

# TRANSPORT ACCESSIBILITY IN REMOTE LOCATIONS

For 20 years, Nornickel has been building a transport infrastructure that meets the needs of businesses and local communities, ensures seamless supplies of feedstock and materials, helps deliver finished products to consumers, and provides logistics connection between regions.

In the 2000s, Nornickel established its own sea fleet consisting of diesel motor ships and a heavy-duty ice-class tanker of the Arctic Express type. In 2010, a railway unit of Murmansk Transport Division was created to ensure rail transportation of the Company's and Kola

MMC's cargo between Murmansk and Monchegorsk using the Company's own rolling stock. The opening of a new cargo transfer terminal in Murmansk in 2017 expanded our capabilities in this area and strengthened our market position. Transport accessibility guarantees continuity and sustainability of the Group's operations and well-being of local communities across its footprint.

« Timely delivery is key to meeting corporate production goals and maintaining seamless operations. My team and I are dedicated to ensuring cargo delivery on time.

**Pavel Karpenko,**  
vehicle driver, NPTBT, Polar Division of MMC Norilsk Nickel (length of service with the Company – 32 years)

## Nornickel's contribution to the Comprehensive Plan for Upgrading and Expanding Core Infrastructure national project

### Relevant UN SDGs



### Related federal projects

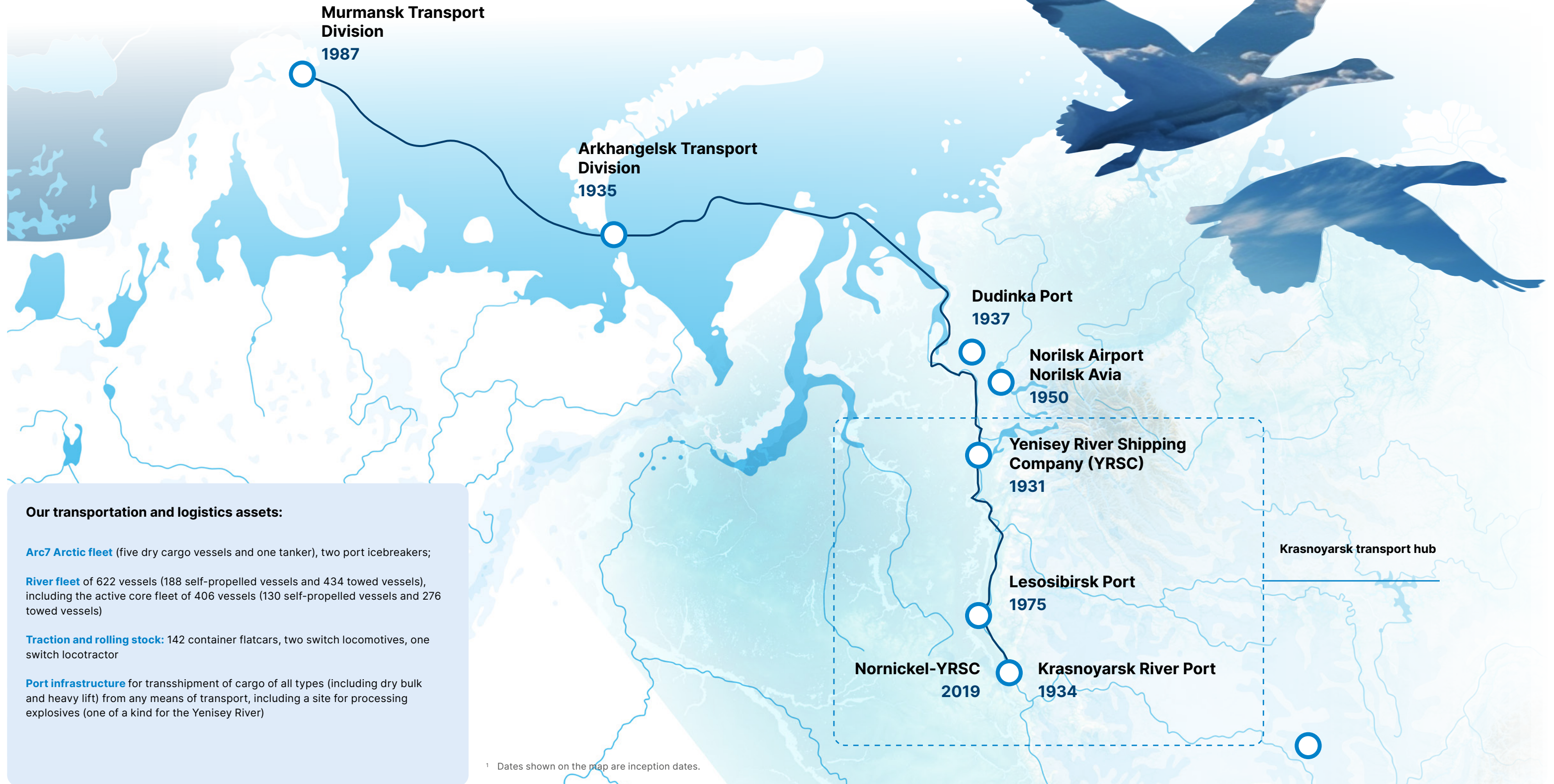
- Northern Sea Route
- Russia's seaports
- Regional airports
- Railway transport and transit transportation
- Internal water routes.

