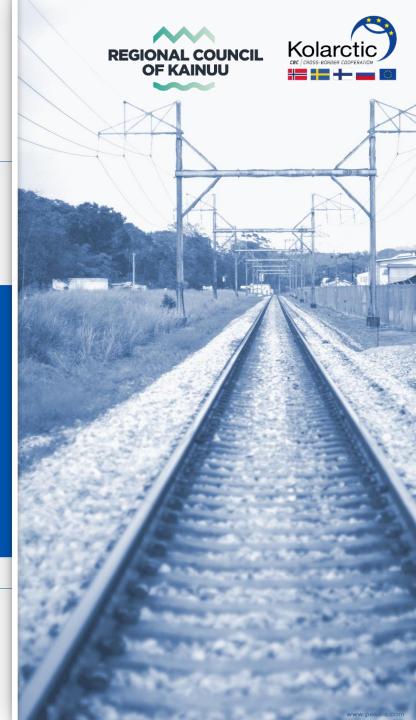


NORTHERN AXIS – BARENTS LINK KO 4159 (NABL) PROJECT IMPLEMENTATION UNDER KOLARCTIC 2014-2020 CBC PROGRAM

# Impact of Russian Railway Projects on the Transport System of the Barents Region

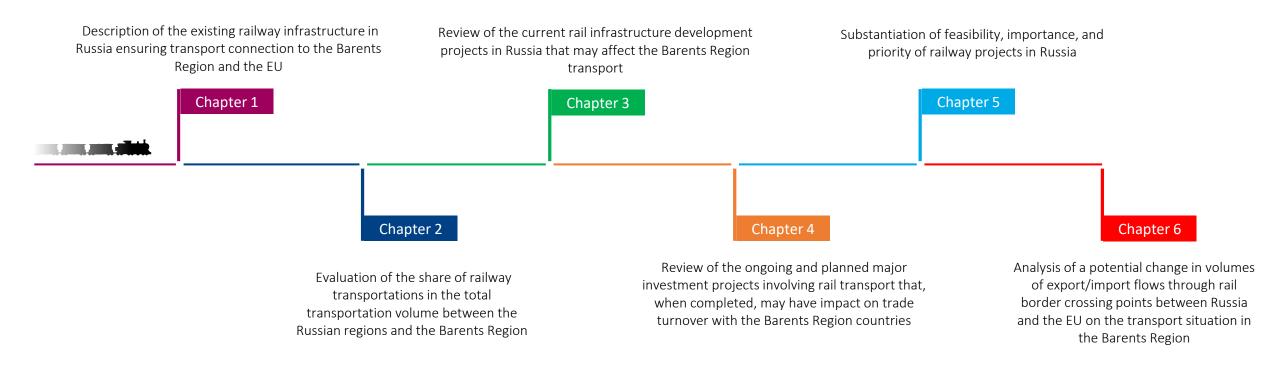








# **Study Chapters**







# **Information Sources**

# Information sources:

	By Type Inquiries			Public sources						
	By Level	Data from the governments of constituent entities of the Russian Federation  Russian regions being part of the Barents		Data from the territorial agencies of federal authorities and federal services of the Russian Federation		ties of federal authorities and federal services		priva	Data from private companies	
•		Region, and constituent entities having high investment attractiveness		The data applies to the group of regions on a territorial basis				Russian Railways		
	By Institution	Transport authorities	Rail transport authoritic and their agencies	Russian border crossir points development authorities		ustoms uthorities	State Border Service departments	Statistics Service departments	Economic development agencies	





#### Public Sources of Information

- Official website of the Federal State Statistics Service (Rosstat) <a href="https://rosstat.gov.ru/">https://rosstat.gov.ru/</a>
  and websites of Rosstat departments in the constituent entities of the Russian
  Federation
- Website of the Unified Interdepartmental Statistical Information System (UISIS) https://www.fedstat.ru/
- Website of the Ministry of Transport of the Russian Federation https://mintrans.gov.ru/
- Website of the Federal Agency for Railway Transport (Roszheldor) http://www.rlw.gov.ru/
- Website of JSC Russian Railways <a href="https://www.rzd.ru">https://www.rzd.ru</a> the official online representation of the company
- Website of the Federal State Directorate for Construction and Operation of the Russian Border Facilities (FGKU Rosgranstroy) <a href="https://www.rosgranstroy.ru/">https://www.rosgranstroy.ru/</a>
- Website of the Federal Customs Service <a href="https://customs.gov.ru/">https://customs.gov.ru/</a> including its section Customs Statistics on Foreign Trade of the Russian Federation <a href="http://stat.customs.ru/">http://stat.customs.ru/</a>
- Official website of the State Customer Directorate for Implementation of the Transport System Modernization Program http://ppp-transport.ru/ru/fcp/otchety

- Portal of State Programs of the Russian Federation <a href="https://programs.gov.ru/opendata/">https://programs.gov.ru/opendata/</a>
- Official websites of the Governments' Offices of the RF constituent entities
- Information portal of Railway Transportation <a href="https://cargo-report.info/">https://cargo-report.info/</a>
- Database of the studies posted on the Barents Region website <a href="https://www.barentsinfo.fi/beac/document\_database/wg\_documents.aspx?ID=4">https://www.barentsinfo.fi/beac/document\_database/wg\_documents.aspx?ID=4</a>
- Official website of the United Nations Economic Commission for Europe (UNECE)
- Official website of the European Commission <a href="https://ec.europa.eu/transport/themes/infrastructure/about-ten-t\_en">https://ec.europa.eu/transport/themes/infrastructure/about-ten-t\_en</a>
- Website of the World Bank
- Website of the European Union Statistics Service (Eurostat) https://ec.europa.eu/eurostat
- Website of the Finnish Customs <a href="https://tulli.fi/en/statistics">https://tulli.fi/en/statistics</a>
- Website of the Norwegian Customs <a href="https://data.toll.no/dataset">https://data.toll.no/dataset</a>







