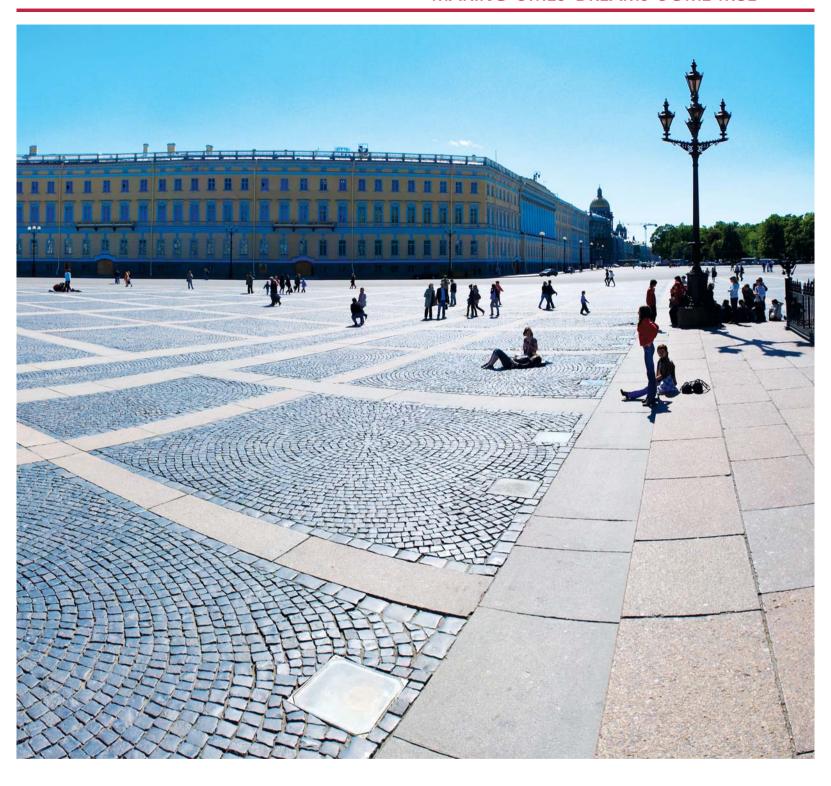


## MAKING CITIES' DREAMS COME TRUE





#### MAKING CITIES' DREAMS COME TRUE



Palace Square St. Petersburg



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# ACTIVITIES OF VOZROZHDENIE ENGINEERING AND CONSTRUCTION GROUP





President of Russia V. V. Putin at the unveiling of the monument to Alexander III in the Grand Gatchina Palace, Leningrad Region



Dear friends!

It is impossible to imagine both development and progress towards new challenges and horizons without roads. The development of any country's economy is due to the road construction, giving impetus to the next step forward.

Vozrozhdenie Engineering and Construction Group has been actively developing, designing new paths and pushing new boundaries for more than 30 years. We grew and matured giving new life to the largest highways and road junctions, creating new pedestrian zones, transforming gardens, parks and squares of large and small cities: St. Petersburg and Moscow, Samara and Veliky Novgorod, Astrakhan and Ashgabat.

We have grown from a small cooperative association established on the basis of a stone processing plant in St. Petersburg into an Engineering and Construction Group operating in the road industry in the North-West of Russia.

We create a new atmosphere pleasant and comfortable to live in.

We build safe modern roads.

We redevelop historical areas to preserve and convey the spirit of bygone eras.

We arrange a landscape to enjoy.

We make cities' dreams come true.

Vozrozhdenie Engineering and Construction Group operates at a level that meets world standards due to the cutting-edge technologies and an extensive resource base. The assets of Vozrozhdenie ECG include quarries for the extraction of blocks of granite, limestone, crushed granite and alluvial sand as well as natural stone processing plants, concrete and asphalt concrete plants, road construction organizations, companies that perform the entire cycle redevelopment and landscaping jobs, a vehicle fleet operating unit and a design institute.

Vozrozhdenie ECG is a sustainable, efficient structure encompassing professionals in various areas of expertise. Their experience and knowledge of the latest trends and construction technologies make it possible to perform the functions of a general contractor at the highest level attainable.

**Mr. Igor Bukato** President of Vozrozhdenie ECG





#### MAKING CITIES' DREAMS COME TRUE



Senate square (Decembrists Square) St. Petersburg



#### **HISTORY**

1989-1991	Employees of Facing and Building Materials Combine create a Cooperative association and develop new product markets. Export deliveries of products of the Stone Processing Plant to Europe (Germany and Finland) begin. At the same time, stone dressers master the block paving technology in Finland, the plant acquires equipment for its production.
1991-1993	Vozrozhdenie carries out paving orders in Finland. The enterprise receives the first order for facing the facade of the Cherkizovsky brand shop. The work on reconstruction of the stone elements of the Grand Cascade in Peterhof begins.
1993	The labor collective decides on corporatization of the enterprise and chooses closed joint-stock company as a form of ownership. In the same year, the company enters the road construction market having received the first contract for the development of Malookhtinskaya embankment.
1995-1998	The company management focuses on the redevelopment and arrangement of pedestrian areas in its home city of St. Petersburg. Overall restoration of Birzhevaya square at the Spit of Vasilievsky Island is completed. The company's professionals focus efforts to set up the first pedestrian areas on the 6 – 7 Lines of Vasilievsky Island. Vozrozhdenie donates an obelisk to the city to commemorate the 300th anniversary of the Order of St. Andrew the First Called.
1996-1997	The plant's specialists perform unique work on the creation of external lightning for the Cathedral of Christ the Savior in Moscow, moreover, they win the competition on the redevelopment of the square with the manufacture and installation of a fountain complex in front of the Bolshoi Theater in Moscow.
1996-1999	To enable uninterrupted supply of raw materials, the company acquires quarries and factories focusing on excavation and processing of natural stone, granite, lime and marble, as well as mining inert materials.
1999	The Road Construction Department is established. Five construction units comprise the construction management office of the holding company engaged in refurbishing existing embankments in St. Petersburg and creating new ones.
1998-2000	Bridge building units are established, as well as a design office and a landscape design company. The company carries out orders to refurbish bridge structures. Pavement of the Arts Square in St. Petersburg is redeveloped. Construction work at Ushakovskaya interchange is performed.
2001-2006	Vozrozhdenie ECG wins the tender for a lot No. 1 for the Ring Road construction (KAD) around St. Petersburg. The company performs general contracting works on the main transport throughways and highways of St. Petersburg: construction of the Smolnaya embankment, punching of Vitebsky avenue, reconstruction of Danubsky avenue, reconstruction of the A-121 highway are carried on. Reconstruction of Palace Square, paving of Nevsky Prospekt, Senatskaya Square, redevelopment of the Spit of Vasilevsky Island, creation of the park of the 300th anniversary of St. Petersburg are performed.
2003	Vozrozhdenie ECG extends the geographic reach of road building work, winning the tender for reconstruction of Leningradskaya Street in Samara.
2004	Participation in setting up the St. Petersburg Association of the Road and Bridge Building Complex DORMOST.
2005	BVQI classification society assigns certificate of conformity with ISO 9001:2000 international standard to Vozrozhdenie ZAO PO.
2005-2006	Construction of water sluice No. 1 is in progress (St. Petersburg flood protection facilities).
2006-2010	Vozrozhdenie ZAO PO performs the renewal of utility lines and overall redevelopment of Peter and Paul Fortress as well as the refurbishment of the cladding of Sovereign's Bastion and overall restoration of Sinopskaya Embankment. Vozrozhdenie ZAO PO acts as a general contractor in the tender for lots 1, 3, 4, 4.1, 7 for the first stage of eastern half-ring of the Ring Road. The company performs construction of the extension line of Piskarevskiy Prospect opening onto St. Petersburg's Ring Road and construction of the railroad underbridge.

 $\textbf{2007-2011} \ \ \text{Overhaul of Kiev Highway (Federal Highway M-20)}. \ The \ project \ comprises \ replacement$ of traffic light units and crossroads, replacement of two-level interchanges, a tunnel, pedestrian underground walkways and footbridges. The M-20 is transformed into a clearway. 2008-2010 Paving of the central streets, arrangement of parks in St. Petersburg, Astrakhan, Veliky Novgorod, Vyborg, Rostov-on-Don. Reconstruction of the eastern wing of the building of the main headquarters of the Hermitage. 2009 Unveiling of the Hanseatic Sign in Veliky Novgorod donated to the town in honour of its 1150th anniversary. 2009-2013 In cooperation with Olympstroy GC the company designes the Olympic Park in Sochi. Vozrozhdenie ECG enters the international market with 17 traffic interchange project designs accomplished (to increase the capacity of the city's roads). The company implements the charity project for the landscaping of the central streets of St. Petersburg at the expense of Gazprom PAO, namely: Pestelya, Furshtatskaya, Belinskogo, Kazanskaya, Bolshaya Konyushennaya, Potyomkinskaya streets; Vladimirskaya, Konyushennaya, Preobrazhenskaya squares; Kamennoostrovskiy, Chernyshevskogo, Liyeyniy, Vladimirskiy avenues; the Embankment of the Griboedov channel. Reconstruction of Pirogovskaya embankment with arrangement of a tunnel with a total length of 450 m is accomplished. 2009-2013 Construction of roads and engineering structures (bridges, underways, overpasses) in Turkmenistan: Vostok-West transport corridor (7 transport interchanges, 3 bridge crossings and 2 sections of roads), Southern Ring Road (over 16 km). Construction of facilities in the city of Ashgabat: continuation of 10 Let Blagopoluchiya street (4.1 km), roads to Yildyz five-star hotel (2.5 km), reconstruction of the road to the Akhal-Teke Horse complex of the President of Turkmenistan (4.5 km) and avenue) and avenue) Archabil (25.5 km). The construction of two facilities — road bridges (overpass) with a length of 1,300 and 400 m on the highway connecting the Turkmenbashi airport with Avaza national tourist zone on the Caspian coast of Turkmenistan. 2010-2012 Construction of the Northern section of the Western High-Speed Diameter (WHSD). The width of the track is from 4 to 6 lanes, the length is 7,300 m (6 highway exits, 6 overpasses and 1 bridge). 2014 Completion of restoration of the Petrovsky entrance canal embankment at Galernaya Harbour on Vasilievsky Island in St. Petersburg, Overall redevelopment of Vosstaniya, Marata and Karavannaya streets, including arrangement of parking areas and installation of lighting. Reconstruction of Malaya Konyushennaya street. In 2.5 months completely renovated Pyatnitskaya Street in Moscow with a total length of 1.8 km. DNV GL classification society confers ISO 9001:2008 international certificate of conformity on Vozrozhdenie ZAO PO. 2015 The company completes reconstruction of the Bolshaya and Malaya Nevka embankments from Ushakov Bridge to Kamennoostrovskiy Bridge. The company continues reconstruction of Peterburgskoye Highway (increasing the number of traffic lanes to four lanes), builds a railroad crossing. The company completes construction of a pedestrian underground walkway, overall improvement of streets: Sadovaya, Italyanskaya, Mayakovskogo. The company completes restoration of the Arsenal embankment wall. Vozrozhdenie Group participates in restoration of the Victory's 70th Anniversary Memorial Ark. 2016 With an unprecedented advance for 7 months the reconstruction of the St. Petersburg highway from the Pulkovskoe highway to the Detskoselskiy Boulevard with an overpass through the Baltic direction railway of the Oktyabrskaya railway and transport interchange in the direction of the Expoforum Congress and Exhibition Center is completed. The overhaul of the wall of the embankment of the Malaya Nevka and Zhdanovka rivers around the Petrovsky stadium is carried out. The coastline of the Okkerville River in the area of Kollontai Street is reinforced. The Integrated Redevelopment of Ligovsky Prospekt, Malaya Morskaya Street, Moskovsky Prospekt on the site from the Obvodny Canal to the Fontanka River

embankment is performed.



2017

The unvailing of the transport interchange with the overpass in the alignment of Poklonnogorskaya Street through Vyborg direction railway path takes place. The Integrated Redevelopment of Bolshaya Morskaya Street, the Arch of the Main Staff and the Pervaya Sovetskaya street is completed. Vozrozhdenie ZAO PO joines the Russian Union of Builders. The company begins the comprehensive restoration of Montrepo Park in Vyborg. The specialists of the company MC Vozrozhdenie Trading House perform the reconstruction of Minin and Pozharsky Square in Nizhny Novgorod, the Surah River Embankment in Penza. A Yacht bridge built through financing of companies-members of the Open Space Builders Association, including at the expense of the Vozrozhdennie Group of Companies is opened in St. Petersburg.

2018

The reconstruction of the apron No. 3 (parking lots adjacent to Pulkovo-2 airport) is completed by the company. Millionnaya Street, Suvorovsky Prospekt, Ligovsky Prospekt, Isaacievskiy Square, Kronverkskaya embankment are landscaped in cooperation with Gazprom PAO as part of the draft charity program. Commemorative signs are installed on the 1st Sovetskaya Street, namely: Change of Eras (bronze carriage) and Wheel of History (carriage wheel). The work on the overhaul of the Shlisselburg highway continues. The work on the improvement of the Salakka-Lakhti embankment in the city of Vyborg are completed. The construction of an additional congress to the KAD in the area of the Devyatkino metro (Murino) begins. The 1st stage of laying engineering networks in the Rzhevka production area is completed. MC Vozrozhdenie Trading House acts as a contractor for the improvement and facing of the Lakhta Center MFC, the company also erects a monument to soldiersaviators in honor of the end of the Second World War. Vozrozhdenie Mountain Department begins the development of the new Kalguvara-1 deposit, the company Beton OOO acquires a new asphalt concrete plant.

2019

The construction of the transport interchange of the Western high-speed diameter road at the intersection with the new highway is completed. The construction of the continuation of Veterans Avenue begins as well as the reconstruction of concrete coatings of Domodedovo airports in Moscow and Emelyanovo in Krasnoyarsk. A contract for the construction of the transport interchange of the WHSD with Shuvalovskiy Prospekt in St. Petersburg, for the reconstruction of Sofiyskaya Embankment in Veliky Novgorod and Fountain Square in Penza is concluded. The overhaul of Bolshoi Prospekt and Dobrolyubova Avenue on the Petrograd side is completed. The first private AGFS is built in the northwest of the Russian Federation.

2020

Capital reconstruction of two bridges is performed: Zeleniy and Torgoviy. A number of streets are landscaped: Tchaikovskogo, Gangutskaya, Oruzheinika Fedorova. Contracts for the reconstruction of Alexander Nevskiy embankment in Veliky Novgorod, concrete roads in Kaliningrad are signed as well as the contract for the construction of the Moscow-Dunay interchange in St. Petersburg. The military glory obelisk is installed in Petrozavodsk as well as a memorial in Ligovo (St. Petersburg), Marshal Chuykov monument in Volgograd, the pedestal for the monument to Alexander III in the Great Gatchina Palace.

2021

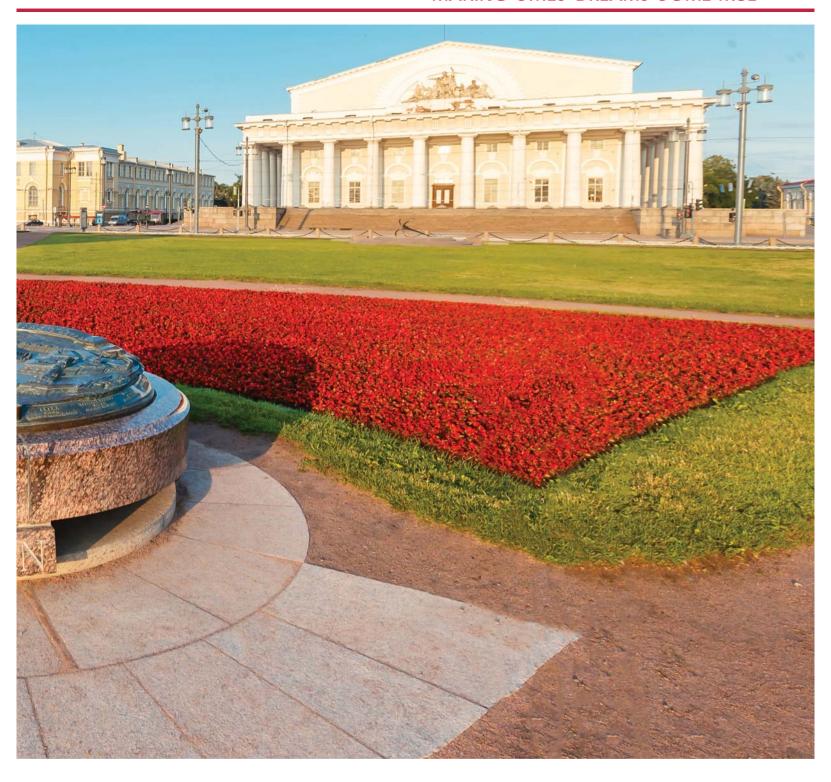
A contract for the construction of an overhead crossing and overpass in Voronezh, as well as the reconstruction of the 1st Elagin Bridge in St. Petersburg is concluded. The construction of the WHSD interchange is completed at the intersection with Shuvalovskiy Prospekt, the overhaul of the embankment of the Griboedov channel (St. Petersburg) was carried out. The Friendship Tree monument in Petrozavodsk is erected. The reconstruction of the Emelyanovo International Airport in Krasnoyarsk is accomplished, the reconstruction of Domodedovo Airport in Moscow continues. Liteyiny and 2nd Sadoviy bridges in the center St. Petersburg are repaired. The reconstruction of the Montrepo Park continues. The reconstruction of the Sofiyskaya embankment and Alexander Nevsky embankment in Veliky Novgorod is completed. The monument to Alexander Nevsky is opened in Nizhny Novgorod. In Turkmenistan, the 2nd line of the government rostrum is built, the construction of sill dam continues.

