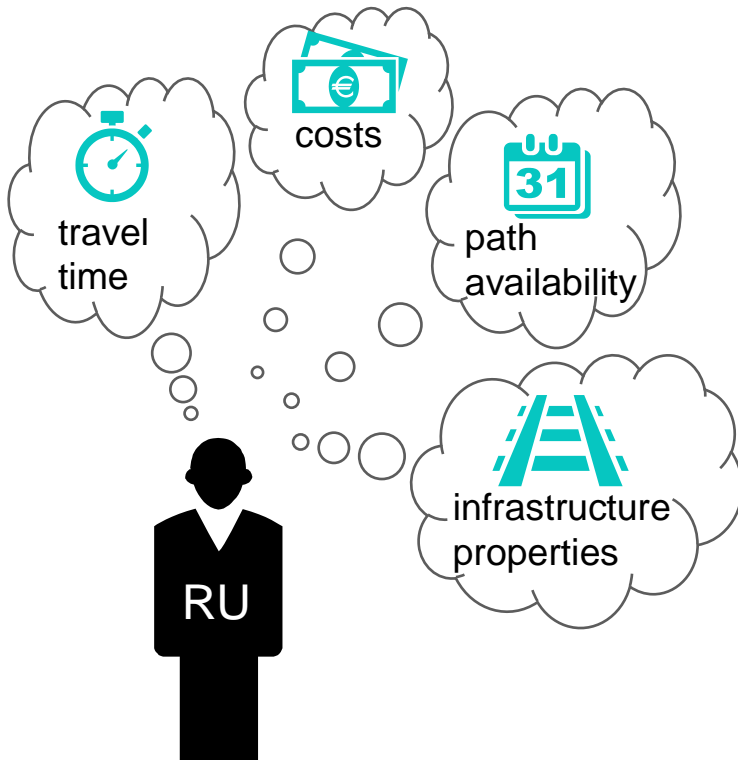
- **Requirements for the staff** (e.g. route knowledge)
- **Discussion basis** for the coordination of re-routing scenarios for different Stakeholders (e.g. RUs or IMs, allocation bodies)
- **Increase customer confidence** by showing that alternative routes exist and enhance customer communication

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:

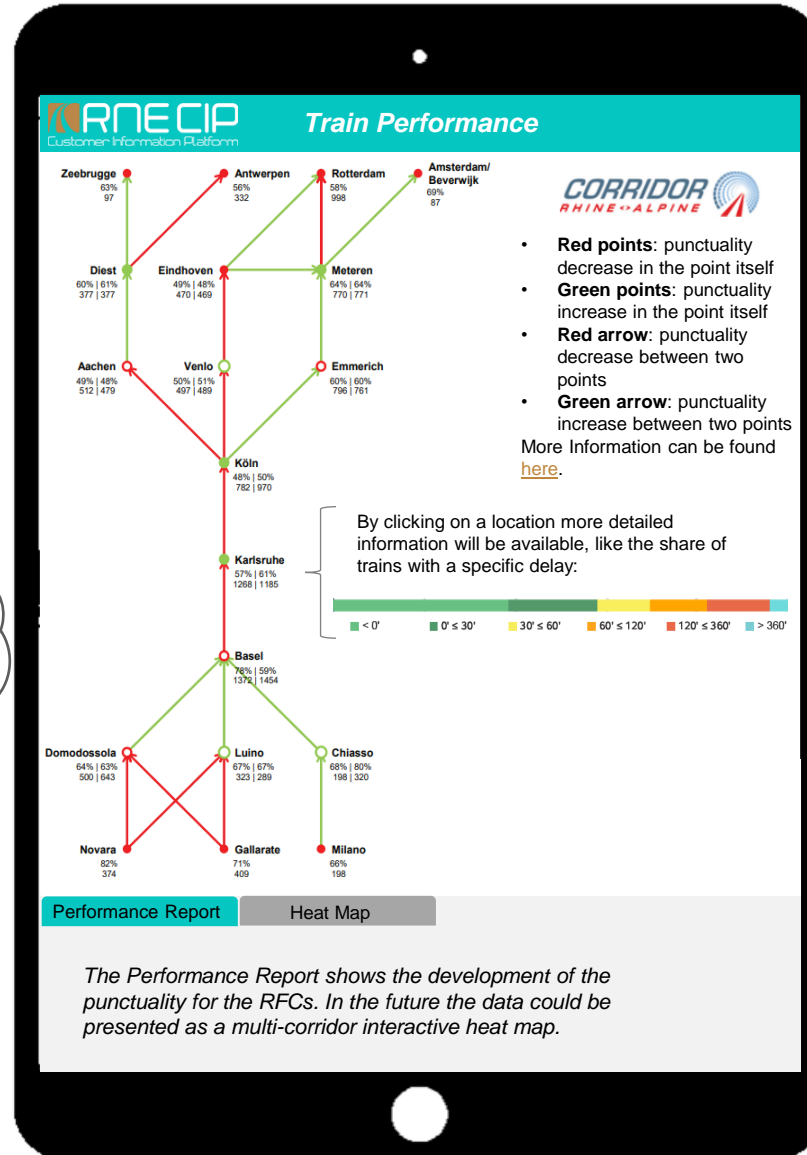
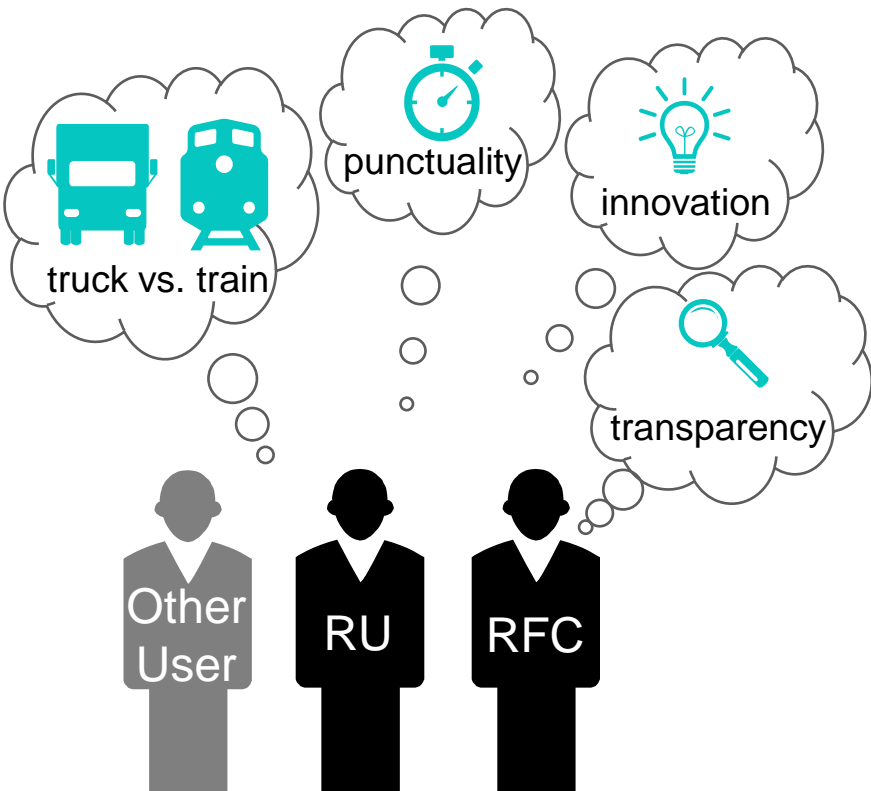
- **Infrastructure properties** (e.g. train length, meter load, gauge)
- Information about **costs** (interface to the Charging Information System CIS)
- Information about the **available capacity**, short- and long-term (interface to the Path Coordination System PCS)
- Information about **works and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