# Inquiries

- 1. Ministry of Arctic and Economic Development of Murmansk Region
- 2. Ministry of Economic Development, Industry and Science of Arkhangelsk Region
- 3. Department of Finance and Economics of the Nenets Autonomous District
- 4. Komi Ministry of economic development and industries
- 5. Karelia Ministry of economic development and industries
- 6. Ministry of Economic Development of the Russian Federation
- 7. Oktyabrskaya (October) Railway, JSC Russian Railways branch
- 8. Severnaya (Northern) Railway, JSC Russian Railways branch
- 9. Northwest Territorial Directorate of the Federal Agency for Railway Transport
- 10. Vyborg Customs of the Northwest Customs Directorate
- 11. Baltic Customs of the Northwest Customs Directorate
- 12. Karelia Customs of the Northwest Customs Directorate
- 13. Murmansk Customs of the North-West Customs Directorate

- 14. St. Petersburg Branch of FGKU Rosgranstroy
- 15. Murmansk Branch of FGKU Rosgranstroy
- 16. Infrastructure Development Directorate of the Ministry of Transport of the Russian Federation
- 17. Ministry of Transport of the Russian Federation
- State Customer Directorate for Implementation of Transport Infrastructure Complex Development Projects (FKU Rostransmodernizatsiya)
- Directorate for Construction and Operation of the Russian Border Facilities (FGKU Rosgranstroy)
- JSC Russian Railways Directorate of Foreign Projects and International Relationships
- 21. Border Service of the Republic of Karelia
- 22. Border Service of St. Petersburg and Leningrad Region
- 23. Institute of Transport Economics and Development





# Chapter 1

Description of the existing railway infrastructure in Russia ensuring transport connection to the Barents Region and the EU