#### FIELD OF CONCERN OF VOZROZHDENIE ENGINEERING AND CONSTRUCTION GROUP CONSTRUCTION MINING BUILDING COMPLEX **INDUSTRY MATERIALS PRODUCTION Building** and Quarries for the Asphalt concrete and reconstruction of concrete plants extraction of natural artificial stone and nonmetallic structures materials Crushed stone plants Stone Construction processing plants and repair of roads Integrated redevelopment and landscaping COMMERCIAL **PROJECTS** Aerodrome construction Automobile gasfiling Design compressor stations institute \_Commercial Transport construction logistics activities



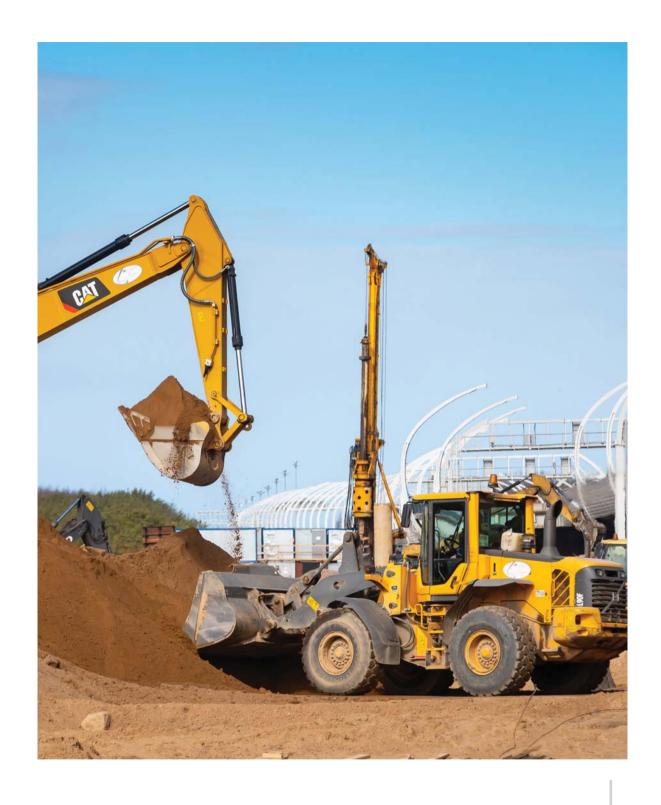


#### MAKING CITIES' DREAMS COME TRUE



Birzhevaya Square, Spit of Vasilyevsky Island St. Petersburg

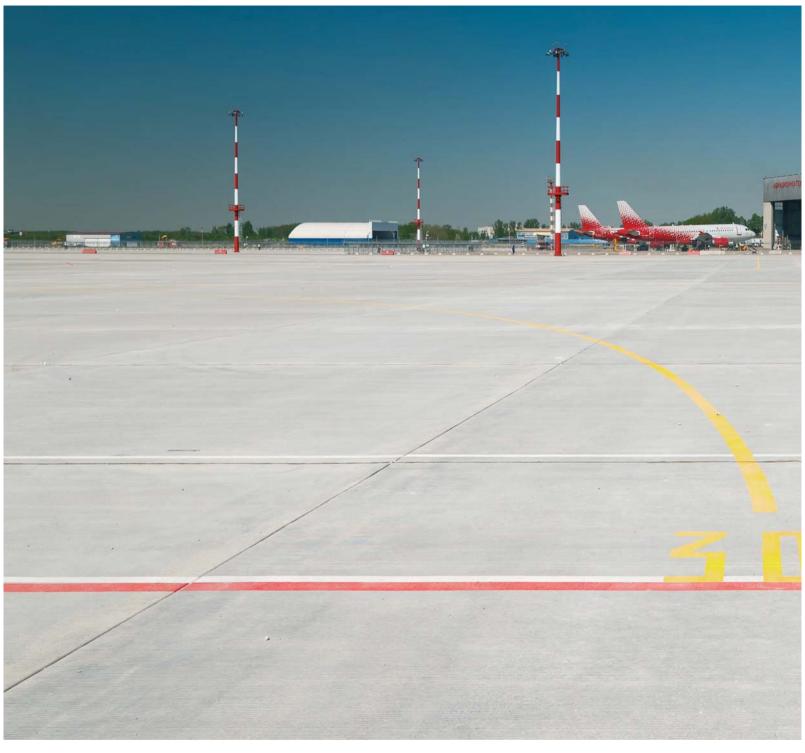




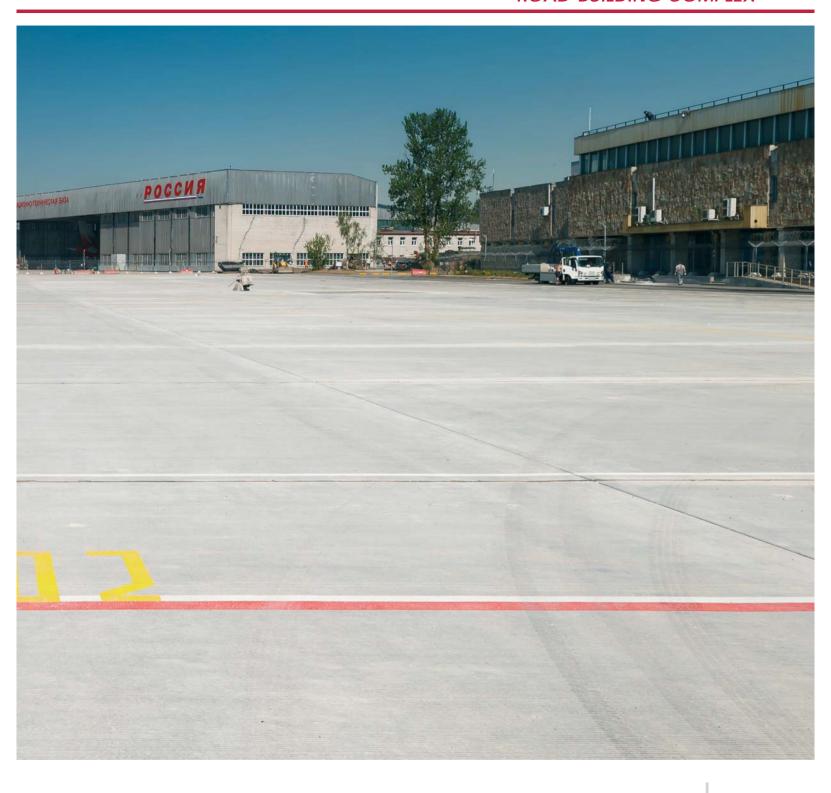
Construction of a road interchange Western high-speed diameter (WHSD) at the intersection with Shuvalovskiy prospect St. Petersburg

### ROAD-BUILDING COMPLEX



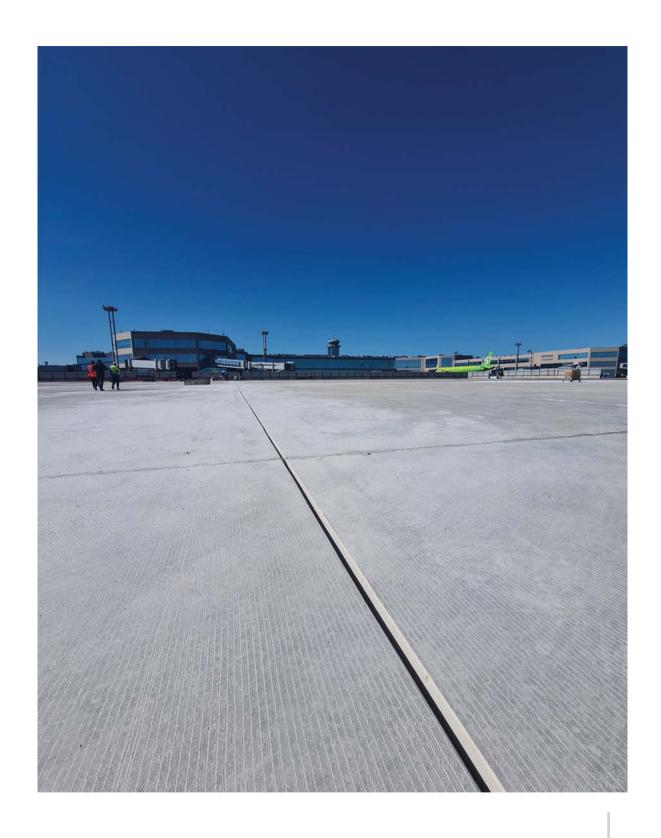


#### **ROAD-BUILDING COMPLEX**



Reconstruction of apron No. 3 and aircraft parking areas adjacent to the Pulkovo-2 air terminal complex St. Petersburg





Reconstruction of aprons at the class "A" airport – Domodedovo Moscow

#### AERODROME CONSTRUCTION

Vozrozhdenie Engineering and Construction Group began to develop a new direction in road construction and currently construction and reconstruction of runways, aprons and main taxiways at airports is a significant part of the concrete company's capacity.

Airports are regarded as especially dangerous and technically complex facilities. The experts of the Vozrozhdeniye Production Association have a considerable technical basis, experience and a number of special licenses and permits to work with such objects. The reconstruction of airports is provided for by Order No. 2101-r, dated September 30, 2018 "Comprehensive plan for the modernization and expansion of the main infrastructure for the period up to 2024". It was developed in accordance with Decree of the President of Russia, dated May 7, 2018 No. 204 "On the national goals and strategic objectives of the development of the Russian Federation for the period up to 2024".

The work provides for complete replacement of the existing pavements with a two-layer hard-type pavement made of cement concrete, which increases the strength by five times compared to a conventional road. To prevent cracking of the apron coating under the influence of high loads and temperature fluctuations, reinforced concrete coatings and expansion joints are installed. This makes it possible to increase the service life of the cement concrete pavement and prevent a decrease in the bearing capacity of the structure. In the course of work, reconstruction or construction of new engineering communications and drainage networks, installation of high-mast lighting structures, reconstruction of lighting equipment and marking are carried out. A comprehensive redevelopment of the adjacent territories is performed.

In 2017, the Vozrozhdenie Production Association began to fulfill a contract for the reconstruction of Apron No. 3 and aircraft parking areas adjacent to the Pulkovo-2 air terminal complex (St. Petersburg). 105,000 m³ of concrete were laid on an area of 155,515 m² in eight months for the 2018 FIFA World Cup. Under the contract a complete modernization of the apron was carried out with an increase in its carrying capacity, new parking lots for large aircraft and business liners appeared. Nowadays, the Pulkovo apron corresponds to class A and can accommodate from 19 to 23 aircraft of various classes.

The positive practice experience gained in the course of implementation of the contract for reconstruction of Apron No. 3 Pulkovo-2, compliance with technical regulations and the application of high international safety standards made it possible to receive a project for the reconstruction of aprons at the A class airport – Domodedovo (Moscow) in December 2018. 40,000 m³ of concrete has been laid so far. The total area of reconstructed concrete/reinforced concrete pavements reaches 91,728 m².

In September 2019, simultaneously with the work at Domodedovo Airport, the Vozrozhdenie Group of Companies began the implementation of the contract "Reconstruction of the facility – taxiways. Extension of the main taxiway to the end of the runway at Krasnoyarsk (Emelyanovo) Airport". This airport also belongs to A class and more than 98 % of the work has been completed by now – 74,000 m³ of concrete has been laid. The deadline for the commissioning is the second half of 2021. As a result of the reconstruction, the capacity will double, passenger traffic will increase, and new domestic and international flights will open.

During the period of construction of airfields, Vozrozhdenie produced and laid more than 230,000 m<sup>3</sup> of concrete.





Domodedovo Moscow



Domodedovo Moscow

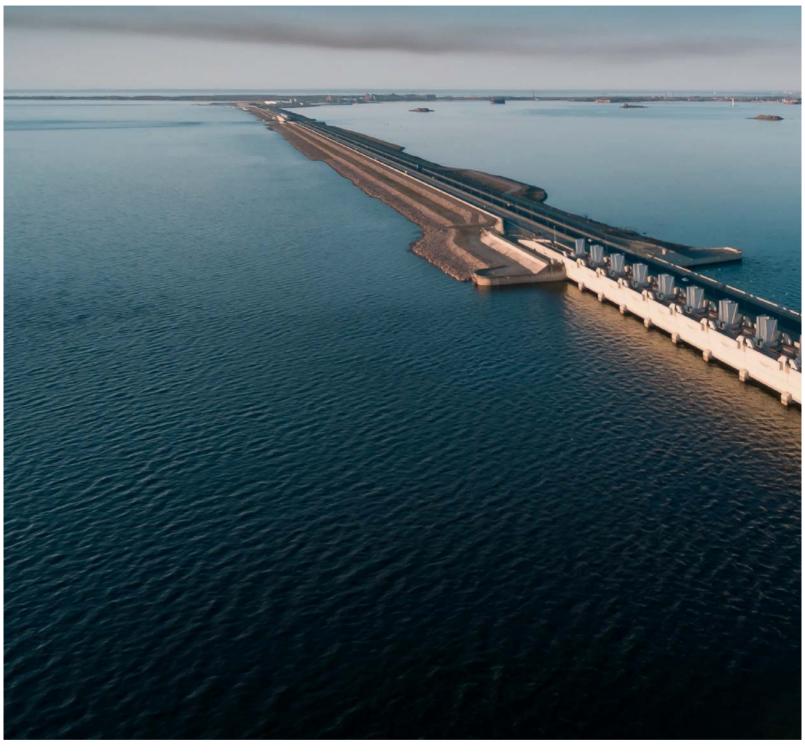


Emelyanovo Krasnoyarsk

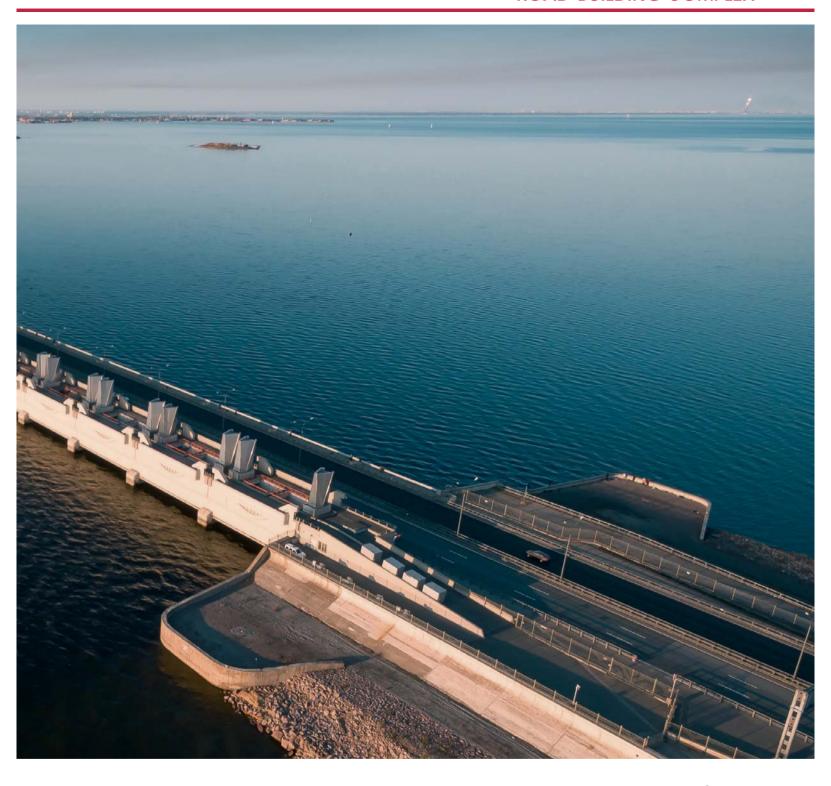


Emelyanovo Krasnoyarsk



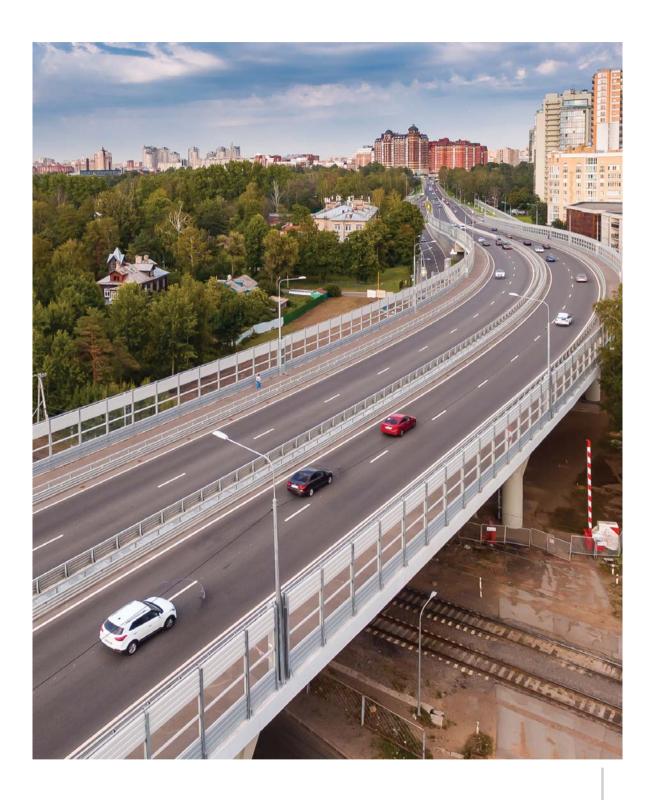


#### **ROAD-BUILDING COMPLEX**



Water release structure B-1 St. Petersburg





Overpass in the alignment of Poklonnogorskaya street through the railway tracks of the Vyborg direction St. Petersburg