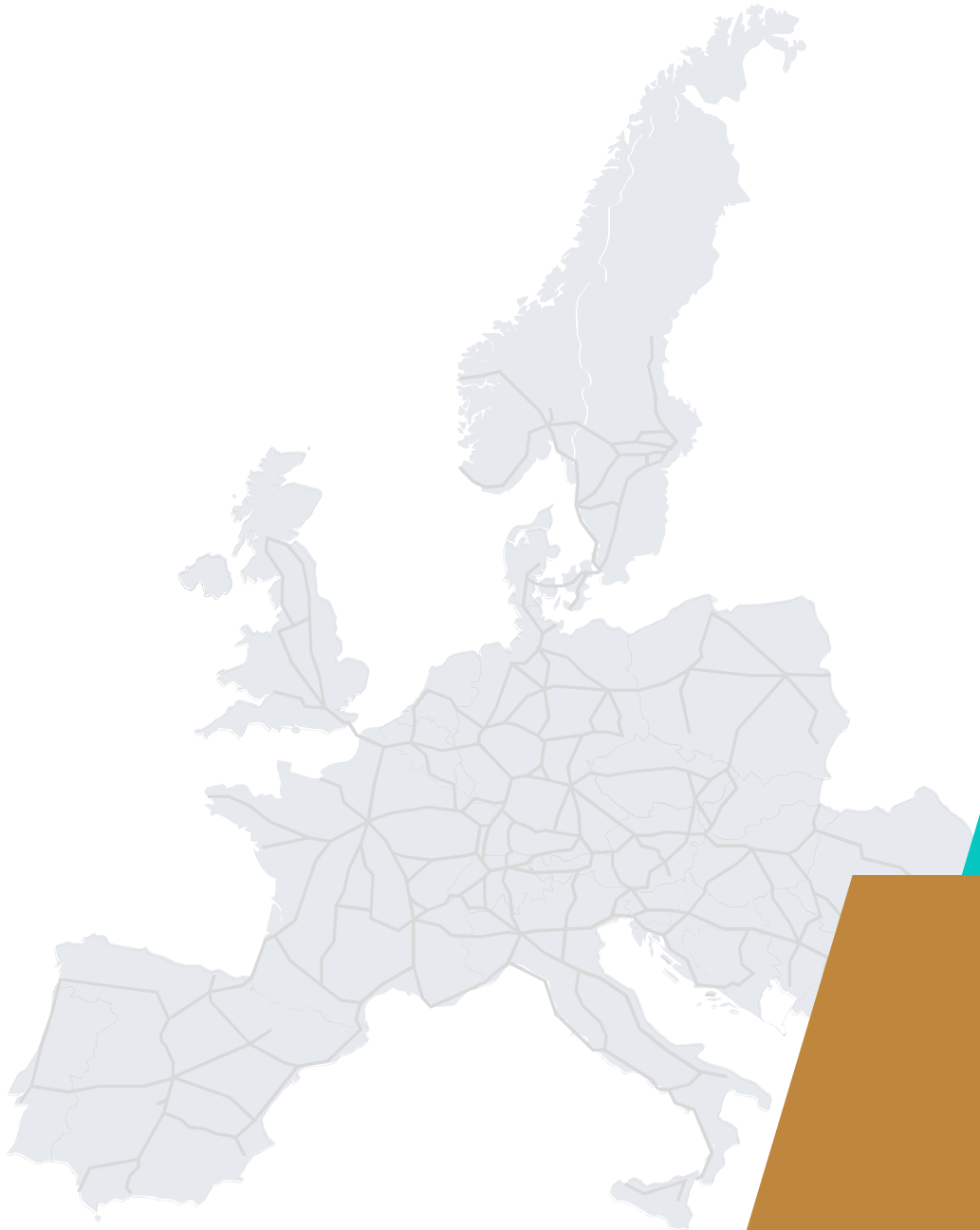
Displayed to CIP users as selectable map themes

» 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



Accessing & lay-out of CIP

28 April 2022

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/>



imprint

legal notice

Welcome to the Customer Information Platform!

This is an information platform of **European Rail Freight Corridors**. To access it, please **select the button** with the type of organisation you belong to.



RU / Shipper / Operator



Service Facility / Last Mile



Research Institution



Public Authority



Infrastructure Manager / AB



Other

If you need support with accessing the platform, please contact our Service Desk at support.cip@rne.eu.

