Commonly applicable RFC KPIs

2022

Volume of offered capacity – PaPs (at X-11)

(millions of path kilometers)

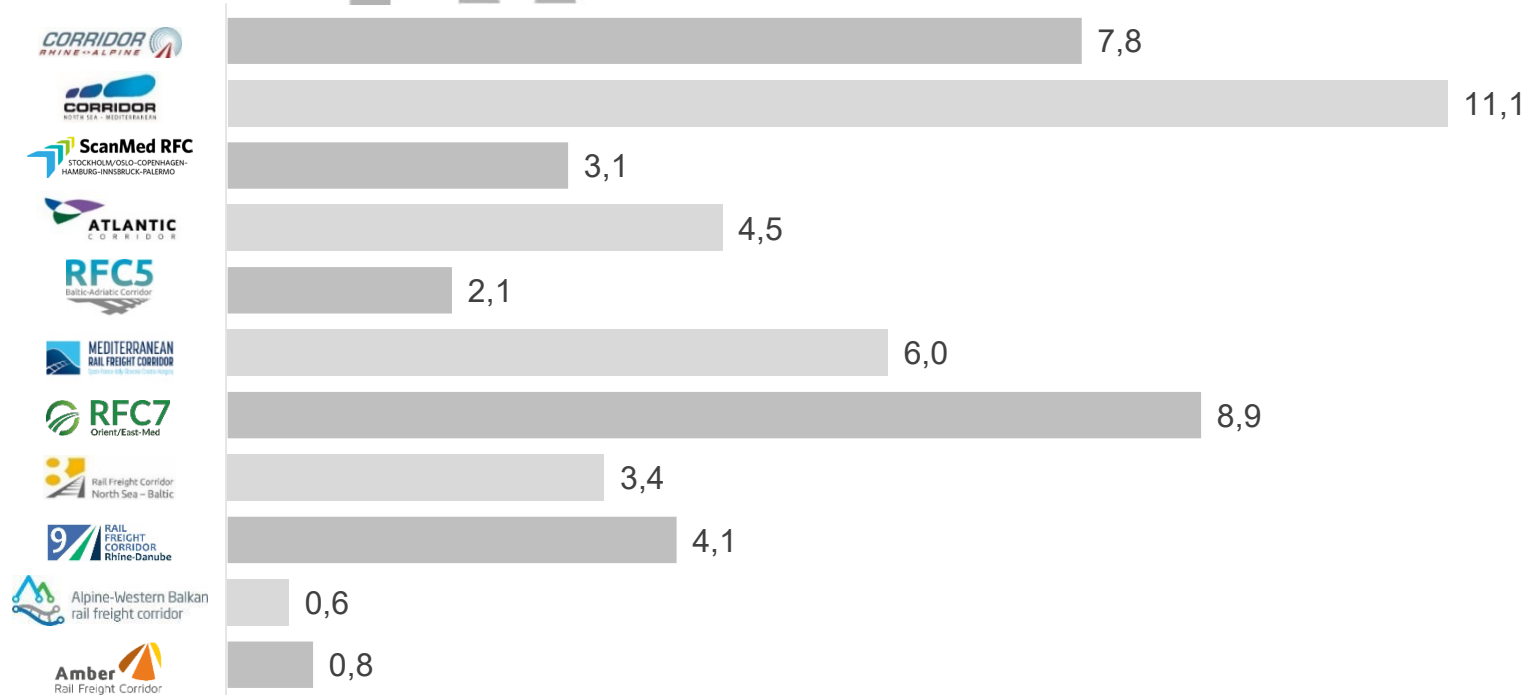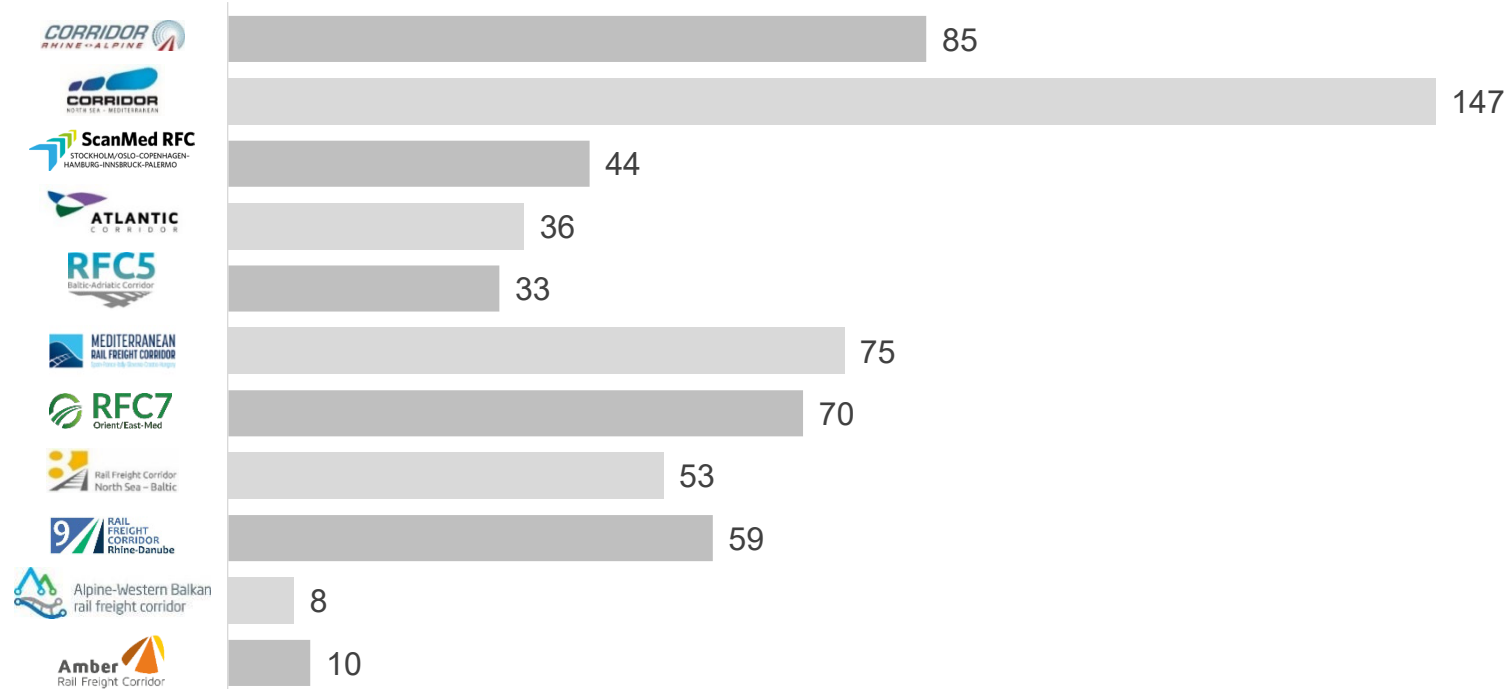| Corridor	Value
CORRIDOR RHINE–ALPINE	18,1
CORRIDOR NORTH SEA – MEDITERRANEAN	26,8
ScanMed RFC (STOCKHOLM/OSLO-COPENHAGEN-HAMBURG-INNSBRUCK-PALERMO)	10,1
ATLANTIC CORRIDOR	8,2
RFC5 Baltic-Adriatic Corridor	6,2
MEDITERRANEAN RAIL FREIGHT CORRIDOR	16,2
RFC7 Orient/East-Med	17,0
Rail Freight Corridor North Sea – Baltic	15,3
RAIL FREIGHT CORRIDOR Rhine-Danube	8,2
Alpine-Western Balkan rail freight corridor	1,6
Amber Rail Freight Corridor	4,5

The figures refer to the capacity which the C-OSS of the RFC concerned publishes and pre-allocates. These might therefore not reflect the total amount of offered and pre-allocated PaPs along the RFC.

For TT 2023

Commonly applicable RFC KPIs

Volume of requested capacity – PaPs (at X-8)

(millions of path kilometers)

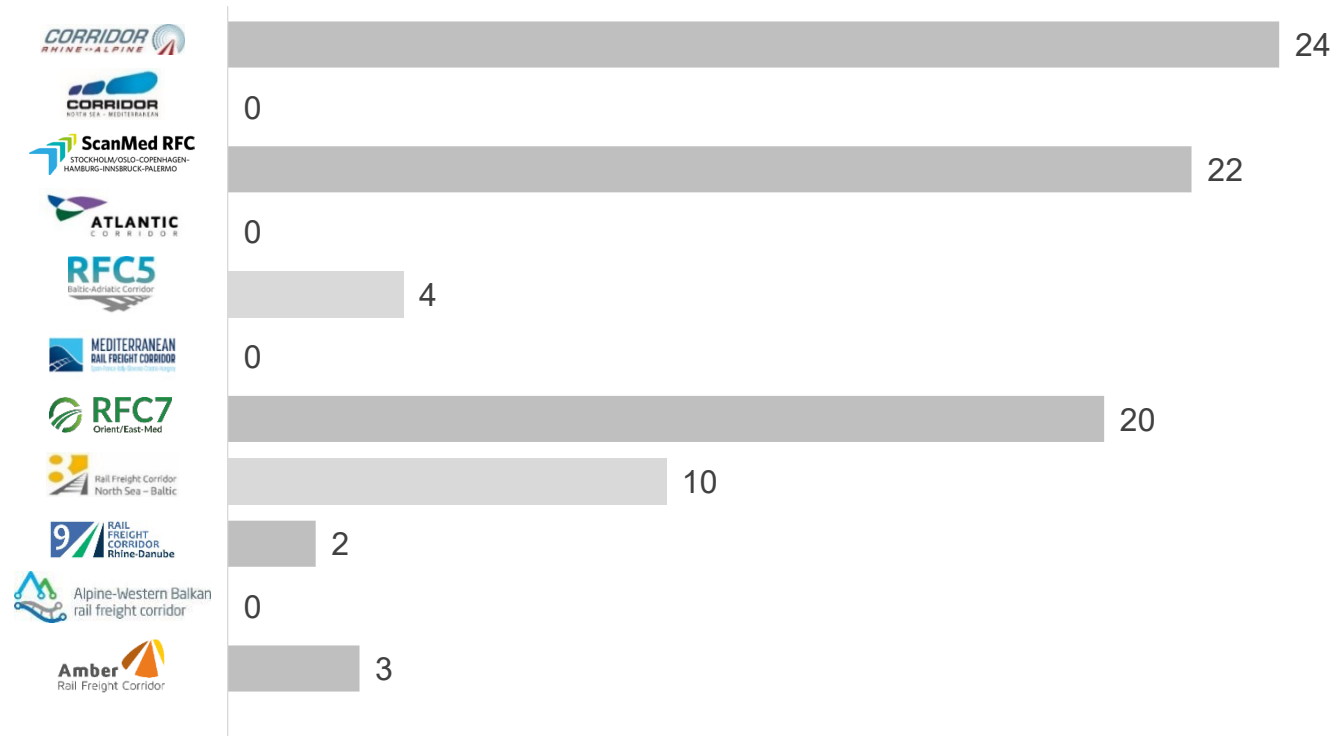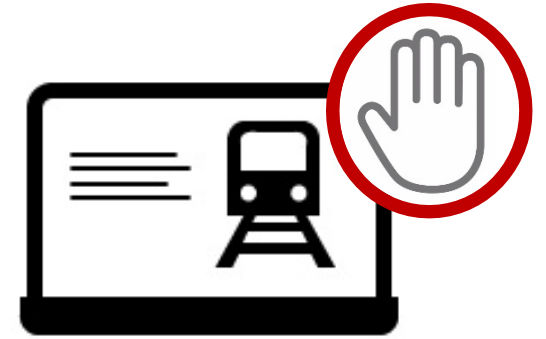| Corridor	Value
CORRIDOR RHINE–ALPINE	7,8
CORRIDOR NORTH SEA – MEDITERRANEAN	11,1
ScanMed RFC STOCKHOLM/OSLO-COPENHAGEN-HAMBURG-INNSBRUCK-PALERMO	3,1
ATLANTIC CORRIDOR	4,5
RFC5 Baltic-Adriatic Corridor	2,1
MEDITERRANEAN RAIL FREIGHT CORRIDOR	6,0
RFC7 Orient/East-Med	8,9
Rail Freight Corridor North Sea – Baltic	3,4
RAIL FREIGHT CORRIDOR Rhine-Danube	4,1
Alpine-Western Balkan rail freight corridor	0,6
Amber Rail Freight Corridor	0,8

For TT 2023

*The figures refer to the capacity which the C-OSS of the RFC concerned publishes and pre-allocates. These might therefore not reflect the total amount of offered and pre-allocated PaPs along the RFC.

RNE RailNetEurope

Commonly applicable RFC KPIs

Number of requests – PaPs (at X-8)

(number of PCS dossiers)

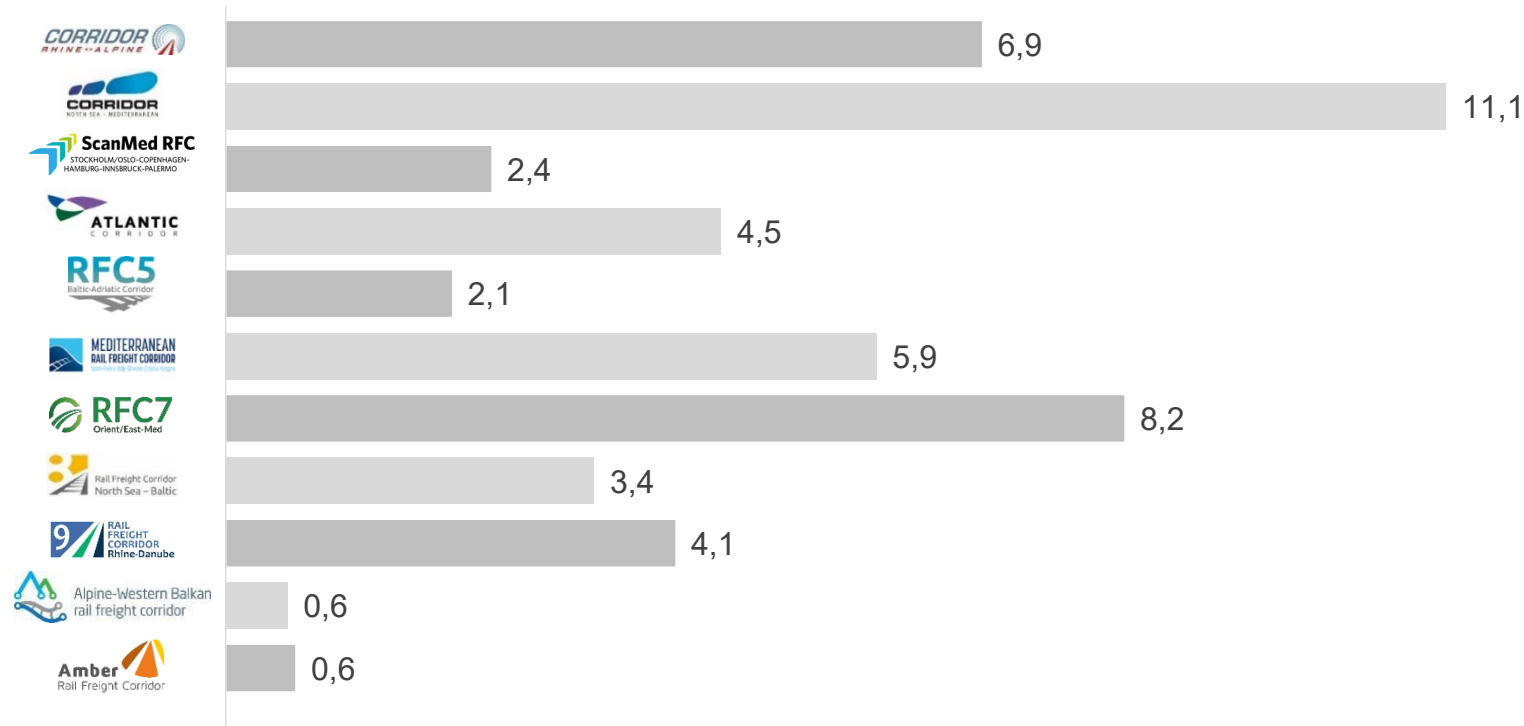| Corridor	Value
CORRIDOR RHINE-ALPINE	85
CORRIDOR NORTH SEA - MEDITERRANEAN	147
ScanMed RFC STOCKHOLM/OSLO-COPENHAGEN-HAMBURG-INNSBRUCK-PALERMO	44
ATLANTIC CORRIDOR	36
RFC5 Baltic-Adriatic Corridor	33
MEDITERRANEAN RAIL FREIGHT CORRIDOR	75
RFC7 Orient/East-Med	70
Rail Freight Corridor North Sea – Baltic	53
RAIL FREIGHT CORRIDOR Rhine-Danube	59
Alpine-Western Balkan rail freight corridor	8
Amber Rail Freight Corridor	10

The figures refer to the capacity which the C-OSS of the RFC concerned publishes and pre-allocates. These might therefore not reflect the total amount of offered and pre-allocated PaPs along the RFC.