#### CONSTRUCTION OF ARTIFICIAL STRUCTURES

The construction of artificial structures is a technologically complex process, which often takes up most of the volume of all work. The portfolio of the Vozrozhdenie Production Association includes many completed objects of various engineering types, such as overpasses, interchanges, tunnels, retaining and bridge structures, mudflow protection and water release structures due to many years of experience and qualifications of the company's specialists.

One of the unique projects of the Vozrozhdenie Production Association is the construction of a tunnel in St. Petersburg to unload traffic flows and expand the Pirogovskaya embankment, which serves as one of the main transit highways of the city. Continuous traffic is provided throughout the embankment after reconstruction. Another tunnel built by the company is the road tunnel under the Pulkovskoye Highway in the area of the left turn to the city of Pushkin.

The overpass through the railroad tracks of Shushary station, Ruchevskiy and Rossiyskiy overpasses, Poklonnogorskaya and Ushakovskaya interchanges, road interchange Western high-speed diameter at the intersection with the Novoe highway with three exits and the construction of the highway and overpass adjacent to it, the WHSD interchange at the intersection with Shuvalovsky Prospekt with six exits provided, as well as toll booths, the overpass on Peterburgskoye Highway, interchange and exit from the Ring Road in the alignment of Engels Avenue and the city of Murino and many others has been built in St. Petersburg with consolidated effort of company's specialists.

Currently, Vozrozhdenie ZAO PO is building new important engineering facilities for St. Petersburg, for example, the interchange at the intersection of Moskovskoye highway and Dunaisky Prospekt, as well as the interchange at the intersection of Leninskiy Prospekt and Ostuzhev Street with an overpass in Voronezh.

The Production Association also took part in the construction of the M-11 toll highway linking the two largest cities in Russia – Moscow and St. Petersburg. 10 bridges and overpasses with one-lane and two-lane traffic has been built as part of the project.

During the construction of the main engineering structure for the city – a dam, protecting the city from floods, the Vozrozhdenie Group of Companies built one of the water discharge structures on the side of the city of Lomonosov.

Two overpasses, connecting the international Turkmenbashi airport with the Avaza National Tourist Zone on the coast of the Caspian Sea, have been put into operation in Turkmenistan as well as 12 facilities of the East-West transport corridor in Ashgabat and many other facilities.

In the southern part of Ashgabat, construction of ten mudflow storage facilities is currently underway, where the channels of 12 ravines with an increased risk of mudflows will be directed. Engineering structures under construction will help protect the city from mudflows.





Transport interchange of the Western High-Speed Diameter (WHSD) highway at the intersection with Novoe highway. St. Petersburg



Transport interchange of the Western High-Speed Diameter (WHSD) highway at the intersection with Shuvalovsky Prospekt. St. Petersburg



Rossiyskiy Prospect St. Petersburg



Ushakovskaya transport St. Petersburg





East-West Transport Corridor Ashgabat. Turkmenistan



Transport interchange with highways at the intersection of the K. Kulieva street from the Andalibf street.

Ashgabat. Turkmenistan



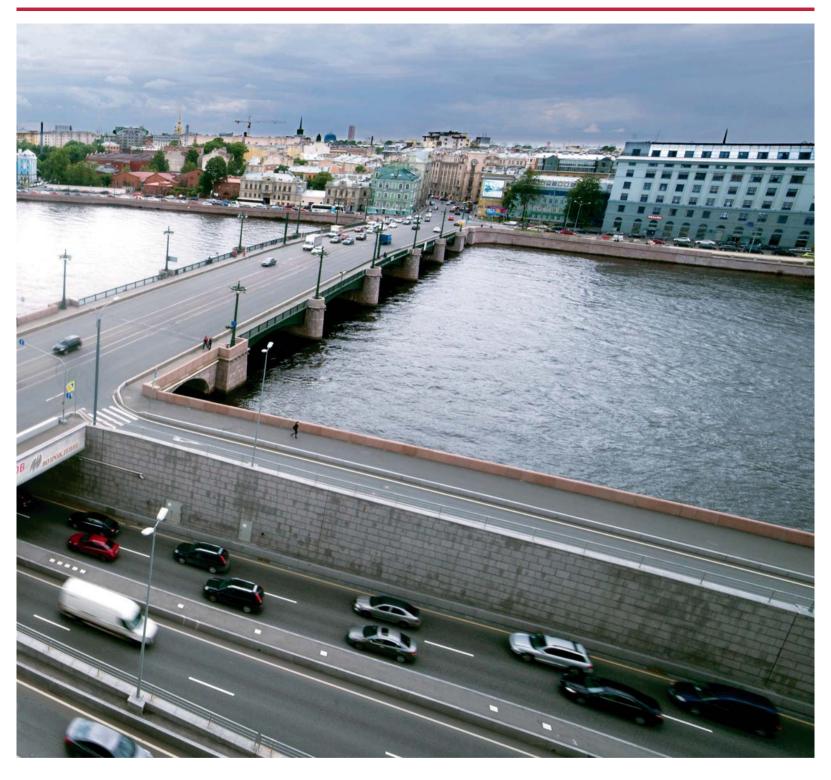
Bridge across the Karakum River in the alignment of Andaliba street Ashgabat. Turkmenistan



 $\label{thm:continuous} Transport\ interchange\ at\ the\ intersection\ of\ the\ Ashgabat\ -Turkmenbashi\ highway} \\ Ashgabat\ .Turkmenistan$ 

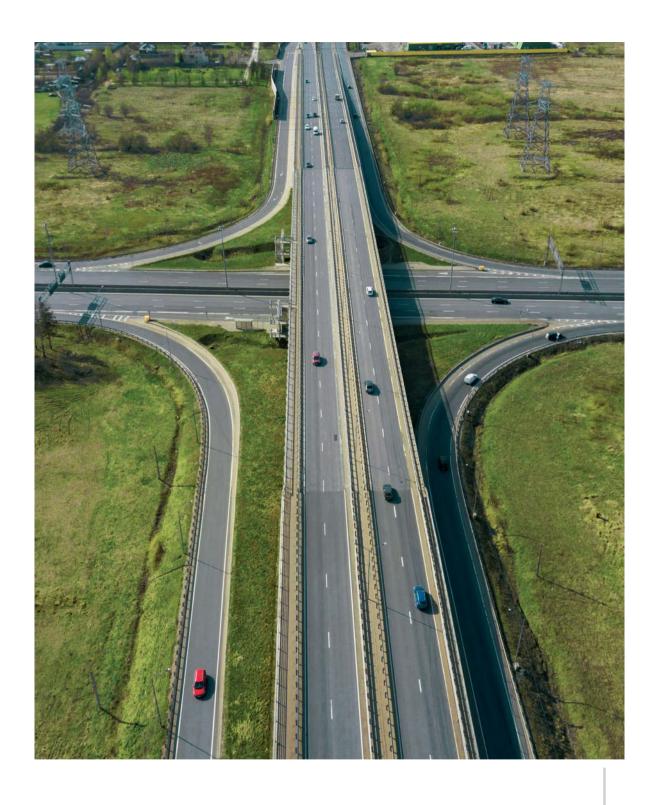






Pirogovskaya embankment St. Petersburg





M-20 Highway (Kiev highway) St. Petersburg

#### CONSTRUCTION OF ROADS AND HIGHWAYS

Nowadays, road construction is a complex set of works, in which hundreds of people and dozens of specialized enterprises and organizations take part. Specialists of Vozrozhdenie Production Association use advanced road construction technologies when implement complex transport infrastructure development projects that meet international standards, taking into account the climatic and seismic conditions of the regions.

The set of works on roads and highways construction includes the design and creation of working documentation, engineering work, the reconstruction of heating networks, the installation of sewers, lighting and power supply, the installation of pavement, the installation of traffic lights and other technical means for traffic control, landscaping and many other works.

Over the years, large-scale projects have been implemented to develop the transport infrastructure of many cities, including highways important for St. Petersburg, for example: Dunaiskiy Prospekt, A-121 highway (St. Petersburg – Sortavala), the continuation of Piskarevskiy Prospekt with access to the Ring Road (KAD), the reconstruction of M-20 federal highway St. Petersburg – Kyiv with three overpass interchanges and a tunnel, the construction of the Peterburgskoe highway with an overpass across the railway tracks and a transport interchange in the direction of the Expoforum Convention and Exhibition Center, Mitrofanevskoe highway with an overpass across the railway tracks, arrangement of Vitebskiy Prospekt from the village of Shushary to Moskovskoe highway with the construction of an underground pedestrian crossing and the creation of overpasses over the Moskovskoe highway, over the subway tracks and over the Vitebsk railway.

Moreover, the construction of several sections of the ring road of the Eastern semicircle with a length of more than 25 km in the area of the Moskovskoe highway, at that time the first facility in St. Petersburg equipped with the ATCS system (Automated Traffic Control Systems) to ensure the organization of traffic safety on the roads, had been accomplished. The latest completed projects of the Vozrozhdenie Production Association include the construction of an extension of Veteranov Avenue in the Krasnoselsky District.

Vozrozhdenie Engineering and Construction Group has been extensively operating not only in Russia, but also in the countries of near and far abroad. Since 2009, a number of tenders has been won for the design and construction of key road transport infrastructure facilities of Turkmenistan. The East-West transport corridor, the Southern Ring Road, roads to the Yyldyz Hotel and the Akhal-Teke Equestrian Complex of the President of Turkmenistan, the 25-kilometer long Archabil Avenue have been put into operation and highways connecting Turkmenbashi airport with the Avaza national tourist zone located on the Caspian coast of Turkmenistan have been constructed.





Peterburgskoe highway St. Petersburg



A-21 (Petergofskoe highway) St. Petersburg



Veteranov Avenue St. Petersburg



Ring road (KAD). Eastern semicircle St. Petersburg





Construction of roads to a five-star hotel Ashgabat. Turkmenistan



 $\label{thm:continuous} Transport\ interchange\ with\ highways\ at\ the\ intersection\ of\ K. Kulieva\ street\ with\ A.\ Niyazova\ street\ Ashgabat.\ Turkmenistan$ 



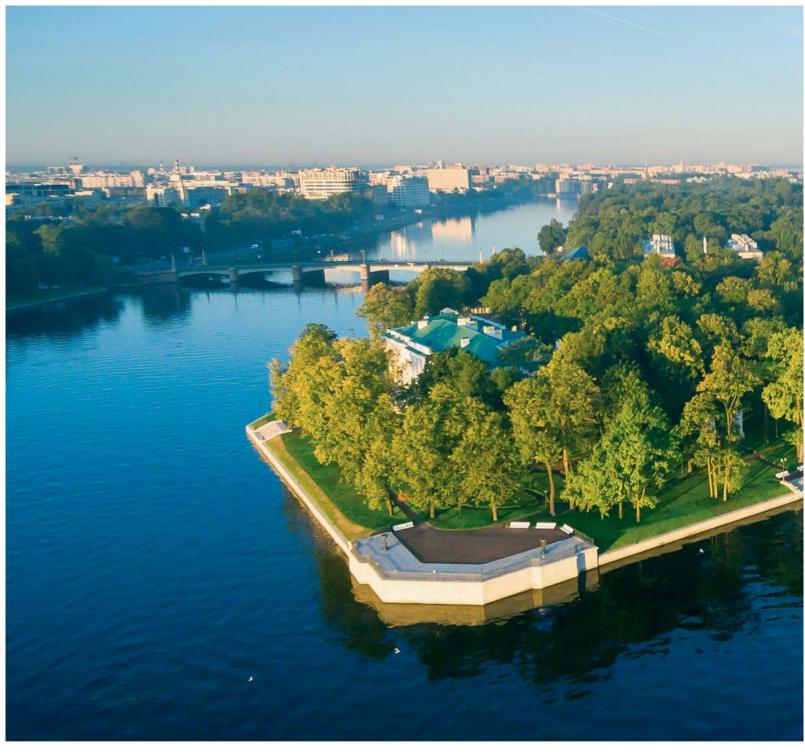
Reconstruction of Archabil Avenue Ashgabat. Turkmenistan



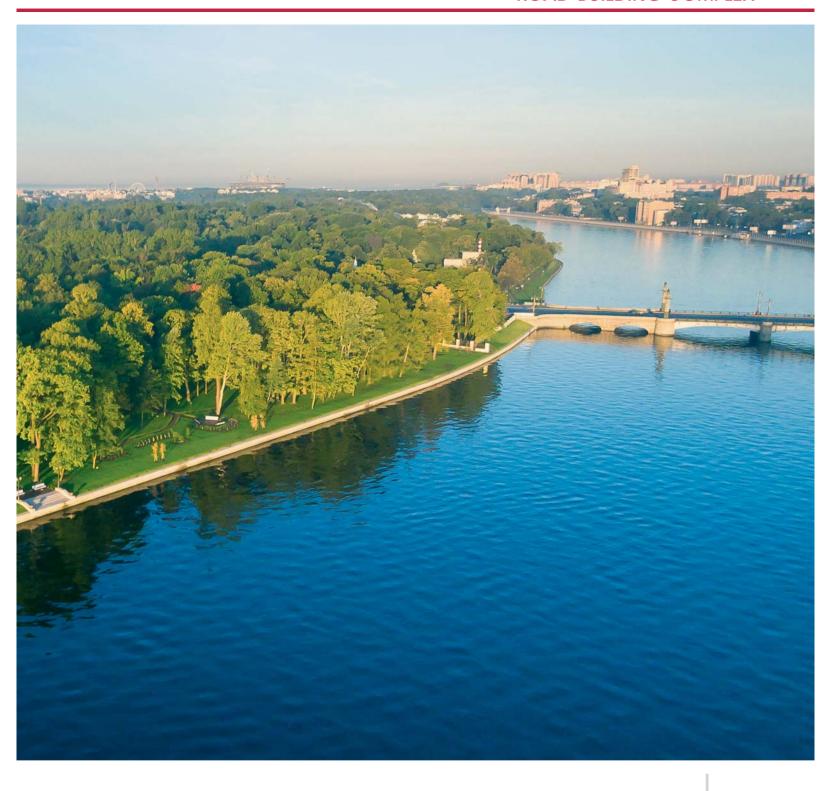
A section of the ring road from Bekrevenskoe highway to the intersection of Andalib street and Aylav highway.

