



International competition
for Development of the Architectural
and Artistic Concept of Moscow Metro Stations



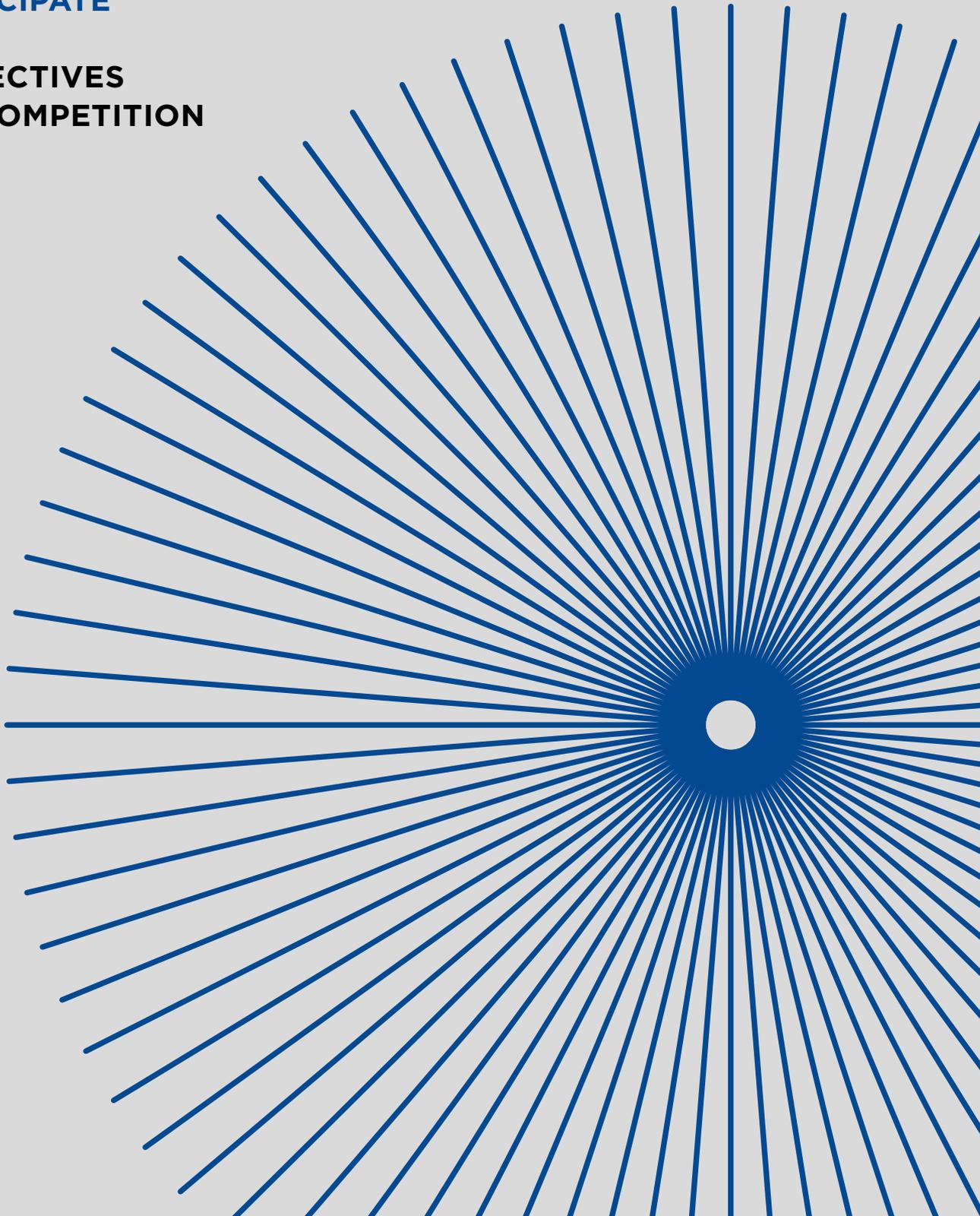
MOSINZHPROEKT
JOINT STOCK COMPANY



AGENCY
FOR STRATEGIC
DEVELOPMENT
CENTER

INVITATION TO PARTICIPATE

KEY OBJECTIVES OF THE COMPETITION



CONTENT

Customer

Mosinzhproekt

Executor

Agency for strategic development «CENTER»

Competition web site

www.design-metro.ru

Competition	4 стр
Competition shedule	6 стр
Jury	8 стр
Organizer	10 стр
Context	12 стр
Concept development principles	36 стр

MARAT KHUSNULLIN ABOUT THE COMPETITION



MARAT KHUSNULLIN

Deputy Mayor of Moscow for Urban Development and Construction in the Government of Moscow

«Every metro station should be unique — this is our basic point. Thus we've decided to construct all the stations on the basis of typical plans that reduce construction costs, but in terms of their design — every station image should be personalized. Every station should have its own image, its own point and should be recognizable. This is a tribute to the traditions of the Moscow metro, which was originally designed not only as a purely utilitarian object of transport infrastructure, but also as a unique architectural structure, which reflects the history of the city and the country. Not surprisingly the practice of rendering the high-profile competitions to design the metro stations existed even in Soviet years. At all times leading architects of the country were interested in such competitions and implemented projects so called «palaces for people» («Okhotny Ryad» and «Dynamo» by Dmitry Chechulina, «Kropotkin» and «Mayakovskaya» by Alexei Dushkin, «Komsomolskaya» by Alexei Shchusev, «Chistye Prudy» by Nicholas Colley, «Lubyanka» by Nicholas Ladovsky and many other stations) have left as a key marks in golden history of the Moscow metro as architectural masterpieces. Remarkably enough that the first competition for the best architectural project of the Moscow Metro station was launched back in 1934 — a year

before the opening of the Moscow subway. This practice continued until the end of the 50-ies of the last century, but in 60-70 years it was completely lost, and metro stations after redirecting to the typical design have multiplied as faceless gray «twin brothers». Now, decades later, in 2014, initiated by the mayor of Moscow city S.S. Sobyanin, the great tradition of competitions for the best design project of metro stations has revived. The surge of interest in the first of them — regarding the stations «Solntsevo» and «Novoperedelkino» — was so high that we have raised the status of the competition to international one. The competitions for the first two stations of the Third interchange circuit — «Terehova» and «Lower Mnevniki» have also had a great success. Thus we do have the relevant experience in the field and it is considered as a successful one. There is no doubt that the forthcoming competition for the best design project of the stations «Sheremetyevo», «Rzhevskaya» and «Strominka» will attract even more new and interesting ideas in the «underground» design, also only the best, highest-quality projects will be taken into consideration and further implementation. We have one of the most beautiful metro in the world, and we simply have no right to lower the bar»

COMPETITION

OBJECT OF THE COMPETITION

Competition for Development of the Architectural and Artistic Concept of Moscow Metro Stations: Sheremetyevskaya, Rzhevskaya, Stromynka

The concepts must meet the following criteria:

- artistic concepts of the Metro stations shall harmoniously match with environment and historic context of the districts;
- use of state-of-the art technologies, durable and eco-friendly materials;
- safe and comfortable movement for all population categories and groups;
- functional utilization of space in view of all technical characteristics of the Metro;
- convenient navigation.