For TT 2023

Commonly applicable RFC KPIs

Number of conflicts – PaPs (at X-8)

(number of conflicting PCS dossiers)

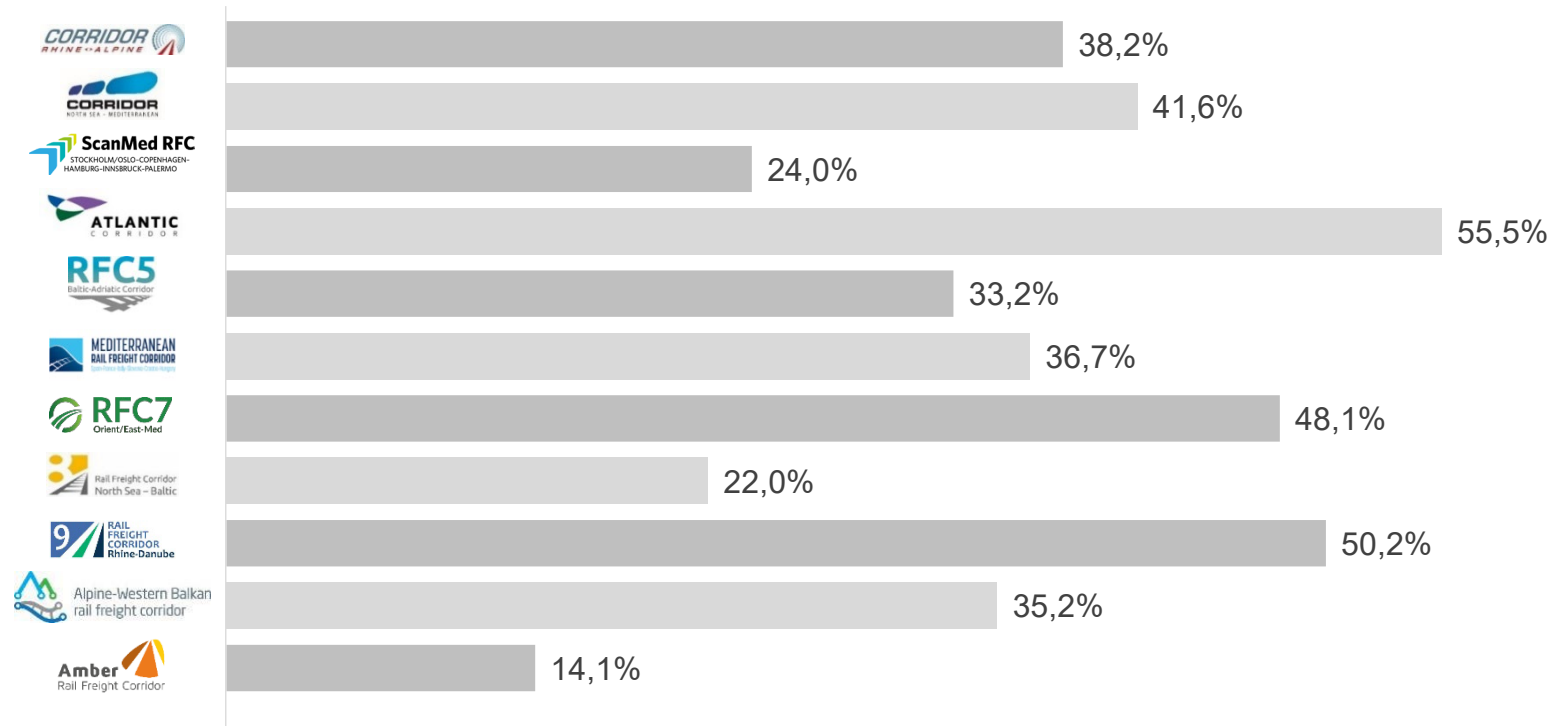| Corridor	Value
CORRIDOR RHINE-ALPINE	24
CORRIDOR NORTH SEA - MEDITERRANEAN	0
ScanMed RFC (STOCKHOLM/OSLO-COPENHAGEN-HAMBURG-INNSBRUCK-PALERMO)	22
ATLANTIC CORRIDOR	0
RFC5 (Baltic-Adriatic Corridor)	4
MEDITERRANEAN RAIL FREIGHT CORRIDOR	0
RFC7 (Orient/East-Med)	20
Rail Freight Corridor North Sea – Baltic	10
RAIL FREIGHT CORRIDOR Rhine-Danube	2
Alpine-Western Balkan rail freight corridor	0
Amber Rail Freight Corridor	3

The figures refer to the capacity which the C-OSS of the RFC concerned publishes and pre-allocates. These might therefore not reflect the total amount of offered and pre-allocated PaPs along the RFC.

For TT 2023

Commonly applicable RFC KPIs

Volume of pre-booked capacity – PaPs (at X-7.5)

(millions of path kilometers)

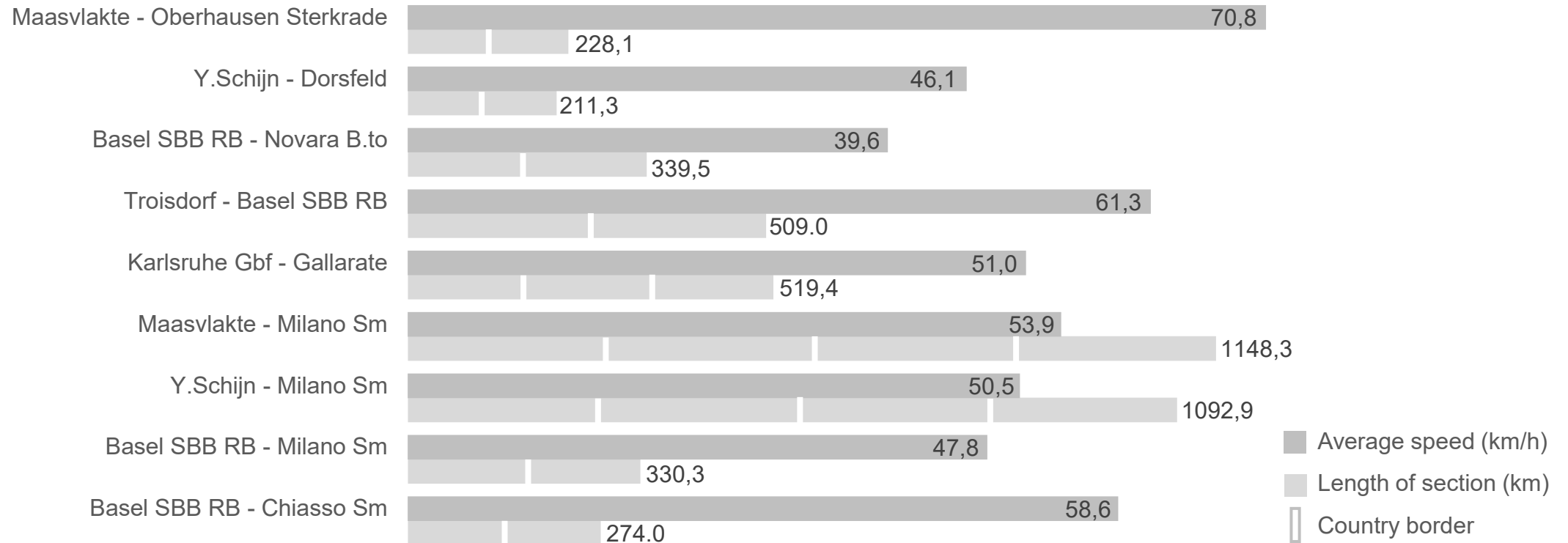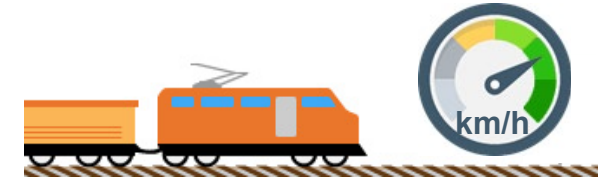| Corridor	Value
CORRIDOR RHINE–ALPINE	6,9
CORRIDOR NORTH SEA – MEDITERRANEAN	11,1
ScanMed RFC STOCKHOLM/OSLO-COPENHAGEN-HAMBURG-INNSBRUCK-PALERMO	2,4
ATLANTIC CORRIDOR	4,5
RFC5 Baltic-Adriatic Corridor	2,1
MEDITERRANEAN RAIL FREIGHT CORRIDOR	5,9
RFC7 Orient/East-Med	8,2
Rail Freight Corridor North Sea – Baltic	3,4
RAIL FREIGHT CORRIDOR Rhine-Danube	4,1
Alpine-Western Balkan rail freight corridor	0,6
Amber Rail Freight Corridor	0,6

The figures refer to the capacity which the C-OSS of the RFC concerned publishes and pre-allocates. These might therefore not reflect the total amount of offered and pre-allocated PaPs along the RFC.

For TT 2023

Commonly applicable RFC KPIs

CAPACITY MANAGEMENT

Average planned speed of PaPs for TT 2023

(calculation per O/D pairs)

Route	Average speed (km/h)	Length of section (km)
Maasvlakte - Oberhausen Sterkrade	70,8	228,1
Y.Schijn - Dorsfeld	46,1	211,3
Basel SBB RB - Novara B.to	39,6	339,5
Troisdorf - Basel SBB RB	61,3	509.0
Karlsruhe Gbf - Gallarate	51,0	519,4
Maasvlakte - Milano Sm	53,9	1148,3
Y.Schijn - Milano Sm	50,5	1092,9
Basel SBB RB - Milano Sm	47,8	330,3
Basel SBB RB - Chiasso Sm	58,6	274.0

Legend:
- Average speed (km/h)
- Length of section (km)
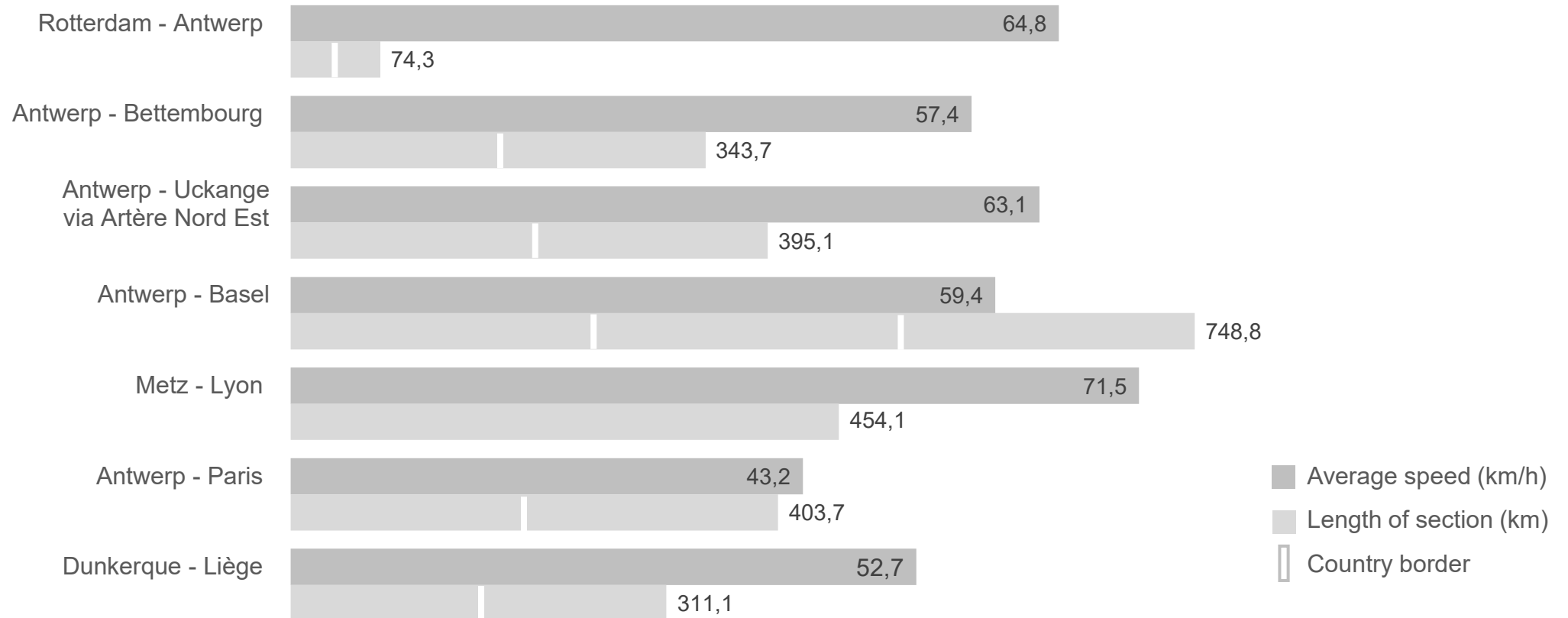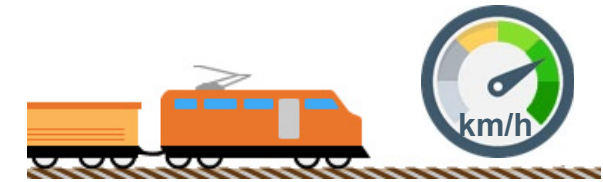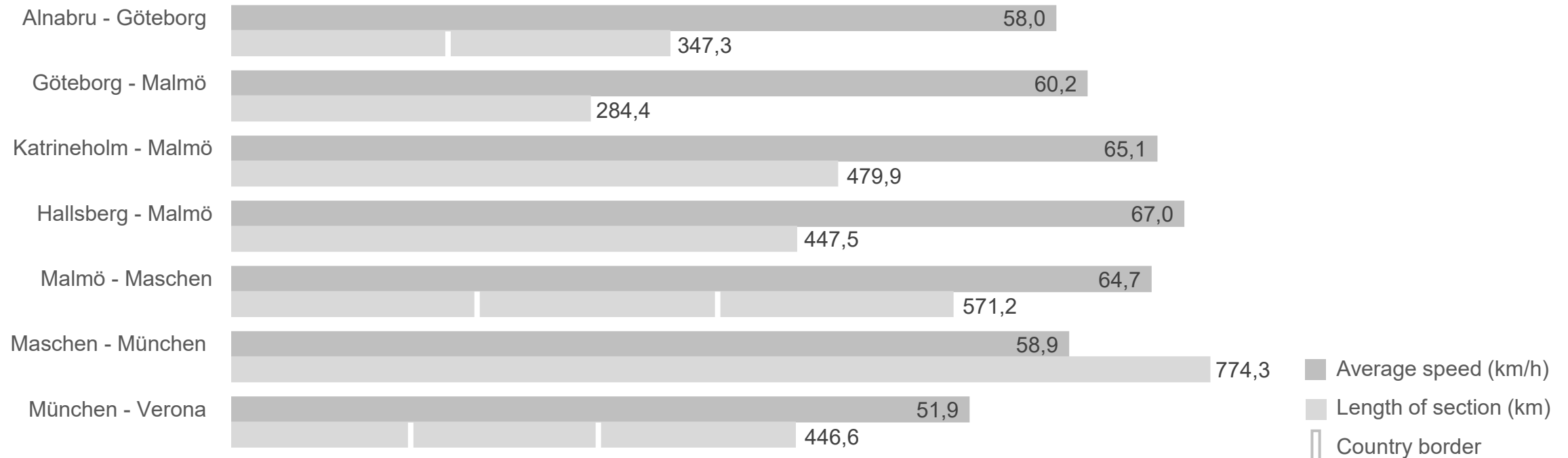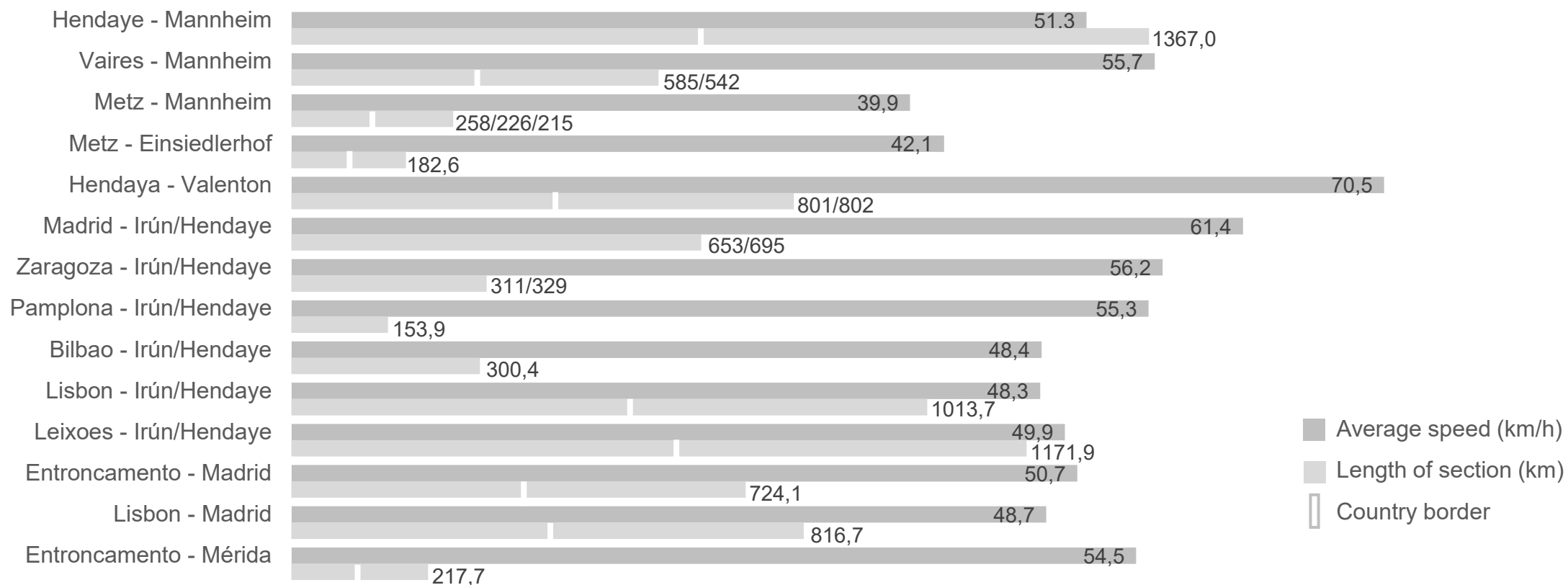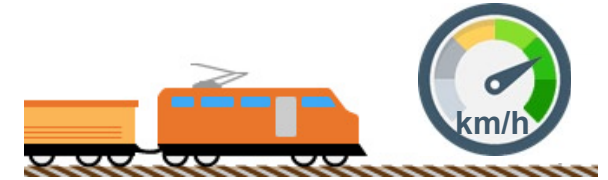- Country border

This KPI should be perceived as qualitative as journey times might include commercial and operational stops.