Turkmenistan



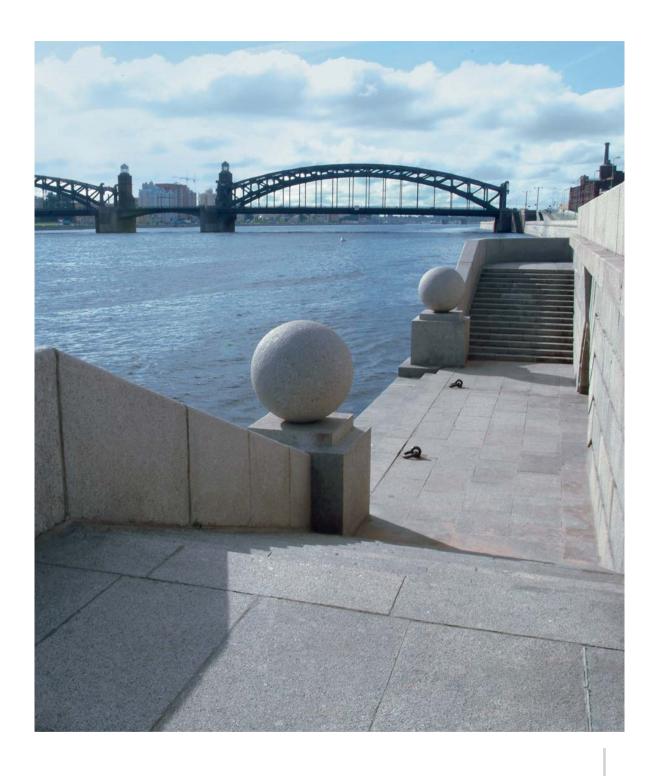


## **ROAD-BUILDING COMPLEX**



Reconstruction of the embankments of the Bolshaya and Malaya Nevka rivers St. Petersburg





Smolnaya Embankment St. Petersburg

## MAJOR REPAIRS AND RECONSTRUCTION OF EMBANKMENTS AND BRIDGES

Many years of experience in the construction of new engineering structures enables Vozrozhdenie Group of Companies to implement contracts for the overhaul and reconstruction of existing artificial structures. Technologically, this process differs from the construction of new facilities in that the work is carried out directly at the existing facility, which is to be completely rebuilt with new technical parameters, while maintaining or changing its overall dimensions. Due to the overhaul and reconstruction of the existing engineering structures, the bearing and throughput capacities increase, and the structural design is completely updated, which extends the service life of the facility.

Transport and pedestrian traffic increasing over time in the central part of St. Petersburg gave Vozrozhdeniye Production Association the possibility to master a new direction – the overhaul of bridge crossings. This type of work require complete dismantling of bridge supporting structures and strengthening of its reinforced concrete vaults. Most of the bridge elements, such as railings, adjustable mechanisms are restored and reinstalled. Specialists also carry out bottom dredging and reinforcing works with the involvement of divers. The scope of work also includes the reconstruction of engineering networks, redevelopment of adjacent territories and the restoration of decorative elements of the bridge. For several years of work, the Vozrozhdeniye Production Association has completely overhauled Zeleniy and Torgoviy bridges, which are regarded as the architectural monuments of St. Petersburg, the company is currently repairing the 1st Elagin Bridge on Krestovskiy Island and the Birzhevoy Bridge in the Central District.

Vozrozhdeniye Production Association carried out overhaul and reconstruction of a large number of embankments of St. Petersburg, the traditional decoration of which is granite: Angliyskaya, Dvortsovaya, Smolnaya, Arsenalnaya, Admiralteyskaya, Oktyabrskaya, Pirogovskaya embankments, the embankment of the Fontanka River and the Griboedov Canal, Zhdanovskaya embankment around Petrovskiy stadium and many others. In the course of the work, the retaining walls and the decorative elements have been restored.

Vozrozhdenie Group of Companies has its own quarries and natural stone processing plants, which makes it possible to implement large-scale projects using a rich assortment of colors and textures in the lining of embankment retaining walls.

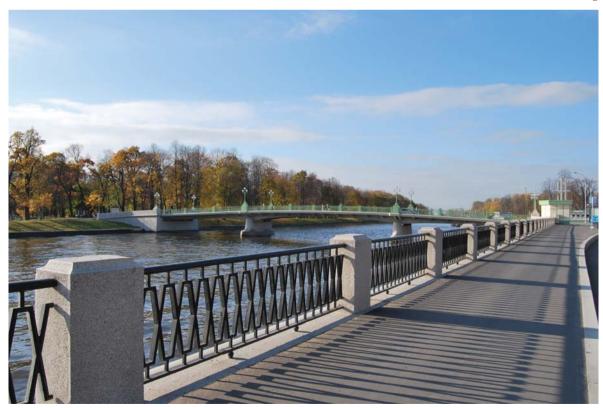
New embankments in St. Petersburg built by the company include the embankments of the Bolshaya and Malaya Nevka rivers, Okhtinskaya embankment, Primorskaya, Malookhtinskaya, Sinopskaya, the embankment of the Petrovskiy entrance channel in the Galernaya harbor of Vasilyevsky Island and the embankment in the 300th anniversary of St. Petersburg park. The constructed embankments contribute to elimination of the existing erosion and strengthen the coast, while granite facing not only differs in quality and durability, but also repeats the historical appearance of the St. Petersburg embankments.

Moreover, the embankments of other cities have been reconstructed by the specialists of Vozrozhdeniye ZAO PO and Management Company Vozrozhdeniye Trading House LLC, for example: the embankments in Rostov-on-Don, Samara, Yoshkar-Ola, Sofiyskaya embankment and Alexander Nevsky embankment in Veliky Novgorod, Marc Chagall embankment, Krymskaya and Krasnopresnenskaya embankments in Moscow.

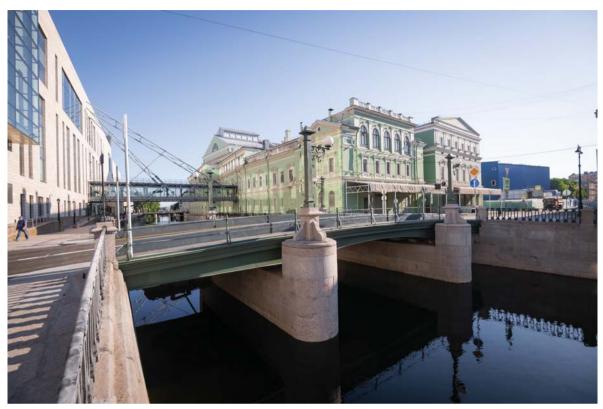




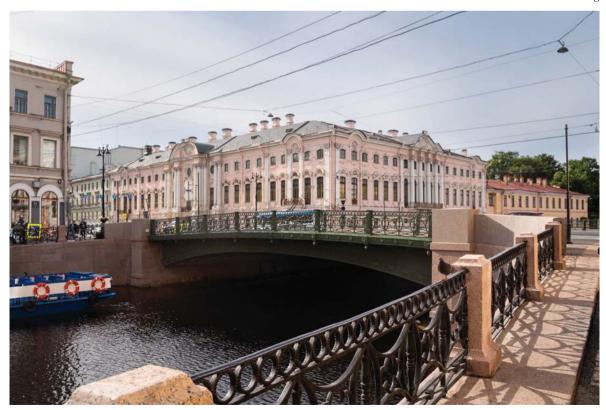
Sinopskaya Embankment St. Petersburg



Embankment of Primorsky Prospekt St. Petersburg

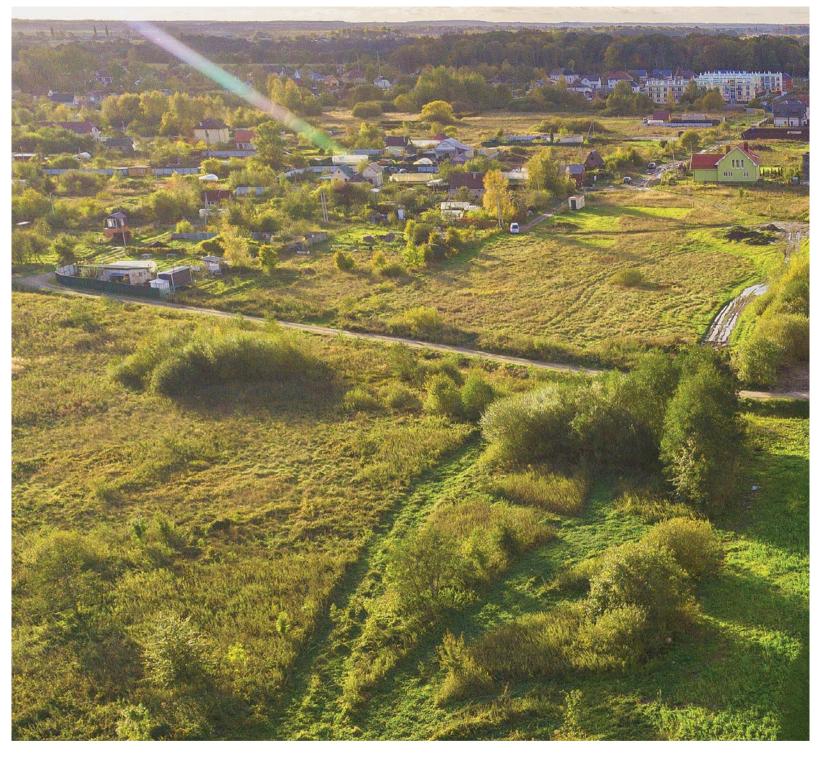


Torgoviy bridge St. Petersburg



Zeleniy bridge St. Petersburg



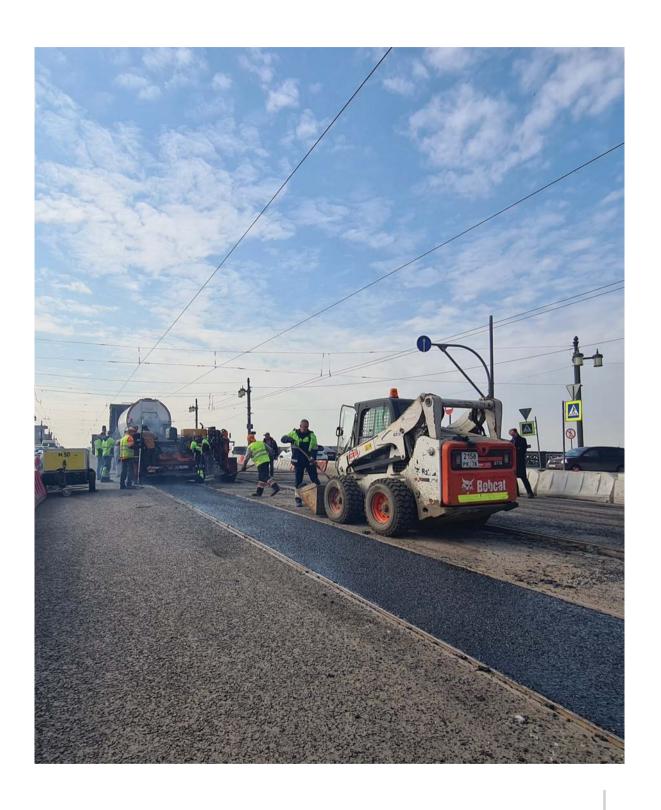


### **ROAD-BUILDING COMPLEX**



Overhaul of the highway Vishnevoye - Sosnovka - Verbnoe - Gusevo Kaliningrad





Repair of Liteyniy Bridge St. Petersburg

### **MAINTENANCE**

Daily intensive operation of the road inevitably leads to wear of asphalt pavement, even the highest quality one. Chemical reagents, vehicle traffic, weather conditions and other influences on the coating sooner or later lead to cracks, and later to deformation and destruction. Regular and timely repair is the best solution to prevent the destruction of the road.

Highway maintenance is a set of works that includes the complete restoration of a damaged roadbed and road elements.

Side stones are repaired at the initial stage of the current repair of the highway as follows: the curb stone is checked with subsequent reorganization. The curb stone lines are set to the design position, the concrete curb is to be 100 % replaced with a new one, the granite one is to be changed locally.

Next, the existing asphalt pavement is removed by cold milling using the TRIMBLE 3D system. This system makes it possible to get the accuracy of the surface within one centimeter and remove the asphalt in strict accordance with the design marks, based on the project prepared by the geodetic service.

At the main stage of the current repair of the road, the installation of a leveling asphalt concrete pavement layer is carried out in the necessary areas and the installation of the upper layers of asphalt using an asphalt loader.

During the current repair, the company's specialists rebuild tiled and asphalt concrete pavements on pedestrian sidewalks adjacent to the roadway of the repair facility. They replace or repair hatches of manholes of underground utilities and stormwater inlets of stormwater wells.

At the final stage, road markings are applied, the technical means of organizing traffic (artificial irregularities) and disturbed amenities are restored, including landscaping.

The trend in the field of current repair of highways in Vozrozhdenie Group of Companies has existed for almost five years. Every year, work on more than 40 streets of St. Petersburg is carried out. The completed contracts cover such streets as Sofiyskaya, the road to Pulkovo Airport, Bratiev Gorkushenko Street, Sadoviy and Liteiniy Bridges, Sadovaya Street, Lenina Street, Badaevskiy Prospekt, Dobrolyubova Prospekt, Dvinskaya Street, Putilovskaya Embankment, passage to theMorskoy Canal, Stachek Avenue etc.

Recently, the Vozrozhdeniye Production Association has used concreting of the carriageway during the reconstruction and construction of certain categories of federal roads. When laying concrete pavements, the service life of roads increases significantly. The company is actively developing this direction in Kaliningrad at such facilities as Vishnevoye – Sosnovka – Verbnoe – Gusevo, Zelenogradsk – Primorsk through Svetlogorsk and many others.

The integrated approach of the specialists of Vozrozhdenie ZAO PO in the performance of the current repair of the highway and the availability of modern specialized equipment make it possible to simultaneously perform asphalting work on several sections of the roadway and sidewalks and complete the entire scope of work in the shortest possible time. This gives motorists the opportunity to travel comfortably without long delays and traffic restrictions.





Project for the construction of a connection between the Obvodniy Canal embankment and Obukhovskoy Oborony Avenue St. Petersburg



The project for the reconstruction of the M 20 highway from the turn to Pushkin to Doni village Leningrad region

### **DESIGN INSTITUTE**

Streets and roads design of is one of the primary elements of the urban planning pattern. Along with high aesthetics and design requirements, the project shall reflect the potential functioning of the traffic flow and the development of the road network. An appropriate project of roads and streets ensures the safety of pedestrians and traffic flows. This is an important task, in which preference is given not only to economy, but also to the ergonomics of space, taking into account the characteristics of the environment and minimizing the harmful effects on it.

A high-quality project provides for the creation of the shortest passenger connection between places of residence, work, the city center and remote areas. The project should calculate the possibilities for the future development of the transport network capacity, the rapid redistribution of car flows, best possible mapping for the distribution of various engineering networks and utility lines.

Vozrozhdeniye Group of Companies includes Sevzapengtechnologia Research, Design and Survey Ltd. Design Institute. The Institute offers customers a full range of services for the design of transport infrastructure facilities, the adaptation of foreign projects in accordance with national standards of Russia, geodetic and engineering geological surveys, inspection of existing buildings and engineering structures, architectural supervision of the state of construction and reconstruction object.

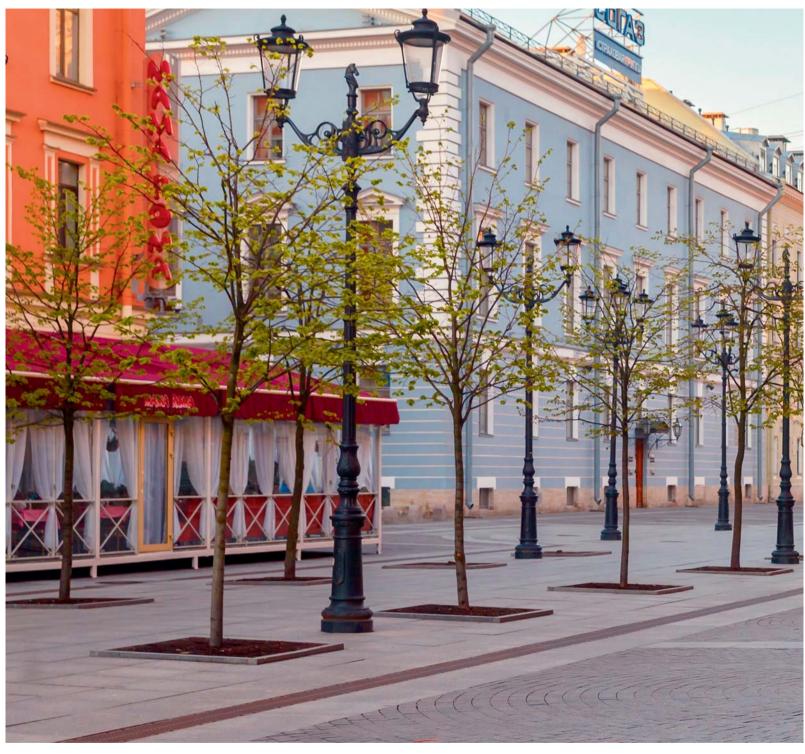
The company's major business activities are designing all categories of motor and municipal roads, traffic interchanges and overhead crossings, utility networks, projects for development, redevelopment and landscaping of areas.