COMPETITION OBJECTIVE

The main objective of this tender is to find an optimum design and architectural-artistic solution for interiors of passenger areas and entrance halls of Sheremetyevskaya, Rzhevskaya and Stromynka stations.

Principal design solution must include a proposal on materials, lighting and non-bearing structures of the stations.

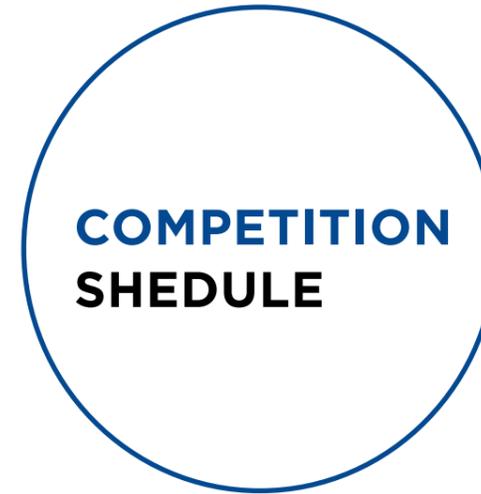
COMPETITION ORGANIZER

Agency for Strategic Development «CENTER»

COMPETITION FORMAT

First stage — qualifying, where tenderers shall present their applications, portfolios and essays describing the key ideas of their future competition concepts for each station.

Second stage — according to essays for each station 15 finalists will develop competition concepts.



APRIL 04/2017

NOVEMBER 10/2016

PARTICIPANTS

Russian and foreign (consortium members) architectural companies capable of engaging designers, engineers, planners, specialists in the spheres of economy and financial modeling.

REQUIREMENTS

A Russian legal body or a consortium of legal bodies can participate in the competition. Foreign partners are allowed to be a part of a consortium.

FINALISTS

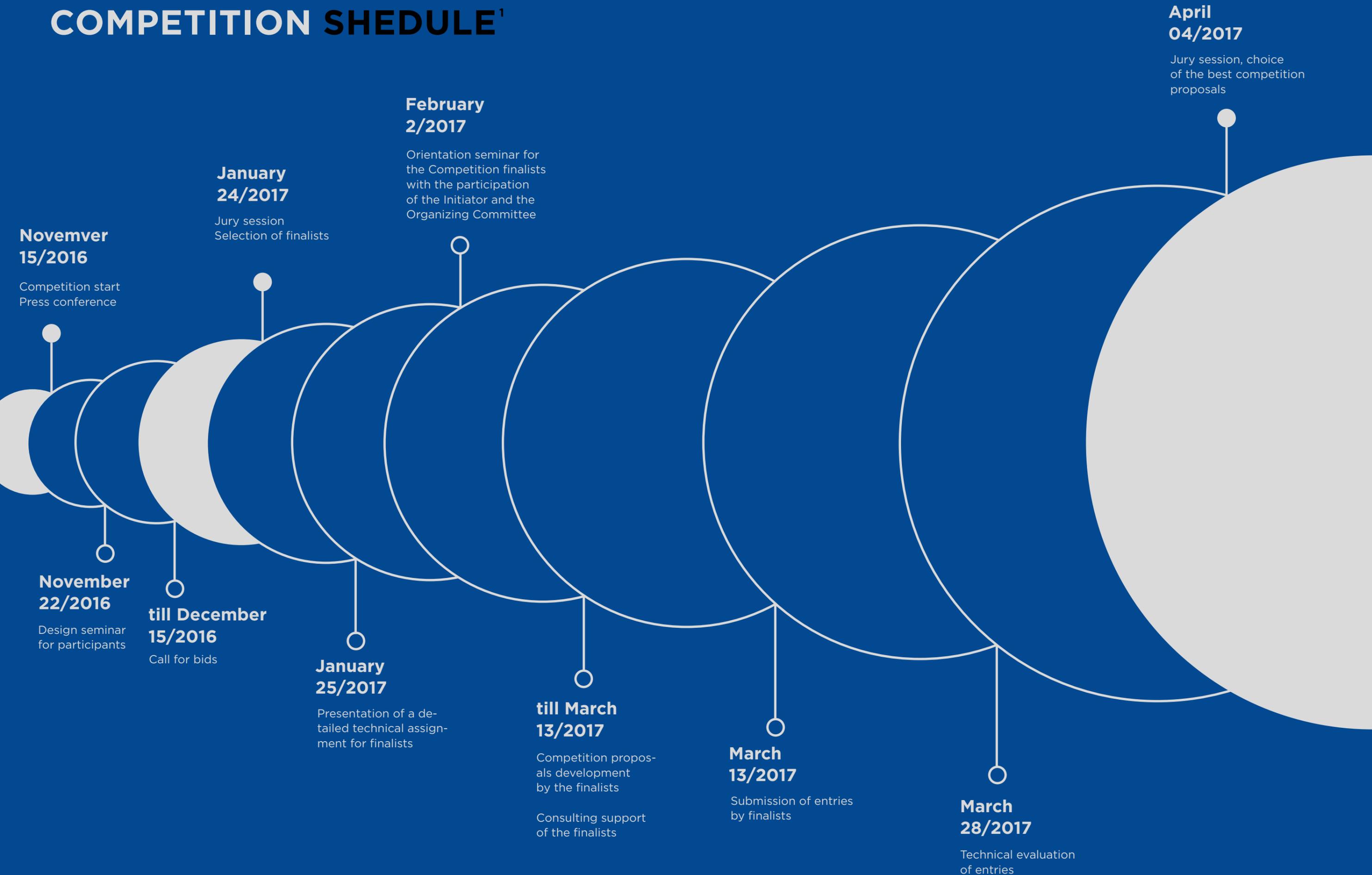
After the first stage 15 finalists (5 per each station) will be chosen to further develop the concept. All top-rated finalists will receive 400 000 RUB gross as a reward for the preparation of the competition works.

THE WINNER

The winners of the competition will be authors of the the best concepts (one per each station) chosen at the final jury session from the 15 finalists. The contract for further project development will be signed with each winner of the competition.

**OPEN
INTERNATIONAL
TWO-STAGE**

COMPETITION SCHEDULE¹

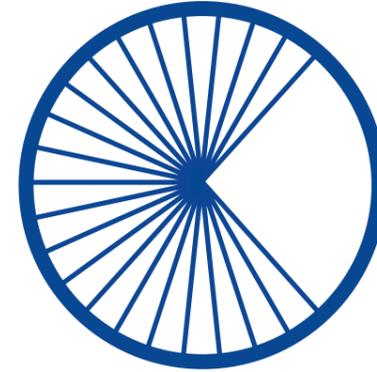


¹The competition schedule may vary. Please visit the competition website for updates.