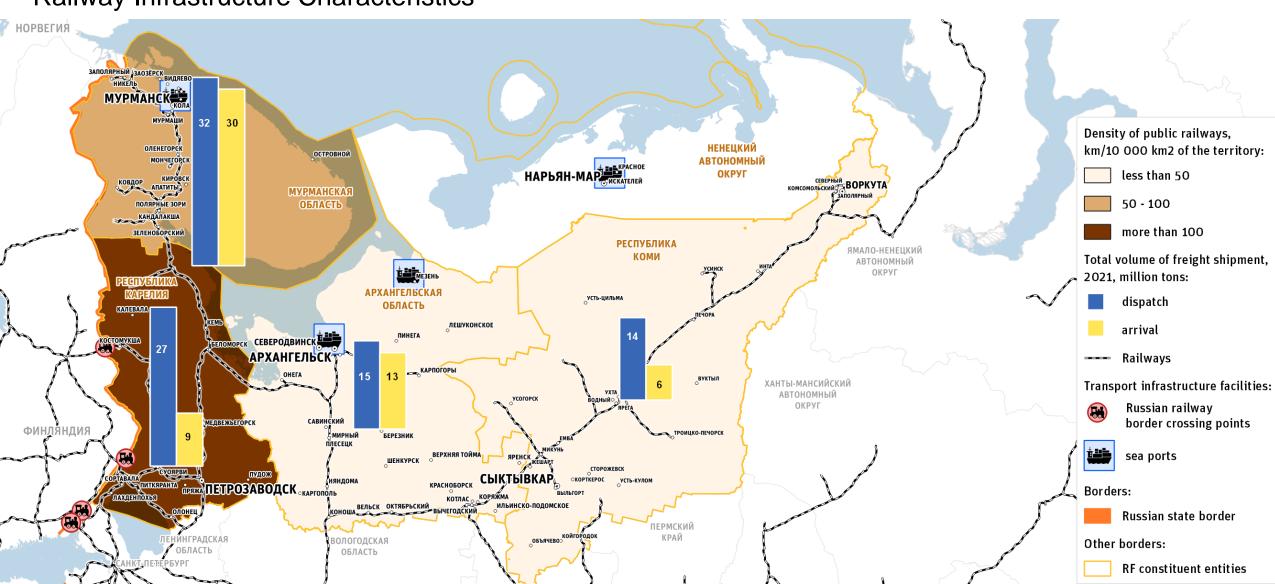








# Railway Infrastructure Characteristics

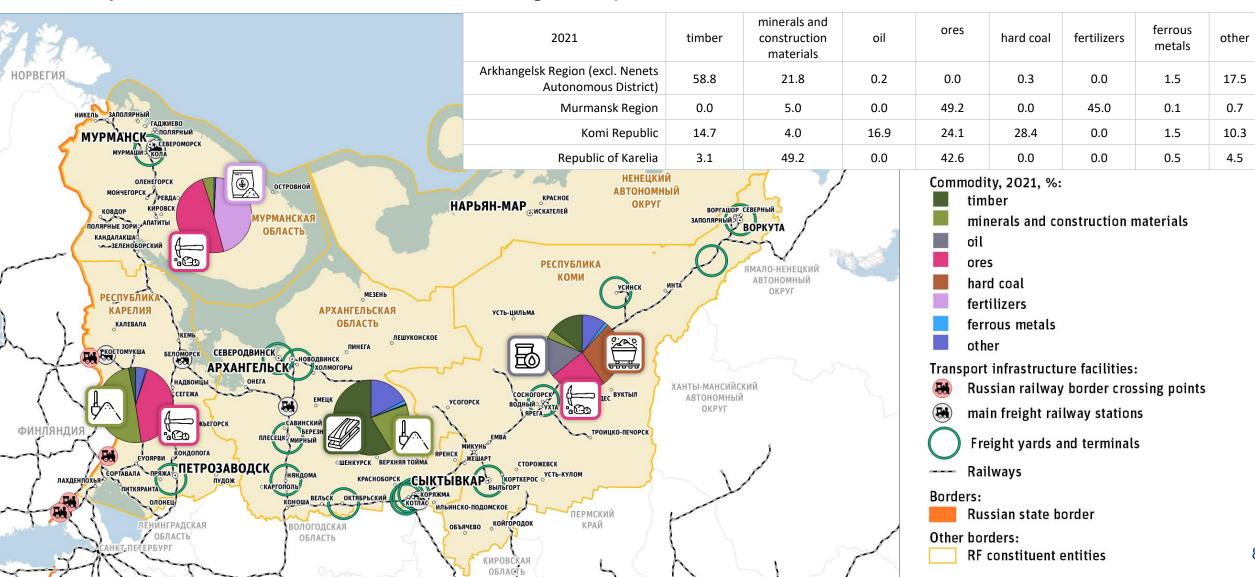








# Railway Infrastructure Characteristics. Freight Dispatch 2021, %









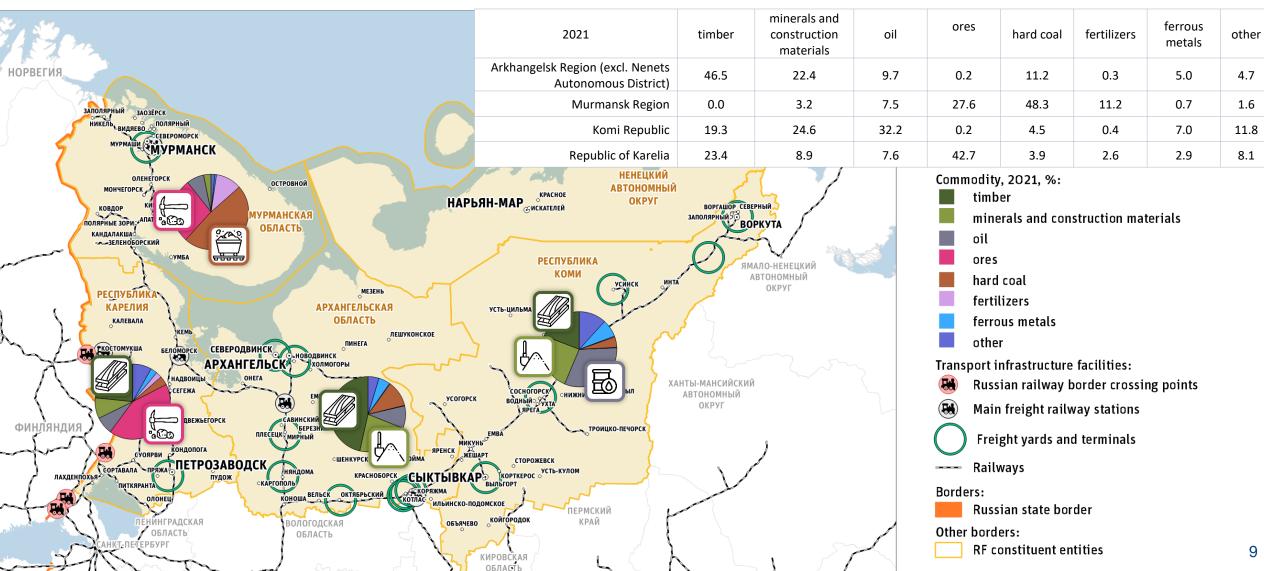
4.7

1.6

11.8

8.1

# Railway Infrastructure Characteristics. Freight Arrival 2021, %







New Railways Built, 2015-2020, km









# Railway Stations Operating Volume by Commodity and Transportation Type

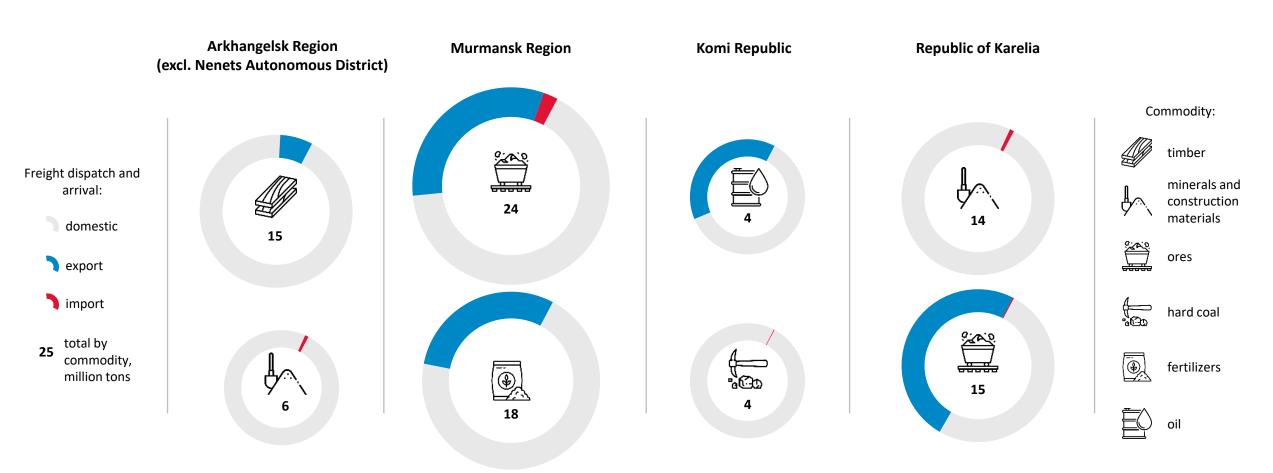


Diagram diameter is proportional to the freight volume

https://cargo-report.info



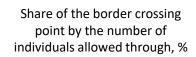


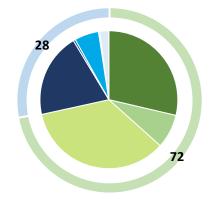


# Actual annual capacity of the border crossing points on the Russian Federation border, 2021

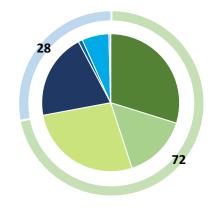
#### **Automobile border crossing points**

Border crossing point on the RF territory	Region	Bordering state	Bordering crossing point	
Brusnichnoye			Nuijamaa	
Svetogorsk	Leningrad Region		Imatra	
Torfyanovka			Vaalimaa	
Värtsilä			Niirala	
Inari		Finland	Inari	
Lyttä	Republic of Karelia	Finiand	Vartius	
Suoperä			Kuusamo	
Syväoro			Parikkala	
Salla			Kelloselkya	
Lotta	Murmansk Region		Raja-Jooseppi	
Borisoglebsk		Norway	Storskog	