Project development would normally involve technical facilities that have undergone special tests and have licensed software. Front end engineering design work encompass state-of-the-art technologies for data acquisition on the site in reference, i. e. geophysical surveying methods, ground and GPS surveying, mixed technologies, satellite navigation systems, surface laser scanning. The institute holds the required licenses and authorizations to perform the full scope of documents at all stages of the design engineering process.

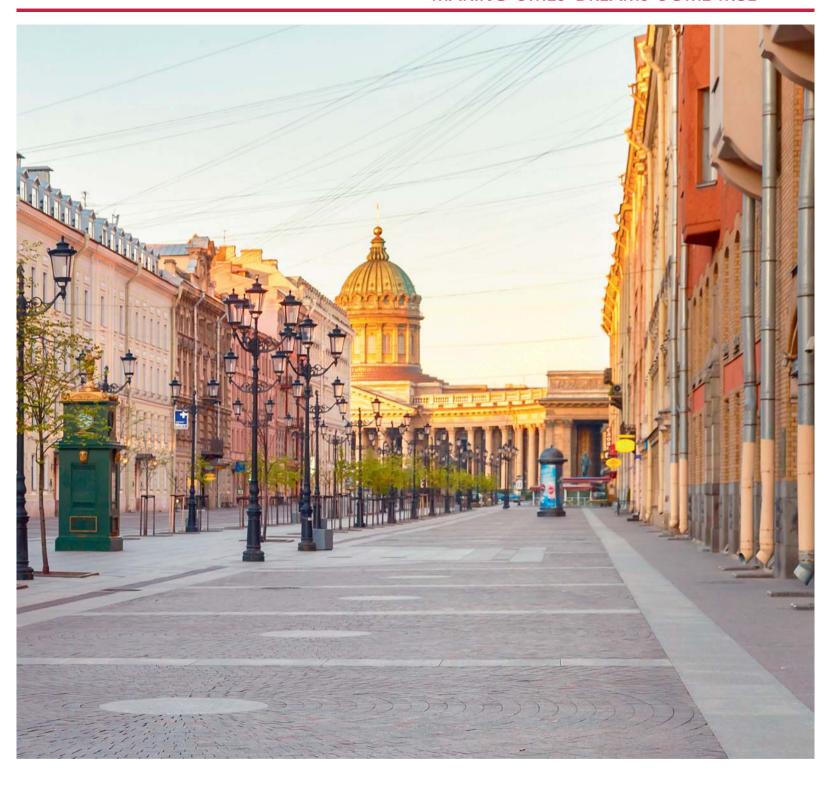
Close attention is paid to designing in the historical parts of the city. When embarking on a project, research work with specialized literature is required, that is why specialists study archival materials in detail, street names in different periods of history, types of buildings located in the area under development as well as style and color scheme. The information obtained is required to create a new interesting improvement project that preserves the unique style of the street and its historical importance, while adding modern solutions in order to attract visitors to the city and create comfort for its residents.

During the 20 years of work the specialists of Sevzapengtechnologia Research, Design and Survey Ltd. Design Institute have developed more than 2000 projects, the institute is rightfully proud that it can take part in changing the appearance of cities and improving the life quality of people due to to a well-designed infrastructure.



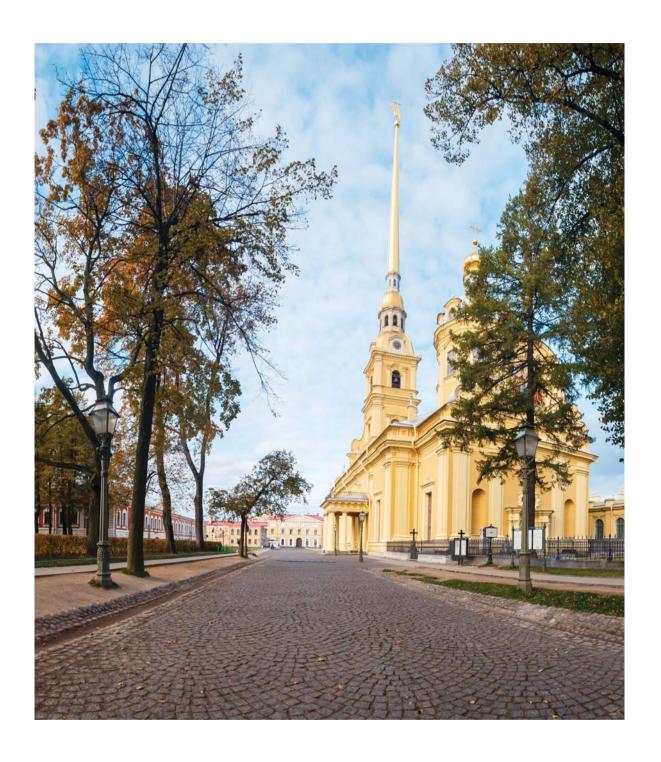


## MAKING CITIES' DREAMS COME TRUE



Malaya Konyushennaya street St. Petersburg





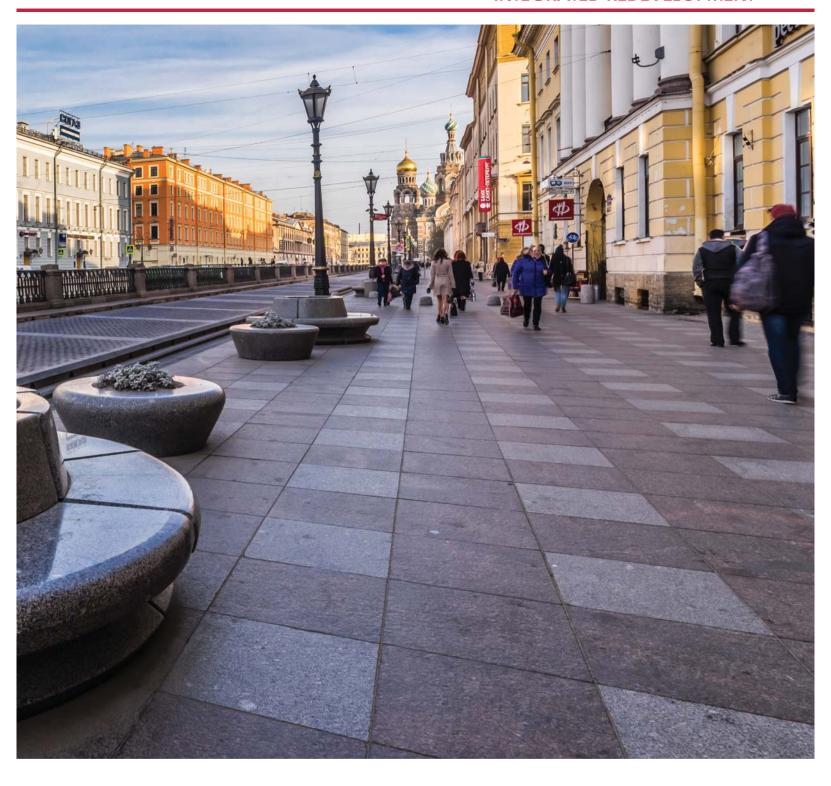
Peter and Paul Fortress St. Petersburg

# INTEGRATED REDEVELOPMENT



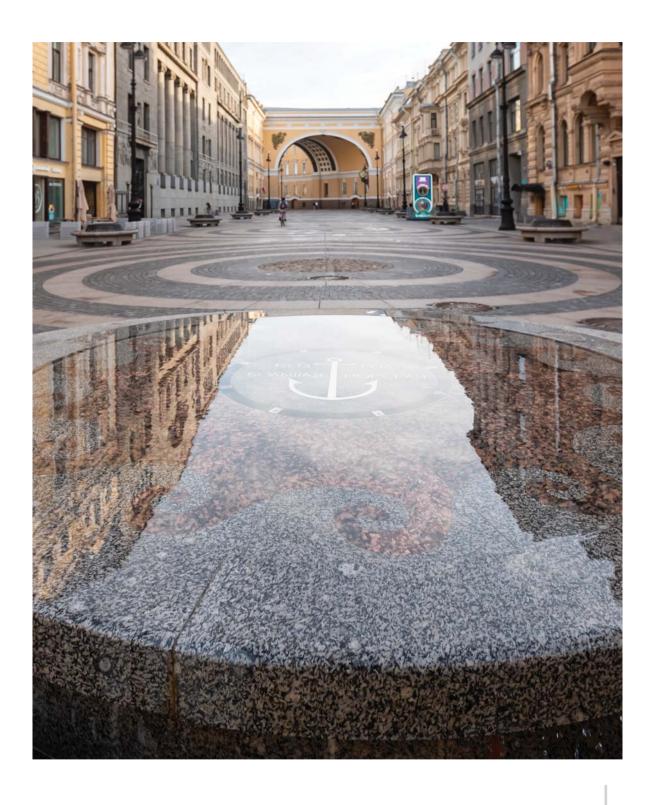


## INTEGRATED REDEVELOPMENT



Embankment of Griboyedov Canal St. Petersburg





Bolshaya Morskaya street (View of the arch of the General Staff Building) St. Petersburg

#### REDEVELOPMENT

Vozrozhdenie Production Association performs the entire range of works on the reconstruction of engineering communications, paving of squares and streets using natural stone, landscaping of adjacent areas, installation of small architectural forms and lighting poles.

The company has a license issued by the Ministry of Culture of the Russian Federation, which allows it to work with cultural heritage sites and valuable historical monuments. The Peter and Paul Fortress, where renovation, complex reconstruction of engineering networks and redevelopment were carried out, is a prime example. The Peter and Paul Fortress is the hallmark of St. Petersburg.

The company has developed and implemented large-scale projects for the reconstruction and improvement of the central squares of St. Petersburg: Palace Square, Birzhevaya Square on the Spit of Vasilyevsky Island, Sennaya Square, Arts Square, Decembrists Square, Ostrovskiy Square. The implemented projects comprise the central streets and avenues of the Northern capital: the Griboyedov Canal embankment, Liteiniy, Vladimirskiy, Zagorodniy, Nevskiy and Kamennoostrovskiy avenues, Chernyshevskiy avenue, Galernaya, Marata, Furshtatskaya streets, 6 – 7 lines of Vasilevsky Island, 1st Sovetskaya street, Tchaikovskogo street, as well as other key historical objects, which are the hawsers of the architecture of the Northern capital.

Redevelopment and reconstruction of central streets make it possible to increase the economic attractiveness of the region, improve the ecological state of residential areas, and create a safe and comfortable for living environment in big cities.

With the assistance of the specialists of Vozrozhdenie AO PO and MC Vozrozhdenie Trading House OOO, the historical centers of other Russian cities such as Moscow, Samara, Volgograd, Astrakhan, Bryansk, Penza, Rostov-on-Don, Veliky Novgorod have also received a new look. Well-maintained streets and squares were equipped with fountains, convenient parking areas, bicycle paths, new lanterns and benches. This made it possible to turn historical sites into comfortable recreation areas for residents and guests.

Specialists of the Vozrozhdeniye Group of Engineering and Construction Companies pay great attention to landscaping, creating new and restoring existing gardens and parks, installing fountain complexes and architectural ensembles in recreational areas for citizens.

In 2008, a square dedicated to the memory of the outstanding St. Petersburg composer Andrey Petrov, was laid out on Kamennoostrovsky Prospekt of the Petrograd Side, where the masters of the Vozrozhdenie company in collaboration with the art studios of the city created the First Violin sculptural ensemble – eight stylized granite figures symbolizing the mission of the composer and the importance of music in human life.

We are especially proud of the unique fountains and fountain complexes created by the masons of MC Vozrozhdeniye Trading House OOO. Due to the same craftsmen, Malaya Sadovaya Street is hard to imagine without a fountain with the famous granite ball in the center.





St. Petersburg. Galernaya street



St. Petersburg. 1st Sovetskaya Street



St. Petersburg. Mayakovskogo Street



St. Petersburg. Potemkinskaya street



St. Petersburg. Arts Square



St. Petersburg. Vosstaniya Street



St. Petersburg. Italianskaya street



St. Petersburg. Karavannaya street



St. Petersburg. Furshtatskaya street



St. Petersburg. Bolshaya Konyushennaya Street



Moscow. Hermitage Garden



St. Petersburg. Nevsky Prospect





Astrakhan. Fountain complex on the Lenin square



Moscow. Krymskaya Embankment



Moscow. Square near the Kazansky railway station



St. Petersburg. Marata street



Moscow. Pyatnitskaya street



Petrovsky entrance channel Emb. in Galernaya harbor V. I.



 $Moscow.\ Kuznetsky\ Most\ Street$ 



St. Petersburg. 6 – 7 line V. I.