JURY²



MARAT KHUSNULLIN
Deputy Mayor of Moscow for Urban
Development and Construction in the
Government of Moscow



SERGEY KUZNETSOV
Chief Architect of Moscow



MARS GAZIZULLIN
Director General of Mosinzh-
proekt JSC



ANDREI BOCHKARYOV
The head of the Moscow Department
of Construction



YURY AVVAKUMOV
Architect, artist, curator



OLGA ALEKSAKOVA
Founder of buromoscow Ar-
chitectural company



TIMUR BASHKAYEV
Head of Timur Bashkayev
Architectural Bureau



ANNA MERKULOVA
Director General of Mosproekt-3
OJSC, managing company of Mos-
promproekt OJSC



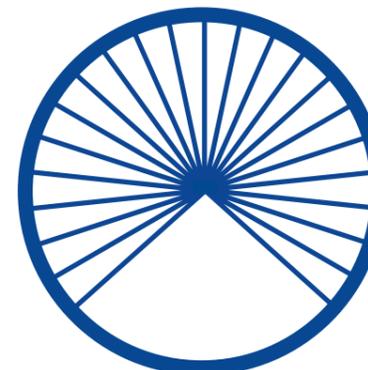
DMITRY PEGOV
Head of Moscow Metro



ALEXANDR VIGDOROV
Mospromproekt Architekt



BORIS BERNASKONI
Founder of Bernaskoni Bureau



EDUARDO GUTIÉRREZ
Founder of ON-A Arquitectura
Studio, architect of Drassanes
metro station in Barcelona

ORGANIZER



Agency for Strategic Development CENTER, a team of professionals in the sphere of comprehensive development of territories. The mission of the Agency is to shape a new model of territorial development in Russia. Its main point is to reveal the potential of every place through creating new cultural, social, and economic centers there.

One of our team's key activity areas is to arrange and hold professional competitions focused on looking for the new city planning, architecture and design solutions. The portfolio of our team includes organization of competitions for the development of large urban territories, parks, infrastructural facilities redevelopment, place branding.

Tender sites in Moscow:

- Sokolniki park;
- Mitino landscape park;
- Kristall plant;
- Soviet cinemas «Varshava» and «Voskhod».

in Kazan:

- a new residential suburban district;
- embankments and coastal strips of the Kaban lakes;
- Kazan Expo;
- Zoo and Botanic Garden.

in the Kaluga Region:

- Nikola-Lenivets Art Park.

Experts specializing in various areas are engaged as part of the Agency's team, what makes it possible to implement comprehensive projects. Among them are: Project for the development of Sochi Olympic Embankment, countryside clusters, city parks, regeneration of industrial territories and commercial real estate objects, organization of major expert forums, etc.



SERGEY GEORGIEVSKIY
The head of organising committee, coordination and management



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The deputy head of organising committee, government relations



NATALYA KUZMINA
Project leader



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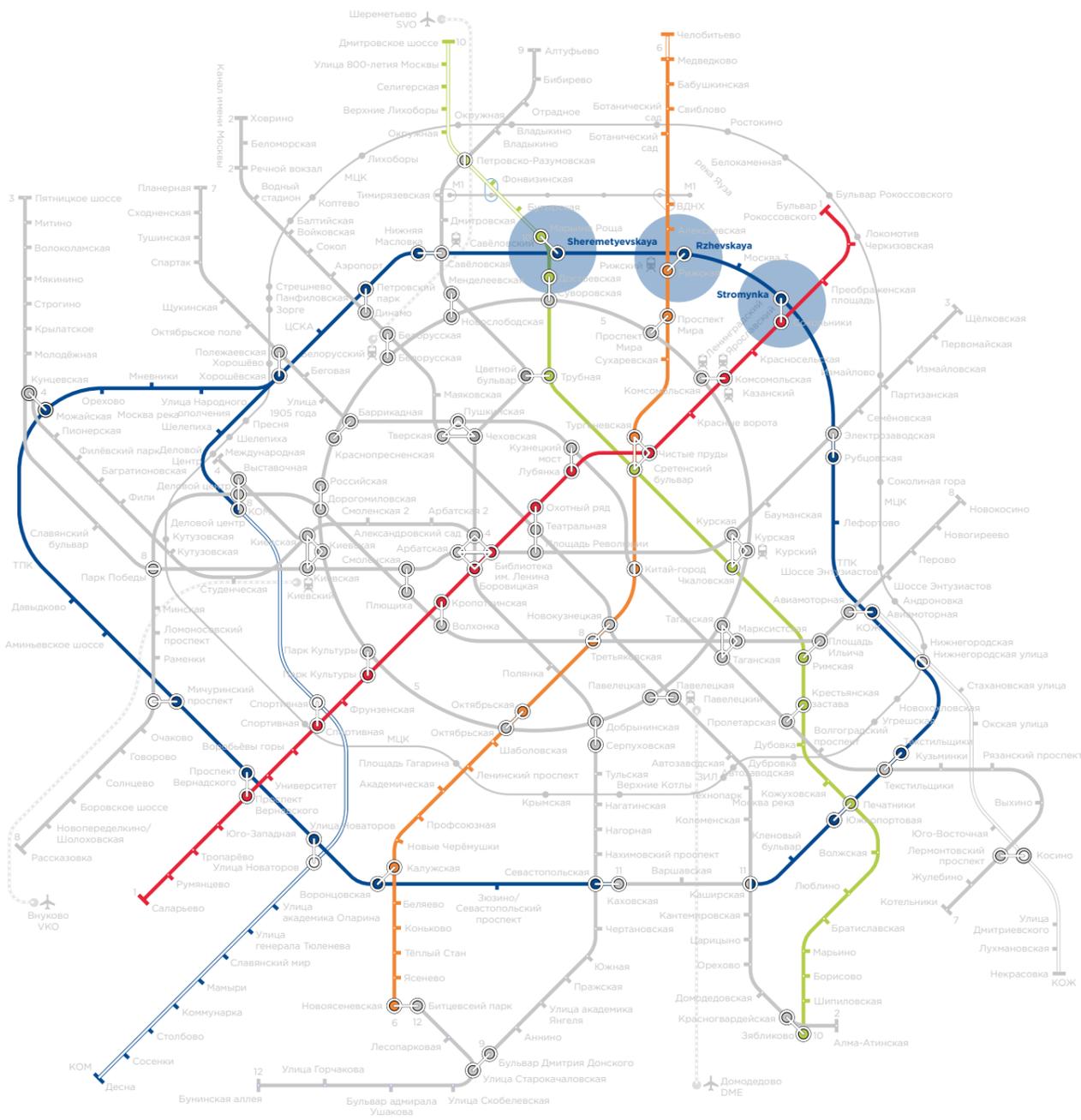


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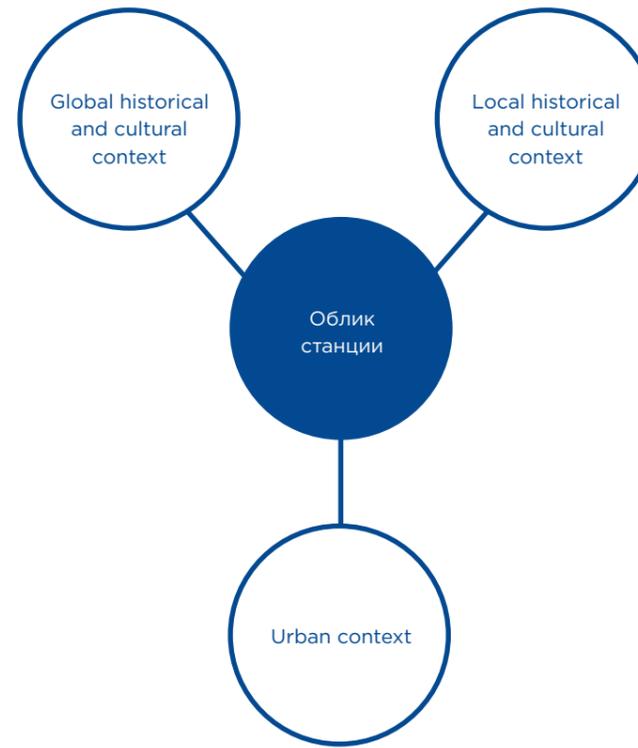