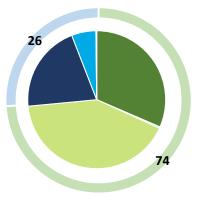




Share of the border crossing point by the number of trucks allowed through, %



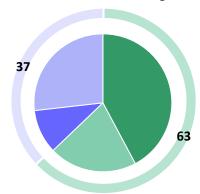
Share of the border crossing point by the number of passenger vehicles allowed through, %



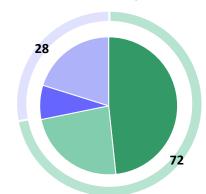
#### Railway border crossing points

ı	Border crossing point on the RF territory	Region	Bordering state	Bordering crossing point	
	Buslovskaya	Loningrad Region		Vainikkala	
	Svetogorsk	Leningrad Region	Finland	Imatra	
	Värtsilä	Republic of Karelia		Niirala	
	Lyttä			Vartius	

Share of the border crossing point by the number of individuals allowed through, %



Share of the border crossing point by the number of freight trains allowed through, %



\*72 - total share of border crossing points by regions

FGKU Rosgranstroy St. Petersburg Branch

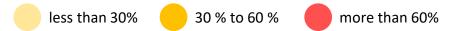




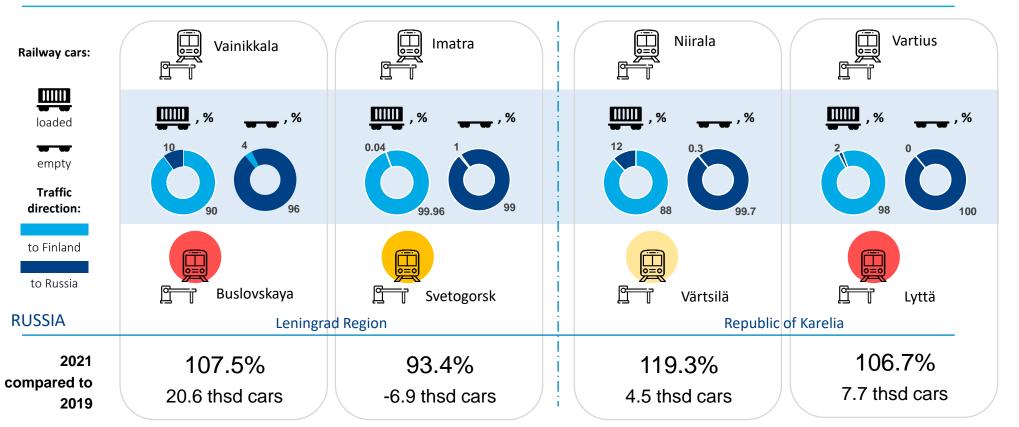


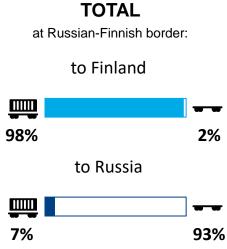
# Analysis of Russian Railway Border Crossing Points Capacity

Volume of freight transport at border crossing points, % of the design capacity



#### **FINLAND**







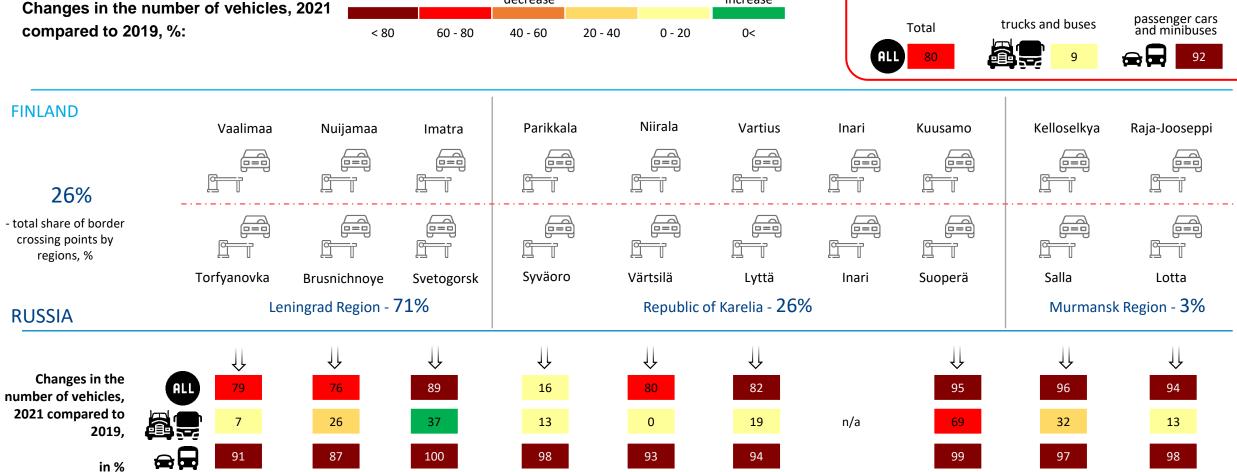


**TOTAL** at Russian - Finnish state border:



# Analysis of Russian Road Border Crossing Points Transport Volume Change

decrease

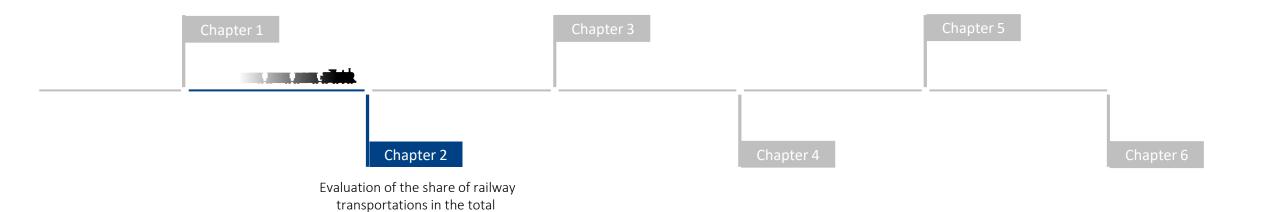


increase





# Chapter 2



transportation volume between the Russian regions and the Barents Region



REGIONAL COUNCIL OF KAINUU

Foreign trade statistics of the Russian Federation with the Barents Region countries in 2021. Import to the Russian Federation