Samara. Leningradskaya street



Velikiy Novgorod. Kremlin territory

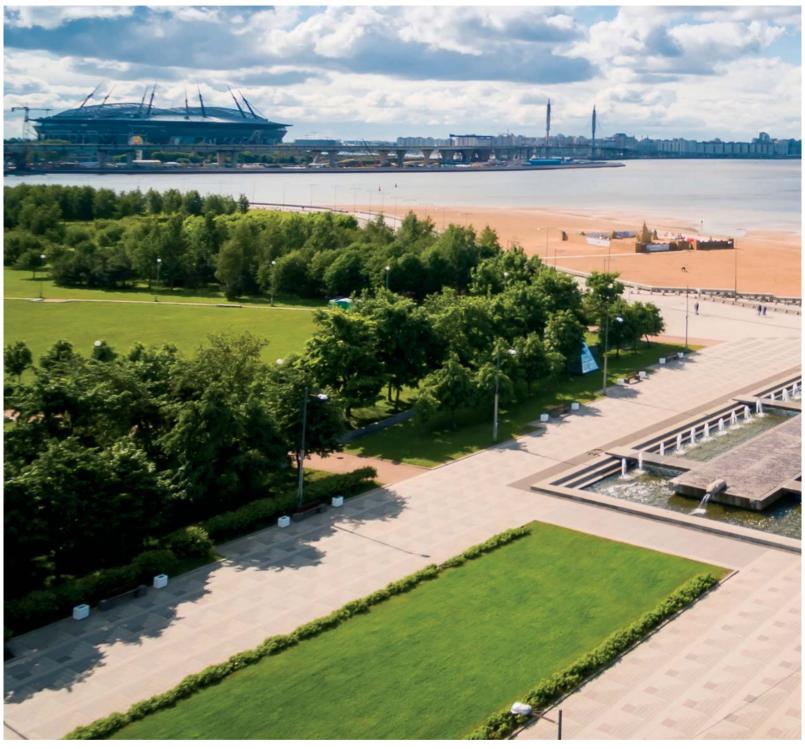


Penza. Cinema and concert hall

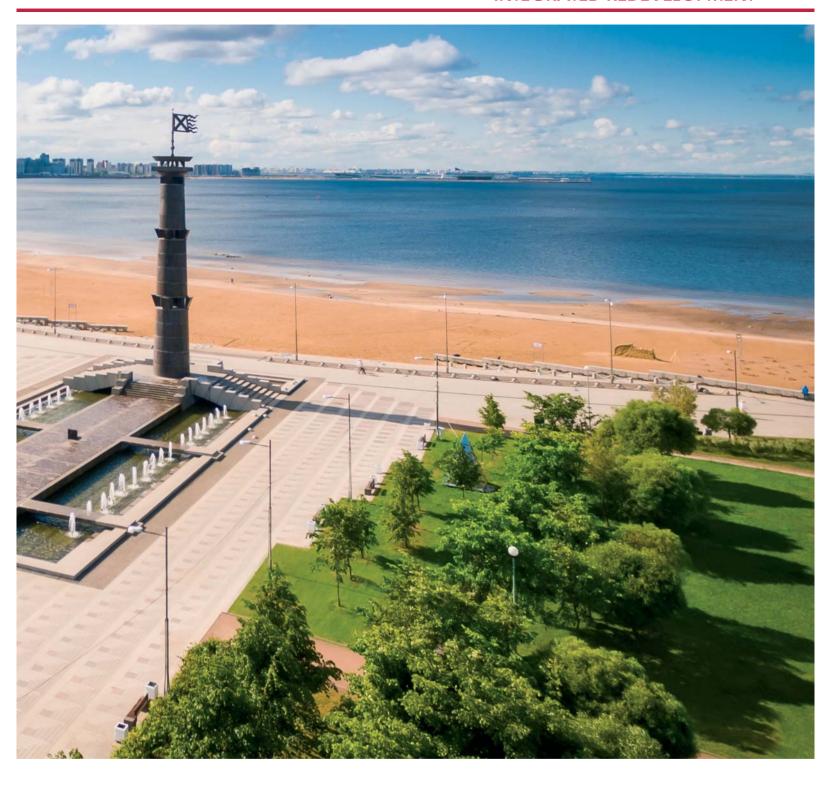


Vyborg. St. Elijah's Church



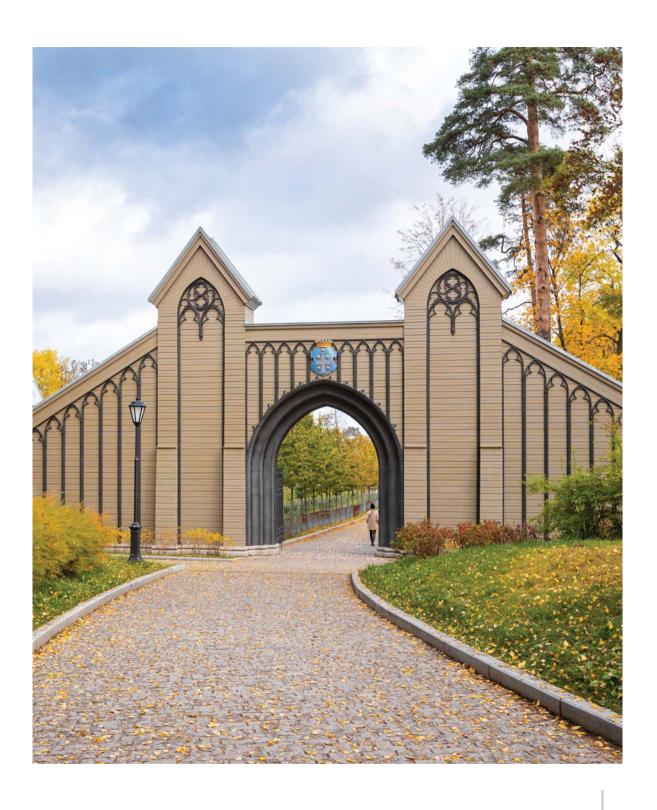


## INTEGRATED REDEVELOPMENT



Park of the 300th anniversary of St. Petersburg St. Petersburg





Mon Repos rock park Vyborg

### CONSTRUCTION AND RESTORATION OF PARKS

Modern landscape construction technologies available to Vozrozhdenie Group of Companies allow for a full cycle of landscaping and laying out parks and squares: designing and creation of projects, lawns, planting green spaces. The company's specialists are also engaged in turnkey engineering works: laying drainage systems, water disposal systems and power lines.

Due to the specialists of Vozrozhdenie ZAO PO, a new spirit was put into Alexandrovskiy park in Petrogradskiy District, the Alexander Garden, located next to the Admiralty, was completely restored and replenished for the Victory Day in the Great Patriotic War. The park complex in the Moskovsky District, a public garden named after composer Andrei Petrov was created.

The mastership of Vozrozhdenie specialists was shown to its highest degree during the construction of the St. Petersburg's 300th anniversary Park. On its territory exceeding 90 hectares, redevelopment, paving, landscaping and equipping the Gulf of Finland embankment have been completed. The Central Lane of the park is adorned with a fountain design, in the centre of which there is a three-storey granite pillar looming over the whole composition – 22 meters high Lighthouse made at the stone processing plant of the Vozrozhdeniye Group of Companies.

In 2017, Vozrozhdeniye Production Association began the restoration of Mon Repos - the unique rocky landscape park in Russia - in the city of Vyborg. Restoration work has not been carried out in the park for more than 100 years, therefor the park was in disrepair. The Rosenthal dam, which protects the park from floods from the Gulf of Finland, was completely destroyed, and the lack of a drainage system resulted in the swamping of the park and the mass death of trees. Historic buildings survived the fire, and wooden log cabins were damaged by house fungus by 80 %. The main problem facing the company's specialists was to recreate the historical appearance of the park complex with adaptation for museum and exhibition functions. During the implementation of this contract, work was carried out on the installation of engineering utility lines, the restoration of open and closed drainage systems. The dam was restored, bank protection was completed and the piers were restored. The restoration of the main wooden buildings of the park was completed: the Manor House, the Library Wing, the Manager's House, the Gardener's House. After the examination, the 1st class restorers performed dismantling, reassembly and assembly of buildings with partial replacement of log cabin elements. Moreover, the design documentation implied the reconstruction of historical buildings with adaptation to the museum on the basis of current Russian standards. Historic interiors are being restored. Unique cast-iron and tiled stoves were restored. New fire equipment and burglar alarms were installed. The historic gate with the family coat of arms was restored.

A greenhouse, the administrative buildings for storing inventory, a dining room for visitors, guest parking lots, and toilets were built for the needs of the park. For the first time the park was equipped with special coatings, ramps and descents for people with limited mobility. The regular structure of the park was restored on the basis of archival documents: the road and path network was recreated, the Fruit and Topiary Garden, the Healing Garden, the Kitchen and Greenhouse Gardens were planted, a rolled lawn was arranged, and a plant watering system was installed. Specialists are planting new flowers, shrubs, trees and even medicinal herbs, as well as treating diseased trees, ponds located on the territory were cleaned.

It is worth noting that this unique object is being carried out by the highest class restorers and the general contractor – Vozrozhdenie Group of Companies – has all the necessary permits and a licenses issued by the Ministry of Culture to perform such work.

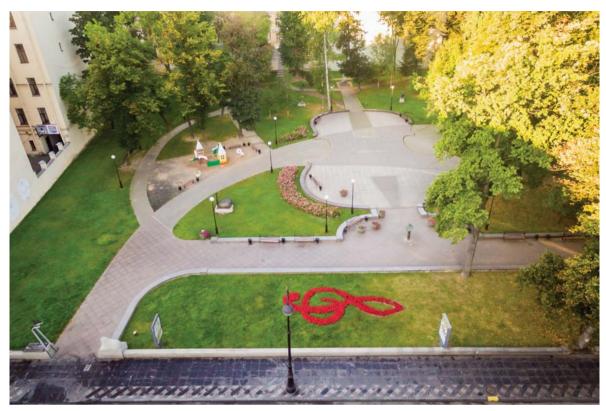




Mon Repos rock park. Vyborg



Mon Repos rock park. Vyborg



Square named after Andrey Petrov. St. Petersburg



Alexandrovskiy park St. Petersburg



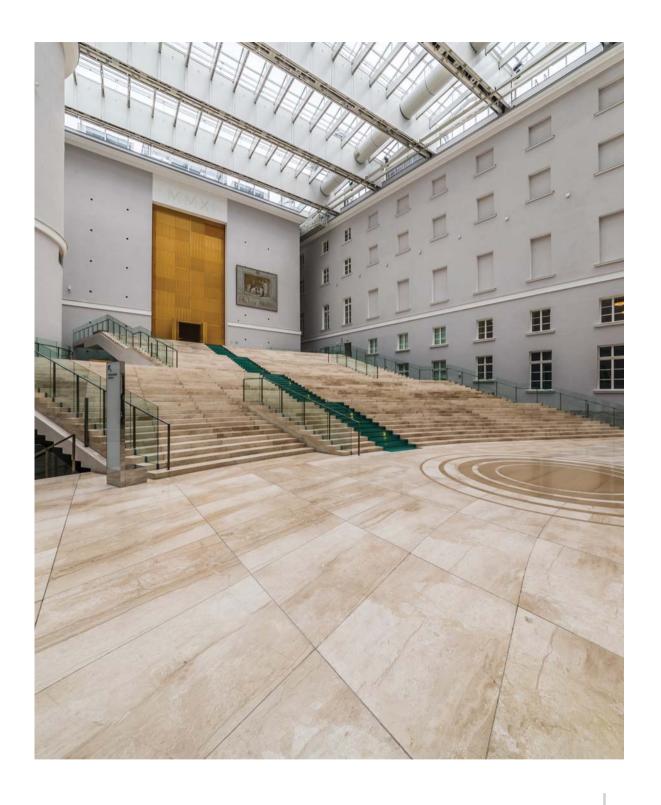


## INTEGRATED REDEVELOPMENT



Drama theatre Penza





Atrium of the General Staff Building St. Petersburg

### **FACING**

The appearance of any city is primarily created by architecture. Materials and technologies are of key importance for facings and facades. Vozrozhdenie Engineering and Construction Group has many years of experience in the cladding of residential, commercial, citywide buildings and structures. The construction management of the company employs first-class specialists constantly improving their skills and havingrich experience in working with projects of any complexity, specificity and volume.

During the period of its activity, Vozrozhdenie Group of Companies completed facade cladding of large residential and commercial facilities in St. Petersburge, including luxury ones: Platinum RC, Tsarskaya Stolitsa RC, Residentsiya na Rrestovskom RC, Moskovskiy Kvartal, Brilliant House Club House, Crown Plaza Hotel and many others. The company also implemented a contract for the cladding of the Lakhta Center multifunctional public and business complex.

The company is particularly proud of its participation in the reconstruction and restoration project (2008 – 2010) of the eastern wing of the General Staff Building, which was transferred to the State Hermitage Museum. The marble used in the project was brought directly from Italy. Specialists managed to create products for cladding in the form of rays of a radial shape. The complexity of the installation of such elements consisted in joining the plates to each other at different angles. The lower tiers of the premises of the eastern wing of the General Staff Building were lined with stone from the company's own deposits.

MC VOSROZHDENIE Trading House OOO has proved to be a reliable contractor and supplier of facing materials throughout Russia. In Moscow, the company completed the repair and restoration work of the stylobate part with the balustrade of the complex of the Cathedral of Christ the Savior. Facing was carriedout using granites from the own deposits of Vozrozhdeniye Group of Companies. A complete replacement of the coating of granite slabs and paving stones with a new one was made.

Moreover, in Moscow, the facades of the residential complexes "English Quarter" and "Italian Quarter" and the houses located on Soviet Army street were revetted. An important project in the Moscow region (Istra) was the facing of the Sberbank Corporate University interiors, where the builders installed granite floor slabs and stairs. In Penza, the company's employees completed the cladding of the building of the State Philharmonic Society, the Cinema and Concert Hall and the Drama Theatre. The combination of dark stone and glass successfully emphasized the architectural style of the city's sights.

Vozrozhdeniye Production Association and Vozrozhdeniye Trading House Management Company work inclose contact with stone processing plants that produce facing materials for delivery to facilities underconstruction or reconstruction. Products manufactured at factories are distinguished by a variety of product ranges, a wide range of colors and textures, a rich assortment of decorative and facing elements made of natural stone. Such cooperation ensures the highest quality of work at the facility in compliance with contractual terms.





St. Petersburg. Brilliant House Club House



St. Petersburg. Sportivnaya-2 Metro station



Moscow. The State Duma



St. Petersburg. Atrium in the Stockmann department store. The fountain



St. Petersburg. Crown Plaza hotel



St. Petersburg. Luxury RC Residentsiya na Krestovskom



Penza. Regional Philharmonic



St. Petersburg. Luxury RC IdealniyMir



Moscow. Moscow Hotel



Moscow region, Istra. Sberbank Corporate University



Penza. Regional Philharmonic



Velikiy Novgorod. Arbitration Court of the Novgorod Region



Velikiy Novgorod. Arbitration Court of the Novgorod Region



St. Petersburg. HC "Platinum"



St. Petersburg. Courtyard Hotel Marriott St. Petersburg Pushkin



 $\label{eq:St.Petersburg.}$  Atrium in the Stockmann department store.



St. Petersburg. Sberbank branch



St. Petersburg. HC "Tsar's Capital"







Monument to the Victims of Political Repressions St. Petersburg





Copy of the capital of the Temple of Bel in the city of Palmyra (Syria) Kubinka. Moscow region

#### MONUMENTAL SCULPTURE

Modern urban squares, avenues, streets and parks can hardly be imagined without monumental sculpture. The most important historical events and entire epochs are captured in the art of architects. Monumental sculpture can be called the living history of the country without exaggeration. Throughout its history, the stone processing plants of Vozrozhdenie Group of Companies have been cooperating with domestic and foreign sculptors. Our stonemasons create genuine works of art that shape the look of modern cities and become centers of attraction for citizens in different parts of Russia and abroad.

The history of monumental sculpture trend development in Vozrozhdenie Group of Companies began with the manufacture of the famous obelisk "To the Hero City of Leningrad" in the center of Vosstaniya Square. Conveying the spirit of wartime in the manufacture of monumental compositions, the company repeatedly takes part in the federal program for the installation of obelisks "City of Military Glory". The masters of the company created memorial complexes in Vyborg, Yelets, Vladikavkaz, Luga, Bryansk, Rostov-on-Don, Tikhvin, Vladivostok, Gatchina, Petrozavodsk. A granite memorial with the names of 1008 soldiers of the Red Army was erected in Ligovo. The Triumphal Arch in Krasnoye Selo was restored in honor of the 70th anniversary of the Great Victory. A memorial sign of the 6th division of the Moscow People's Militia was unveiled in Moscow.

Preserving the history of Russian cities, such famous symbols of St. Petersburg, as a granite memorial sign in the form of an open book "Message Through the Ages", a monument to the First Builders of St. Petersburg, a monument to the Victims of Political Repressions, Milestone memorial sign on the Moscow Highway were manufactured on the plants of the company. On the occasion of the 1150th anniversary of Veliky Novgorod, the Hanseatic Sign composition was unveiled, the center of which is an eight-meter granite circle inlaid with colored mosaics in the form of the coats of arms of the countries participating in the Hanseatic League. A monument to Alexander III was erected in the Gatchina Palace in honor of the 175th anniversary of the birth of the Russian tsar-peacemaker, the opening ceremony of which was attended by Russian President Vladimir Putin. In Nizhny Novgorod, on the occasion of the 800th anniversary of the birth of the great commander Alexander Nevsky, the first equestrian monument in the city was erected. A distinctive feature of the monument is its dimensions. The creation of pedestals of this size for monuments is feasible due to the technical capabilities of the stone processing plants of the Vozrozhdeniye Group of Companies.

In addition to federal projects for the creation and reconstruction of architectural monuments and monumental sculpture, the company manufactures and installs historical compositions abroad. Turkmenistan, Yerevan, London – these countries and cities are united by the implemented projects of the company's specialists. A monument to the children of besieged Leningrad was erected in the Vahagn Davtyan square in Yerevan. On the occasion of the 60th anniversary of the first manned flight into space a monument to Yuri Gagarin was erected on the territory of the Russian Embassy in Turkmenistan. The monument to Peter I was erected in 2001 in memory of the several months spent by Peter I in London, where he studied shipbuilding at the royal docks.

An exceptional feature of Vozrozhdenie Group of Companies when creating monumental sculpture and composition is the availability of materials from its own deposits, high-precision equipment from the best world manufacturers, professionals capable of performing the most difficult artistic task, including manually – this is what allows the Vozrozhdenie Group of Companies to create the most exquisite and technically complex works of monumental sculpture. So, in 2020, a copy of the capital of one of the main monuments of the ancient Syrian city of Palmyra, the Temple of Bel, destroyed by militants of the Islamic State, was made from an 11-ton block of Israeli limestone. This unique project of a part of the capital, created from drawings and a 3D model, exactly matches the architectural elements of the lost heritage.