VYACHESLAV ZAVGORODNIY
Legal support

CONTEXT



MOSCOW METRO 2020 PROSPECTIVE PLAN



THE ESTABLISHED PRINCIPLES OF MOSCOW METRO STATIONS CONCEPTUAL DESIGN

Metro is traditionally viewed as a projection of above-ground urban environment; together they form an integrated image of the city. Interiors of the Moscow Metro stations bear the impress of common historical and cultural aspects of Russian capital's development in different periods.

Several factors traditionally influence the architectural look of the Moscow Metro stations:

- **Global historical and cultural context** traditionally bears the principal ideology of the epoch and comprises historical, cultural, economical and political aspects on a countrywide scale.
- **Local historical and cultural context** shapes a station identity to its location and includes historical and socio-cultural aspects on a regional level.
- **Urban context** includes specifics of city district type, city and district development plans, urban environment parameters, established onsite restrictions, demographic situation, traffic conditions and so on.

VISION

Moscow Metro is the mainstay of the Russian capital's transport network and the most popular kind of public transport in Moscow. More than 2.5 billion trips are made in the Moscow Metro annually, the Metro is one of the most intensely used undergrounds in the world.

In order to meet the Moscow's growing need for public transport, to reduce passenger load, as well as to ensure connectivity of Moscow remote areas, the Moscow Metro network develops at an unprecedented rate over the last years. It is planned to open 55 new station from 2016 till 2020, the length of the Metro lines will increase by 162 kilometers and 9 out of every 10 Muscovites will live within walking distance from Metro stations.

In September 2016, the Moscow Ring Railway (Moscow Central Circle) was opened for passengers. This joint project of the Russian Railways and Moscow Metro is an intracity commuter train line partially integrated with the Moscow Metro (there is an integrated fare system and Moscow Ring Railway stations are connected to the Metro ones). As of the end of the first month of the Moscow Central Circle operation, it was used by 6 million passengers. It is planned to increase the Moscow Central Circle passenger throughput up to 300 million passengers annually by 2025.

It is planned to complete the construction of the second ring line of the Moscow Metro, the Third Interchange Circuit, by 2020. 28 stations will be built within the framework of the project and the new Metro line will be more than 60 km long. It is presumed that after completion of its construction, the second ring line will unload the Metro system by 25% and reduce the duration of Metro trips by half.

CONSTRUCTION PERIODS OF MOSCOW METRO

Pre-WWII period
Metro as a the temple of Communism.

WWII period
Stations as monuments to approaching victory.

Post-WWII period
Maximum solemnity and decorativeness. The main theme: victory in the Great Patriotic War.

Elimination of architectural extravagances, simplification of designs of the VDNKh, Sportivnaya and other stations which were already under construction. In 1961 the first generic design stations appear, so called «Centipede like station» —

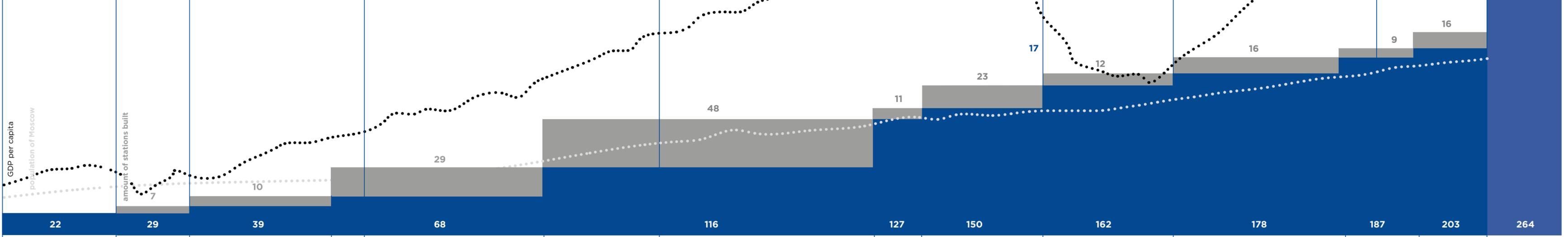
shallow column three-span station, which tunnel walls are faced with ceramic tiles, columns are faced with marble, the ceiling remains ribbed because of structural units configuration.

«The third way» is declared, combining the expressiveness of Stalin-era Metro and standardized solutions of the Khrushchev period.

Post-Soviet period
characterized by a great architectural freedom and limited financing.

Search for new forms of station design, experiments with materials and typology.

The ideology of a comfortable city with well-developed public spaces is being developed.



1935

1940

1950

1960

1970

1980

1990

2000

2010

2016

2020

I. Stalin

N. Khrushchev

L. Brezhnev

Yu. Andropov
K. Chernenko

M. Gorbachev

B. Yeltsin

V. Putin

D. Medvedev

V. Putin

A. Efremov

V. Pronin

G. Popov

M. Yasnov

N. Bobrovnikov

N. Dygai

V. Promyslov

V. Saykin

G. Popov

Y. Luzhkov

S. Sobyenin

GLOBAL HISTORICAL AND CULTURAL CONTEXT AND ITS INFLUENCE ON THE APPEARANCE OF MOSCOW METRO STATIONS

Overloaded, deteriorated and failed into disrepair post-revolutionary Moscow public transportation system became a historical prerequisite for the start of the Moscow Metro construction. At that time trams, the main type of Moscow public transport, were constantly overcrowded, rapidly got broken, which led the city to frequent traffic standstills.

That is how satirical writers I. Ilf and E. Petrov depicted that situation: «Tram cars are targets of frantic attacks. A warlike mood overcomes the people queuing for a tram. It is well-nigh a miracle that tram cars are not staved to splinters. The Moscow tram network cannot satisfy everybody who wishes to use it, but nevertheless it carries them. So overloaded that their windows burst, heavily roaring tram cars drop office workers near the huge buildings... of the institutions that govern the country's life.»

In 1931, it became clear that neither tram nor bus can solve the problem of the Moscow transport service. The June Plenum of the Central Committee of the All-Union Communist Party (Bolsheviks) adopted a final decision to build a metro in order to correct the situation.

As it follows from the history of the Metro construction, in most cases, the global context suppresses the local one — it is clearly visible in the look of the stations built from 1955 to 1970 during the so-called counter architectural extravagance program. Standardized Moscow Metro stations built during that period had lost all of its decor and site specificity; they looked as like as two peas. At present, the problem of stations uniformity and their visual identity to their construction site is still relevant both in Moscow and around the world. Nevertheless, it is being addressed both in Russia and abroad: there are examples of successful transformation of purely function-bearing underground spaces, as well as construction of new stations.