paper and paperboard



plastics and plastic products



inorganic chemical products



salt; sulphur; soil and stone; plaster, lime and cement



wood and other fibrous materials pulp



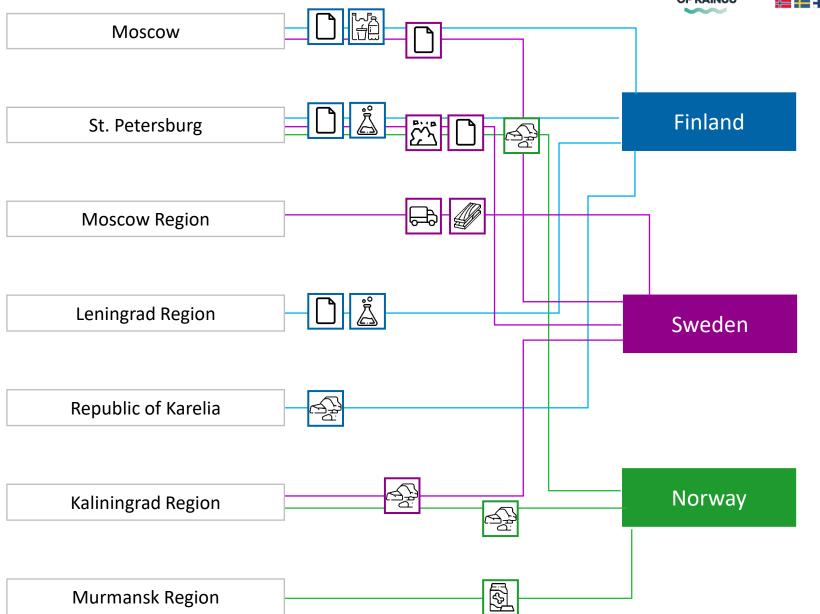
ferrous metals



means of land transport, their parts and accessories



food industry residues and wastes; ready-made animal feed





Foreign trade statistics of the Russian Federation with the Barents Region countries in 2021. Export from the Russian Federation



mineral fuels, petroleum and products of their distillation, etc.



wood and wood products; charcoal



fertilizers



ores, slag and ash



inorganic chemical products



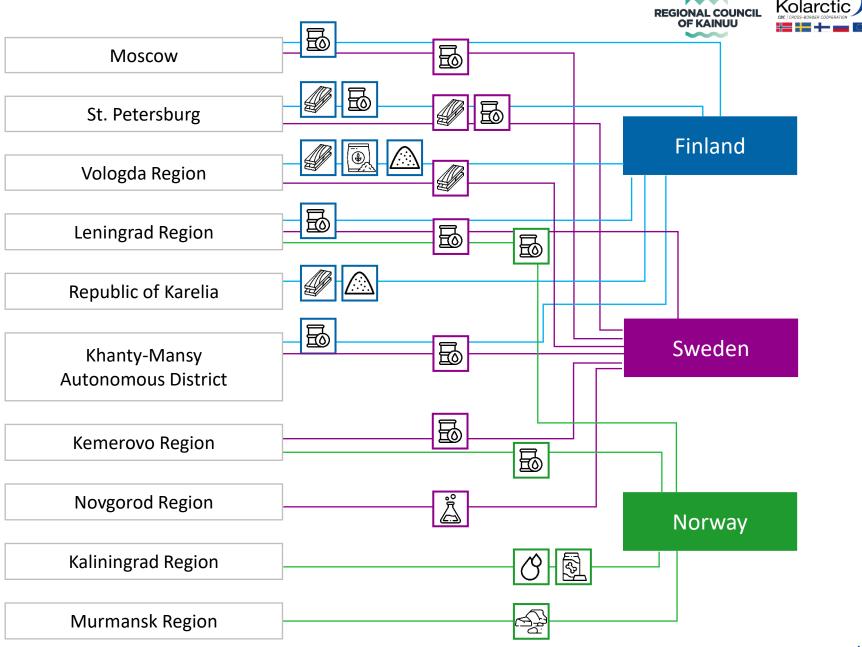
animal or vegetable fats and oils and their cleavage products, etc.



food industry residues and wastes; ready-made animal feed



salt; sulfur; earth and stone; plastering materials, lime and cement









## Development Potential of Railway Transportation, million tons

# Commodity groups that have the potential to increase the containerization level:



timber



agricultural products



ferrous metals



fertilizers



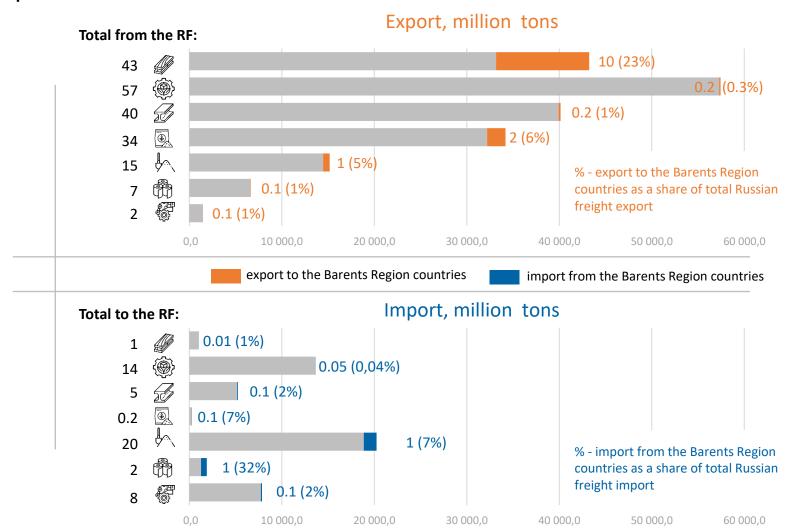
salt, sulphur, minerals and construction materials