CAPACITY MANAGEMENT

Average planned speed of PaPs for TT 2023

(calculation per O/D pairs)

O/D pair	Average speed (km/h)	Length of section (km)
Rotterdam - Antwerp	64,8	74,3
Antwerp - Bettembourg	57,4	343,7
Antwerp - Uckange via Artère Nord Est	63,1	395,1
Antwerp - Basel	59,4	748,8
Metz - Lyon	71,5	454,1
Antwerp - Paris	43,2	403,7
Dunkerque - Liège	52,7	311,1

Legend:
- Average speed (km/h)
- Length of section (km)
- Country border

This KPI should be perceived as qualitative as journey times might include commercial and operational stops.

RNE RailNetEurope

CORRIDOR NORTH SEA - MEDITERRANEAN

Commonly applicable RFC KPIs

CAPACITY MANAGEMENT

Average planned speed of PaPs for TT 2023

(calculation per O/D pairs)

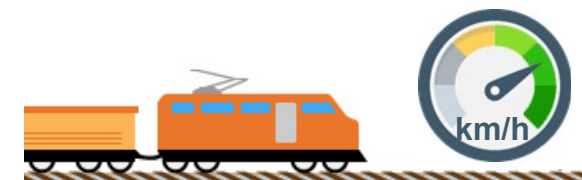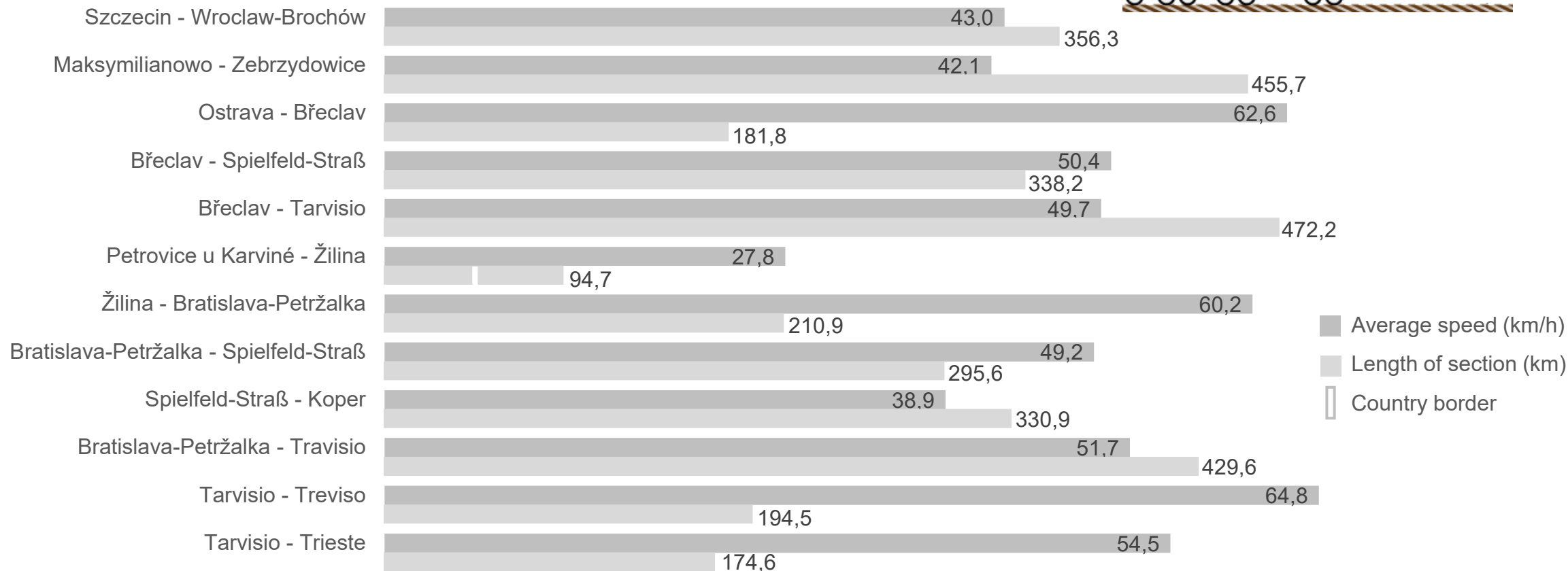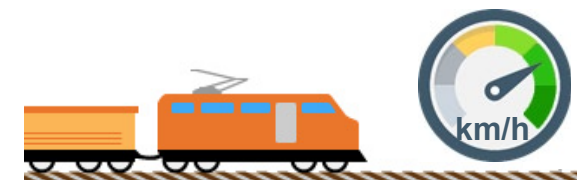| Section	Average speed (km/h)	Length of section (km)
Alnabru - Göteborg	58,0	347,3
Göteborg - Malmö	60,2	284,4
Katrineholm - Malmö	65,1	479,9
Hallsberg - Malmö	67,0	447,5
Malmö - Maschen	64,7	571,2
Maschen - München	58,9	774,3
München - Verona	51,9	446,6

Legend:
- Average speed (km/h)
- Length of section (km)
- Country border

This KPI should be perceived as qualitative as journey times might include commercial and operational stops.

Commonly applicable RFC KPIs

CAPACITY MANAGEMENT

Average planned speed of PaPs for TT 2023

(calculation per O/D pairs)

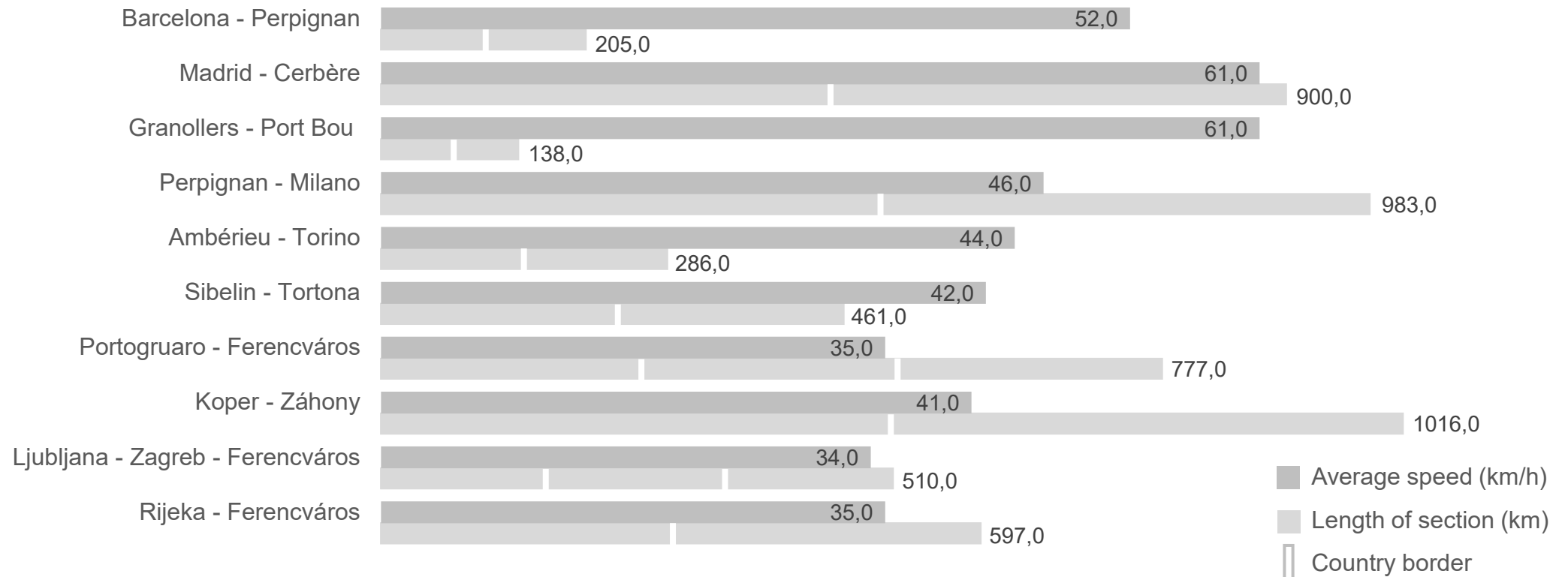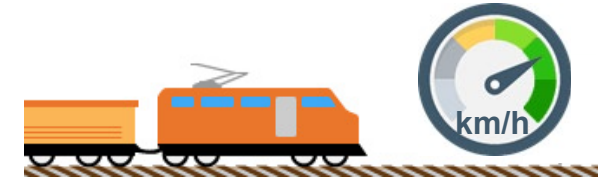| Route	Average speed (km/h)	Length of section (km)
Hendaye - Mannheim	51.3	1367,0
Vaires - Mannheim	55,7	585/542
Metz - Mannheim	39,9	258/226/215
Metz - Einsiedlerhof	42,1	182,6
Hendaya - Valenton	70,5	801/802
Madrid - Irún/Hendaye	61,4	653/695
Zaragoza - Irún/Hendaye	56,2	311/329
Pamplona - Irún/Hendaye	55,3	153,9
Bilbao - Irún/Hendaye	48,4	300,4
Lisbon - Irún/Hendaye	48,3	1013,7
Leixoes - Irún/Hendaye	49,9	1171,9
Entroncamento - Madrid	50,7	724,1
Lisbon - Madrid	48,7	816,7
Entroncamento - Mérida	54,5	217,7

Legend:
- Average speed (km/h)
- Length of section (km)
- Country border

This KPI should be perceived as qualitative as journey times might include commercial and operational stops.

RNE RailNetEurope   ATLANTIC CORRIDOR

Commonly applicable RFC KPIs

Average planned speed of PaPs for TT 2023

(calculation per O/D pairs)

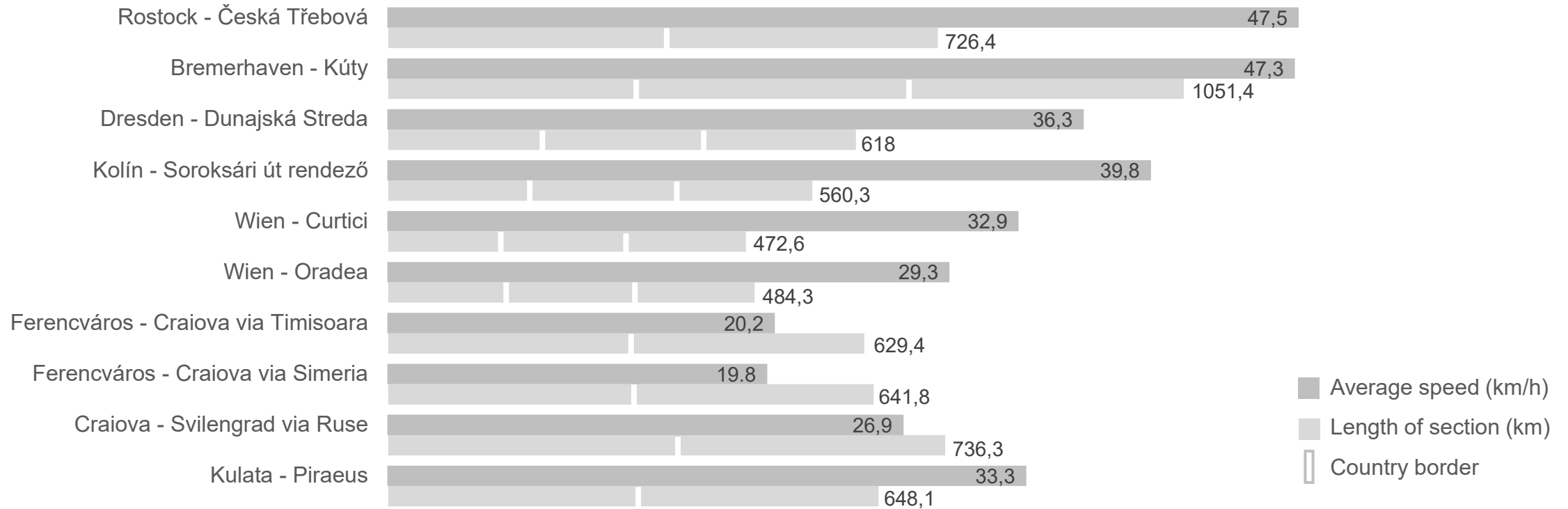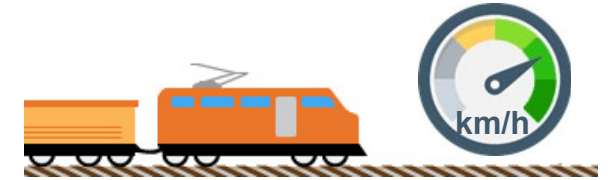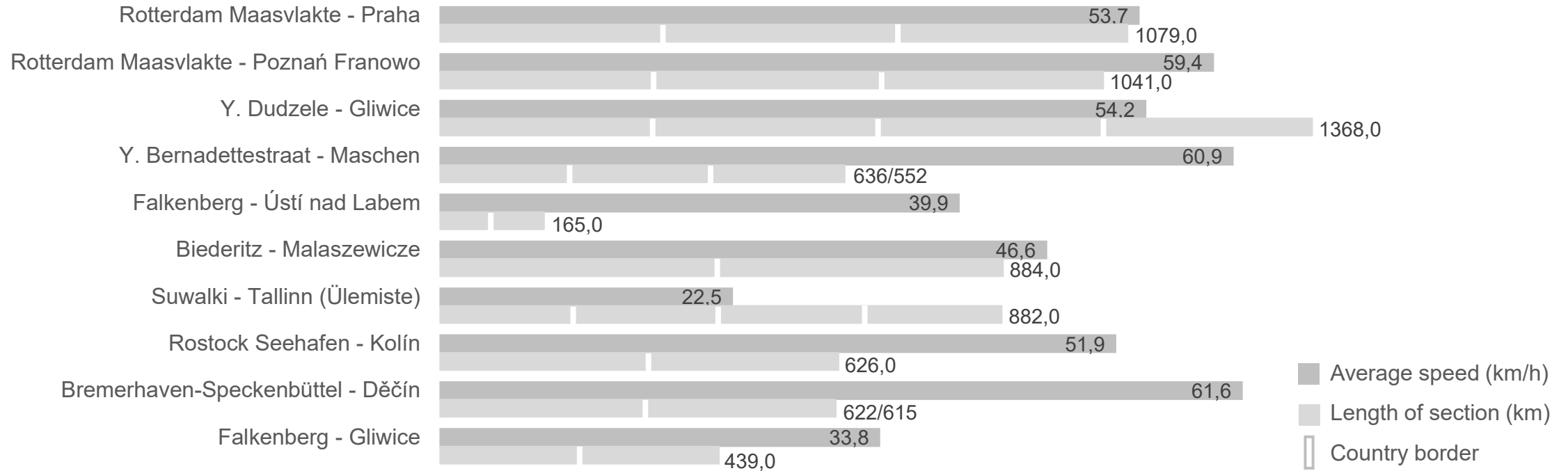| Section	Average speed (km/h)	Length of section (km)
Szczecin - Wroclaw-Brochów	43,0	356,3
Maksymilianowo - Zebrzydowice	42,1	455,7
Ostrava - Břeclav	62,6	181,8
Břeclav - Spielfeld-Straß	50,4	338,2
Břeclav - Tarvisio	49,7	472,2
Petrovice u Karviné - Žilina	27,8	94,7
Žilina - Bratislava-Petržalka	60,2	210,9
Bratislava-Petržalka - Spielfeld-Straß	49,2	295,6
Spielfeld-Straß - Koper	38,9	330,9
Bratislava-Petržalka - Travisio	51,7	429,6
Tarvisio - Treviso	64,8	194,5
Tarvisio - Trieste	54,5	174,6

Legend:
- Average speed (km/h)
- Length of section (km)
- Country border

This KPI should be perceived as qualitative as journey times might include commercial and operational stops.

RNE RailNetEurope

RFC5 Baltic-Adriatic Corridor

Commonly applicable RFC KPIs

CAPACITY MANAGEMENT

Average planned speed of PaPs for TT 2023

(calculation per O/D pairs)

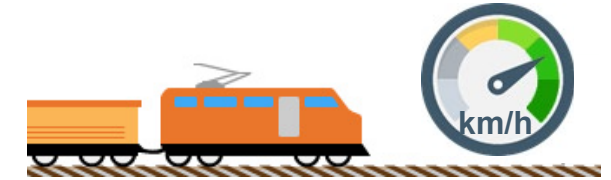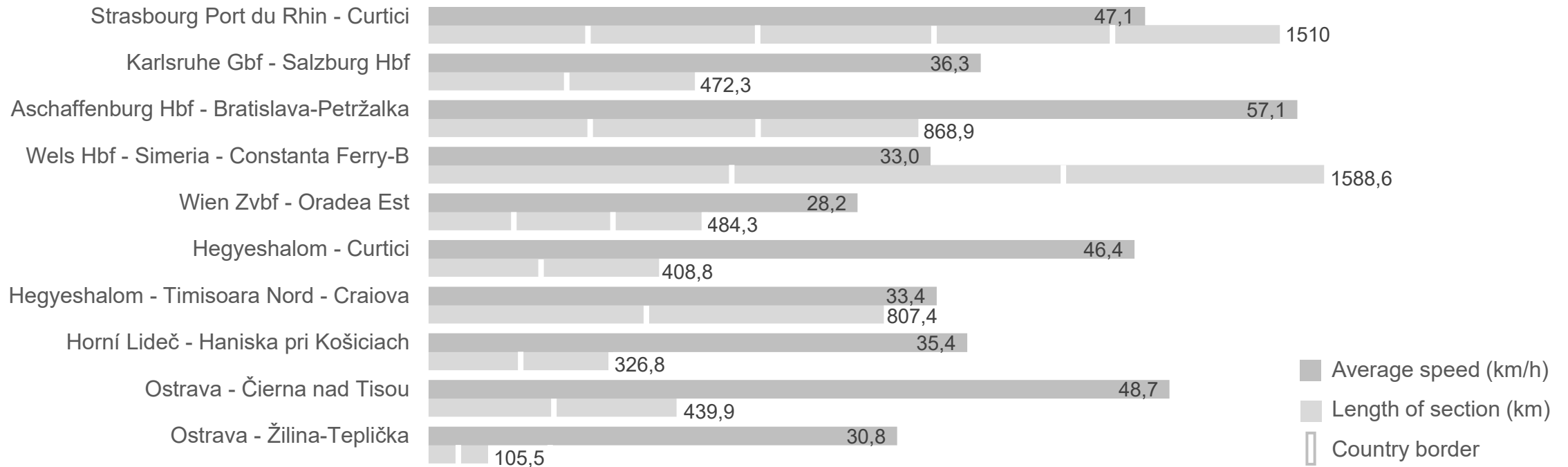| Route	Average speed (km/h)	Length of section (km)
Barcelona - Perpignan	52,0	205,0
Madrid - Cerbère	61,0	900,0
Granollers - Port Bou	61,0	138,0
Perpignan - Milano	46,0	983,0
Ambérieu - Torino	44,0	286,0
Sibelin - Tortona	42,0	461,0
Portogruaro - Ferencváros	35,0	777,0
Koper - Záhony	41,0	1016,0
Ljubljana - Zagreb - Ferencváros	34,0	510,0
Rijeka - Ferencváros	35,0	597,0

Average speed (km/h)
Length of section (km)
Country border

This KPI should be perceived as qualitative as journey times might include commercial and operational stops.