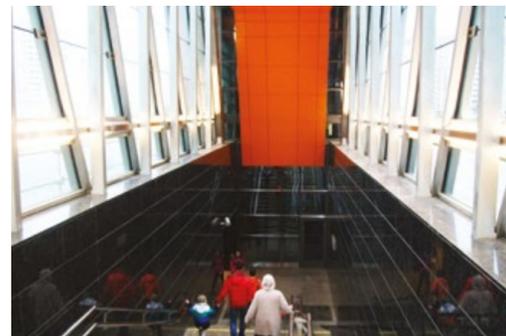
MOSCOW AND INTERNATIONAL PRACTICES OF METRO STATION INTERIOR DESIGN

Moscow experience

Zhulebino Metro Station

Architects/ L. Borzenkov, T. Nagieva, S. Kostikov, N. Soldatova
Opened/ November 9, 2013
Type/ shallow, column, triple-nave
Depth/ 10 m
Platform type/ middle
Platform length/ 163 m
Platform width/ 12 m

The interiors are decorated with metal panels having different patterns; some of them are painted in bright colors. Mirror insets in columns expand the station space visually and make it more interesting. The color scheme is based on the part of the spectrum that is mentioned in the local flora, from green to red. The spectrum is stretched between the station's two concourses, creating an easily understandable visual navigation system for passengers because there are exits "to the red side" and "to the green side". At the same time, the orange-red side of the station is directed towards the Moscow center, while the green one overlooks the Moscow Region. Thus, active red and orange colors denote the agitated city and calm green colors denote country and nature. This also creates a possibility of navigation by association. The station is equipped with elevators for reduced mobility people access.



Sretensky Boulevard Station

Architects/ N. Shumakov, G. Mun, N. Shurygina
Opened/ December 29, 2007
Type/ a deep pylon triple-vault station
Depth/ 60 m
Platform type/ middle
Platform length/ 162 m
Platform width/ 19.1 m

In spite of its seemingly uncharismatic platform area look, this is one of the most misappreciated stations of the Moscow Metro. The station middle and side halls are divided by pylons with niches throughout their length; 24 appliques works by artist Ivan Lubennikov fastened on marble slabs are installed in those niches. These are steel silhouette elements with etched images of city-dwellers, trees and cityscapes of the Boulevard Ring, as well as its attributes: flower vases, Pushkin, Gogol monuments, etc. Thanks to special technique of manufacture, they are colored in reserved ochre-and-earthy shades. Each picture is an independent work carrying certain information.

In May 2011, the station acquired its own concourse; before that, passengers came out of it via the adjacent stations. As compared to the platform area, the station concourse has a bright color layout because of its brightly colored ceiling. A feeling of boulevard continuing to stretch towards underground is created by an abstract suspended structure resembling tree crowns; it consists of a dense luminescent net filled with colored metal elements interspersed with luminescent strips of lighting fixtures. Bright colors — red, green, and yellow — imitate the shades of autumn leaves. The new concourse is also adapted to reduced mobility and vision-impaired people categories.



Bitsa Park Station

Architects/ N. Shumakov, A. Nekrasov, G. Mun
Opened/ December 8, 2014
Type/ single-vault, shallow
Depth/ 12 m
Platform type/ middle
Platform length/ 162 m
Platform width/ 12 m

The decorations of the station are dedicated to the park bearing the same name. The station has been designed in the modern architectural style.

The concourse walls of the station are faced with relief ceramic tiles; whereupon the entrance area is accented by planar glazing stained windows. The concourse interior columns are faced with polished Indian marble slabs which color is intended to remind of golden leaves in the forest surrounding the station. Decorative sculptural composition "Noah's Ark" authored by Leonid Berlin, a Moscow sculptor, is installed before the concourse entrance; earlier it was located above the ventilation kiosk of the closed concourse of Novoyasenevskaya station that was demolished in 2012.

An artistic mosaic by artist V. Bubnov consisting of 359 pieces of tempered glass is located on the tunnel wall of the platform hall. The mosaic depicts walking people, horse riders and dogs as a link to the Bitsa Park and the Bitsa equestrian center located nearby.

The station is equipped with elevators for reduced mobility people access.

Foreign experience

European metro stations are mainly transformed by renewing the decor of existing stations. Usually, the renewal increases their association with their location and adds new functions not characteristic of Metro, such as art areas, virtual shops, various producer's showrooms.



IKEA Furniture Exhibition in the Parisian Metro

During two weeks, four Parisian Metro stations were completely furnished with sofas, lighting fixtures and other products of the furniture manufacturing giant in order to demonstrate durability and high quality of its products.



A Virtual Shop in the Seoul Metro

An underground food shop was opened in the Seoul Metro during an advertising campaign of a local supermarket: banners with pictures of shop windows were pasted on station walls, and Metro passengers could collect baskets of foodstuffs by scanning QR codes using their smartphones; those foodstuffs were delivered to their homes during the same day.

University of Naples. Naples

Architects/ Karim Rashid
Opening date/ 26 марта 2011
Platform type/ middle

University of Naples is one of the central Naples Metro stations with a heavy traffic. The creative concept of the reconstruction project is based on using the cutting-edge knowledge, innovations, and digital technologies. The Metro station is regarded as a temporary transition space from one place to another. Bright and non-standard concepts of the station spaces enable passengers to distract themselves from the city rhythm and to dive into the world of modern design making an emphasis on the place multiculturalism.

An expressive color palette, patterns and images, conceptual art objects, lighting and spotlighting systems, modern paintings, digital art and graphic images used in the interiors make it possible for the visitors to cultivate their imagination and to invent their own creative interpretations.

HafenCity Universität. Hamburg

Architects/ Raupach Architekten, Stauss Grillmeier, D-Lightvision
Opening date/ November 29, 2012
Platform type/ middle

The station is built using a minimalistic style; the platform hall ceilings and walls are composed of large light-reflecting metal panels. Massive ceiling-mounted luminescent cubes hang in the middle of the hall changing colors during the day, obeying various algorithms depending on arrival of trains or the time of the day. Such station's design solution expresses strive to establish an associative link with the activity of the seaport and the architectural look of the port area. Lighting colors blending smoothly one into another and changing rhythmically throughout the station associate themselves with the ships passing by. There is an acoustic system installed in the station as well; color changes are accompanied by muffled recordings of «port life» sounds.

Drassanes station. Barcelona

Architects/ Jordi Fernández, Eduardo Gutiérrez, On-a Arquitectura
Opening date/ December 14, 1968
Reconstructed/ 2009
Platform type/ side

Renovation of this station was made by On-a Arquitectura Spanish company. The idea underlying the new design was to use the materials which the trains passing through the station are made of. Fiberglass-reinforced prefabricated concrete walls of the station with a plastic topcoat blend smoothly into light-colored cast-in-place floors built from vibration resistant concrete. For the sake of enhanced contrast, the station ceilings were painted black and visually split by linear lighting fixtures.

