

# Russia



**Name:** Russian Tunneling Association (RTA)

**Type of Structure:** Non profit

**Number of Members:** Total number - 68

## ASSOCIATION ACTIVITIES DURING 2022 AND TO DATE

- Round table "Presentation of the innovative material "Waterproofing GLEN", Moscow, March 3rd, 2022
- Scientific and technical conference "Application of advanced technologies in underground construction", Moscow, May 25th, 2022 (<https://disk.yandex.ru/d/Zqtg5lrCbega9w>)
- International Sino-Russian forum "Young scientists in the field of geotechnics and underground construction", Online form, September 14th – 15th, 2022 (<https://disk.yandex.ru/i/kjszgb39jGo7A>)
- Scientific and technical conference "Development of the underground space of megacities and transport tunnels", Moscow, November 9th, 2022 (<https://disk.yandex.ru/d/Ph8nu-EIOYPLZw>)
- Specialists of the Tunnel Association of Russia took a direct part in the approval and development of the set of rules SP 120.13330.2012 "SNiP 32-02-2003 METRO".
- Competition S.N. Vlasov "Engineer of the Year of the Russian Tunnel Association 2022" (<https://disk.yandex.ru/d/JkCaalnLWEvyoA>)
- Competition of scientific (thesis) works for university students.
- Competition "The best application of technologies in the construction of tunnels and underground structures - 2022" (<https://disk.yandex.ru/d/afjuXG6uz9SBbA>)

The professional magazine "Metro and Tunnels" was published (four issues of the magazine were published). Two bulletins were issued during the year (in the first and second half of 2022).

## CURRENT TUNNELLING ACTIVITIES

### Moscow Metro development program

In 2022, as part of the Moscow Metro development program, the construction of the Big Circle Line (BCL) was completed. The full launch of the line is planned for 1st March 2023. The remaining nine stations will be opened, including seven new stations and two after reconstruction. The length of the BCL is more than 70km

and 31 stations. It is currently the largest circular metro line in the world. (<https://disk.yandex.ru/i/FAIkjT5NV2srBw>)

The construction of the Rublvo-Arkhangelskaya line of the Moscow Metro continues. As part of the first stage, the construction of a 12.6km long section is underway. It will run from the Shelepikh station on the Big Circle Metro Line to the Lipovaya Roscha. The site will house six stations. (<https://disk.yandex.ru/i/rktCLaKeJK3Gqw>)

A new radial metro line, Troitskaya, is being built in Moscow. It will have 17 stations. It will pass from the ZIL station and reach New Moscow. The construction of the Troitskaya line is being carried out in two stages. At the moment, construction is underway on the first section, which is planned to be launched by 2025 from the ZIL station to Kommunarka. There will be 11 stations here. (<https://disk.yandex.ru/i/D2krv6FWxkxUQg>)

The Biryulyovskaya metro line is currently at the design stage, a promising radial branch for the Moscow Metro that will serve areas in the south of the capital. There will be 10 stations on the 22.2km section.

### Development of the railway infrastructure on the eastern range

The Kerak Tunnel has been completed - a double-track railway tunnel on the Ulruchi-Kovaly section with a length of about 926m. Currently, work is underway at the facility to create the lining and install the necessary equipment. For now, 2023 is planned for the full opening and launch of the tunnel as part of the Trans-Baikal Railway. ([https://disk.yandex.ru/d/vKo7GL\\_iWrxeWg](https://disk.yandex.ru/d/vKo7GL_iWrxeWg))

The construction of a new Dusse-Alinsky railway tunnel continues at the Novy Urgal-Postyshevo section of the Far Eastern Railway in the Khabarovsk Territory. The length of the new tunnel will be 1824m. Completion of construction and a full launch is planned for 2025.

In Primorsky Krai, between the settlements of Shkotovo and Smolyaninovo, the construction of two new railway tunnels with a length of 1420m and 1450m

is ongoing. These two tunnels will bypass the existing Shkotovsky Pass and eliminate the need for additional traction on this section of the Far Eastern Railway.

Member companies of the Tunneling Association of Russia continue to take part in the implementation of large-scale programs to increase the capacity of the Trans-Siberian Railway and the Baikal-Amur Railway.

## FUTURE TUNNELLING ACTIVITIES

### Work continues on the development of the Moscow Metro:

By mid-2023, it is planned to complete the construction and put into operation the section of the Lyublinsko-Dmitrovskaya line of the Moscow Metro from Seligerskaya to the village of Severny. Three metro stations will be located on this 5.8km section.

(<https://disk.yandex.ru/i/AaCHTWlIw5GZ4A>)

Also in 2023, it is planned to complete construction and launch a section of the Kalinin metro line to Vnukovo airport, where two metro stations will be located. The final station - Vnukovo Airport will be the first station in the immediate vicinity of the airport anywhere in Russia. A metro bridge is being built on this section behind the Pykhtino station above the bed of the Likova River. (<https://disk.yandex.ru/i/F4kiGEk0tpQyng>)

The completion of construction and the opening of the Yuzhnoye electric depot in Moscow is scheduled for 2023. This is the country's largest complex for the operation and repair of metro trains and is being built in Brateevo. (<https://disk.yandex.ru/i/5BTae0ASWjqYZw>)

Work will continue on the development of the metros in St. Petersburg, Nizhny Novgorod, Kazan, as well as the construction of the metro in the cities of Krasnoyarsk, Chelyabinsk and Samara.

## EDUCATION ON TUNNELLING IN THE COUNTRY

- Moscow State University of Communication Lines (MIIT);
- Moscow State University of Civil Engineering (MGSU);
- Moscow State Mining University (MGGU) of National University of Science and Technology "MISIS";
- National Mineral Resources University "Gorny" (SPGU);
- Saint Petersburg University of Communications (PGUPS);
- Tula State University;
- Ural State Mining University (UGGU);
- Siberian State University of Communications (SGUPS).