Commonly applicable RFC KPIs

CAPACITY MANAGEMENT

Average planned speed of PaPs for TT 2023

(calculation per O/D pairs)

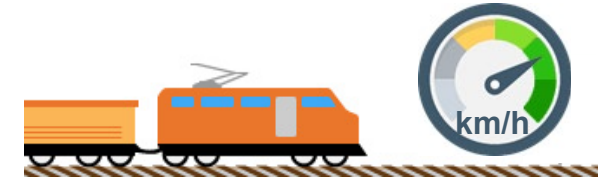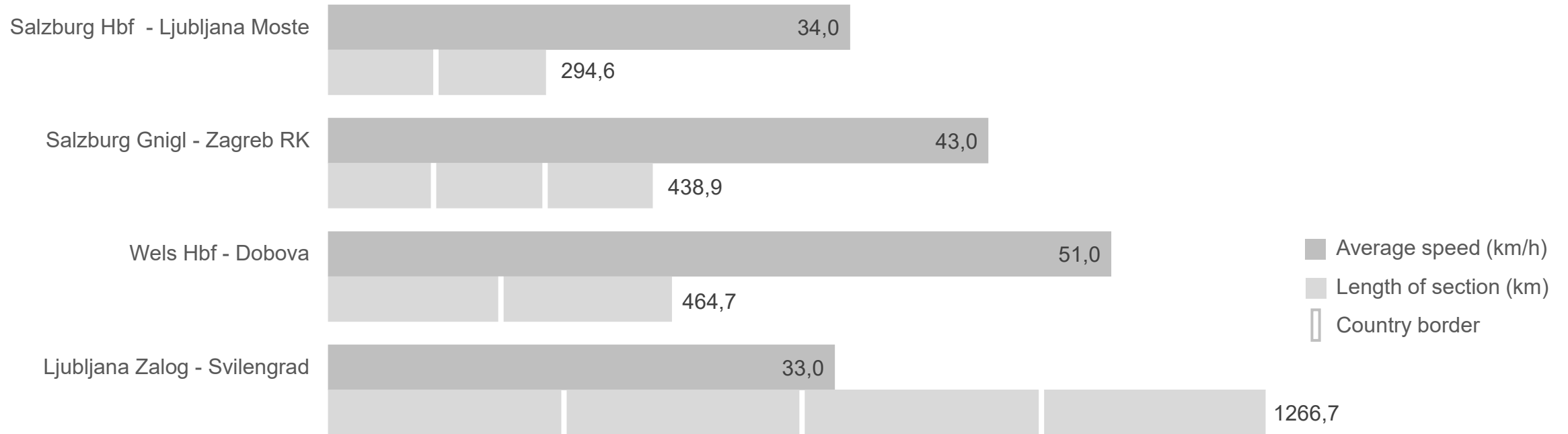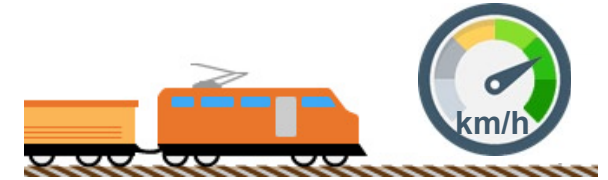| O/D pair	Average speed (km/h)	Length of section (km)
Rostock - Česká Třebová	47,5	726,4
Bremerhaven - Kúty	47,3	1051,4
Dresden - Dunajská Streda	36,3	618
Kolín - Soroksári út rendező	39,8	560,3
Wien - Curtici	32,9	472,6
Wien - Oradea	29,3	484,3
Ferencváros - Craiova via Timisoara	20,2	629,4
Ferencváros - Craiova via Simeria	19.8	641,8
Craiova - Svilengrad via Ruse	26,9	736,3
Kulata - Piraeus	33,3	648,1

- Average speed (km/h)
- Length of section (km)
- Country border

This KPI should be perceived as qualitative as journey times might include commercial and operational stops.

Commonly applicable RFC KPIs

CAPACITY MANAGEMENT

Average planned speed of PaPs for TT 2023

(calculation per O/D pairs)

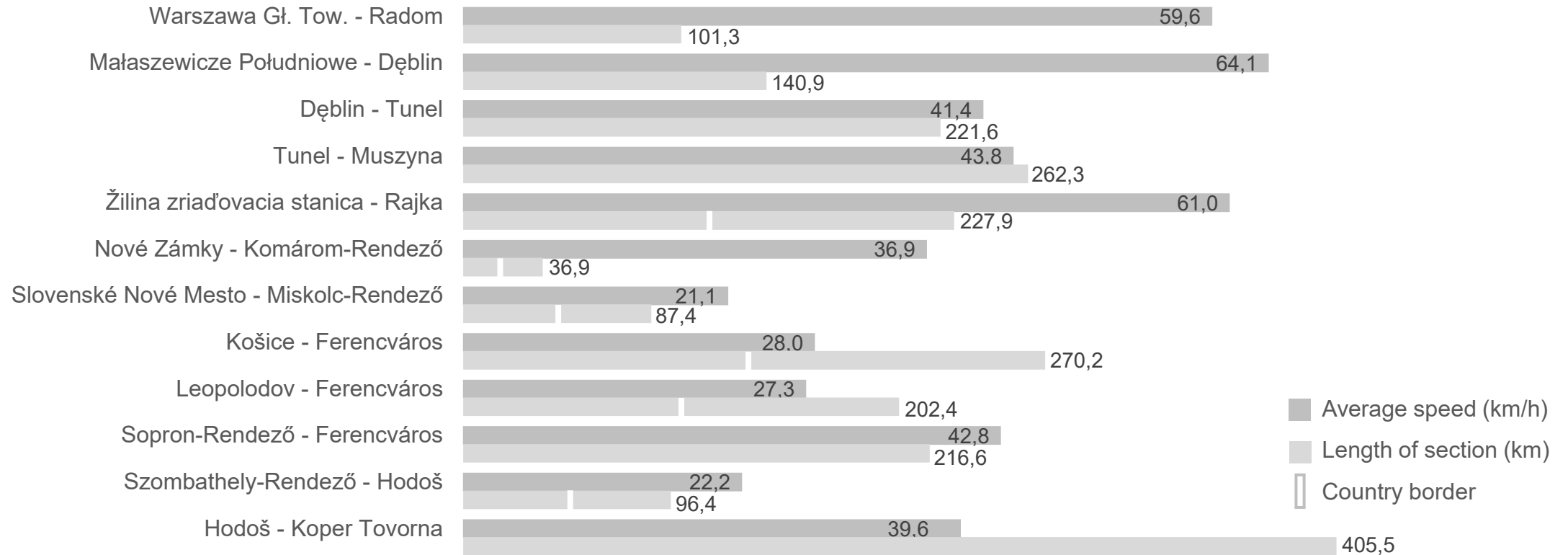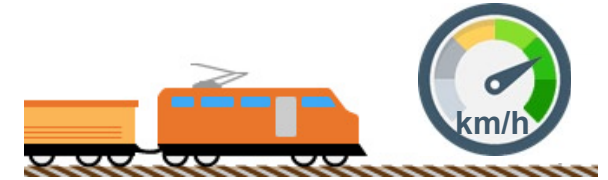| O/D pair	Average speed (km/h)	Length of section (km)
Rotterdam Maasvlakte - Praha	53.7	1079,0
Rotterdam Maasvlakte - Poznań Franowo	59,4	1041,0
Y. Dudzele - Gliwice	54.2	1368,0
Y. Bernadettestraat - Maschen	60,9	636/552
Falkenberg - Ústí nad Labem	39,9	165,0
Biederitz - Malaszewicze	46,6	884,0
Suwalki - Tallinn (Ülemiste)	22.5	882,0
Rostock Seehafen - Kolín	51,9	626,0
Bremerhaven-Speckenbüttel - Děčín	61,6	622/615
Falkenberg - Gliwice	33,8	439,0

Legend:
- Average speed (km/h)
- Length of section (km)
- Country border

This KPI should be perceived as qualitative as journey times might include commercial and operational stops.

RNE RailNetEurope — Rail Freight Corridor North Sea – Baltic

Commonly applicable RFC KPIs

CAPACITY MANAGEMENT

Average planned speed of PaPs for TT 2023

(calculation per O/D pairs)

Salzburg Hbf - Ljubljana Moste	
Average speed	34,0
Length	294,6

Salzburg Gnigl - Zagreb RK	
Average speed	43,0
Length	438,9

Wels Hbf - Dobova	
Average speed	51,0
Length	464,7

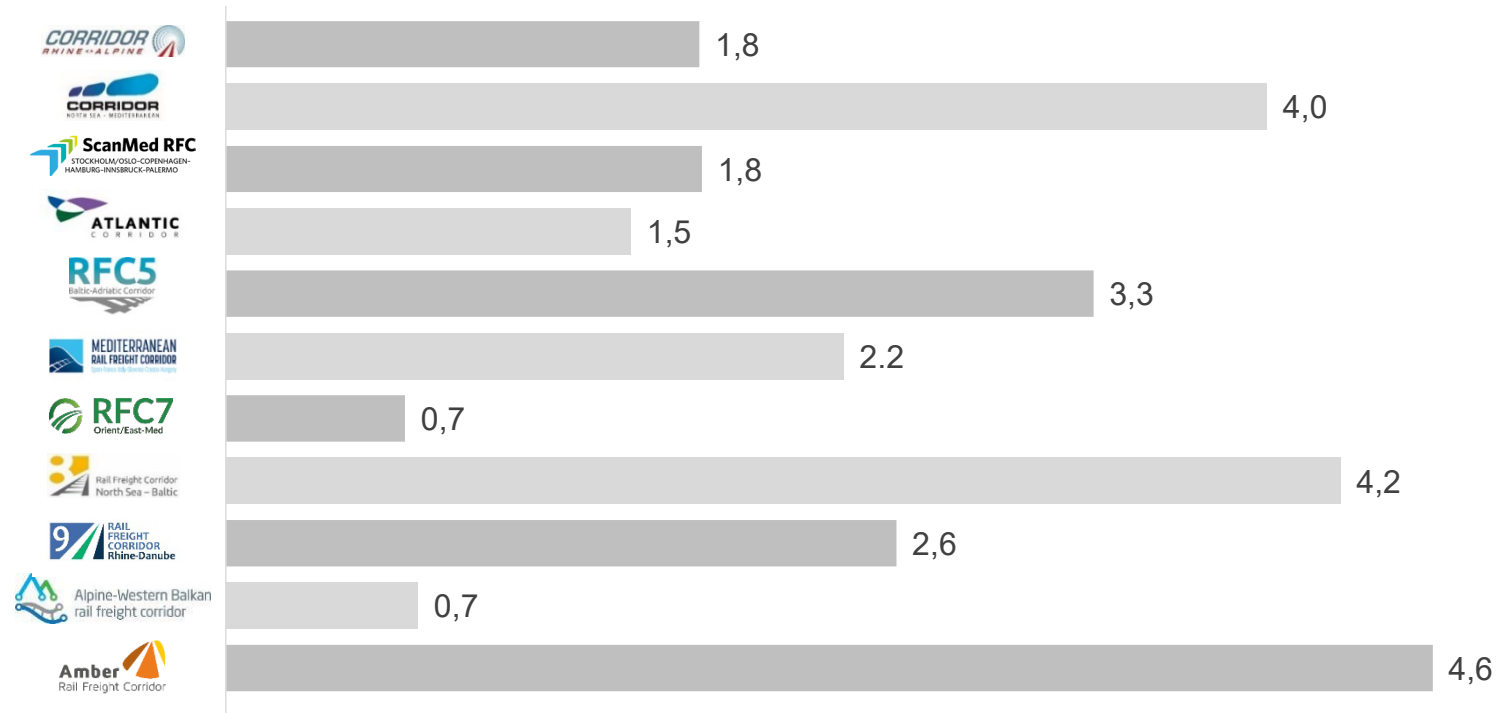| Ljubljana Zalog - Svilengrad	
Average speed	33,0
Length	1266,7

Legend:
- ▨ Average speed (km/h)
- ▨ Length of section (km)
- ▯ Country border

This KPI should be perceived as qualitative as journey times might include commercial and operational stops.

Commonly applicable RFC KPIs

CAPACITY MANAGEMENT

Average planned speed of PaPs for TT 2023

(calculation per O/D pairs)

O/D pair	Average speed (km/h)	Length of section (km)
Warszawa Gł. Tow. - Radom	59,6	101,3
Małaszewicze Południowe - Dęblin	64,1	140,9
Dęblin - Tunel	41,4	221,6
Tunel - Muszyna	43.8	262,3
Žilina zriaďovacia stanica - Rajka	61,0	227,9
Nové Zámky - Komárom-Rendező	36,9	36,9
Slovenské Nové Mesto - Miskolc-Rendező	21,1	87,4
Košice - Ferencváros	28.0	270,2
Leopolodov - Ferencváros	27,3	202,4
Sopron-Rendező - Ferencváros	42,8	216,6
Szombathely-Rendező - Hodoš	22,2	96,4
Hodoš - Koper Tovorna	39.6	405,5

Legend:
- Average speed (km/h)
- Length of section (km)
- Country border

This KPI should be perceived as qualitative as journey times might include commercial and operational stops.

Commonly applicable RFC KPIs

Volume of offered capacity – Reserve Capacity (at X-2)

(millions of path kilometers)

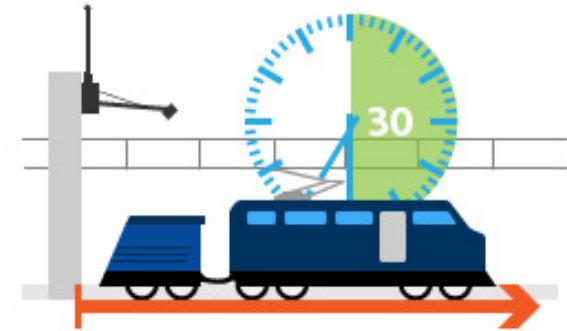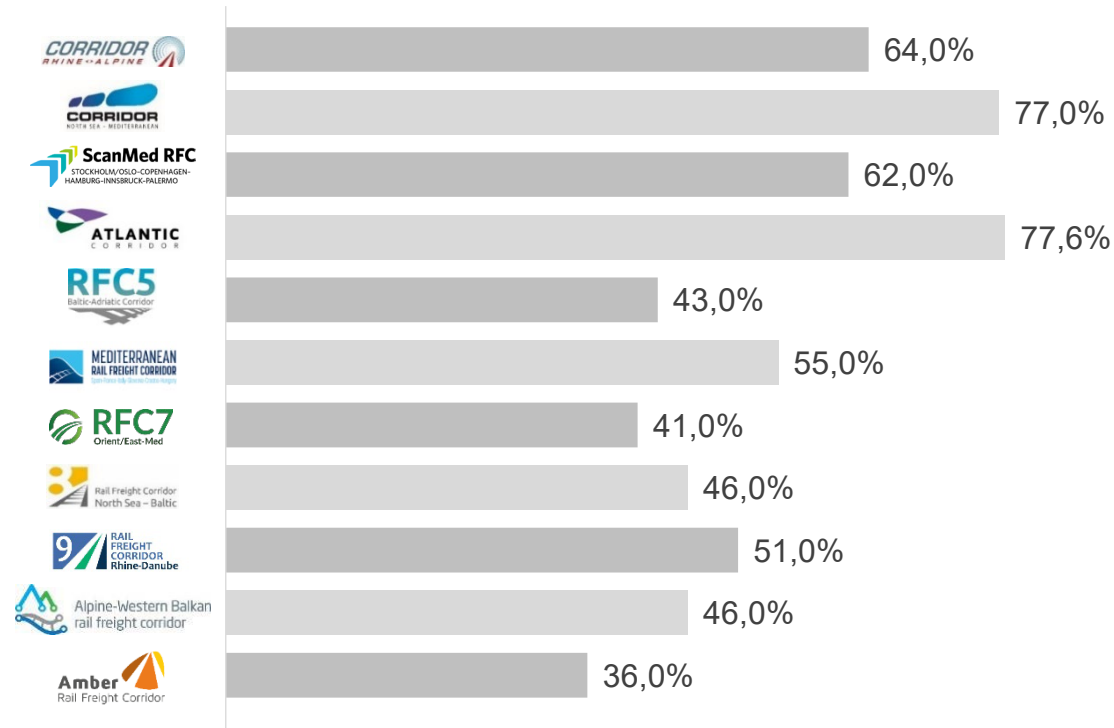| Corridor	Value
CORRIDOR RHINE-ALPINE	1,8
CORRIDOR NORTH SEA-MEDITERRANEAN	4,0
ScanMed RFC STOCKHOLM/OSLO-COPENHAGEN-HAMBURG-INNSBRUCK-PALERMO	1,8
ATLANTIC CORRIDOR	1,5
RFC5 Baltic-Adriatic Corridor	3,3
MEDITERRANEAN RAIL FREIGHT CORRIDOR	2.2
RFC7 Orient/East-Med	0,7
Rail Freight Corridor North Sea – Baltic	4,2
RAIL FREIGHT CORRIDOR Rhine-Danube	2,6
Alpine-Western Balkan rail freight corridor	0,7
Amber Rail Freight Corridor	4,6