3. General layout of CIP - the Interactive Map

The screenshot displays the CIP Interactive Map interface. At the top, there is a header with logos for various RFCs (All RFCs, CORRIDOR RHINE-ALPINE, CORRIDOR, ScanMed RFC, ATLANTIC, RFC5, and others) and a 'Network+' checkbox. Below the header is a search bar and navigation icons. The main area is a map of Europe showing various railway corridors and nodes. A legend on the right side lists 'Nodes' (Railway Node or junction, Border Point, Terminal Handover Point, Expected Node) and 'By Rail Freight Corridor' (Rhine-Alpine, North Sea-Med, ScanMed, Atlantic, Baltic-Adriatic, Mediterranean, Orient/East-Med, North Sea-Baltic, Rhine-Danube, Alpine-Western Balkan, Amber, Expected, Network+). A 'Layer Control' panel on the left lists various filters like Traction Power, Signalling Groups, and ETCS Deployment. Several callouts highlight specific features: 'Search field', 'Switch background', 'Export map', 'ICM Lines', 'Find a route', 'Multi Corridor View Selection', and 'Legend with graphic representation and textual description'.

4. Extended route-planning in CIP

The contents of this Customer Information Platform (CIP) are for information purposes only and are not legally binding.

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Logout

All RFCs
CORRIDOR RHINE-ALPINE
CORRIDOR NORTH SEA-MED
CORRIDOR SCANMEDIAN
CORRIDOR ATLANTIC
CORRIDOR BALTIC-ADRIATIC
CORRIDOR MEDITERRANEAN
CORRIDOR ORIENT/EAST-MED
CORRIDOR NORTH SEA-BALTIC
CORRIDOR RHINE-DANUBE
CORRIDOR ALPINE-WESTERN BALKAN
CORRIDOR AMBER

Network+

ScanMed RFC
ATLANTIC
RFC5
MEDITERRANEAN
Alpine-Western Balkan rail freight corridor
Amber Rail Freight Corridor

Search

ICM Re-routing Options

Route Planning

≥ 22,5t

Define meter load

Priority Rules

Legend

Corridor Locations

- Nodes
- Terminals
- Corridor Line
 - By Infrastructure Mana...
 - By Rail Freight Corridor
 - RFC Line Category
- Line Properties
 - Line Category (Load M...
 - Traction Power
 - Signalling Groups
 - Intermodal Freight Code
 - Gauging
 - Gradient Dir. 1
 - Gradient Dir. 2
 - Track Gauge
 - Number of Tracks
 - Maximum Train Length
 - Maximum Speed
 - Usage
- ETCS Deployment
 - ETCS Build Status
 - ETCS Operational Level
 - ETCS Deployment Type
 - ETCS System Version
- Projects
 - Infrastructure
 - Signalling
 - ERTMS

Instructions

Step 1 – Set route
Set up to 10 waypoints (in the required order) to be included in your route. As a minimum, the starting point and the end point need to be set.
Note: By default, the shortest route between the selected points will be calculated.

Step 2 – Set filter (optional)
If you select a filter (axle load and/or meter load), the route calculation will take that parameter into account as a minimum requirement.
Note: Sections not matching the selected parameter will be marked with yellow.

Step 3 – Start processing
By pressing **Q** the calculation will be started.

1. Trigger the function

2. Instructions pop-up

3. Define your route (add up to 10 waypoint)

4. Filter based on axle and/or meter load (optional)

5. Start calculation

6. Result will be shown on the map

7. List of segments will be shown and available for further processing

Nodes

- Railway Node or Junction
- ✕ Border Point
- Terminal Handover Point
- Expected Node

Terminals

- Marshalling / Shunting Yard
- Container / Intermodal Terminal
- Loading / Unloading

By Rail Freight Corridor

- Rhine-Alpine
- North Sea-Med
- ScanMed
- Atlantic
- Baltic-Adriatic
- Mediterranean
- Orient/East-Med
- North Sea-Baltic
- Rhine-Danube
- Alpine-Western Balkan
- Amber
- Expected
- Network+

| Route Name | Country | IM | Corridor Member | Line Category | Traction Power | Signalling Group |
|--------------|----------------------|---------------|-----------------|---------------|------------------|---|
| Ostružnica - | Serbia; Bulgaria: | IŽS; NRIC: | RFC7; | D4; D3; | 25 KV AC; not | Class B/National System (Legacy); not |

