ТЕХНОПАРК ВЫСОКИХ ТЕХНОЛОГИЙ
Автономное учреждение

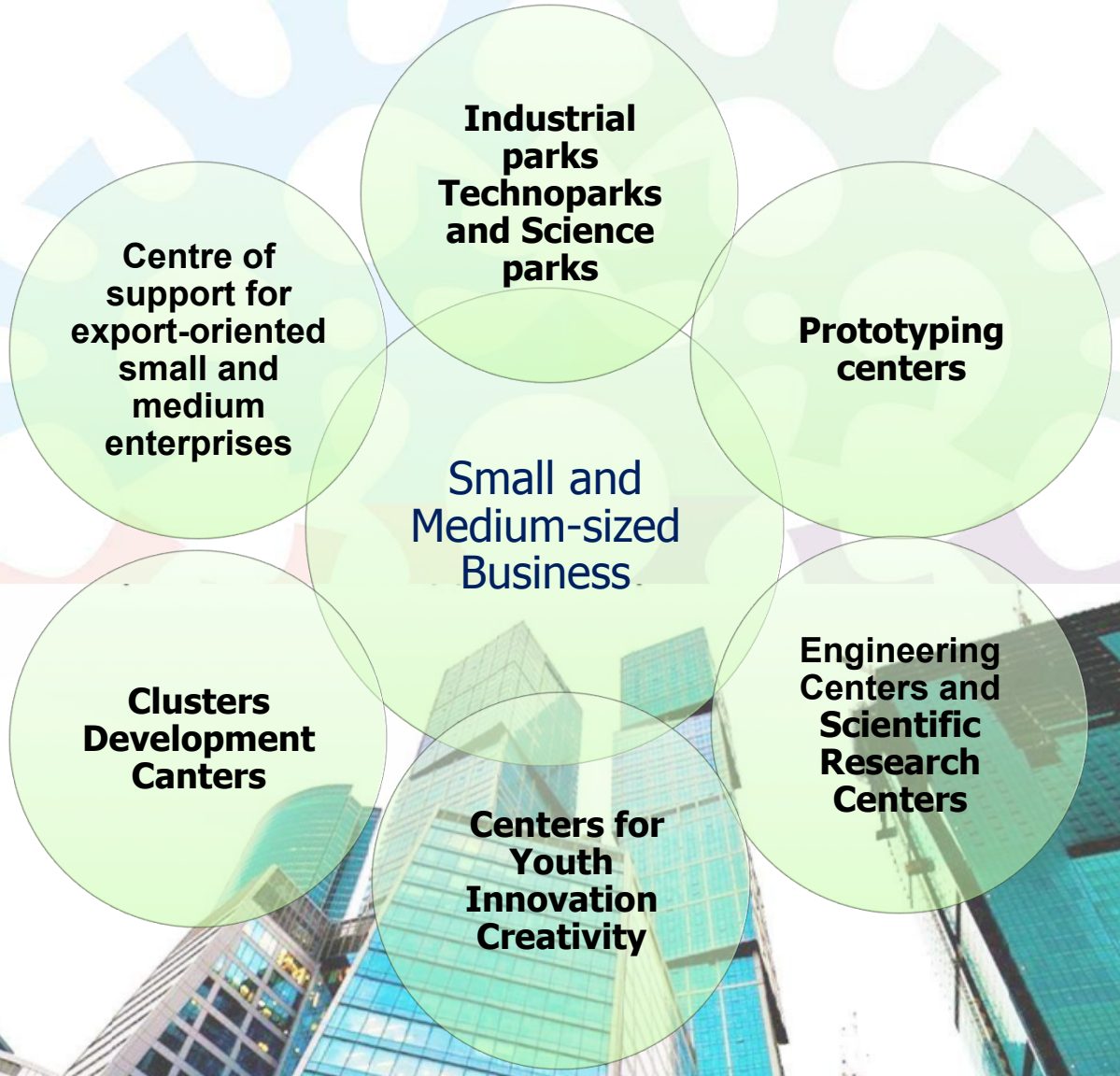
HIGH TECHNOLOGY PARK
Autonomous Institution

Director,
Prof. Dr. **Yury Reutov**

Support Infrastructure of Small and Medium-sized Businesses in Russia

09/29/2016

SUPPORT ECOSYSTEM OF SMALL & MEDIUM-SIZED BUSINESS



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TECHNOLOGY PARKS (TECHNOPARKS)

Technopark is an organization, whose main objective is to increase the well-being of the local community by promoting a culture of innovation, as well as adversarial business innovation and scientific organizations.

Association of clusters and technology parks was founded in the year 2011. The Association represents the interests of its members in relations with the Federal State authorities and local self-government bodies, assists members in solving social, economic, scientific, technical and managerial problems.