pulp and paper industry products



machines and equipment

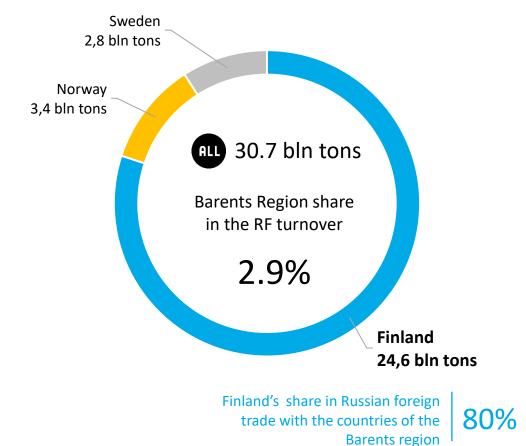




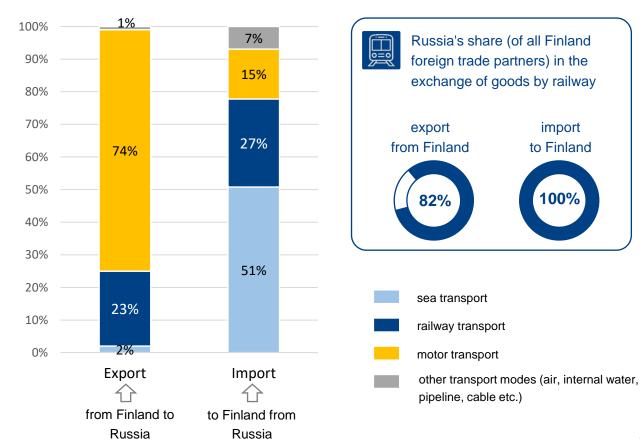


# Railway Transport Role in Foreign Trade Turnover

Russian foreign trade with the countries of the Barents region



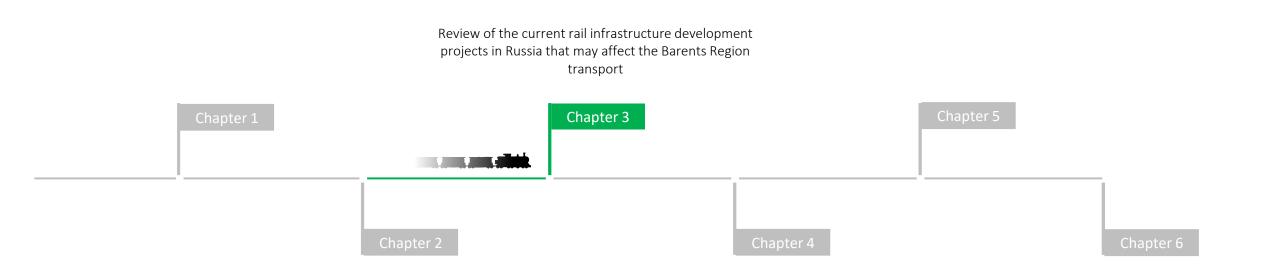
# Share of different modes of transport in foreign trade between Russia and Finland - 2020







# Chapter 3







# **Analysis of Policy Documents**



The number of documents used to select railway infrastructure development projects



Selected projects to create the scheme



The number of Russian regions expected to develop railway infrastructure in their territory



The number of projects implemented in the Barents Region

## Main Policy Documents

- Land-use planning scheme of the Russian Federation in the field of federal transport (railway, air, sea, inland water transport) and federal highways
- Transport Strategy of the Russian Federation to 2030 with the forecast for the period to 2035
- Long-term Development Programme of JSC Russian Railways to 2025
- Development Strategy of the Russian Arctic Zone and Provision of National Security for the period to 2035
- National Programme of the Russian Federation "Development of the Transport System"
- Integrated plan of the trunk infrastructure modernisation and expansion for the period to 2024, including the federal projects identification summaries:
  - Railway transport and transit
  - Communications between centres of economic growth

## Types of work to be performed

- Construction, reconstruction, capacity increase, modernisation, electrification of railway tracks
- Construction and reconstruction of railway stations





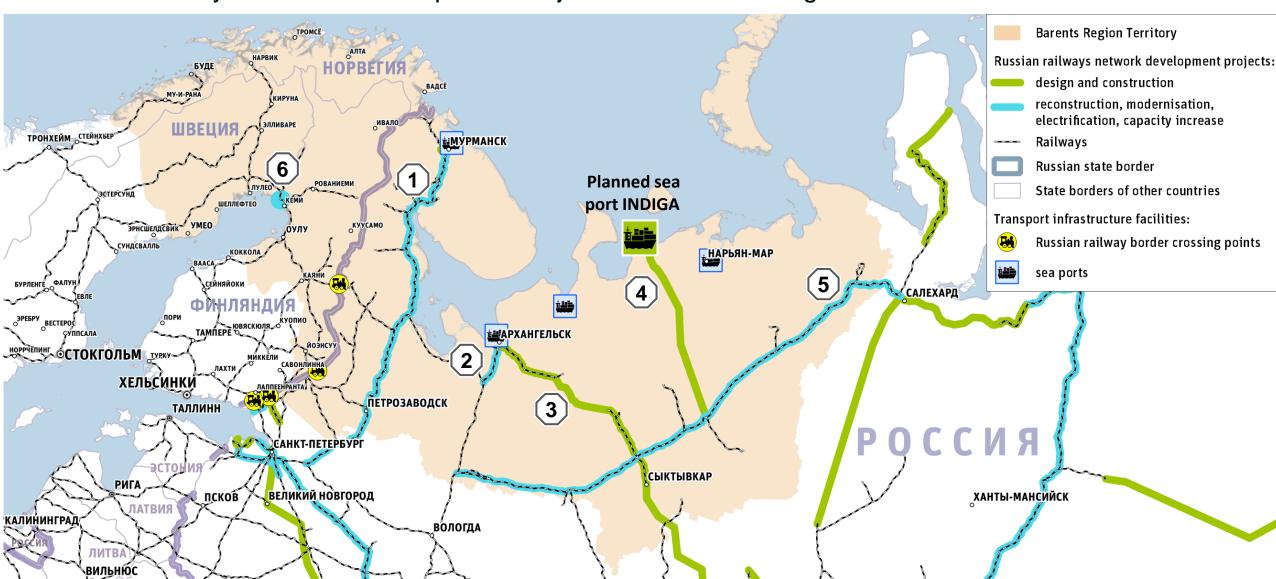
# Russian Railways Network Development Projects