5. Joint document structure maintained by all RFCs

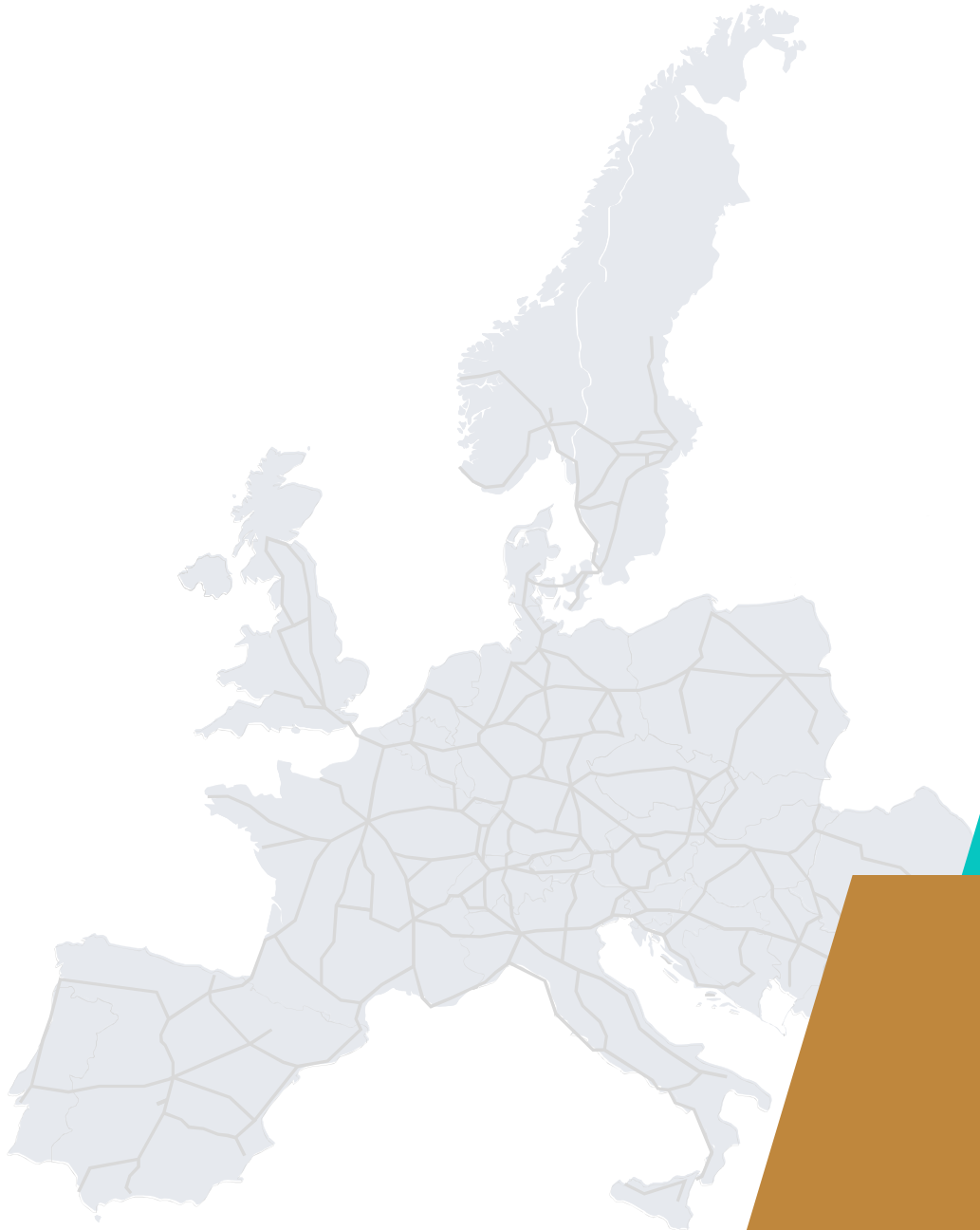
The screenshot displays the RNE CIP Customer Information Platform interface. At the top, there is a navigation bar with the RNE CIP logo, a disclaimer, a Logout button, and the European Union logo. Below the navigation bar, there is a header section with logos for various Rail Freight Corridors (RFCs) and checkboxes to select them. The main content area is divided into a left sidebar and a main content pane. The sidebar contains a search bar and a tree view of document categories. The main content pane displays the selected document's content.