The figures refer to the capacity which the C-OSS of the RFC concerned publishes and pre-allocates. These might therefore not reflect the total amount of offered and pre-allocated PaPs along the RFC.
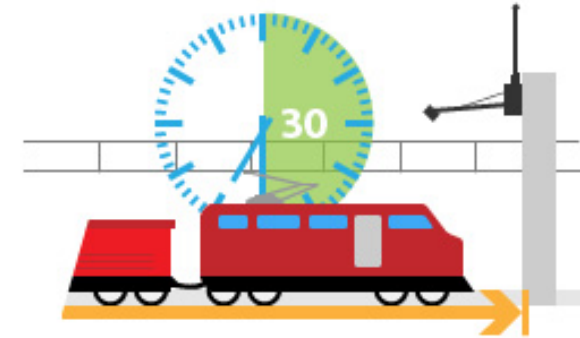
For TT 2023

Commonly applicable RFC KPIs

RNE
RailNetEurope

CAPACITY MANAGEMENT

Number of requests – Reserve Capacity (at X+12)

(number of PCS dossiers)

Corridor	Value
CORRIDOR RHINE-ALPINE	0
CORRIDOR NORTH SEA – MEDITERRANEAN	4
ScanMed RFC	2
ATLANTIC CORRIDOR	0
RFC5 Baltic-Adriatic Corridor	2
MEDITERRANEAN RAIL FREIGHT CORRIDOR	2
RFC7 Orient/East-Med	4
Rail Freight Corridor North Sea – Baltic	0
RAIL FREIGHT CORRIDOR Rhine-Danube	0
Alpine-Western Balkan rail freight corridor	0
Amber Rail Freight Corridor	2

The figures refer to the capacity which the C-OSS of the RFC concerned publishes and pre-allocates. These might therefore not reflect the total amount of offered and pre-allocated PaPs along the RFC.
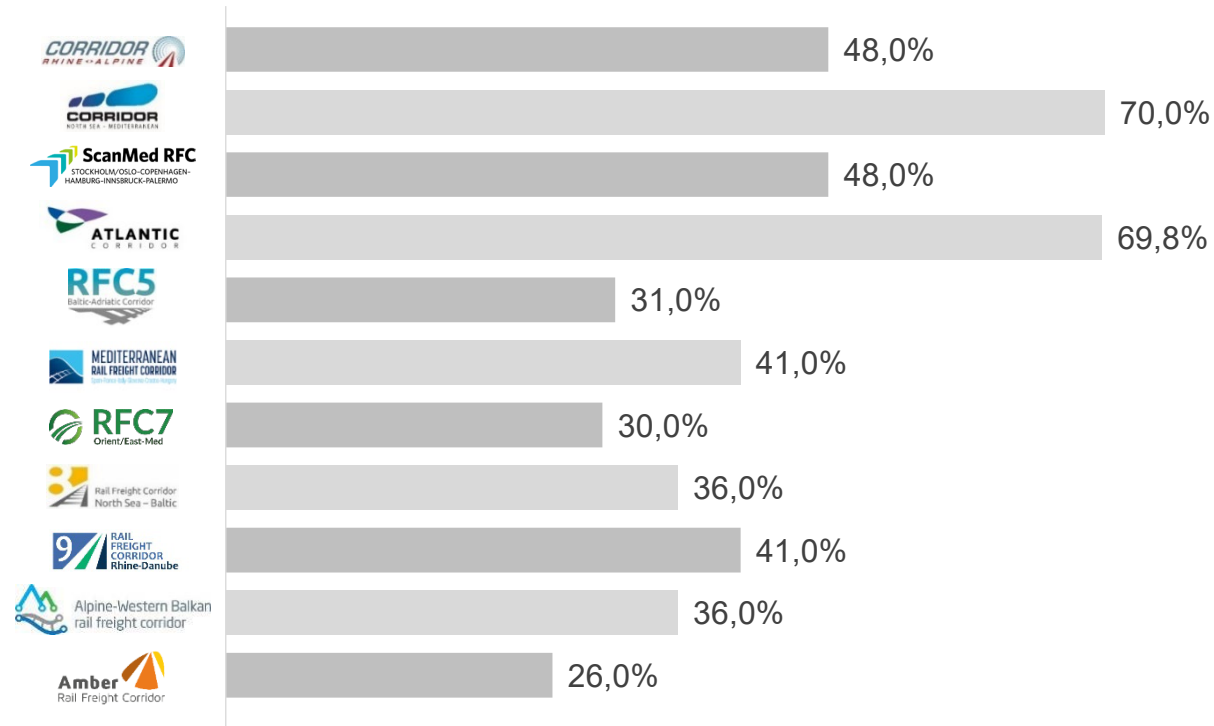
For TT 2022

Commonly applicable RFC KPIs

**Volume of requested capacity –
Reserve Capacity** (at X+12)

(millions of path kilometers)

Corridor	Value
CORRIDOR RHINE-ALPINE	0
CORRIDOR NORTH SEA - MEDITERRANEAN	0,02
ScanMed RFC STOCKHOLM/OSLO-COPENHAGEN-HAMBURG-INNSBRUCK-PALERMO	0,05
ATLANTIC CORRIDOR	0
RFC5 Baltic-Adriatic Corridor	0,01
MEDITERRANEAN RAIL FREIGHT CORRIDOR	0,02
RFC7 Orient/East-Med	0,12
Rail Freight Corridor North Sea – Baltic	0
RAIL FREIGHT CORRIDOR Rhine-Danube	0
Alpine-Western Balkan rail freight corridor	0
Amber Rail Freight Corridor	0,13

For TT 2022

**The figures refer to the capacity which the C-OSS of the RFC concerned publishes and pre-allocates.
These might therefore not reflect the total amount of offered and pre-allocated PaPs along the RFC.*

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RailNetEurope

Commonly applicable RFC KPIs
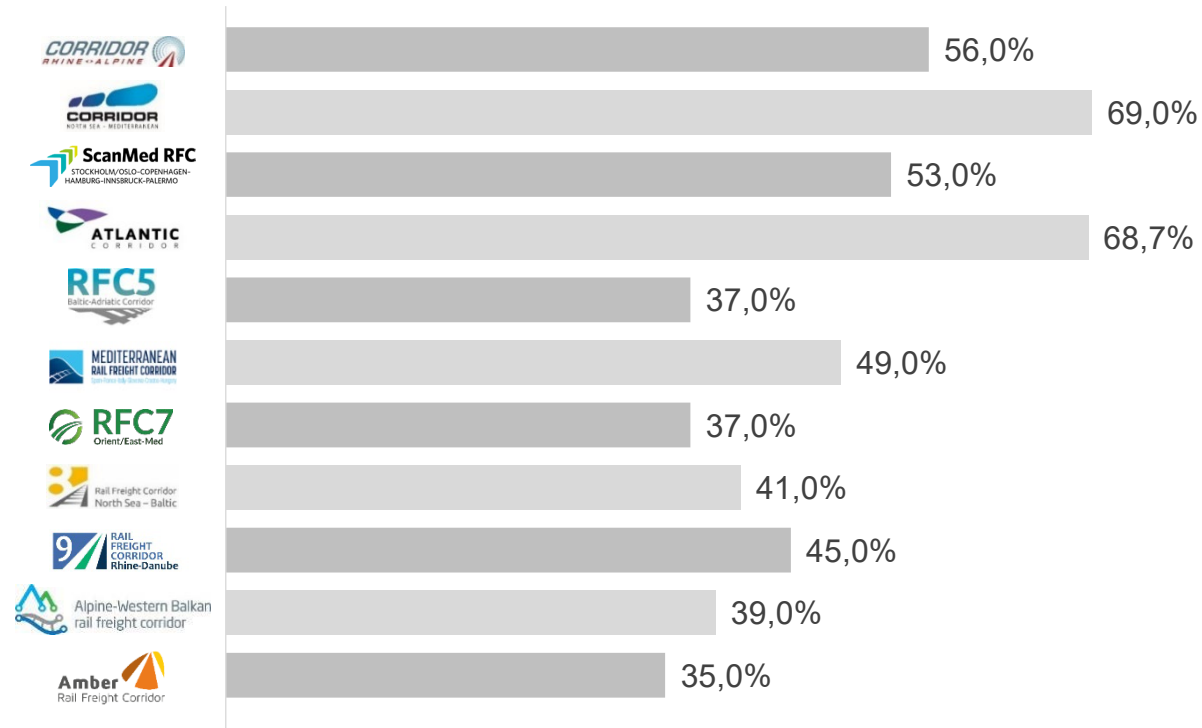
Punctuality at origin (RFC entry)

(delay ≤ 30 minutes)

Corridor	Value
CORRIDOR RHINE-ALPINE	64,0%
CORRIDOR NORTH SEA - MEDITERRANEAN	77,0%
ScanMed RFC STOCKHOLM/OSLO-COPENHAGEN-HAMBURG-INNSBRUCK-PALERMO	62,0%
ATLANTIC CORRIDOR	77,6%
RFC5 Baltic-Adriatic Corridor	43,0%
MEDITERRANEAN RAIL FREIGHT CORRIDOR	55,0%
RFC7 Orient/East-Med	41,0%
Rail Freight Corridor North Sea – Baltic	46,0%
RAIL FREIGHT CORRIDOR Rhine-Danube	51,0%
Alpine-Western Balkan rail freight corridor	46,0%
Amber Rail Freight Corridor	36,0%

Punctuality at destination (RFC exit)

(delay ≤ 30 minutes)

Corridor	Punctuality
CORRIDOR RHINE-ALPINE	48,0%
CORRIDOR NORTH SEA - MEDITERRANEAN	70,0%
ScanMed RFC (Stockholm/Oslo-Copenhagen-Hamburg-Innsbruck-Palermo)	48,0%
ATLANTIC CORRIDOR	69,8%
RFC5 Baltic-Adriatic Corridor	31,0%
MEDITERRANEAN RAIL FREIGHT CORRIDOR	41,0%
RFC7 Orient/East-Med	30,0%
Rail Freight Corridor North Sea - Baltic	36,0%
RAIL FREIGHT CORRIDOR Rhine-Danube	41,0%
Alpine-Western Balkan rail freight corridor	36,0%
Amber Rail Freight Corridor	26,0%

Punctuality at origin (RFC entry)

(delay ≤ 15 minutes)

Corridor	%
CORRIDOR Rhine-Alpine	56,0%
CORRIDOR North Sea - Mediterranean	69,0%
ScanMed RFC Stockholm/Oslo-Copenhagen-Hamburg-Innsbruck-Palermo	53,0%
ATLANTIC Corridor	68,7%
RFC5 Baltic-Adriatic Corridor	37,0%
MEDITERRANEAN Rail Freight Corridor	49,0%
RFC7 Orient/East-Med	37,0%
Rail Freight Corridor North Sea – Baltic	41,0%
Rail Freight Corridor Rhine-Danube	45,0%
Alpine-Western Balkan rail freight corridor	39,0%
Amber Rail Freight Corridor	35,0%

Punctuality at destination (RFC exit)

(delay ≤ 15 minutes)

Corridor	Punctuality
CORRIDOR RHINE-ALPINE	40,0%
CORRIDOR NORTH SEA - MEDITERRANEAN	60,0%
ScanMed RFC STOCKHOLM/OSLO-COPENHAGEN-HAMBURG-INNSBRUCK-PALERMO	41,0%
ATLANTIC CORRIDOR	61,9%
RFC5 Baltic-Adriatic Corridor	26,0%
MEDITERRANEAN RAIL FREIGHT CORRIDOR	37,0%
RFC7 Orient/East-Med	26,0%
Rail Freight Corridor North Sea – Baltic	31,0%
RAIL FREIGHT CORRIDOR Rhine-Danube	37,0%
Alpine-Western Balkan rail freight corridor	32,0%
Amber Rail Freight Corridor	24,0%

Commonly applicable RFC KPIs

OPERATIONS

Number of trains crossing a border along the RFC* 2022

Corridor	Number
CORRIDOR RHINE-ALPINE	98 372
CORRIDOR NORTH SEA – MEDITERRANEAN	32 671
ScanMed RFC STOCKHOLM/OSLO-COPENHAGEN-HAMBURG-INNSBRUCK-PALERMO	46 375
ATLANTIC CORRIDOR	16 344
RFC5 Baltic-Adriatic Corridor	84 170
MEDITERRANEAN RAIL FREIGHT CORRIDOR	24 984
RFC7 Orient/East-Med	110 622
Rail Freight Corridor North Sea – Baltic	86 080
RAIL FREIGHT CORRIDOR Rhine-Danube	94 427
Alpine-Western Balkan rail freight corridor	28 830
Amber Rail Freight Corridor	21 448

*The calculation of this KPI is based on data in RNE's TIS. International freight trains crossing a border of an RFC are considered in the calculation.

RNE RailNetEurope

Commonly applicable RFC KPIs

Train kilometers of trains crossing a border along the RFC* 2022

(millions of trains kilometers)
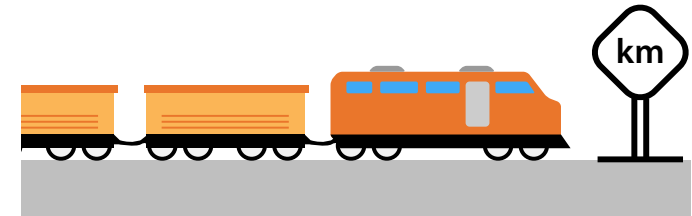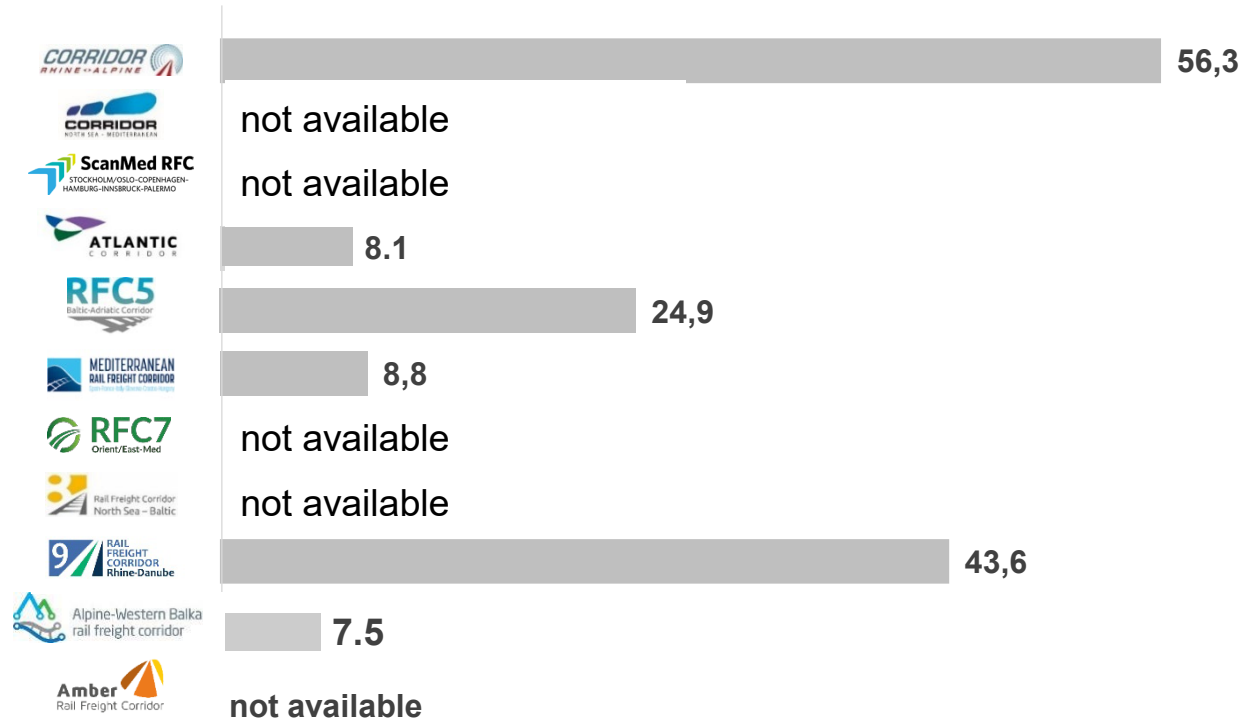
Corridor	Value
CORRIDOR Rhine–Alpine	56,3
CORRIDOR North Sea – Mediterranean	not available
ScanMed RFC Stockholm/Oslo-Copenhagen-Hamburg-Innsbruck-Palermo	not available
ATLANTIC Corridor	8.1
RFC5 Baltic-Adriatic Corridor	24,9
Mediterranean Rail Freight Corridor	8,8
RFC7 Orient/East-Med	not available
Rail Freight Corridor North Sea – Baltic	not available
Rail Freight Corridor Rhine-Danube	43,6
Alpine-Western Balkan rail freight corridor	7.5
Amber Rail Freight Corridor	not available

*The calculation of this KPI is based on data in RNE's TIS. International freight trains crossing a border of an RFC are considered in the calculation. The presented data might differ from the data gathered in the national systems due to data quality differences between individual IMs.

Dwell times in border sections (planned and actual)

2022

Border	Avg. planned dwell (min.)	Avg. real dwell (min.)
Aachen-West - Montzen	68	93
Basel Badischer Bf. - Basel SBB PB/RB	50	58
Brig - Domo II	132	128
Brig - Domodossola	47	57
Chiasso SM - Bivio PC Rosales	50	47
Emmerich - Zevenaar Oost	9	10
Kaldenkirchen - Venlo	38	42
Ranzo - S. Abbondio - Luino	29	24

*The calculation of this KPI is based on the data in RNE's TIS. International freight trains crossing a border of an RFC are considered in the calculation. The presented data might differ from the data gathered in the national systems due to data quality differences between individual IMs.