St. Petersburg. Monument "Glory to the Russian Navy"



St. Petersburg. Obelisk in honor of the 300th anniversary of the establishment of the Order of St. Andrew the First-Called



St. Petersburg. Monument "Column of Glory"



Novosibirsk. Monument to Alexander III



Murom. Monument to Peter and Fevronia



Moscow. Monument to Patriarch of Moscow and All Russia Hermogenes



St. Petersburg. Krasnoye Selo. Triumphal Arch of Victory



London. Monument to Peter I



St. Petersburg. Square Named after Andrey Petrov. Violin Sphinx



Yerevan. Monument to the children of besieged Leningrad



St. Petersburg. Square named after Andrey Petrov. Violin Swan



St. Petersburg. Birzevaya Square. Spit of V. I. Granite ball on a pedestal



Astrakhan. Fountain complex on the Lenin square.



St. Petersburg. Art Square



Gatchina. Leningrad region. Monument to Alexander III



 $\label{eq:St.Petersburg.Spit} Spit of \ V. \ I.$  Memorial sign – anchor of the era of Peter I



St. Petersburg. Fountain on Malaya Sadovaya street



St. Petersburg. Memorial sign "Message through the ages" on the University embankment





Moscow. Fountain complex near the Bolshoi Theater



Moscow. Monument to Pyotr Stolypin



 $\label{eq:Moscow} Moscow.$  Monument to the poet Gabdulla Tukay



Moscow. Fountain and a monument



Moscow. Monument to George the Victorious to the writer and poet Alexander Tvardovsky



Moscow. Lanterns near the Cathedral Church of Christ the Savior



St. Petersburg. Memorial sign-monument "To those who suffered for the faith of Christ"



St. Petersburg. "2000 years from the birth of Christ"



St. Petersburg. Memorial sign "Reunification of the Russian Orthodox Church Abroad with Russian Orthodox Church of the Moscow Patriarchate"



St. Petersburg. Monument to Admiral Pavel Nakhimov



St. Petersburg. Memorial sign "Milestone"



St. Petersburg. Monument to Daniil Granin





Velikiy Novgorod. Monument Hanseatic Memorial Sign Monument to the writer Mikhail Zoshchenko



Petrozavodsk. Memorial obelisk "City of Military Glory"



Yelets. Memorial obelisk "City of Military Glory"



St. Petersburg. Monument to test pilot V. P. Chkalov



Moscow. Commemorative sign to the 6th division Moscow people's volunteer corps



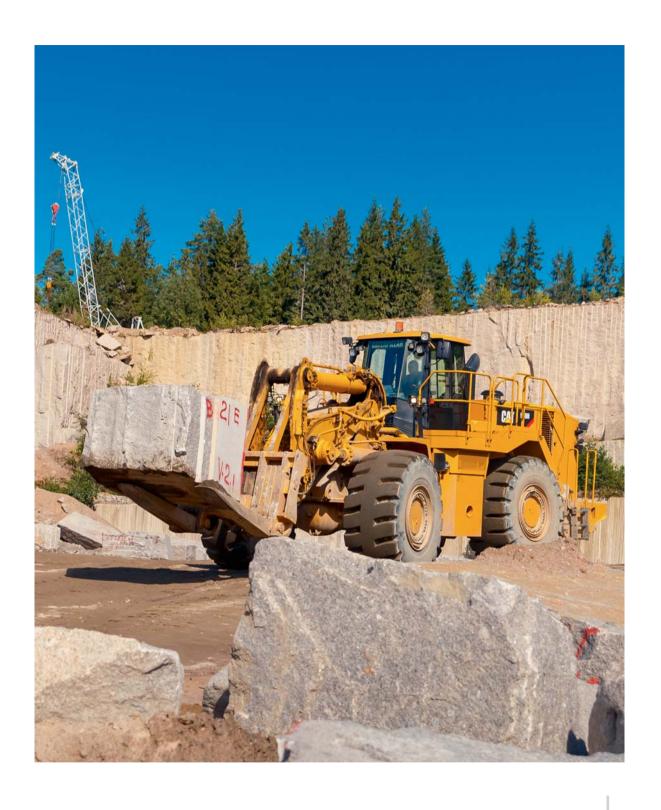


# MAKING CITIES' DREAMS COME TRUE



Quarry "Vozrozhdenie" Leningrad Region

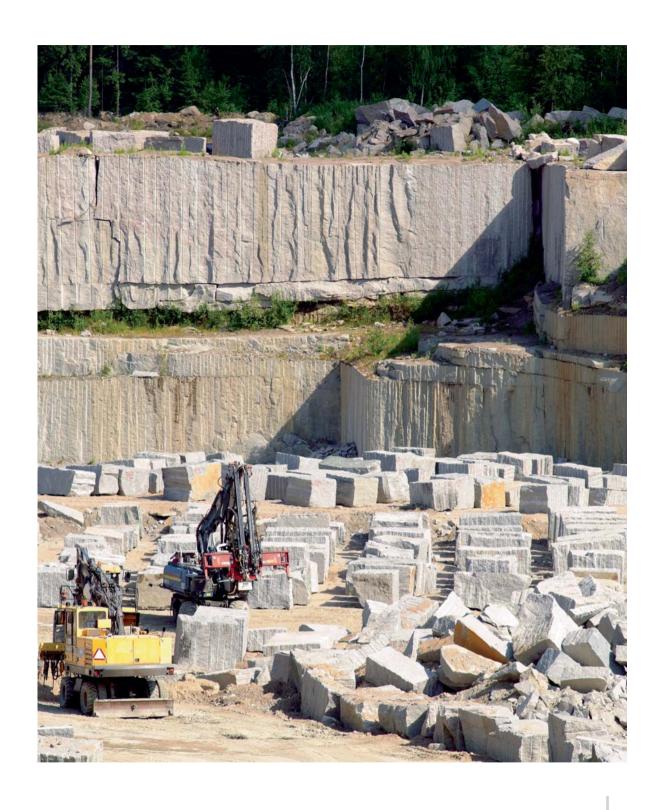




Quarry "Vozrozhdenie" Leningrad region

# MINING AND STONE PROCESSING





Quarry "Vozrozhdenie" Leningrad region

# **NATURAL STONE QUARRIES**

Vozrozhdenie Engineering and Construction Group unites the largest enterprises in the Northwestern region engaged in extraction and processing of natural stone and non-metallic materials. In the assets of the enterprise MC Mining Department of the Vozrozhdenie Production Association OOO include seven natural stone quarries and two stone processing plants. MC Mining Department of the Vozrozhdenie Production Association OOO extracts more than 40,000 m³ of granite blocks per year, produces more than 50,000 m² of slabs and more than 150,000 linear meters of granite curb.

The management company Mining Department of Vozrozhdenie Production Association was created on the basis of the "Vyborg Quarry Administration", which since 1955 has been engaged in the extraction of granite blocks and the production of crushed stone. In 2002, these two areas split. As a result, an enterprise for the production of crushed stone ("VKU" ZAO) and an enterprise for the extraction and processing of granite blocks (Mining Department of Vozrozhdeniye OOO) were formed.

Currently, the structure of the Mining Department includes seven own quarries in the Leningrad region and Karelia and two stone processing enterprises on the sides of the Vozrozhdeniye and Baltiyskoe quarries. The company is constantly searching for and exploring promising deposits of decorative granites in Russia and abroad.

- Vozrozhdenie field
- · Baltiyskoe field
- · Nigrozero deposit
- Sopka Buntina deposit
- Kalguvara-1deposit
- Elizovskove-1 deposit
- Shoksha deposit

Due to the mineral composition and color variations, granite is an indispensable material in the road and construction industries, in the improvement of urban areas, gardens and parks.

Quarry mining is carried out year-round by drilling and blasting, using charges of soft blasting, and by diamond-wire sawing. These technologies make it possible to extract large-sized blocks of the correct geometric shape without loss of natural quality.

OOO Management Company Mining Department of Vozrozhdenie PO is the undisputed leader in the production of granite blocks in Russia. Advanced materials, technologies and equipment, used even with traditional mining methods, allow not only to increase the physical volumes of production, but also significantly improve the quality of the blocks being mined. Developed transport infrastructure, availability of loading areas for road and rail transport ensure timely delivery of products to any region of Russia. The unique border location makes it possible to organize flexible logistics for export deliveries with customs clearance in the city of Vyborg.

Since 2008, a program has been implemented for the complete processing of stone mining waste into crushed stone and screenings. Stone processing equipment is specially selected for efficient processing of substandard raw materials and mining waste into granite products for road construction and urban improvement.





Vozrozhdeniye stone processing plant St. Petersburg

### STONE PROCESSING PLANTS

Stone processing plants of MC Vozrozhdeniye Trading House OOO and OOO MC Mining Department of Vozrozhdenie PO is a production with a full cycle of work from sawing a block to assembling products. Owing to modern equipment and experienced craftsmen, the company produces high-quality products that comply with GOST and the requirements of the most demanding customers. Own production base makes it posiible to reduce manufacturing costs, a large warehouse of standard products and blanks, as well as optimal loading of stone processing workshops ensure a high speed of order processing.

At the stone processing plants of the Vozrozhdenie Group of Companies, modern rope and disc machines are used for sawing blocks. High-tech equipment allow sawing blocks up to 2.5 m high, while leaving the surface perfectly smooth.

The production base of the plants includes: sawing machines, milling machines, stone splitting presses, polishing machines, texture processing lines. The plants use equipment from leading European manufacturers for the production of modular tiles, moreover, a high-tech line for the production of paving stones has been installed. All plants are equipped with the latest Italian diamond wire sawing machines of Pellegrini, Simec, Benetti brands, as well as modern stone processing equipment GMM, Breton, Prussiani, Maema, Candiani, Steinex, Omag made in Italy.

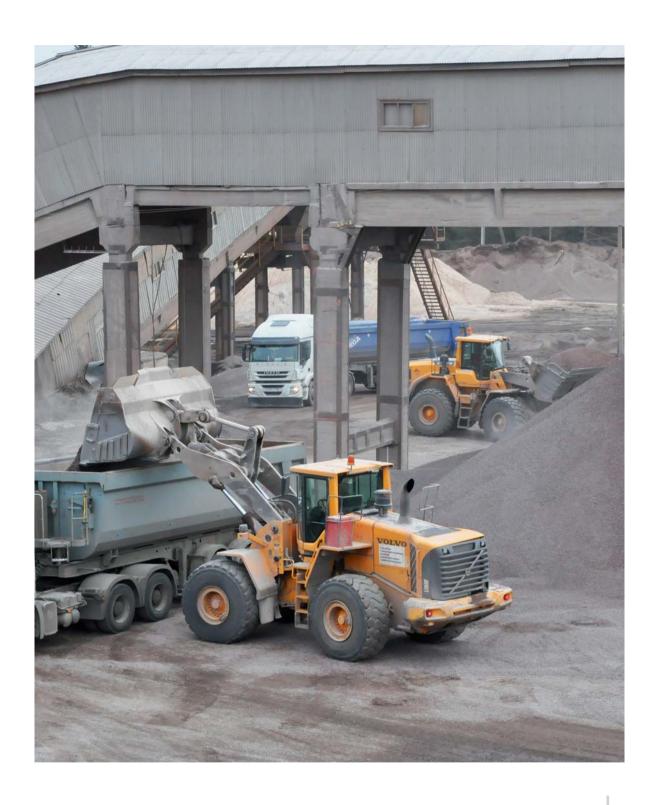
Vozrozhdenie Group of Companies systematically upgrades equipment using the latest world experience in the field of stone processing. For example, in 2016, the only 10-wire Pellegrini machine for the production of thick-gauge plates was put into operation in Russia. Moreover, a 56-rope Bideseimpianti machine for the production of thin-size slabs operates at one of the plants, which has no analogues in Russia.

The company owns one of the few plants in Russia with manual processing of natural stone, where masons carry out exclusive orders of any complexity. The high quality of the products and their unique aesthetic properties were appreciated by Russian and foreign buyers.

#### Types of products:

- Granite monumental sculpture: monuments, obelisks, memorial structures, sculptural compositions etc.
- Slabs made of natural stone of various textures (polishing, heat treatment, aqua treatment, bush hammering, polishing, polishing, antique). Processing in various ways gives the same type of stone different decorative and operational properties.
- Facing plates made of natural stone.
- Granite products for paving: paving slabs, entry and embedded stones, side stone, water intake bowls and gutters, full-sawn, sawn-sawn and chipped paving stones.
- Granite architectural elements and products: parapets, cornices, portals, steps, fountains, columns, entrance groups, pedestals, balls, cubes, columns etc.
- Products: window sills, countertops, bar counters, portals, fireplaces, handrails, balusters, steps, skirting boards, mosaics and other decorative items made of natural stone.
- Complex architectural products according to individual sketches.





Erkilya quarry Leningrad region

### CRUSHED GRANITE PRODUCTION PLANTS

Crushed stone and sand are one of the main building materials used the construction, reconstruction, repair of roads, bridges and overpasses, housing and industrial construction. The qualitative characteristics of non-metallic materials largely affect the consumer properties of construction objects (cohesion coefficient, evenness, etc.). Crushed stone, used for the construction of the upper layers of pavement, subjected to high mechanical loads and natural factors, is the basis of strength and durability.

The structure of Vozrozhdenie Group of Engineering and Construction Companies includes plants for the production of crushed granite, workshops for the production of limestone and crushed stone, sand quarries located on the territory of Russia and Turkmenistan. The manufactured products are of high quality and excellent physical and mechanical properties. The enterprises that are part of Vozrozhdenie Group of Companies regularly modernize the technological equipment for crushing, sorting crushed stone and the vehicle fleet.

Vozrozhdenie-Nerud Management Company OOO is the leading enterprise engaged in extraction, processing, production, sale and delivery of building non-metallic materials. The company has three plants for the production of crushed granite and three quarries for the extraction of crushed granite. Crushed stone is produced at the deposits Erkilya, Lyaskelya, Krasnovskoye. Modern mining equipment ensures the production of more than 3 million m³ of crushed granite of various fractions annually. The company is one of the three leaders in the market of non-metallic building materials in the North-West region of Russia. The manufactured products are of high quality and excellent physical and mechanical properties. The enterprise regularly modernizes the technological equipment for crushing, crushed stone sorting and the vehicle fleet.

- Erkilya quarry is located in the city of Vyborg, Leningrad Region. The enterprise produces granite crushed stone of fractions 5 20 mm, 20 40 mm, 40 70 mm, granite screenings of fraction 0 5 mm, as well as CSM fractions 70 150 mm, 200 400 mm and SSM C5, SSM C4, etc. Shipment of production is made in railway and motor transport.
- Krasnovskoye quarry is located in the Vyborgsky district of the Leningrad region, the Krasny Sokol railway station. The quarry was put into operation in 2014. The enterprise produces high-strength granite crushed stone of fractions 5 20 mm, 20 40 mm, 40 70 mm, granite screenings 0 5 mm.
- The Lyaskelya quarry is located in the village of Lyaskelya. The enterprise produces high quality crushed granite stone with fractions of 5 20 mm, 20 40 mm, 40 70 mm, as well as CSM with a fraction of 70 260 mm. Shipment of production is made in railway and motor transport.

Modern mining equipment ensures the production of over 1.5 million m³ of crushed stone of various fractions per year. Shipment of production is performed using railway and motor transport.

Vozrozhdenie-Nerud Management Company OOO is a supplier of crushed stone for all major infrastructure construction projects, including the M-12 Moscow – Kazan highway, the Ultramar multifunctional marine transshipment terminal, the Hyundai engine plant, the interchange the Western High-Speed Diameter route with Shuvalovsky Prospekt, the Nord Stream-2 main pipeline, the Portovaya complex for the production, storage and shipment of liquefied natural gas, the M-11 Moscow – St. Petersburg.





Diamond wire workshop St. Petersburg

# DIAMOND WIRE PRODUCTION

In the course of implementation of the development program for a new direction for the production of stone processing tools, RITM-Energo OOO, which is part of MC Vozrozhdeniye Trading House OOO, opened a workshop for diamond wires production from imported components. The production of domestic diamond wires used for sawing granite blocks has become especially important in the framework of the Russian import substitution policy and in conditions of high inflation.

RITM-Energo approached the opening of the rope shop with all responsibility and maximum professionalism. Significant research and tests have been carried out, as a result of which ropes and hawsers from China, Italy, India and Poland have been tested. European equipment has been purchased, such as injection molding machines (presses), a machine for stringing hawsers, a machine for counting hawsers and measuring the length of a rope, a kiln, a sandblasting machine, a granulator, ultrasonic baths and drying ovens. The availability of a full range of necessary equipment and qualified personnel make it possible to produce diamond wires that are not inferior in quality to imported analogues.