1. Navigate to the Information Documents

2. Adjust the Multi Corridor View

3. Select the document of your interest

4. Explore the contents of selected document tab / download files



Technical support for ICM processes in CIP

28 April 2022

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

The screenshot displays the RNE CIP Customer Information Platform interface. At the top, a teal banner contains the RNE CIP logo, a disclaimer, a Logout button, and the European Union logo. Below this is a navigation bar with 'Interactive Map', 'Information Documents', and 'Feedback' options. A horizontal menu lists various corridors with checkmarks: All RFCs, CORRIDOR RHINE-ALPINE RFC7, CORRIDOR North Sea - Baltic, ScanMed RFC, ATLANTIC, RFC5, and MEDITERRANEAN. The main content area is divided into a left sidebar and a main panel. The sidebar has buttons for 'Search', 'Collapse Tree', and 'Expand Tree', and a tree view under 'Public Information Documents' with 'Re-routing Scenarios' expanded to show a list of RFCs including 'RFC ScanMed'. The main panel is titled 'Re-routing Scenarios / RFC ScanMed' and contains a document viewer with the ScanMed RFC logo and text: 'As mentioned in CID Book IV, 5.3, the details on the implementation of the [Handbook for International Contingency Management](#) in ScanMed RFC is described [here](#)'. Below this, there are links for 'Download the main ScanMed RFC documents', 'Re-routing options & processes [here](#)', 'Re-routing, detailed, overview [here](#)', and 'Re-routing map [here](#)'. At the bottom, it says 'For any questions, please contact the Corridor Team: [Contacts](#)'. Metadata at the bottom indicates 'Last Edit Date: 2020-02-24' and 'Last Edited By: JOHNNY.TILGRIM@TRAFIKVERKET.SE'.

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

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Logout

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Search

ICM Re-routing Options

Route Planning

Legend

- Nodes
 - Railway Node or Junction
 - ✕ Border Point
 - Terminal Handover Point
 - Expected Node
- Terminals
- ICM Lines
 - ICM Lines with Re-Routings
 - - - ICM Lines without Re-Routings
- Selected Corridors
 - Existing RFC Lines
 - - - Expected RFC Lines

1. Trigger the function

2. Instructions with a disclaimer pop-up

3. ICM Lines along selected RFCs will be displayed

Instructions

Step 1: Select one of the red ICM lines by clicking on it. The re-routing options for this ICM line will be displayed in green. For dashed ICM lines no re-routing options are available.

Step 2: Select one of the re-routing lines. A pop-up window with the characteristics of the whole re-routing line and of the specific segment will appear.

Step 3: To leave the "ICM Re-routing options" view, click on the ICM Re-routing Options button.

Note: The visualisation of ICM Re-routing options is work in progress. For the complete list of ICM Re-routing options of individual RFCs, please refer to the Documents tab.

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

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Logout

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Legend

- Nodes
 - Railway Node or Junction
 - Border Point
 - Terminal Handover Point
 - Expected Node
- Terminals
- ICM Lines
 - ICM Lines with Re-Routings
 - ICM Lines without Re-Routings
- Re-routing Line
 - Re-routing option 1
 - Re-routing option 2
 - Re-routing option 3
 - Re-routing option 4
 - Re-routing option 5
- Selected Corridors
 - Existing RFC Lines
 - Expected RFC Lines
- Re-routing Nodes
 - Railway Node or Junction
 - Border Point
 - Handover Point
 - Expected Node

1. Select an ICM line

2. Key information about selected ICM line pop-up

3. Re-routing options will be displayed

4. Differences in line properties indicated via set of icons

ICM Line

ICM line name: München-Trudering - Rosenheim

Track length: 50.23 km

Corridor member: ScanMed

No of re-routings: 3

4. Detailed information about selected Re-routing Option

Re-routing Line

| | |
|--------------------------|---|
| ICM line name: | Břeclav - Wien |
| Re-routing line name: | Břeclav - Šatov - Retz - Stadlau |
| Country: | Austria; Czechia |
| IM: | ÖBB-Infrastruktur; Správa železnic |
| Track Length: | 159,52 km |
| Line Category: | D4 |
| Traction Power: | 15 KV AC; not electrified |
| Signalling Class A: | no class A system |
| Signalling Class B: | AB; PZB; SB; T |
| Intermodal Freight Code: | P/C 78/402 |
| Gauging: | GA; GC |
| Gradient Dir 1: | 16 - 20 |
| Gradient Dir 2: | upon request |
| Track Gauge: | 1435 mm |
| Number of Tracks: | Single-track |
| Maximum Train Length: | 600 - 649 m; 500 - 549 m |
| Maximum Speed: | 101 - 120 km/h; 81 - 100 km/h; 61 - 80 km/h |
| Usage: | Passenger & Freight |
| Miscellaneous: | upon request |