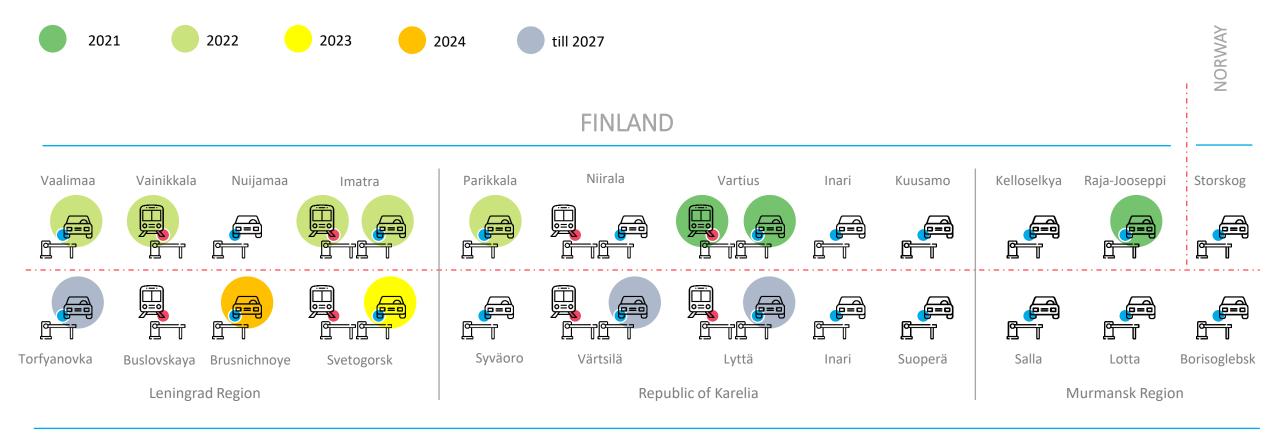
# Russian Railways Network Development Projects. North-West Region







# **Development of Border Crossing Points**

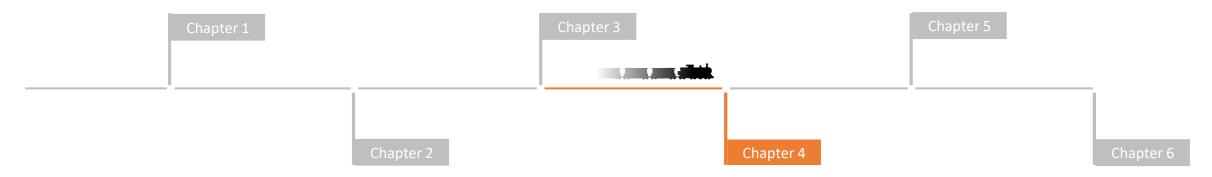


#### **RUSSIA**





# Chapter 4



Review of the ongoing and planned major investment projects involving rail transport that, when completed, may have impact on trade turnover with the Barents Region countries





# Information Sources. Investment Projects

#### Investment portals, state information sources

Investment platform of Russian regions	https://www.investinregions.ru/
Investment portal of Nenets Autonomous District	http://investnao.ru/nao-rus/projects/investprojects/index.html
Investment portal of the Komi Republic	https://invest.rkomi.ru/
Web site of the Development corporation of the Republic of Karelia	https://invest.kr-rk.ru/
Investment portal of Murmansk Region	https://invest.nashsever51.ru/
Investment portal of Moscow	https://investmoscow.ru/
Investment portal of the Republic of Tatarstan	https://invest.tatarstan.ru/ru/#start
Investment portal of Tyumen Region	https://investintyumen.ru/investoru/
Investment portal of Tula Region	https://invest-tula.com/
Investment portal of the Republic of Bashkortostan	https://investrb.ru/ru/
Investment Portal of the Arctic Zone of the Russian Federation	https://arctic-russia.ru/projects/
Web site of the Ministry of Arctic and Economic Development of Murmansk Region	https://minec.gov-murman.ru/activities/invest/
List of special investment contracts (SPIK), Ministry of Industry and Trade	https://gisp.gov.ru/spic2/pub/spic/search/

## Investment project agreements concluded at economic forums

Investment project agreements concluded at St.Petersburg International Economic Forum 2021	http://www.kremlin.ru/supplement/5649
Outcomes of the Eastern Economic Forum 2021	https://forumvostok.ru/archive/2021/outcomes-of-the-eef-2021/
Outcomes of the Eastern Economic Forum 2019	https://forumvostok.ru/archive/2019/outcomes-of-the-eef-2019/
Outcomes of the Eastern Economic Forum 2018	https://forumvostok.ru/archive/2018/outcomes-of-the-eef-2018/
Outcomes of the Eastern Economic Forum 2017	https://forumvostok.ru/archive/2017/eef-2017-outcomes/
Yalta International Economic Forum 2019	https://yalta-forum.com/Itogi/

# Information from the Russian regions being part of the Barents Region

List of the priority investment projects in Arkhangelsk Region	Information source: Ministry of Economic Development, Industry and Science of Arkhangelsk Region
Ongoing and planned major investment projects in the Republic of Karelia	Information source: Karelia Ministry of Economic Development and Industries