### Key initiatives and focus areas

- Provision of year-round freight shipping services between seaports as well as transportation and handling of cargoes in the Arctic region
- Operation and maintenance of railway infrastructure, with transport accessibility ensured in remote locations
- Development of passenger transportation in the local regions of operation.



# Nornickel's logistics assets<sup>1</sup>



**Our transportation and logistics assets:**

**Arc7 Arctic fleet** (five dry cargo vessels and one tanker), two port icebreakers;

**River fleet** of 622 vessels (188 self-propelled vessels and 434 towed vessels), including the active core fleet of 406 vessels (130 self-propelled vessels and 276 towed vessels)

**Traction and rolling stock:** 142 container flatcars, two switch locomotives, one switch locotractor

**Port infrastructure** for transshipment of cargo of all types (including dry bulk and heavy lift) from any means of transport, including a site for processing explosives (one of a kind for the Yenisey River)

<sup>1</sup> Dates shown on the map are inception dates.



**Our dry cargo fleet** provides year-round freight shipping services between the Dudinka, Murmansk, and Arkhangelsk sea ports while also covering other destinations. Our fleet is among the key transportation providers for socially important cargoes of the Norilsk Industrial District.

**The Yenisey tanker** is used for the export of gas condensate from the port of Dudinka, a by-product of gas extraction at the Pelyatkinskoye field developed by the Company, helping reduce pollution from this by-product and protect local environment.

In addition to its own Arc-7 ice-class fleet, the Company uses Arc-4/5 ice-class vessels to transport additional

volumes of cargo for large investment projects in Taimyr. From November to May, transportation in the Yenisey, the Yenisey Bay, and the Kara Sea involves icebreakers to lay the route.

MMC Norilsk Nickel's branches and Group facilities handle cargo in the ports of Dudinka, Murmansk, Lesosibirsk, and Krasnoyarsk.

**Dudinka Port** is a unique transport facility of the Taimyr: it is the world's only port flooded every year during spring high water. From November to May when its water area freezes over as like as the Yenisey Basin, Dudinka Port handles only sea vessels using icebreakers. In May, during the flooding, the service at berth

is suspended to be resumed for river and sea vessels in June, when ice flows pass and the water level goes down.

The port's cargo traffic in 2023 was

**3.8 mt**  
(2022: 4.5 mt)

**To reduce the load on Dudinka Sea Port and transshipment ports in Murmansk and Arkhangelsk, the Company is looking into alternative routes:**

in 2023, cargo was first delivered to Norilsk via a winter road from Novy Urengoy. The winter road was laid over land and frozen water surface. The first transportation experience

was successful; in favourable weather conditions, the new route saves about two weeks. The Company plans to assess the economic effect and determine which cargoes benefit from winter road

transportation. However, it is already evident that alternative transportation options save time and resources.



**Yenisey River Shipping Company (YRSC)** is a key link in providing staples to residents of hard-to-reach areas of the Krasnoyarsk Territory. During the spring floods, YSRP delivers fuel and lubricants, food, and other essential goods. Yenisey River Shipping Company carries out transportations along the Podkamennaya Tunguska and Nizhnyaya Tunguska rivers, and in other areas, including Dikson, Russia's northernmost settlement. YRSC operates its own search and rescue fleet and takes an active part in emergency response missions on internal water routes of the Yenisey Basin.

**Murmansk Transport Division** is responsible for local shipments in the lower reaches of Yenisey, to the north of Dudinka Port. Dudinka Port receives agricultural products and delivers socially important cargoes for local residents, including indigenous peoples of the North, ships cargoes for the EMERCOM, and transports residents of remote coastal areas.

In 2023, Nornickel completed consolidation of its river transportation assets. Lesosibirsk Port is now managed by Nornickel-YRSC, thus offering a comprehensive approach

to addressing tasks related to Yenisey shipments, including both transportation and handling of cargoes.

Another 2023 milestone was the awarding of international status to Norilsk Airport, which is the only transport hub that provides year-round flights between Norilsk and the Taimyrsky District and the rest of Russia.

**By 2025, we plan to reconstruct the air terminal complex to comply with the new status. The upgrade will enable the airport to:**

- 1 streamline logistics related to both the implementation of the Company's investment projects and construction of residential and social facilities in Norilsk;
- 2 diversify supply chains and decrease traffic in traditional cargo delivery channels;
- 3 reduce the cost of socially important cargo delivered to the region;
- 4 establish one more air cargo and passenger crossing point in the Arctic;
- 5 enhance the region's appeal for tourists.