SHEREMETYEVSKAYA STATION



The station opening is scheduled for 2020

About the station

The station has a single entrance hall at the 5th Maryinoy Roschi Drive connected by the escalator tunnel with the platform. From the east end of the station, transfer to the Maryina Roshcha station of Lyublino-Dmitrovskaya Line will take place.

Type

Deep pylon triple-vault station

Number of platforms

1

Type of platforms

Middle

Interchange station
Maryina Roshcha

Architects

A. Kurenbayev, A. Shutov

Opening

June 19, 2010

Type

Deep pylon triple-vault station

The platform part of the station is a triple-nave structure with a middle nave and two side naves with platforms. The side naves are provided with benches for passengers to rest; they run along platform walls.

The tunnel walls are faced by curved marble and granite stones. The pylons are faced with light and dark marble. Thus, pylons look shorter and less massive. Dark stripes blend into the pylon base, and the light ones — into its cornice.

Fiberglass waterproofing decorative canopies following the shape of the vaults are installed on the vaults of the station middle and side naves and the vaults of inclined escalator tunnels.

Dark brown granite rectangles and polished beige slab form a geometric pattern on the floor; it matches the rhythm of pylons and passages. The steps of exit stairs are faced with heat-treated granite. The middle nave is lit by fluorescent lamps placed behind cornices.

The station entrance hall is connected with its platform part by a four-escalator tunnel with access corridors.

URBAN CONTEXT

The Maryina Roshcha District belongs to the North-Eastern Administrative Okrug of Moscow. This is the southernmost area of all those belonging to that Okrug. The area of Maryina Roshcha is 468 hectares, its population is 67 thousand people.

The district is mainly built with typical apartment buildings interspersed with industrial zones founded during the 1930s industrialization and running along railways and the Sushchevsky Val Street.

The cultural core of the district, comprising the Satirikon Theater, the Planeta KVN Moscow Youth Center, Konstantin Raikin Theatrical School, Raikin Plaza Shopping and Entertainment Mall, is located near the exit from the Maryina Roshcha metro station.



- The office park Sheremetjevskiy
- The Satirikon Theater
- The Konstantin Raikin Theatrical School
- Raikin Plaza Shopping and Entertainment Mall
- The Planeta KVN Moscow
- Metro

HISTORICAL RETROSPECTIVE OF THE DISTRICT

There are several versions Maryina Roshcha District name origin. One of them tells that this territory was named after boyarynya Maria, wife of Fedor Goltyai, the owner of these lands. According to another version, until the 18th century, Maryina Roshcha was a part of a forestland that was home to a gang of robbers led by female chief Maria.

Forests in the outskirts of Maryino changed their owners many times. During Empress Anna Ioannovna's reign, Chancellor Prince Cherkassky owned them. This village was also owned by Count Sheremetyev for some time. In 1799, he built the Ostankino Palace in early Classicism style.

When Kamer-Kollezhsky Val served as a Moscow customs border was built in 1742 near Maryino, almost all forests adjacent thereto were cut down but groves were left intact, and they became a popular place for folk festivals for a long time. It was written in the 1829 Moscow Almanach: "The density of the grove completely covered with greenery offers a pleasant promenade, there are several versts around with all charms of untarnished nature." There were fair show-booths, carousels and tea kiosks in the grove.

In 1861, the Sheremetyevs, the owners of Maryina Roshcha, let their land on lease for a long term to Pozemelnoye Obshestvo. It cut the grove down and leased the land plots to petty proprietors. At that time, Maryino was built by single- and two-story houses. After the Moscow — St. Petersburg railway was built, Maryina Roshcha was separated from Ostankino. Then the Windau railway was built, which split the territory of Maryina Roshcha in half. After a bridge was built across

the railway tracks, separated parts of Maryina Roshcha were reconnected. This gave an impetus to the development of local industry. The area was improved for account of local industrialists. The village streets were paved, water supply and sewage networks were built.

During the World War I, most men from the Maryino village were called up to the army, and the 1917 Revolution and the Civil War brought about further decline of the village. Most of its population fought in the White Army at that time.

During the NEP period, the inhabitants of Maryino were engaged in flower production that brought a good profit to them. In subsequent decades, Maryina Roshcha developed as an industrial district of Moscow, large industrial enterprises were concentrated there. During the World War II, they were adapted for the production of military goods, armaments and ammunition.

For rather a long time during the postwar period, Maryina Roscha did not develop at all. Dilapidated wooden houses stood here up to the 1960s when standardised blocks of flats construction started in Maryina Roshcha. In 1980s, during the preparation for the 1980 Moscow Olympics, the district changed for the better, the streets were asphalted, remained dilapidated houses were pulled down and Olympiysky Prospect was laid. Since then, the area began to look ever more urban.

26



1895

1905

1913

1929

1934

1942

1957



1967

1977

1986

1995

2002

2016

RZHEVSKAYA STATION

The station opening is scheduled for 2020

About the station

This is the Third Interchange Circuit station that is located closest to the Kremlin; besides, it is the only one located in the Central Administrative Okrug of Moscow. The station has one entrance hall with exit to the Riga Railway Terminal on Rizhskaya Square from the west side of the platform, from the east side the interchange to the Rizhskaya station will take place.

Type

Deep pylon triple-vault station

Number of platforms

1

Type of platforms

Middle

Interchange station Rizhskaya

Architects

A. Reinfelds, V. Apsitis

Entrance hall architects

S. Kravets, G. Golubev, Yu. Kolesnikova

Opening

May 1, 1958

Type

Shallow column three-span station

The design of the station is deep pylon triple-nave one. It was built as per a standard design and received its name from the Riga Railway Terminal near which it is located. The station was extensively decorated with ceramics made by Riga factories. During construction of the station, decoration work was carried out by Latvian workers. The pylons are faced with yellow and brown Latvian ceramics. There are sculpted bas-reliefs with Riga cityscapes in the niches of the pylons. Bas-reliefs on the walls of the hall were made after the designs of Latvian artist G. Vilks by scratching on green ceramics and slip-glazed. These pieces of architectural ceramics are unique to the Moscow Metro. The tunnel walls are faced with cream-colored and dark gray ceramic tiles. The floor is faced with gray granite. The cornices of pylons and ventilation grilles are decorated with Latvian national ornament. There is a monument dedicated to the launch of the First Satellite near the station (sculptor S.. Kovner, architect V. Kartsev). Rizhskaya metro station is included into the list of Moscow newly detected cultural heritage sites. The heritage site comprises the underground hall, the above-ground entrance hall and the escalator tunnels.



URBAN CONTEXT

The territory around the metro exits is cut in two by Prospect Mira and limited by the Leningrad and Riga railroad tracks. On the south, the area is cut from Moscow by Sushchevsky Val and Novorizhskaya Overpass of the Third Transport Ring.

There is Krestovsky Department Store, Rizhsky Farm Market and the former audio and video equipment market (Rizhsky Radio Market) near the metro exit. The Radio Market was closed down because it was planned to build the Rzhevskaya metro station in its place.

In the years to come, it is planned to reconstruct the Riga Railway Terminal area and to build a transport interchange node that will connect the railway spurs with the metro stations. The transport interchange node will include platforms, passenger terminals and other facilities. At the same time, it is planned to build the second extension of the Krestovsky Shopping and Administrative Complex with a parking area for 900 cars. The area of the complex will be approximately 40 thousand square meters.