Dwell times in border sections (planned and actual)

2022

Border	Avg. planned dwell (min.)	Avg. real dwell (min.)
Elvas - Badajoz	22	21
Irun - Hendaye	36	24
Saarbrücken - Forbach	36	35
Vilar Formoso - Fuentes de Onoro	41	35

*The calculation of this KPI is based on the data in RNE's TIS. International freight trains crossing a border of an RFC are considered in the calculation. The presented data might differ from the data gathered in the national systems due to data quality differences between individual IMs.
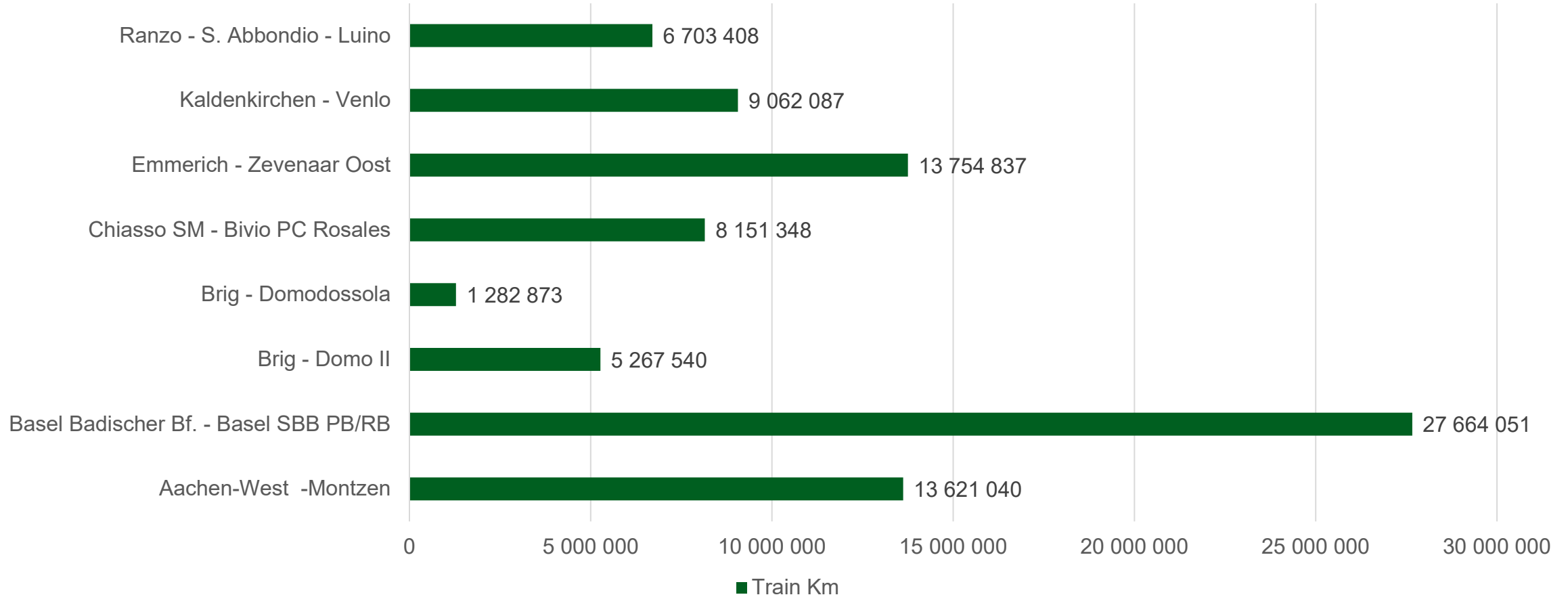
Dwell times in border sections (planned and actual)

2022

Border	Avg. planned dwell (min.)	Avg. real dwell (min.)
Bernhardsthal - Břeclav os.n.	112	142
Chałupki - Bohumín os.n.	24	9
Chałupki - Bohumín-Vrbice	132	76
Kittsee - Bratislava-Petržalka	65	103
Marchegg - Devínska Nová Ves	32	76
Międzylesie - Lichkov	52	17
Mosty u Jablunkova - Čadca	71	62
Spielfeld-Straß - Šentilj	26	35
Thörl-Maglern - Tarvisio Boscoverde	52	72
Villa Opicina - Sežana	78	125
Zebrzydowice - Petrovice u Karviné	96	99

*The calculation of this KPI is based on the data in RNE's TIS. International freight trains crossing a border of an RFC are considered in the calculation. The presented data might differ from the data gathered in the national systems due to data quality differences between individual IMs.

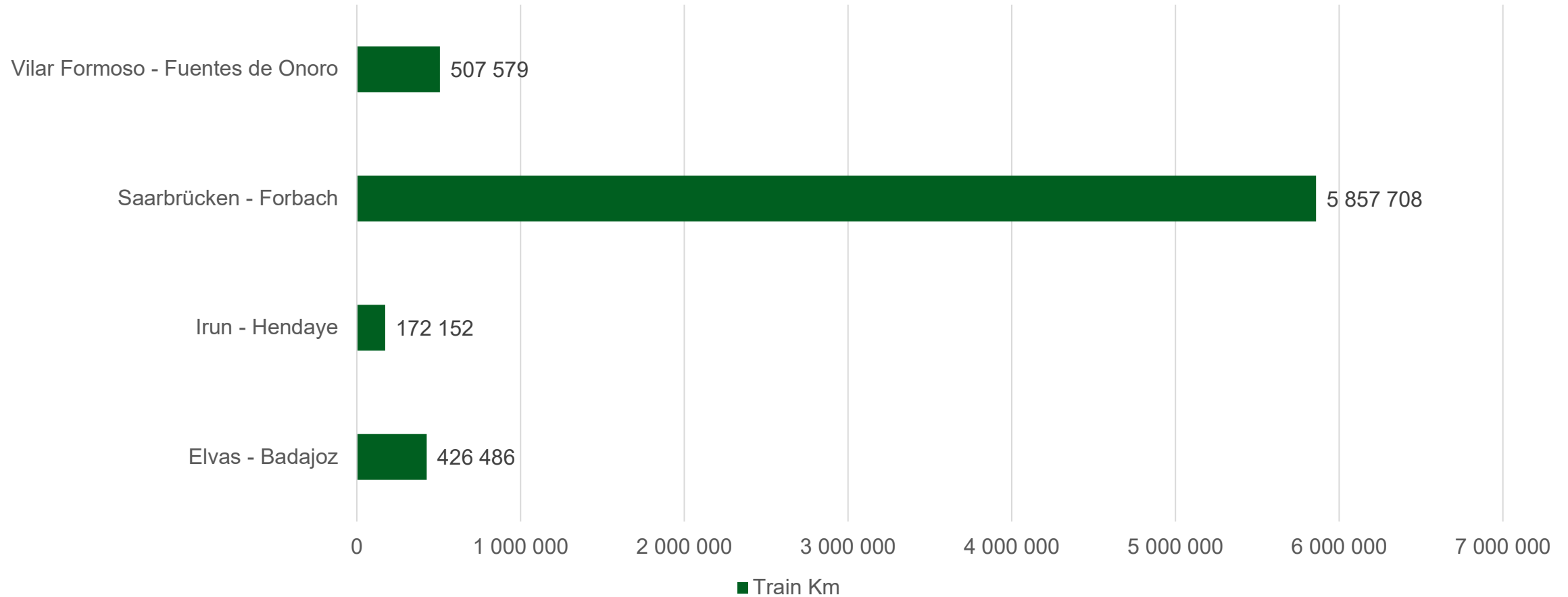**Dwell times in border sections (planned and actual)**
2022

Border	Avg. planned dwell (min.)	Avg. real dwell (min.)
Bardonecchia - Modane	4	3
Dobova - Savski Marof	133	261
Figueres Vilafant - Perpignan	7	1
Hodoš - Őriszentpéter	94	149
Koprivnica - Gyékényes	165	255
Port-Bou - Cerbère	1	2
Villa Opicina - Sežana	78	125

*The calculation of this KPI is based on the data in RNE's TIS. International freight trains crossing a border of an RFC are considered in the calculation. The presented data might differ from the data gathered in the national systems due to data quality differences between individual IMs.

OPERATIONS

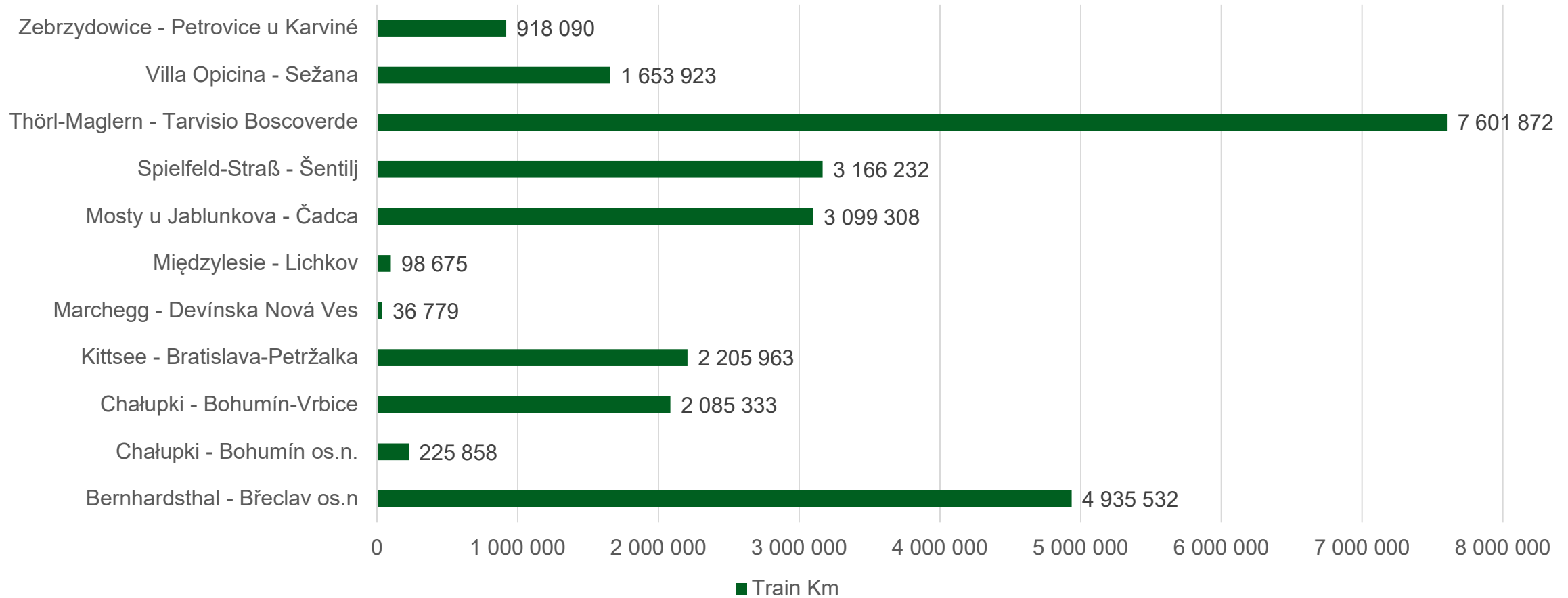**Dwell times in border sections**

2022

Border crossing point	Values to publish (minutes)
Curtici – Lőkösháza	CFR-MÁV: 973 MÁV-CFR: 274
Golenti – Vidin	CFR-NRIC: 187 NRIC-CFR: 151
Giurgiu – Ruse	CFR-NRIC: 24 NRIC-CFR: 24

*The calculation of this KPI is based on the data in RNE's TIS. International freight trains crossing a border of an RFC are considered in the calculation. The presented data might differ from the data gathered in the national systems due to data quality differences between individual IMs.

Commonly applicable RFC KPIs

Dwell times in border sections (planned and actual)

2022

Border	Avg. planned dwell (min.)	Avg. real dwell (min.)
Dobova - Savski Marof	133	261
Kalotina Zapad - Dimitrovgrad	315	610
Rosenbach - Jesenice	74	128
Spielfeld-Straß - Šentilj	28	37
Tovarnik - Šid	126	165

*The calculation of this KPI is based on the data in RNE's TIS, except for border Kalotina Zapad – Dimitrovgrad (data is obtained from national systems since Serbian IM, IŽS, does not use TIS). International freight trains crossing a border of an RFC are considered in the calculation. The presented data might differ from the data gathered in the national systems due to data quality differences between individual IMs.
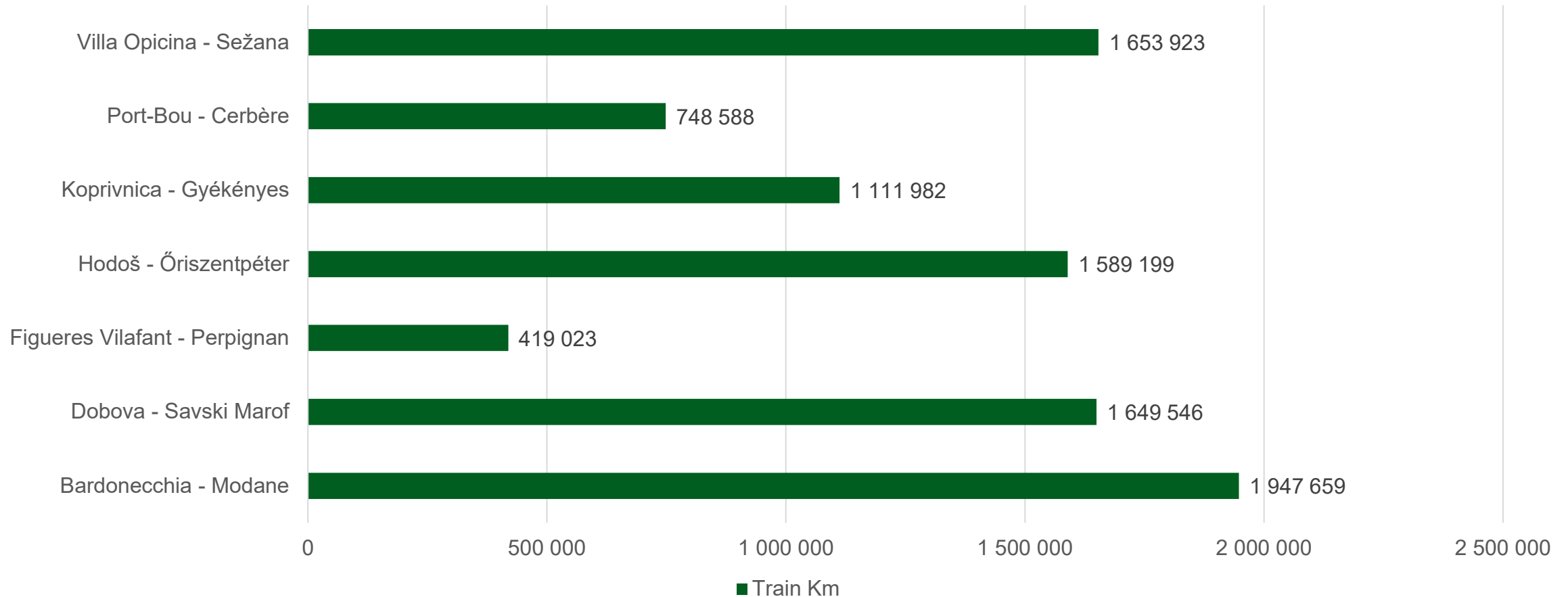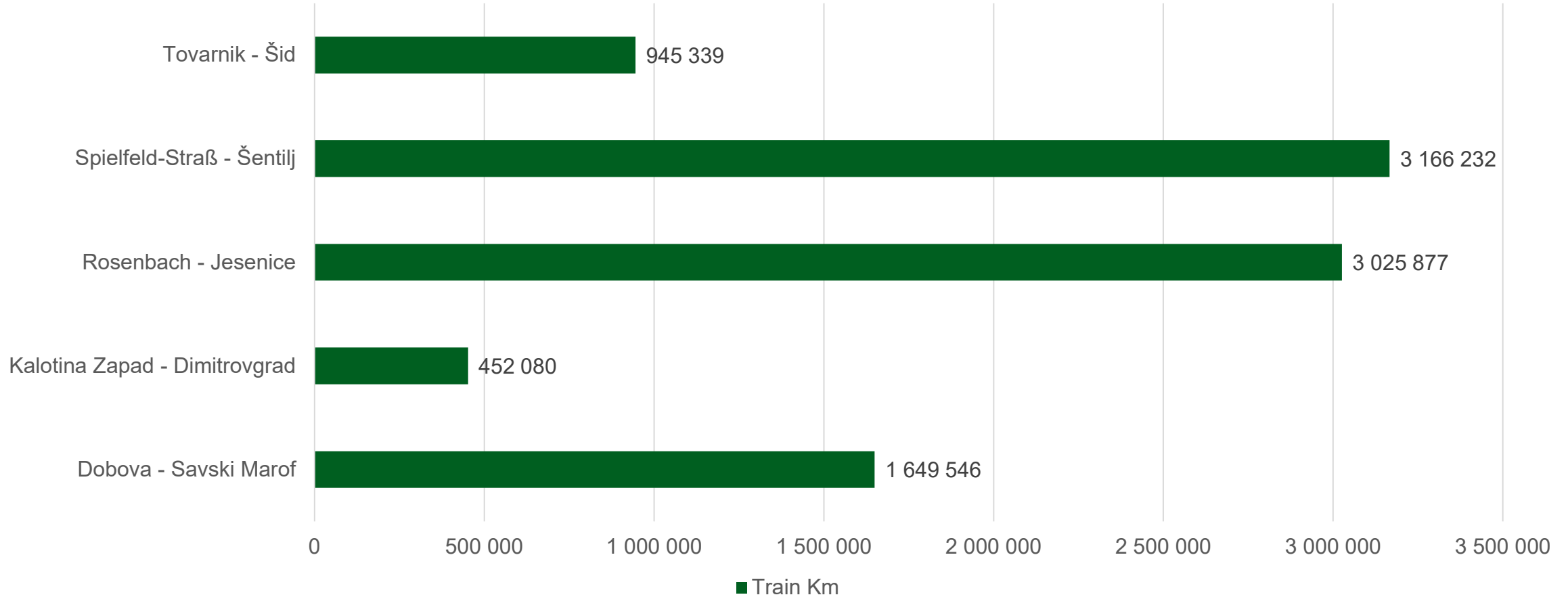
MARKET DEVELOPMENT

Train kilometers of trains per border 2022

| Border	Train Km
Ranzo - S. Abbondio - Luino	6 703 408
Kaldenkirchen - Venlo	9 062 087
Emmerich - Zevenaar Oost	13 754 837
Chiasso SM - Bivio PC Rosales	8 151 348
Brig - Domodossola	1 282 873
Brig - Domo II	5 267 540
Basel Badischer Bf. - Basel SBB PB/RB	27 664 051
Aachen-West -Montzen	13 621 040

■ Train Km

*The calculation of this KPI is based on the data in RNE's TIS. International freight trains crossing a border of an RFC are considered in the calculation. The presented data might differ from the data gathered in the national systems due to data quality differences between individual IMs.