# Major Investment Projects







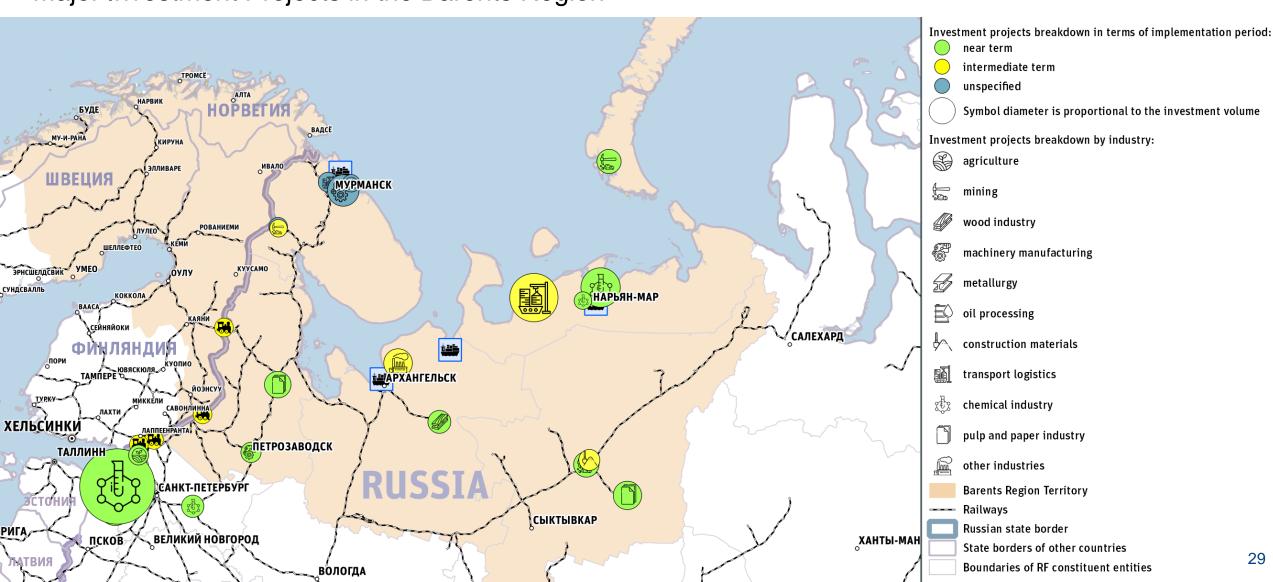
# Major Investment Projects







# Major Investment Projects in the Barents Region







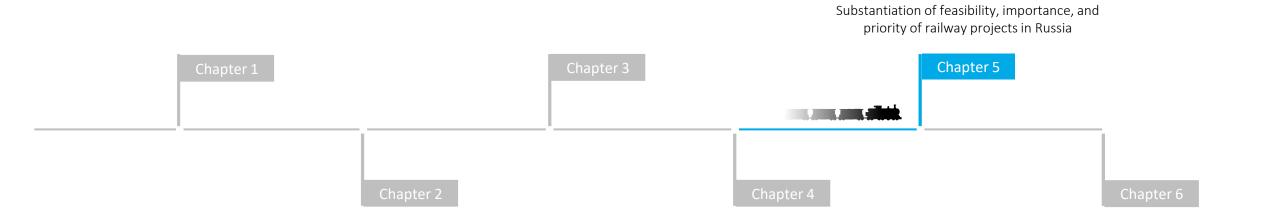
# Major Investment Projects







# Chapter 5









# Ranking method of Russian Railway Development Projects

Ranking method is based on the evaluation of projects in terms of the following five criteria

criterion 1 Policy Document Type

criterion 2 Implementation Period

criterion 3 Interest

criterion 4 Specified/Not specified Budget

criterion 5 New freight volumes

Weight of each criterion defined by expert evaluation

- W₁ (criterion 1 weight) 26%
- W<sub>2</sub> (criterion 2 weight) 23%
- W<sub>3</sub> (criterion 3 weight) 25%
- W₄ (criterion 4 weight) 14%
- $W_5$  (criterion 5 weight) 13%

Project Rank (Ri) evaluation formula

$$R_i = k_{1i} \cdot W_1 + k_{2i} \cdot W_2 + k_{3i} \cdot W_3 + k_{4i} \cdot W_4 + k_{5i} \cdot W_5$$





# Russian Railways Network Development Projects by Rank Group







# Russian Railways Network Development Projects by Rank Group

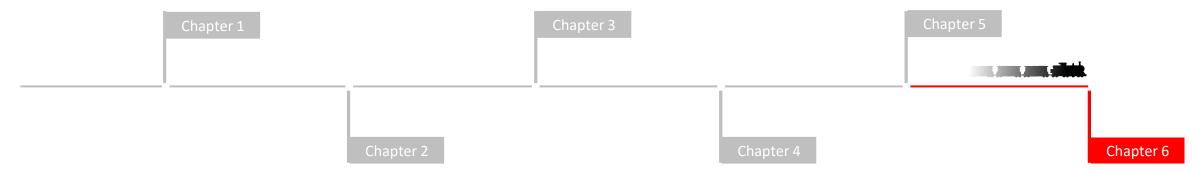








# Chapter 6



Analysis of a potential change in volumes of export/import flows through rail border crossing points between Russia and the EU on the transport situation in the Barents Region







# Project Implementation Impact on the Transport situation in the Barents Region

Expected additional freight volumes through the border crossing points if the planned railway development and investment projects are implemented:



Svetogorsk - Imatra: 6 million tons per year



Värtsilä - Niirala: **7** million tons per year



Lyttä- Vartius: 1 million tons per year

Additional freight volumes are estimated at about 14 million tons per year, and the total freight volume will amount to 43 million tons per year.

Taking into account the growth in container transit through the Barents Region, the share of containerized transportations may reach 30%







KO4159 Northern Axis – Barents Link (NABL) Project

Lead Partner

Regional Council of Kainuu

Project Manager Tatiana Petrova

Phone: +358 44 410 0727

e-mail: tatiana.petrova@kainuunliitto.fi