Some time after all the tests, the first plasticized ropes were produced. The results obtained showed high performance when sawing hard granite, which was twice as high as the performance of the world's best manufacturers. The equipment of the workshop makes it possible to produce various products with high quality and in a short time: ropes for single-rope machines with a diameter of 11.5 mm, for multi-rope machines with a diameter of 7.4 mm, 8.5 mm and ropes for mining machines with a diameter of 11.5 mm. Moreover, the company is engaged in the production of hawsers of various diameters. The production of diamond wires is designed to meet the needs of not only the own stone-working production of the companies that are part of MC Vozrozhdeniye Trading House OOO and Vozrozhdeniye Group of Companies, but also Russian enterprises. RITM-Energo OOO fruitfully cooperates with small, medium and large businesses. All products of the diamond wire workshop have been tested and certified according to the GOST R certification system.

During the pandemic, Vozrozhdenie Group of Companies managed to establish the only production facility in Russia not only for the production of diamond wires, but also to work out the technology for replasticizing wires. If earlier the ropes broken during sawing were sent for recycling, now RITM-Energo OOO offers the chance to use the deformed ropes again. The technology consists in melting the rope in a specialized furnace, after which the dismantled hawsers are cleaned and sandblasted, the diameters are compared and sent for assembly. Depending on the use, hawsers are strung on rope, rubber or vulcanized with plastic.

In terms of international supply restrictions associated with the pandemic situation in the country, RITM-Energo OOO expanded the types of rope products. Currently, the company has opened a construction site for cutting reinforced concrete structures using its own specialized ropes, where rubber is used instead of plastic. These ropes were actively used during the dismantling of the Ligovsky overpass and in the near future will be involved in the dismantling of the Birzhevoy Bridge.

The production of ropes used for cutting reinforced concrete structures was preceded by the acquisition of the German press machine "Boy" by the company. On this press, tests continue to create the openpit ropes, which will become one of the types of products manufactured by RITMEnergo OOO, which will ensure uninterrupted supply of ropes to the open pits of the fields of the Vozrozhdenie Group of Companies, regardless of the international situation.





Concrete-mixing plant St. Petersburg

# ASPHALT CONCRETE AND CONCRETE PLANTS

Vozrozhdenie Engineering and Construction Group owns four asphalt plants with a total capacity of 800 tons perhour. The production of asphalt concrete is carried out on high-tech and powerful equipment of Westerncompanies, in particular, the American equipment ASTEC of the M-Pack model is used, which eliminates vehicledowntime during loading. KLEEMANN's own crushing and screening plant with a capacity of 180 m³ per hourguarantees the quality and homogeneity of the inert materials used.

The presence of three heated silos (each with a volume of 200 tons) makes it possible to simultaneously ship upto three types of different asphalt mixtures and store finished products for up to four days, according to ASTECquality standards. Recipes have been worked out at the plants and all types of traditional asphalt concrete and crushed-stone-mastic asphalt are produced. The introduction of additives of high-polymeric substances into bitumen makes it possible to obtain a new binder material with improved properties. In this regard, in May 2017, a bitumen modification plant from the Danish manufacturer ENH ENGINEERING was put into operation, with a capacity of 15 tons per hour. The production of asphalt concrete based on polymer-bitumen binder allows increasing the wear period of the coating by more than 1.5 times and reduces dependence on PBB manufacturers.

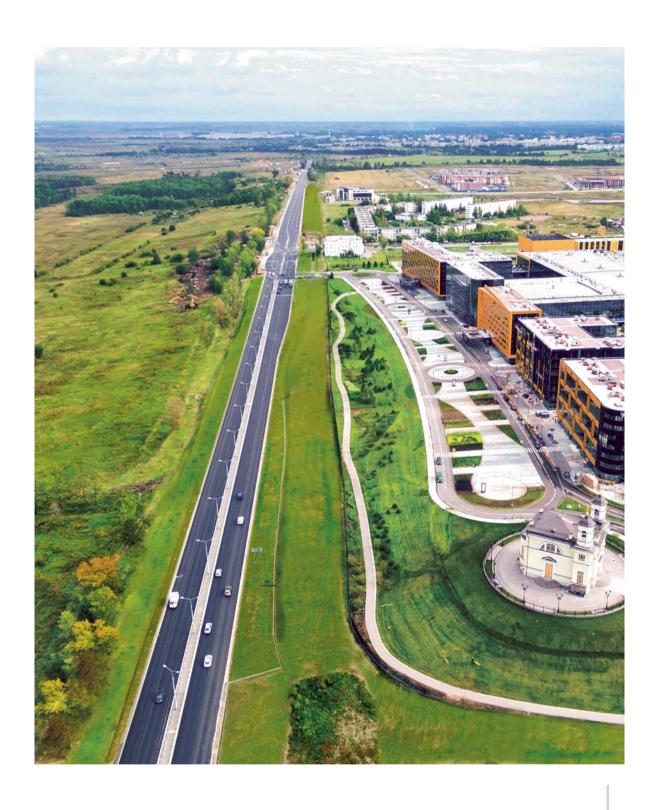
#### **CONCRETE PLANTS**

Vozrozhdenie Group of Engineering and Construction Companies includes Beton OOO, which manages theproduction of concrete mixtures. High-performance production of concrete of all grades and classes isensured by the latest equipment from leading European manufacturers. LIEBHERR equipment (Germany)with a capacity of 100 m³ of concrete per hour is installed at all concrete plants of the company. Theenterprises have their own fleet of dump trucks with a carrying capacity of 25 to 40 tons, concrete mixertrucks with a volume of 5 to 10 m³ and concrete pumps with a boom length of 17 to 42 m. Heating ofmaterials for concrete production in winter is carried out using equipment from POLARMATIC (Finland).

Vozrozhdenie ECG concrete plants in Russia operate at ambient temperatures down to  $-20^{\circ}$  C, which isimportant given the Russian climate. The technical equipment of the plants allows the use of both dry andliquid chemical additives in the production of ready-mixed concrete. Plants produce ready-mixed concrete of various grades: from B3.5 to B80 and above.

The quality of the final products, each stage of production and the materials used are monitored by accreditedlaboratories. Beton OOO is certified in accordance with the requirements of the ISO 9001:2008 standard, which is a guarantee of a high degree of consistency between technological and production processes. Moreover, it was included in the list of plants entitled to supply concrete mixtures to objects of increasedcomplexity: hydraulic and bridge structures.

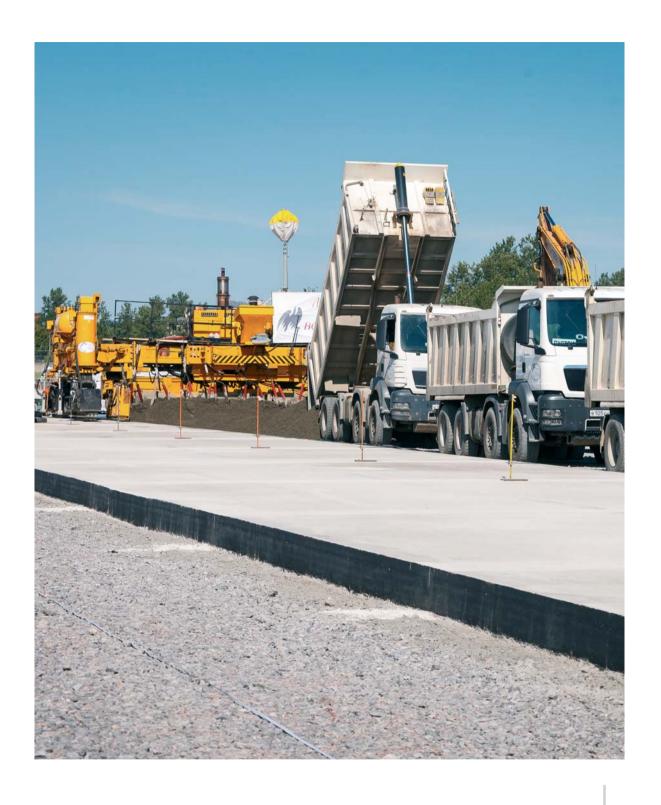




Reconstruction of the Petersburg highway St. Petersburg

# TRANSPORT AND LOGISTICS COMPLEX





Reconstruction of apron No. 3 and aircraft parking areas adjacent to the Pulkovo-2 air terminal complex St. Petersburg

#### **TECHNOPARK**

The organization of work at construction sites, production and road construction requires the use of special equipment capable of performing significant amounts of mechanized work in the shortest possible time. Vozrozhdenie Group of Companies engages high-quality equipment operated by professional operators and experienced drivers with many years of experience in the construction process.

LTS Express LLC, specializing in the rental of special equipment, provides the partners of Vozrozhdenie ECG and the customers of the North-West region with mechanized assistance and offers the most favorable conditions for cooperation. All special equipment provided for leasing is characterized by increased reliability and durability.

The mechanized fleet of LTS Express OOO consists of more than 100 modern trucks and units of road construction equipment, including crawler and special chassis cranes, trawls, wheeled and crawler excavators and bulldozers, drilling rigs, manipulators, loaders, soil vibrating rollers, dump trucks, vibratory loaders, motor graders, wheeled excavators, as well as entire range of asphalt equipment. The fleet consists of vehicles from the world's leading manufacturers from the USA, Austria, Sweden, Germany and Italy. The company also provides trucking and vehicle rental services both within the Vozrozhdenie Group of Companies and on the external construction market.

The main reasons why it is more profitable for construction companies to rent equipment are the following:

- Savings on the purchase of special equipment and additional equipment, especially if it is required for a short period of time.
- Lack of expenses for repair of equipment, its maintenance, maintenance of drivers.
- Absence of costs for renting a base for storage, repair of equipment and accounting unit for fuel and lubricants.
- No downtime and the use of only the equipment that the customer needs at this stage of work.
- A technically sound machine under the control of experienced machine operators is working at the facility.

Road construction enterprises, repair and utilities, and many others are the clients of LTS Express OOO. Special equipment can be used to solve specific and a wide variety of problems: excavation, earthworks, construction of buildings, roads and structures, repair and laying pipes, well drilling, rubble clearing, demolition of buildings and structures, loading and unloading, etc.

Nowadays, the special equipment of the LTS Express OOO is used in St. Petersburg, Leningrad region, Kaliningrad, Krasnoyarsk, Moscow and in foreign projects of the Vozrozhdeniye Engineering and Construction Companies Group.





PHOENIX AGFCS (Sofiyskaya) St. Petersburg

# PHOENIX AGFCS

Vozrozhdenie Group of Companies built the first private station in the North-West of the Russian Federation at the expense of its own investments as part of the implementation of the order of the President of the Russian Federation on the development of the gas motor fuel market (Order No. Pr-743dated May 18, 2018) AGFCS (automobile gas-filling compressor station) is located in the Kolpinsky district of St. Petersburga, in the village of Petro-Slavyanka, on Sofiyskaya street, 102, bldg. 2.

The construction of CNG filling stations is part of the all-Russian program to expand the use of gas as a motor fuel due to the environmental friendliness of compressed natural gas CNG (Euro-5/Euro-6 standard) and lower cost (50 % of the price of diesel fuel). The combustion of natural gas does not form soot, moreover, there are no emissions of lead and sulfur. CNG vehicles emit 2 times less nitrogen oxides, 10 times less carbon monoxide and 3 times less other carbon oxides than gasoline vehicles. In general, when using CNG, the smoke content of the surrounding air is reduced by nine times.

The throughput capacity of four CNG filling stations of Vozrozhdenie Group of Companies at the moment is more than 250 fillings per day. The productivity is 1000 m³/hour. The design annual supply of CNG amounts to 6 million m³/year. The CNG filling station is located in close proximity to the Ring Road exit, which ensures high transport accessibility and comfortable refueling. Wide entrance and exit allow refueling all types of transport, including long ones.

At the moment, cars using CNG as a fuel are produced by leading Russian and foreign automotive companies, such as: Kamaz, AVTOVAZ, GAZ Group, Ural, MAZ, MAN, Volvo, Scania, Iveco and many others. The main consumers of CNG are vehicles that operate daily, have high mileage and high fuel consumption. Primarily, these are buses, municipal, road and construction equipment.

Considering these factors, the Vozrozhdenie Group of Companies began to gradually purchase equipment running on gas motor fuel. At the moment, Vozrozhdenie-Nerud Management Company OOO has purchased tractors for the delivery of inert materials from quarries. In the near future, it is planned to update the fleet, which will significantly reduce logistics costs.



Nazariy, the father superior of Alexander Nevskiy Monastery, Vicar of St. Petersburg Archdiocese, the bishop of Kronstadt

Thank you for your good deeds, wewish you health and all the best!

In today's context, 25 years of operation is a whole epoch for an industrial enterprise. During this quarter of a century a great deal has been done, but ahead lies a whole life, full of efforts, care and beneficence. We know that the jubilee enterprise is inseparably associated with the life of Mr. Igor V. Bukato.

The Saint Alexander Nevsky Monastery expresses its gratitude for fruitful cooperation and assistance to the oldest monastery of St. Petersburg. From 2000 till no 2012, with close involvement of Vozrozhdenie, a number of monuments adorned our monastery and our marvelous city.



#### Full Member of the Russian Academy of Arts, laureate of the Russian state prize Prof. Bukhaiev Vyacheslav B.

It is more than 40 years ago that I started to cooperate with the stone processing factory on the Oktyabrskaya Embankment, which laid the foundations for the powerful holding Vozrozhdenie: today it is a quarter of a century old.

Our collaborative works adorn St. Petersburg, Russia's capital Moscow... Sayano-Shushenskaya hydroelectric power station on the Yenisei River... European countries: Great Britain, Italy, Germany... Californian coast of the Pacific Ocean of the United States of America...

I am glad to see that even today Vozrozhdenie is one of the biggest granite enterprises in the country and that it is on the rise and serves a great and noble cause – Revival of Great Russia. Vivat!



#### Sculpture artist, member of St. Petersburg Artists' Union of Russia Solovyeva Evelina P.

We first met with Mr. Igor V. Bukato at Vozrozhdenie factory, on Oktyabrskaya Embankment, and discussed projects (concerning some book and milestone) on 8 August 1999. This meeting predetermined the fate of the projects I conceived – we must work in support of charity.

The support of ideas and overall financing of all kinds of the work in granite and bronze helped to accomplish he projects, and this is a principal thing in the life of an artist. Memorial signs live their lives in our city and in the Alexander Nevsky Monastery.

I would like to express my reverence and gratitude to Mr. Igor V. Bukato and his assistants and production. I'd like to thank production masters for a high quality performance – masons, grinders, stone cutters, builders, shapers, casters.

Memorial signs document landmark events.

We contemplate and reflect upon life, beauty of the world, eternity.



#### Architect, Director General of Architectural Studio - THREE Ltd. Spiridonov Vadim L.

The projects that Vozrozhdenie implemented in accordance with our designs have enriched the historic area of St. Petersburg, boosted the development of new territories, and raised the ante of architectural and aesthetic understanding of urban environment to the European level.

I wish further prosperity and new creative success to the staff of Vozrozhdenie Grouv.



Full Member of the Russian Academy of Arts, People's Artist of Russia, Honorary Member of the Russian Academy of Architecture and Construction Sciences, laureate of the state prize of the USSR, PhD in Study of Art Prof. Burganov Alexander N.

Dear colleagues,

I am glad to have an opportunity to thank Vozrozhdenie Group on its 25-year anniversary for fruitfulcooperation in the joint project for refurbishment and improvement of Theatre Square in front of the Bolshoy Theatre in Moscow.

Your creative approach and high quality of performance have put the necessary focus on this significant site in our capital.

I wish you implementation of significant projects both for St. Petersburg and other towns and cities of our country!



#### Deputy Director General of Mamoshin Architectural Studio Ltd. Bogatyriova Alla K.

We express our gratitude to Vozrozhdenie Group and its top management for fruitful implementation of projects in St. Petersburg (such as: Omega House residential complex, Tavrichesky residential complex, Avenue business centre). We'd like to point out that the experts of the Vozrozhdenie factory are ready to translate into stone any creative ideas of architects.

All projects, fulfilled by Vozrozhdenie are socially significant for the city, increase the status of a redeveloped territory and are designed to create comfortable living and recreation conditions for the citizens. Vozrozhdenie Group specialists are specifically considerate towards aesthetic values of the architecture in the historic area of the city and observance of infrastructure development patterns in modern cities.

We wish you new interesting and large-scale projects, to continue developing and creating new projects for the benefit of every citizen of our country.



#### Member of the Union of Russian Artists Tigran Nikogosian

Thank you a lot for cooperation in creation of the Andrey Petrov Garden! During our collaboration we saw a high level of professionalism of the company's staff!

I wish you implementation of great projects both for St. Petersburg and other towns and cities of our country!