RNE RailNetEurope CORRIDOR RHINE◇ALPINE

Commonly applicable RFC KPIs

MARKET DEVELOPMENT

Train kilometers of trains per border 2022

Border	Train Km
Zebrzydowice - Petrovice u Karviné	918 090
Villa Opicina - Sežana	1 653 923
Thörl-Maglern - Tarvisio Boscoverde	7 601 872
Spielfeld-Straß - Šentilj	3 166 232
Mosty u Jablunkova - Čadca	3 099 308
Międzylesie - Lichkov	98 675
Marchegg - Devínska Nová Ves	36 779
Kittsee - Bratislava-Petržalka	2 205 963
Chałupki - Bohumín-Vrbice	2 085 333
Chałupki - Bohumín os.n.	225 858
Bernhardsthal - Břeclav os.n	4 935 532

■ Train Km

*The calculation of this KPI is based on the data in RNE's TIS. International freight trains crossing a border of an RFC are considered in the calculation. The presented data might differ from the data gathered in the national systems due to data quality differences between individual IMs.

RNE RailNetEurope · RFC5 Baltic-Adriatic Corridor

Commonly applicable RFC KPIs

Train kilometers of trains per border 2022

Border	Train Km
Tovarnik - Šid	945 339
Spielfeld-Straß - Šentilj	3 166 232
Rosenbach - Jesenice	3 025 877
Kalotina Zapad - Dimitrovgrad	452 080
Dobova - Savski Marof	1 649 546

■ Train Km

*The calculation of this KPI is based on the data in RNE's TIS. International freight trains crossing a border of an RFC are considered in the calculation. The presented data might differ from the data gathered in the national systems due to data quality differences between individual IMs.

RNE RailNetEurope   Alpine-Western Balkan rail freight corridor

Commonly applicable RFC KPIs

MARKET DEVELOPMENT

Number of trains per border*

	2020	2021	**2022**
Total NL - DE:	43,572	46,175	**49,572**
Total BE - DE:	19,694	23,446	**21,777**
Total DE - CH:	47,387	50,005	**49,842**
Total CH - IT:	42,719	45,782	**45,960**
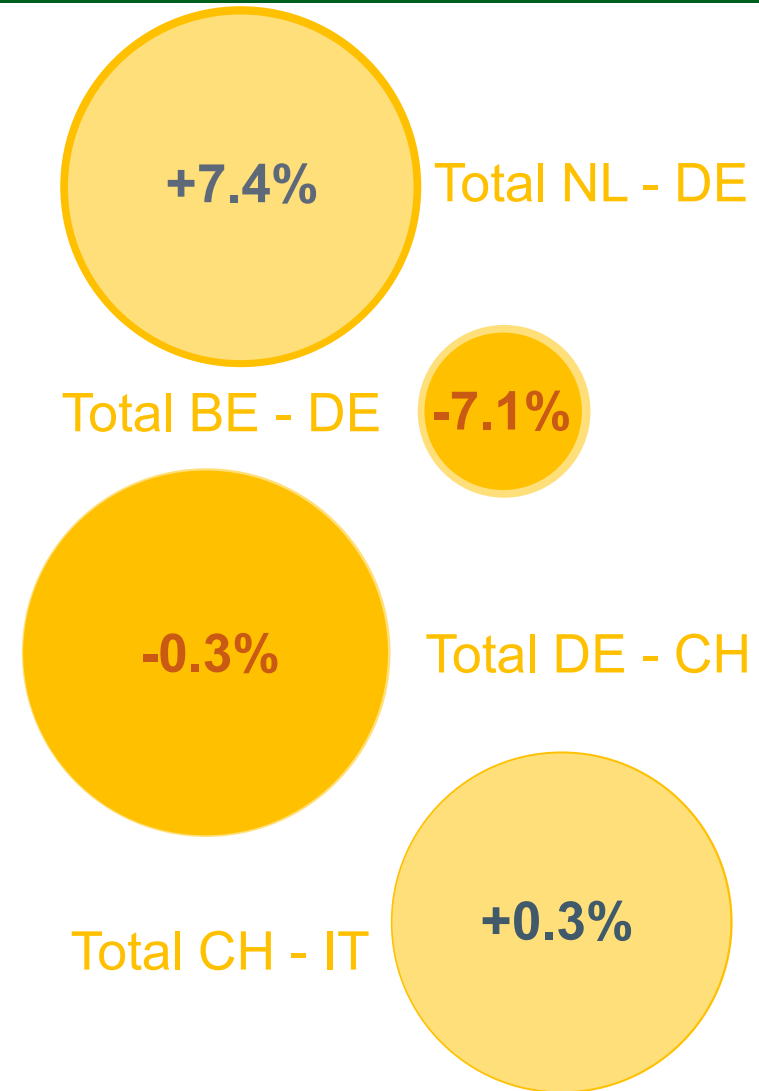
Total NL - DE **+7.4%**

Total BE - DE **-7.1%**

-0.3% Total DE - CH

Total CH - IT **+0.3%**

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

MARKET DEVELOPMENT

Number of trains per border - Part 1*

	2020	2021	**2022**
Total NL - BE:	9,402	8,518	**8,465**
Total BE - LU:	2,211	2,229	**2,063**
Total LU - FR:	5,846	5,966	**5,842**
Total BE - FR:	13,962	13,816	**11,634**

-0.6% Total NL - BE

Total BE - LU **-7.4%**

-2.1% Total LU - FR

Total BE - FR **-15.8%**

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

Number of trains per border - Part 2*

	2020	2021	**2022**
Total GB - FR:	1,945	1,902	**1,071**
Total FR - CH:	5,760	5,105	**5,642**

🟠 **-43.7%** Total GB - FR

Total FR - CH **+10.5%**
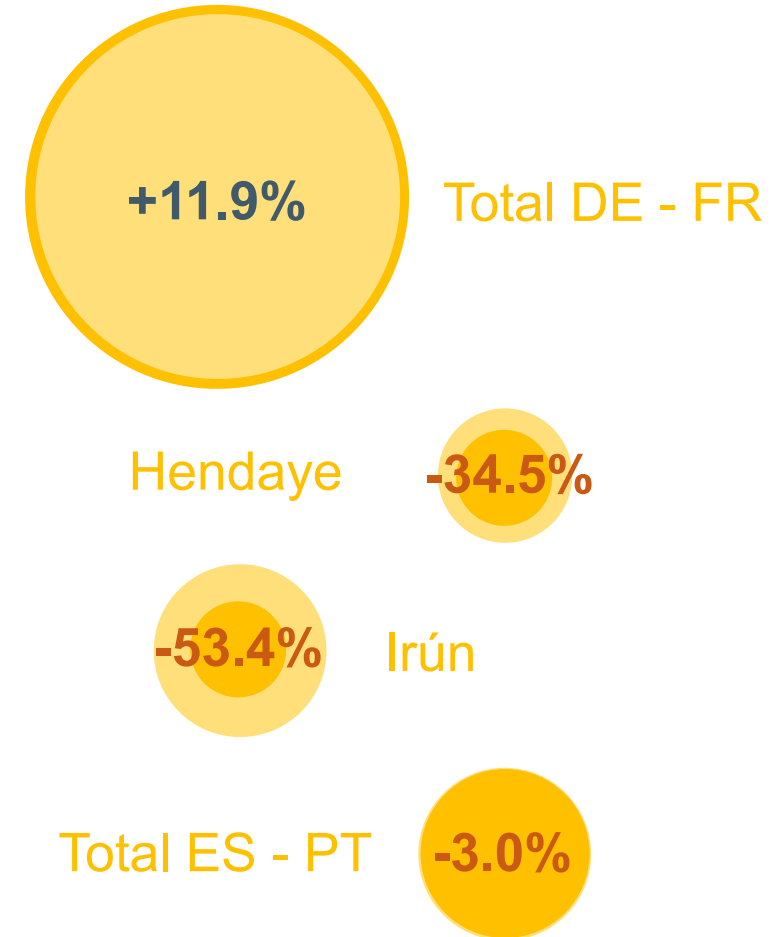
*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

RNE
RailNetEurope

CORRIDOR
NORTH SEA - MEDITERRANEAN

Commonly applicable RFC KPIs

MARKET DEVELOPMENT

Number of trains per border*

	2020	2021	**2022**
Kornsjø:	951	1,229	**1,401**
Lernacken:	7,858	6,965	**7,457**
Padborg/Flensburg:	9,434	9,116	**9,209**
Kufstein:	23,684	25,960	**24,768**
Brenner/Brennero:	18,775	19,866	**20,458**

+14.0% Kornsjø

Lernacken +7.1%

+1.0% Padborg/Flensburg
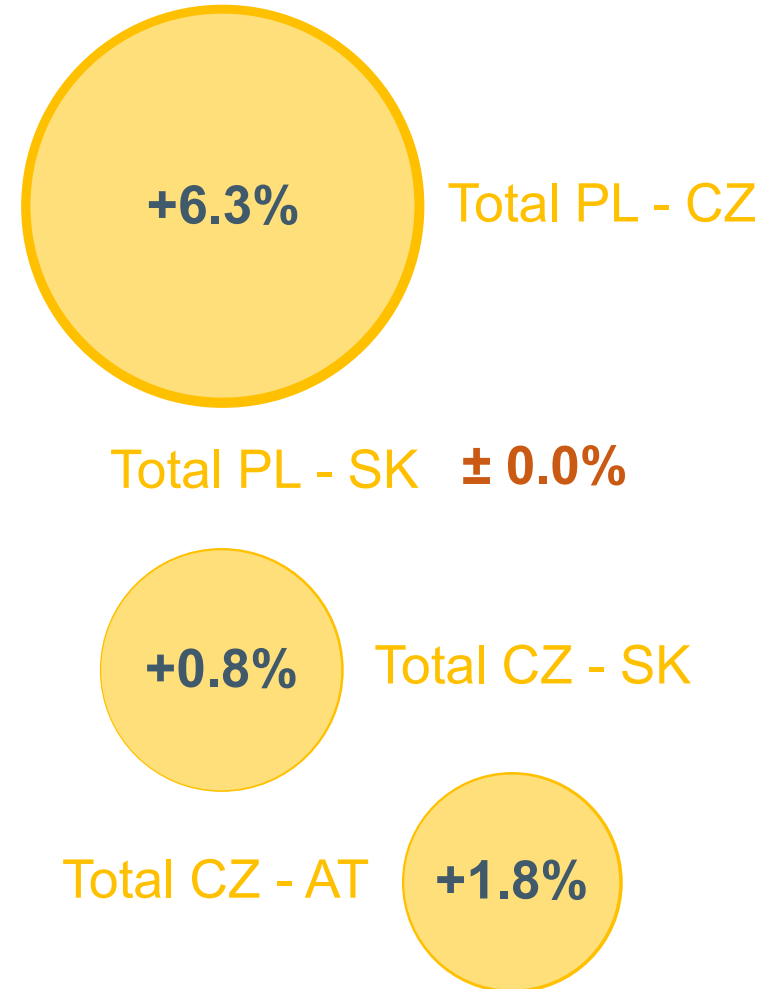
Kufstein -4.6%

+3.0% Brenner/Brennero

*The calculation of this KPI is based mainly on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

RNE RailNetEurope

ScanMed RFC STOCKHOLM/OSLO-COPENHAGEN-HAMBURG–INNSBRUCK–PALERMO

Commonly applicable RFC KPIs

MARKET DEVELOPMENT

Number of trains per border*

	2020	2021	2022
Total DE - FR:	8,857	9,759	10,919
Hendaye:	2,713	1,812	1,187
Irún:	2,732	2,465	1,135
Total ES - PT:	2,652	2,468	2,393

+11.9%   Total DE - FR

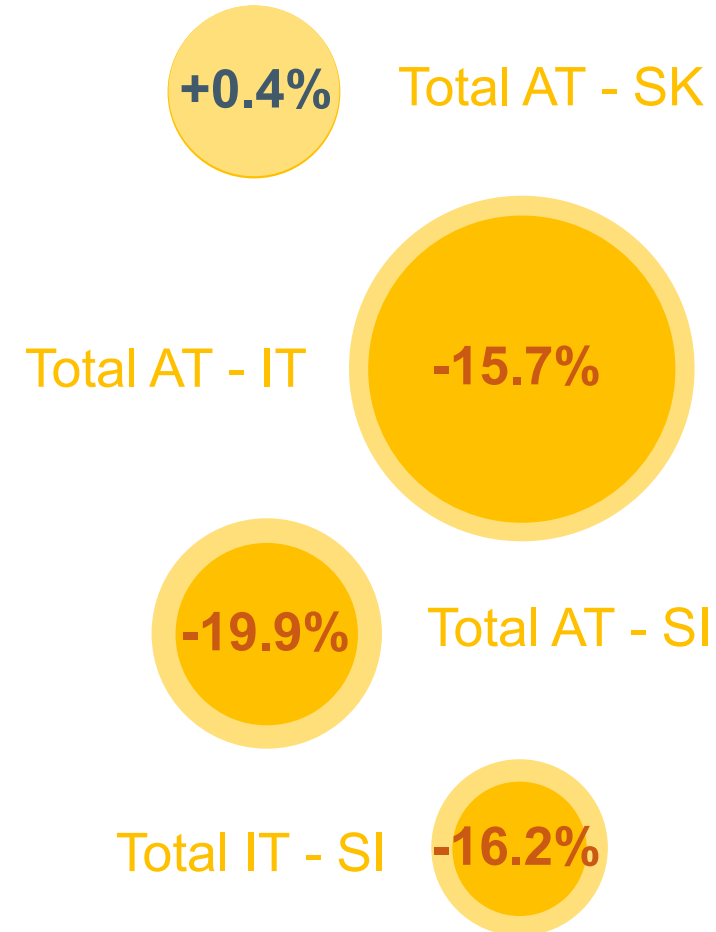Hendaye   -34.5%

-53.4%   Irún

Total ES - PT   -3.0%

*The calculation of this KPI is based mainly on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

Commonly applicable RFC KPIs

Number of trains per border - Part 1*

	2020	2021	**2022**
Total PL - CZ:	25,150	24,985	**26,557**
Total PL - SK:	0	0	**0**
Total CZ - SK:	11,451	13,418	**13,520**
Total CZ - AT:	11,395	11,816	**12,027**

+6.3% Total PL - CZ

Total PL - SK **± 0.0%**
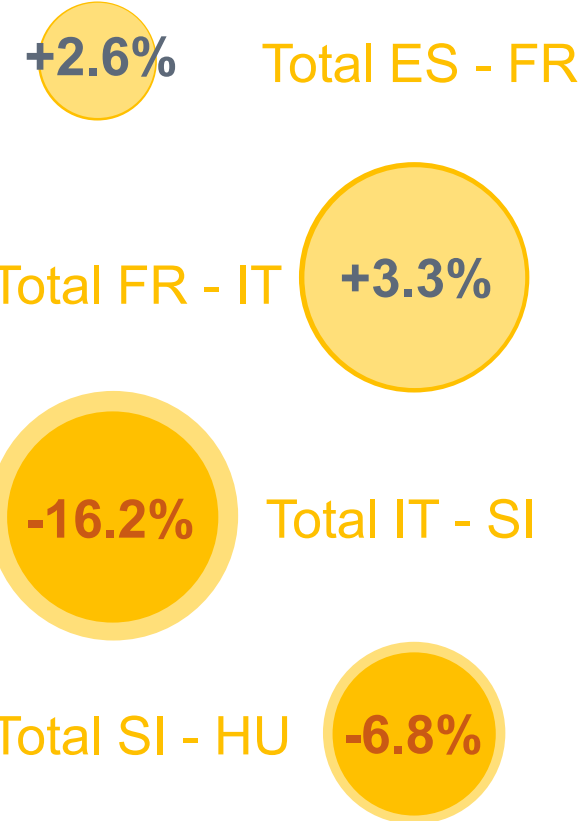
+0.8% Total CZ - SK

Total CZ - AT **+1.8%**

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

RNE RailNetEurope

RFC5 Baltic-Adriatic Corridor

Commonly applicable RFC KPIs

Number of trains per border - Part 2*

	2020	2021	**2022**
Total AT - SK:	7,744	8,714	**8,749**
Total AT - IT:	17,512	20,084	**16,926**
Total AT - SI:	8,891	11,429	**9,154**
Total IT - SI:	8,455	8,973	**7,522**