- 1 Krestovskiy Department Store
- 2 The Rizhsky Farm Market
- 3 Rizhsky Radio Market
- 4 The Riga Railway Terminal
- M Metro

HISTORICAL RETROSPECTIVE OF THE DISTRICT

Traditionally, this area of Moscow is associated with the Riga Railway Terminal and the square of the same name.

The Riga Railway Terminal

(Windau before 1930, Baltic until mid-1930s, Rzhev until 1946)

In late 19th century, tsarist Russia developed rapidly. The needs of its foreign trade made it necessary to develop railway communication with the Baltic countries having access to ice-free Baltic ports, Riga and Windau. In March 1897, Emperor Nicolas II issued an edict on the start of construction of a railway that was named Moscow-Windau-Rybinsk. The Windau Railway Station (at present, Riga Railway Terminal) was

built simultaneously with the railway as per design of St. Petersburg architect S. Brzozowski. The building facade is designed according to the traditions of Neo Russian style. Three palace-like buildings were connected by covered walkways built on the ground floor level. The railway station was opened on September 11, 1901. The first train departed from the station to Windau on the same day. Subsequently, passenger traffic from the Windau Railway Station was the heaviest, and the station itself was considered as the most passenger friendly and the best equipped for its time: a proprietary electric power plant was used to light its premises and platforms. At present, the Riga Railway Terminal is the least used one in Moscow. Only three long-distance trains and some commuter trains depart from and arrive to its platforms.

Rizhskaya Square

Rizhskaya Square came into existence in the mid-18th century near Krestovskaya city gate of Kamer-Kollezhsky Val. Until 1947, it was named Krestovskaya Zastava Square. In 1892, two round water towers were built therein during the reconstruction of Mytishchi waterworks. Water tanks were placed on their top floors, five floors below were occupied by residential and office premises, water metering stations. In 1920, the fourth floor of the right tower was used to house the Museum of Moscow Municipal Services. The water towers were its working exhibits. From their viewing platforms visitors could see the panorama of the northern districts of Moscow.

After Krestovsky Market was built in the 20th century, Rizhskaya Square became a place of vigorous trade. The present Rizhsky Farm Market was opened in the Riga Railway Terminal square

in 1982. The market became widely known in late 1980s, in connection with the development of cooperative production and the emergence of elements of market economy in the USSR.

30



1840

1894

1901

1922

1938

1945

1958



1962

1977

1989

1990

2005

2016

STROMYNKA STATION

The station opening is scheduled for 2019

About the station

Northern entrance hall will have exits to the underground crossing under Sokolnichesky Val to main entrance of Sokolniki park and tram terminal station Sokolnicheskaya Zastava. Southern entrance hall will have an exit to Stromynka Street and will also be used for transfer to Sokolniki station.

Type

Shallow column three-span station

Number of platforms

1

Type of platforms

Middle

Transfer station Sokolniki

Architects

N. Bykova, I. Taranov

Type

Shallow column three-span station

It was opened as a part of first startup stage of the Moscow Metro and has exits to Rusakovskaya and Stromynka streets and to Sokolniki recreation park.

The station has two rows of 23 columns.

Square columns on the station hall are lined with grey-blue Ural marble Ufaley and marbled glass. Walls along the tracks are lined with ceramic tile, light yellow on top and black in the bottom. The floor is finished with black and gray granite. Corridors and ticket hall are finished with Georgian Sadakhlo marble and Ural Prokhoro-Balandinsky marble.

Above-ground entrance hall made as an arch with double sided exit is located at an alley leading to Sokolniki recreation park. The interior of the entrance hall is finished with Koelga marble and white marble glass.

The design of this station was awarded Grand Prix of 1937 International Fair in Paris.



URBAN CONTEXT

The area of Sokolniki District is 1028 hectares, its population is about 61 thousand people, the district has mix of building types from historical and functional points of view and developed social infrastructure. Significant part of the district is occupied by Sokolniki park and the rest of its territory is predominantly occupied by residential houses, hospitals and production enterprises located mostly in its South-Eastern part and along railway tracks confining the district from the West.

The district has only one railway station of the same name located in its central part that will be connected to the new Stromynka station of the Third Interchange Circuit of the Moscow Metro.

Exit from the above-ground hall of Sokolniki station is visually linked with the park by the Alley of Sokolniki Square that, jointly with Sokolniki Pavilionny Drive, is a part of Sokolniki park center line. Historical above-ground hall of the station is surrounded by typical multistoried residential buildings built in 1980s and modern dominating structures of the district – residential complex House in Sokolniki (2010) and Holiday Inn Sokolniki Hotel (2006).

Apart from Sokolniki park being renovated in the recent years, cultural life of the district is presented by famous Roman Viktyuk Theater and Zhar Ptitsa Puppet Theater.



- 1 The Rusakov workers club
- 2 The Papper Theater
- 3 The Holiday Inn Sokolniki Hotel
- 4 The Palace of Sports Sokolniki
- 5 Sokolniki Park
- 6 Sokolnicheskaya Square
- M Metro

HISTORICAL RETROSPECTIVE OF THE DISTRICT

Sokolniki is one of the oldest recreational areas in Russia. It would be wrong, however, to refer to Sokolniki as a place for recreation only. This area is closely related to the history of Moscow and Russia. During each historical period, the park had its individual image impregnated with symbols and senses of relevant epoch.

The name of the district originates from falconry. In 15-17th centuries, the area of Sokolniki was occupied by reserve forest, which was the favorite falconry place for the Tsars. There was a falconry yard with falcon coops, falcon wood and a village of falconers. Current territory of the park was the place where Russian Tsars Ivan the Terrible and Aleksey Mikhailovich Romanov hunted.

Eventually, falconry lost its significance. Under Peter the Great, the Sokolniki field was used for mock battles. At those times, Sokolniki became a place for traditional festivities of the noble and ordinary people of Moscow. The celebrations that attracted the largest number of people were held on May 1.

In the second half of 19th century, the woods already had the basic features of its typical layout: seven radial cleared strips were directed from the Circle and ended up with transversal cleared strip. A several systems of ponds were arranged based on water bodies.

Starting from 1860s, Sokolniki turned into one of the most populated places for country houses (dachas): at first, those were personal dachas that later, by the end of 19th century, turned into commercial rental residential complexes. Some of the dachas that survived until now are acknowledged as cultural heritage objects.

In 1880s, the territories of Sokolniki woods and adjacent Olenya woods were administratively included in the city of Moscow.

In 1931, the Presidium of Moscow City Council made a Resolution "On arrangement of recreational base at the territory of Sokolniki Woods."

Early in 20th century, along with development of industry and railway transport, suburban Sokolniki gradually turned into an independent urban district. In 1920s, during evolvement of the Soviet Republic and along with cultivation of a new generation of citizens, the issue of arrangement of clubs where simple Soviet citizens could have rest after work, take part in amateur performances or listen to lectures became very acute. Such clubs were given a great significance, since they were the tools of propaganda of socialistic ideas.