Legend

Nodes

- Railway Node or Junction
- Border Point
- Terminal Handover Point
- Expected Node

Terminals

ICM Lines

- ICM Lines with Re-Routings
- ICM Lines without Re-Routings

Re-routing Line

- Re-routing option 1
- Re-routing option 2
- Re-routing option 3
- Re-routing option 4
- Re-routing option 5

Selected Corridors

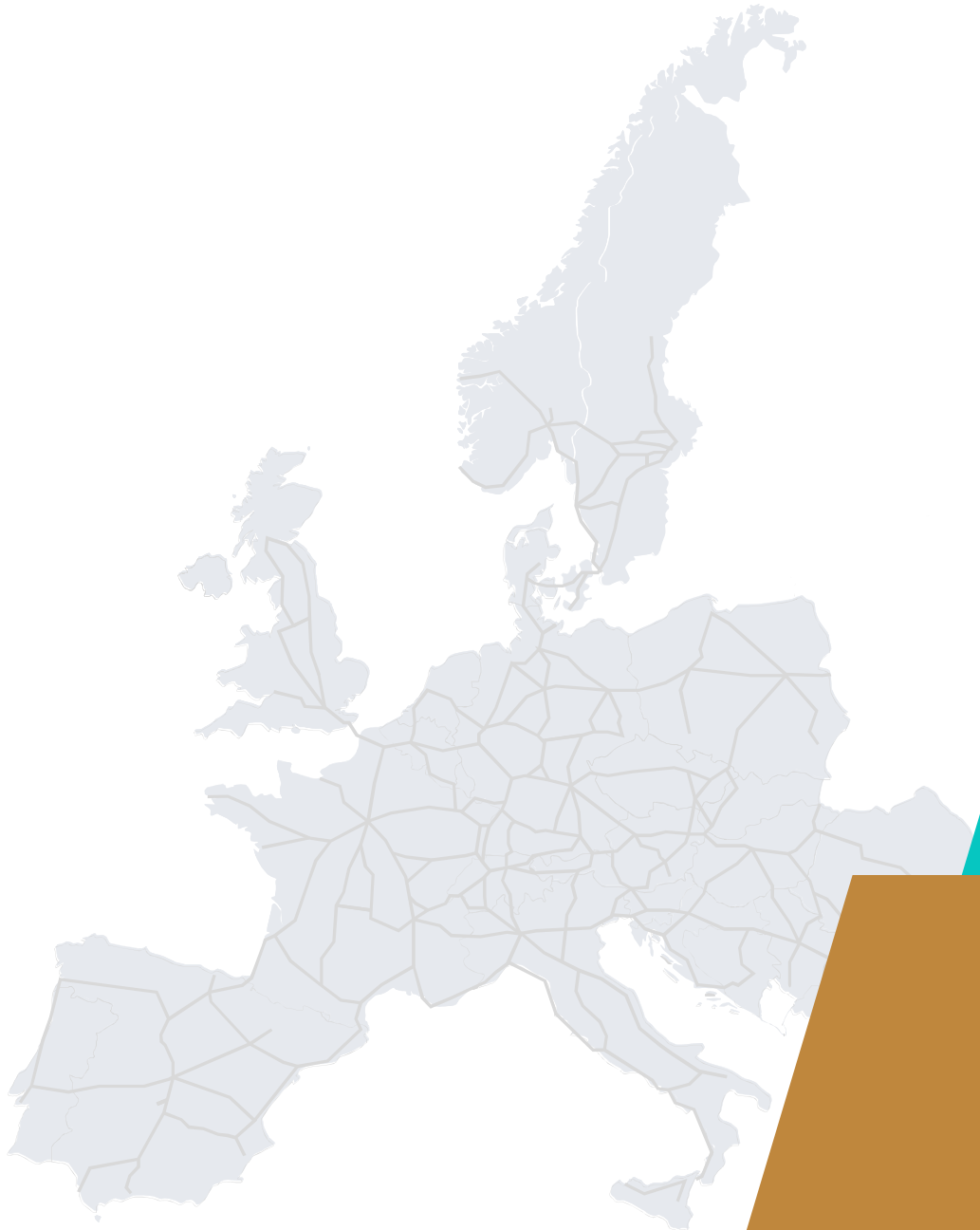
- Existing RFC Lines
- Expected RFC Lines