+0.4% Total AT - SK

Total AT - IT **-15.7%**

-19.9% Total AT - SI
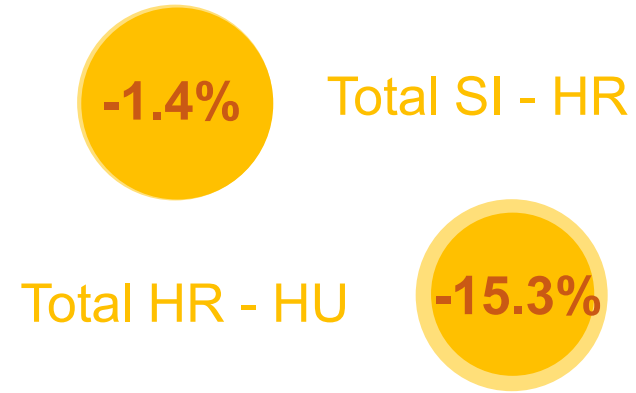
Total IT - SI **-16.2%**

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

Commonly applicable RFC KPIs

MARKET DEVELOPMENT

Number of trains per border - Part 1*

	2020	2021	**2022**
Total ES - FR:	4,778	4,562	**4,682**
Total FR - IT:	7530	8,271	**8,546**
Total IT - SI:	8,455	8,973	**7,522**
Total SI - HU:	6,097	6,755	**6,297**

+2.6% Total ES - FR

Total FR - IT **+3.3%**

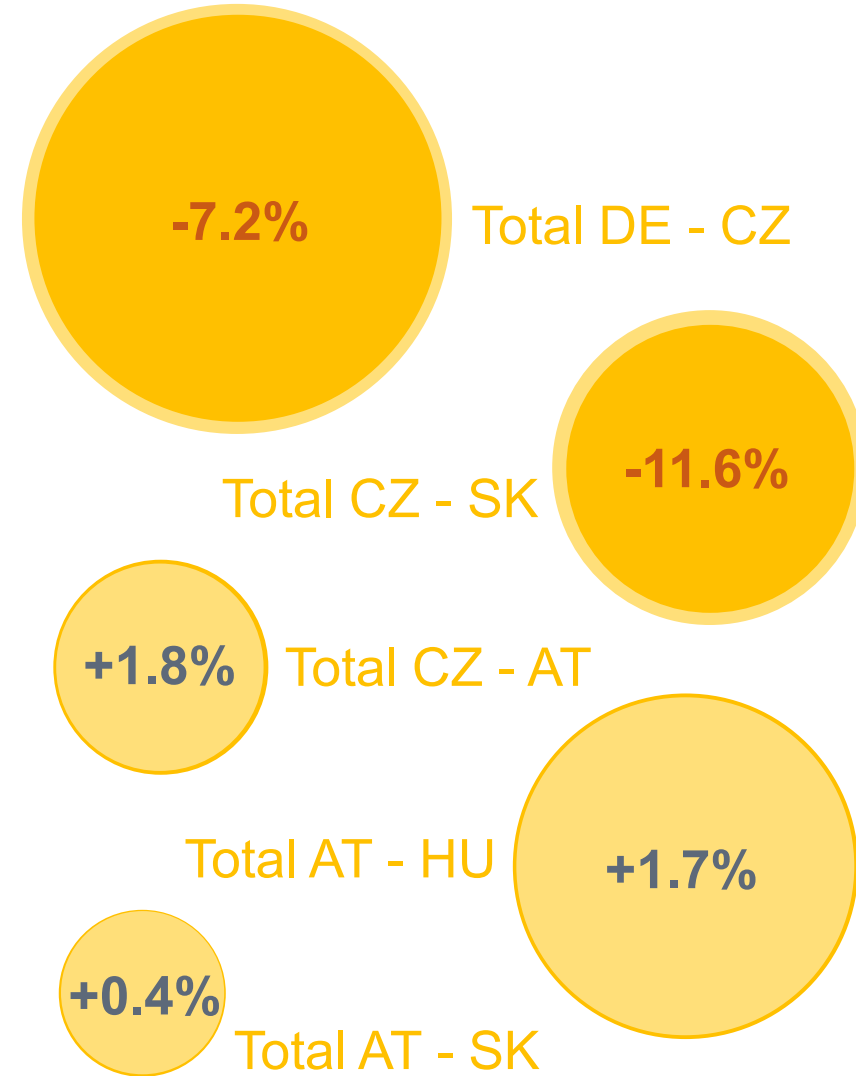**-16.2%** Total IT - SI

Total SI - HU **-6.8%**

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

Number of trains per border - Part 2*

|	2020	2021	**2022**
Total SI - HR:	7,300	7,161	**7,058**
Total HR - HU:	8,001	7,091	**6,008**

-1.4% Total SI - HR

Total HR - HU **-15.3%**

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

Commonly applicable RFC KPIs

Number of trains per border - Part 1*

	2020	2021	2022
Total DE - CZ:	30,408	28,737	**26,675**
Total CZ - SK:	18,611	18,880	**16,688**
Total CZ - AT:	11,395	11,816	**12,027**
Total AT - HU:	19,340	20,289	**20,634**
Total AT - SK:	7,744	8,714	**8,749**

-7.2% Total DE - CZ

-11.6% Total CZ - SK

+1.8% Total CZ - AT

Total AT - HU +1.7%

+0.4% Total AT - SK

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

MARKET DEVELOPMENT

Number of trains per border - Part 2*

	2020	2021	**2022**
Total SK - HU:	17,161	18,203	**16,759**
Total HU - RO:	11,302	11,893	**10,904**
Total RO - BG:	3,606	3,750	**4,269**
Total BG - GR:	212	396	**454**
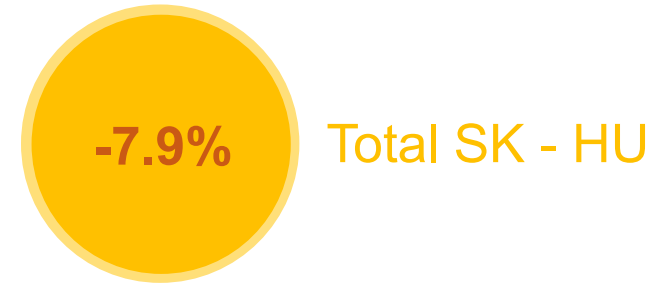
-7.9% Total SK - HU

Total HU - RO **-8.3%**
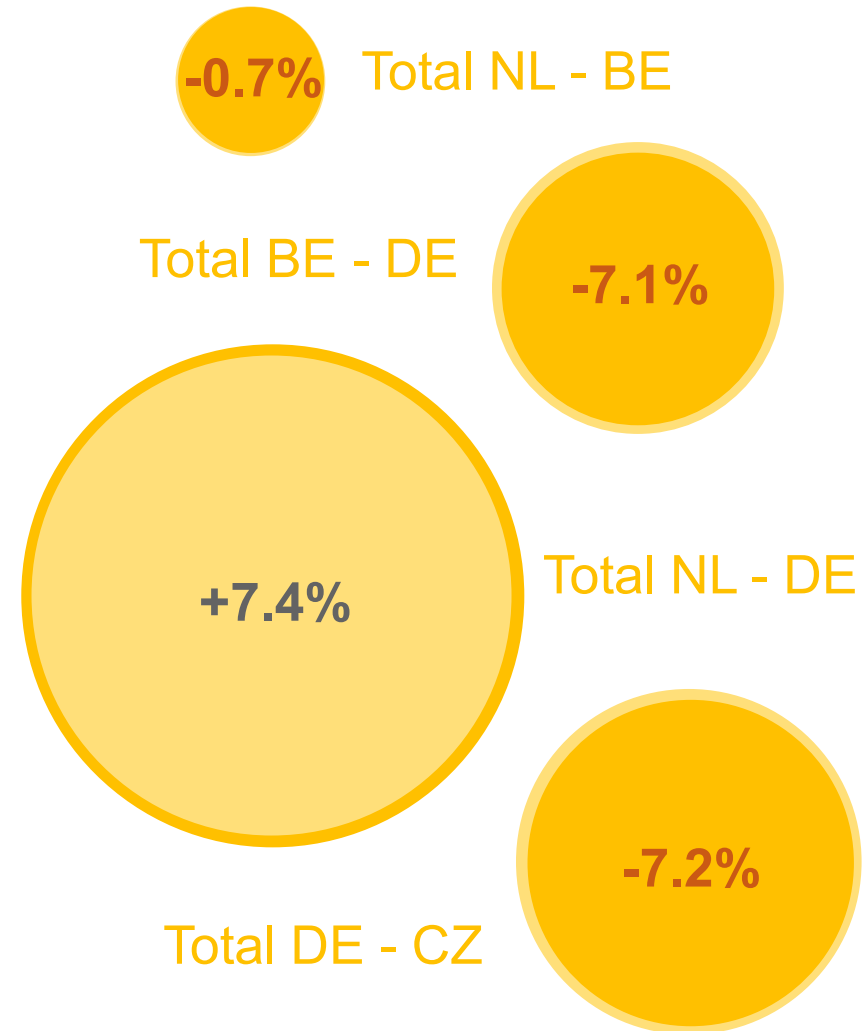
+13.8% Total BG - RO

Total BG - GR **+14.6%**

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

MARKET DEVELOPMENT

Number of trains per border - Part 1*

	2020	2021	**2022**
Total NL - BE:	9,400	8,523	**8,465**
Total BE - DE:	19,694	23,446	**21,777**
Total NL - DE:	43,546	46,175	**49,572**
Total DE - CZ:	30,408	28,737	**26,675**

-0.7% Total NL - BE

Total BE - DE   -7.1%

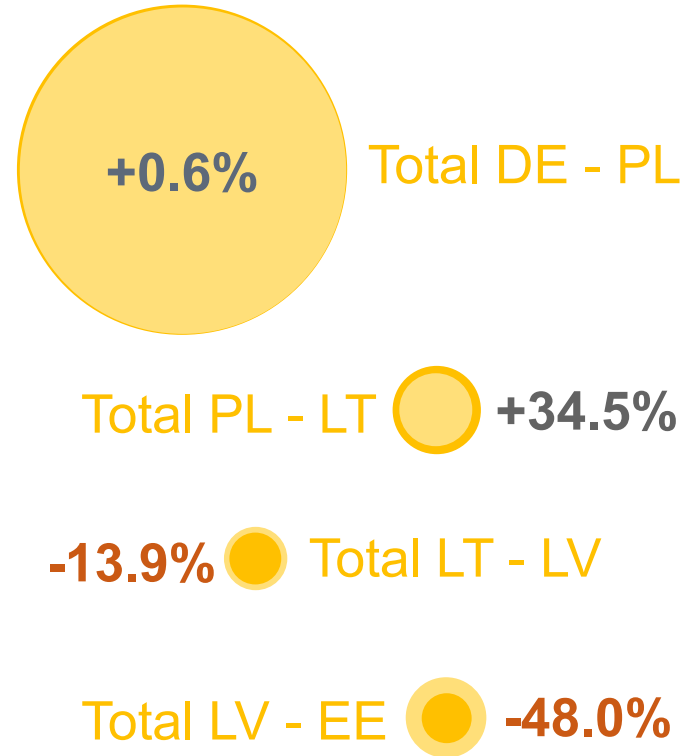+7.4%   Total NL - DE

Total DE - CZ   -7.2%

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

RNE RailNetEurope

Rail Freight Corridor North Sea – Baltic

Commonly applicable RFC KPIs

Number of trains per border - Part 2*

	2020	2021	**2022**
Total DE - PL:	23,052	27,355	**27,528**
Total PL - LT:	768	1,239	**1,666**
Total LT - LV:	N/A	1,035	**891**
Total LV - EE:	N/A	1,597	**830**

+0.6% Total DE - PL

Total PL - LT **+34.5%**

-13.9% Total LT - LV

Total LV - EE **-48.0%**

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

RNE RailNetEurope

Rail Freight Corridor North Sea – Baltic

Commonly applicable RFC KPIs

MARKET DEVELOPMENT

Number of trains per border - Part 1*

	2020	2021	**2022**
Total FR - DE:	N/A	2,278	**1,951**
Total DE - CZ:	N/A	2,375	**3,053**
Total CZ - SK:	13,409	14,465	**14,270**
Total DE - AT:	N/A	41,158	**52,276**

-14.4% Total FR - DE

Total DE - CZ **+28.5%**
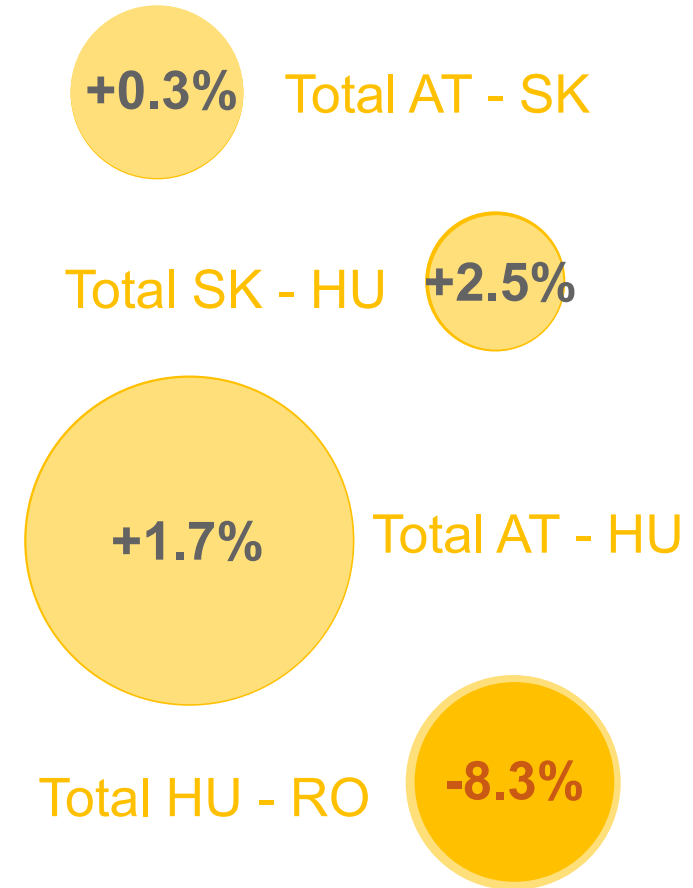
-1.3% Total CZ - SK

Total DE - AT **+27.0%**

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

RNE RailNetEurope

9 RAIL FREIGHT CORRIDOR Rhine-Danube

Commonly applicable RFC KPIs

Number of trains per border - Part 2*

	2020	2021	**2022**
Total AT - SK:	N/A	8,582	**8,604**
Total SK - HU:	N/A	5,295	**5,426**
Total AT - HU:	N/A	20,289	**20,634**
Total HU - RO:	N/A	11,893	**10,904**

+0.3% Total AT - SK

Total SK - HU **+2.5%**
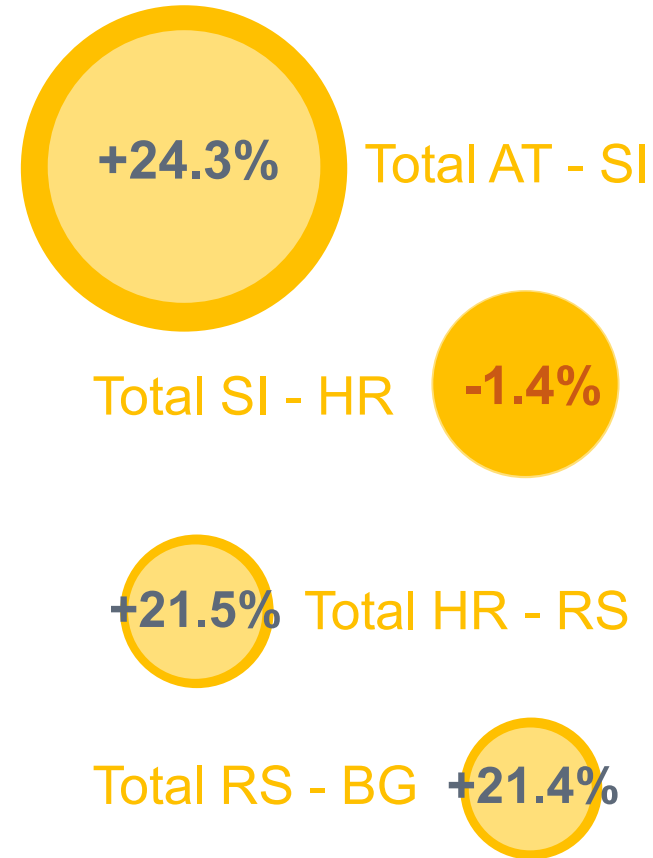
+1.7% Total AT - HU

Total HU - RO **-8.3%**

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

RNE RailNetEurope

RAIL FREIGHT CORRIDOR Rhine-Danube

Commonly applicable RFC KPIs

Number of trains per border*

	2020	2021	**2022**
Total AT - SI:	15,316	14,718	**18,296**
Total SI - HR:	7,300	7,161	**7,058**
Total HR - RS:	3,848	3,816	**4,638**
Total RS - BG:	3,274	3,368	**4,090**

+24.3% Total AT - SI

Total SI - HR **-1.4%**

+21.5% Total HR - RS

Total RS - BG **+21.4%**

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

Number of trains per border*

	2020	2021	**2022**
Total PL - SK:	1,884	2,004	**1,972**
Total SK - HU:	19,926	21,880	**20,301**
Total HU - SI:	6,097	6,755	**6,297**

-1.6% Total PL - SK

Total SK- HU   **-7.2%**

-8.8% Total HU - SI

*The calculation of this KPI is based on data in IMs' systems. The total sum of the figures per border does not correspond to the figure of the KPI 'Overall number of trains on the RFC' due to, among other reasons, the potential double-counting of trains crossing more than one border.

RNE RailNetEurope

Amber Rail Freight Corridor

» The KPIs reflect the performance of each individual RFC, therefore, when comparing the figures of various RFCs, the specificities of each one have to be considered. Each RFC may apply any additional KPIs, which are published in their annual reports on their websites and/or in the Customer Information Platform (CIP), where applicable.

» Please refer to the annual reports of individual RFCs for comprehensive information concerning the figures and their analysis. In addition, you can find the description of each commonly applicable KPI in the RNE 'Guidelines for Key Performance Indicators of Rail Freight Corridors'.