In 1927-1929, the Club of Rusakov was built at Stromynka Street based on design of constructivist architect K. Melnikov. In an attempt to make

the building multifunctional, the designer provided for possible transformation of inner rooms. There are three lecture halls that play a role of theater galleries after opening towards the main hall by lifting walls. Lifting walls provided for possibility of using each of five spatial elements of the club separately. Vertical stairways service all rooms. The composition of facade is defined by its inner structure: three upper lecture halls extend outside in the shape of 3D consoles. Currently, the Community Center named after Rusakov houses the Roman Viktyuk Theater.

34



35

1890

1892

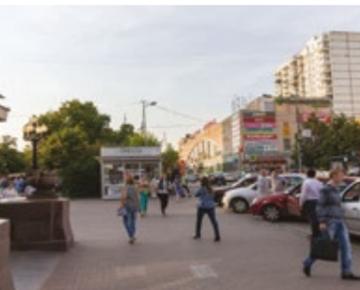
1902

1912

1912

1936

1940



1952

1968

1976

1985

1997

2007

2016

CONCEPT DEVELOPMENT PRINCIPLES

Competition' bids must address the following parameters:

- masterplan;
- operational requirements for the stations;
- spatial requirements;
- requirements for image of the stations;
- requirements for elements and materials;
- requirements for station structures;
- functional requirements;
- requirements for lighting;
- requirements for navigation;
- requirements for furniture;
- safety requirements;
- requirements for access of low-mobile groups.

Masterplan

Surrounding urban context, directions of human traffic, development plans for adjacent areas, and visual environment must be considered during preparation of proposals and visualization of station halls. Station halls must be clearly distinguishable as metro entrances and organically tied-in to environment.

Operational requirements for the stations

It should be considered during design development that all station elements must be easily serviceable over the short night periods of traffic shutdown



Spatial requirements

Considering the typology of the stations and their functional zoning, competition participants must provide an integral and clear comfortable space for passengers in their design proposals. Movement directions depending on purpose must be made intuitively clear to passengers through use of certain materials, light and textures. The design shall also provide for clearly distinguishable and convenient meeting points for passengers that would not prevent passenger traffic.

Requirements for image of the stations

Station image must be designed according to modern experience in decoration of metro stations, both internationally and in Moscow. Decoration of the stations must be visually comfortable for passengers, correlate with the name and location, and correspond to modern tendencies for creation of comfortable urban environment and development of public spaces.

Requirements for elements and materials

Materials used for the stations must be preferably of Russian origin and correspond to Russian standards and regulations. All elements and materials must be durable, easily replaceable, safe in operation, vandal- and impact-proof and have hygienic certificates issued by State Sanitary Epidemiological Service. Use of noxious and flammable materials is not allowed.

Floor finishing with slippery materials is not allowed; polished granite should be used in the areas with large accumulations of people, heat-treated granite - in underground crossings.

All finishing and elements of the stations must be stable to vibrations. Use of mirroring and intensively glossy surfaces in platform areas is not allowed.

Requirements for station structures

Competition participants are not allowed to change (move, remove or modify cross-sections) load bearing structures for a station. Special attention must be paid during development of

finishing fixing structures and station elements to their reliable fixations and possibility of quick replacement and simple access for maintenance. To this point, use of prefabricated structures and lightweight materials is recommended.

Functional requirements

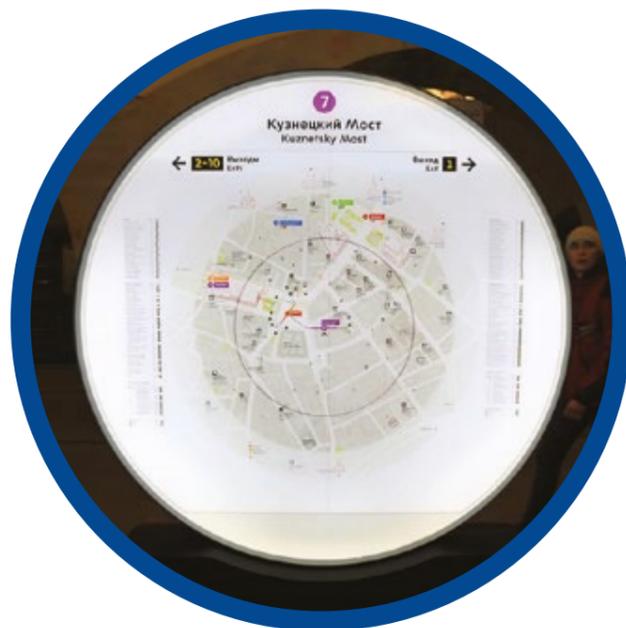
Apart from transit functions, each metro station also has a lot of functional areas: entrance halls, transit halls, ticket halls, meeting points, sales points, passenger screening points, checkpoints, platforms, recreation and waiting areas must be structured using design elements considering all operational requirements. The participants may offer functional areas not typical for metro stations, provided that they would not impede main station functions and fit into surrounding context.

Requirements for lighting

Lighting at metro stations is classified as decorative and functional and is given special attention in the underground, since it does not only influence a station appearance, but is also one of the most important passenger safety elements. Sufficient floor lighting must be ensured in passenger and transit areas. Station lighting must be uniform, dissipated and must not blind passengers and train operators. All lighting fixtures at stations must be easily accessible for maintenance and replacement. Competitors shall also keep in mind that lighting intensity and color spectrum may have an emotional influence on passengers.

Requirements for navigation

An important component of metro stations functioning is simplicity and quickness of orientation for passengers. Competition participants shall provide places for installation of navigation signs and other visual landmarks for designation of train movement directions, crossings and exits. All navigation at the stations must be as clear and intuitive as possible and shall be established with both informational signs and materials, textures and lighting that may be used to control human traffic flows in order to avoid their collisions. Competitors should keep in mind that there are requirements for navigation at metro stations for physically challenged people, therefore, tactile floor tile and navigation plates with Braille letters



must be provided in public areas according to existing law and regulations.

Competitors must use existing typical graphical design for navigation signs, indicators and other graphic navigation elements customized for the Moscow Metro. Non-typical design may be used for station names at platforms and outside stations.

Requirements for furniture

The design must provide for passenger recreation areas at stations not preventing traffic of people and cleaning equipment. Special supports must be provided for people with musculoskeletal disorders. Competition participants shall develop an individual furniture design – for recreation areas, supports, banisters and cabins for station duty officers.

Safety requirements

The station design must ensure that all interior elements do not deteriorate metro functioning, obstruct passages, reduce illumination of surfaces, represent injury hazard, or accumulate dust. A luminescent strip must be provided at a distance of 1200 mm from the platform edge along its whole length. Furniture and other elements may not be placed closer than 1.6 m from the platform edge.

Requirements for accessibility for people with disabilities

Special devices for transportation of people in wheelchairs and suitable handrails for people with musculoskeletal disorders must be provided at all stair flights in public areas of the stations. Textured signs and contrast color strips must be provided in front of stairs, ramps and doors for blind and visually impaired passengers, according to existing law and regulations. Navigation at the stations must be complemented with sign plates printed in Braille.



International competition

for Development of the Architectural and Artistic
Concept of Moscow Metro Stations:
Sheremetyevskaya, Rzhevskaya, Stromynka

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