Re-routing Nodes

- Railway Node or Junction
- Border Point

1. Select a re-routing option

2. Detailed information about selected re-routing option pops-up



Coming up & CIP contact

28 April 2022

Coming up: List of terminals in a tabular view

1. Adjust the Multi Corridor View

2. Click on 'Terminals'

3. Explore the list

| NAME ↑ | OPERATOR | TERMINALTYPE | CORRIDOR_MEMBER | ADDRESS |
|-------------------------------------|---------------------------------------|---------------------------------|---|--|
| BALTCHEM S.A. - Zakłady Chemicz... | BALTCHEM S.A. | Container / Intermodal Terminal | Baltic-Adriatic | ul. Ksiedza Stanislaw Kujota Nr 9, ... |
| Baltycka Baza Masowa | Baltycka Baza Masowa Sp. z o.o | Container / Intermodal Terminal | Baltic-Adriatic | ul. Weglowa 3, 81-341 Gdynia |
| BCT Baltyski Terminal Kontenerow... | Baltyski Terminal Kontenerowy | Container / Intermodal Terminal | Baltic-Adriatic | ul. Kwiatkowskiego 60, 81-127 Gdy... |
| BILK Kombiterminál | Rail Cargo Group | Container / Intermodal Terminal | Mediterranean, Orient/East-Med, R... | H-1239 Budapest, Európa utca 4. |
| Bologna Interporto | Interporto Bologna S.p.A | Container / Intermodal Terminal | ScanMed, Baltic-Adriatic | Palazzina Doganale Interporto Bol... |
| Brzeski Terminal Kontenerowy | Karpel sp. z o. o. | Container / Intermodal Terminal | North Sea-Baltic, Amber | Przemysłowa 6, 32800 Brzesko |
| Budapest Szabadkikötő (port) | Budapesti Szabadkikötő Logisztikai... | Container / Intermodal Terminal | Mediterranean, Orient/East-Med, R... | 1211 Budapest, Weiss Manfréd út ... |
| Bulk Cargo-Port Szczecin | "Bulk Cargo-Port Szczecin" Sp. z o.o. | Container / Intermodal Terminal | Baltic-Adriatic | ul. Gdanska 21, 70-661 Szczecin |
| Cargo Center Graz | Cargo Center Graz | Container / Intermodal Terminal | Baltic-Adriatic, Alpine-Western Balk... | Am Terminal 1, 8402 Werndorf |
| CARGOSPED Terminal Braniewo S... | Cargosped | Container / Intermodal Terminal | Baltic-Adriatic | ul. Blotna 21, 14-500 Braniewo |
| Celje tovorna kontejnerski | Slovenske železnice - Tovorni pro... | Container / Intermodal Terminal | Baltic-Adriatic, Mediterranean, Alpi... | Kidričeva ulica 34, 3000 Celje |
| Centrum Logistyczno-Inwestycyjne... | CLIP Logistics Sp. z o.o. | Container / Intermodal Terminal | Baltic-Adriatic, North Sea-Baltic | ul. Rabowicka 77 62-020 Swarzedz... |
| Cervignano Interporto | Interporto Alpe Adria di Cervignan... | Container / Intermodal Terminal | Baltic-Adriatic, Mediterranean | Viale Venezia 22 Cervignano del Fri... |
| Cittadella Terminal | Mercitalia Shunting & Terminal | Loading / Unloading | Baltic-Adriatic, Mediterranean | Cittadella |
| DB Port Szczecin | DB Port Szczecin Sp. z o.o. | Container / Intermodal Terminal | Baltic-Adriatic | Bytomska 14 70-603 Szczecin |

CIP Contact: RailNetEurope



RailNetEurope

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