The Association's membership includes more than 45 organizations such as: Technopolis "Moscow", Technology park "Skolkovo", Technology park "Mordovia" and other subjects of small and medium-sized high-tech enterprises (cluster development centres, business incubators, centers for prototyping, nanotechnology centers, engineering centers), representing 26 regions in all federal districts of the Russian Federation.

АССОЦИАЦИЯ КЛАСТЕРОВ
И ТЕХНОПАРКОВ

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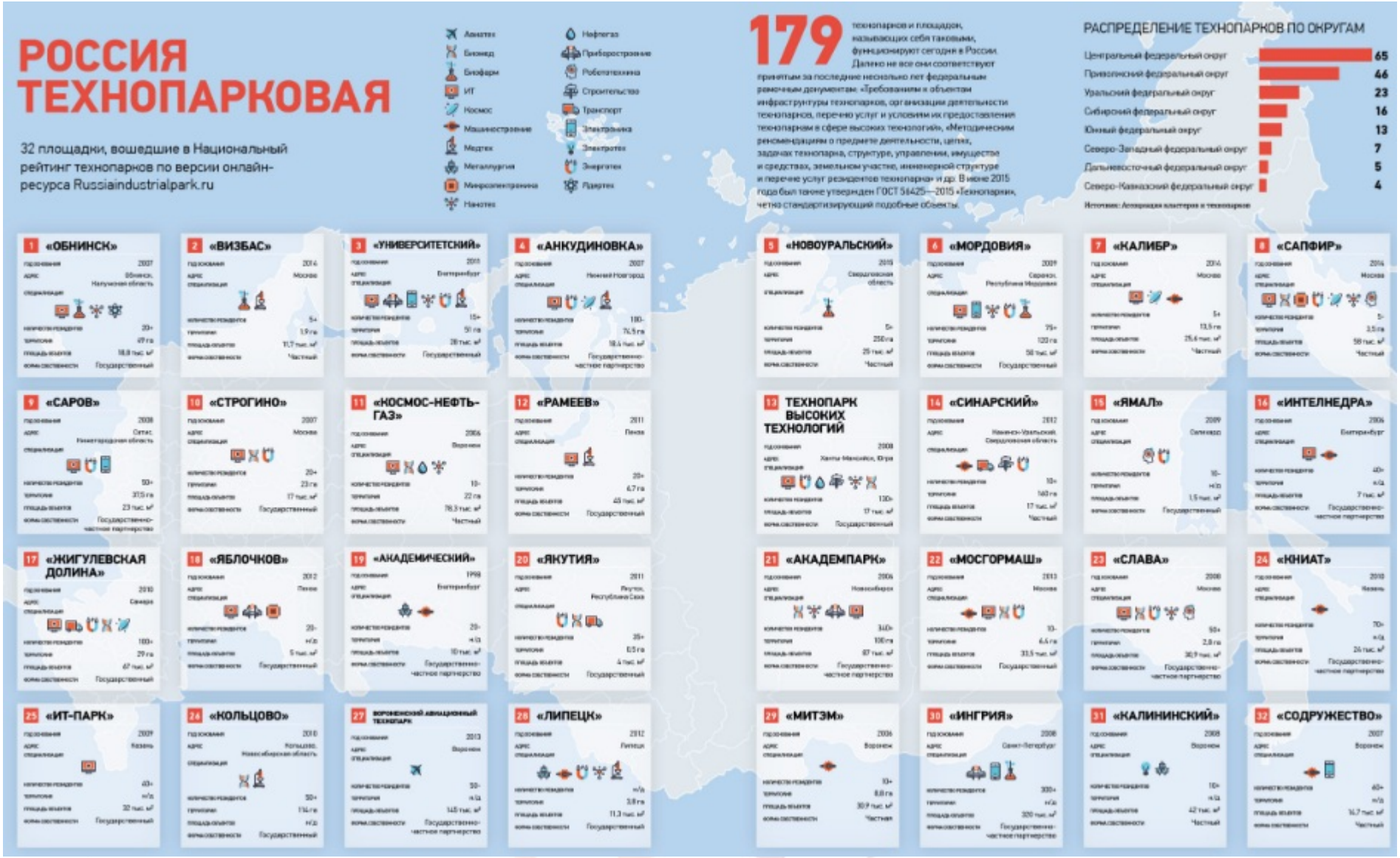
ALL TECHNOPARKS OF RUSSIA



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Get the status of a member of the "Association of clusters and technology parks":

- Legal entities carrying out activities in the sphere of creation and management of technology parks, share the goals of the Association's activities;

- Legal entities carrying out activities in the area of commercialization of innovative projects, as well as other legal entities, which partially have the infrastructure of technology park and share the objectives of the Association;

- Legal entities carrying out activities in the field of cluster`s development and share the goals of the Association's activities.

Assigning the status of high-tech industrial park is carried out by the general meeting of members of the Association of clusters and technology parks based on the expert opinions submitted by the Advisory Council of the Association of clusters and technology parks ", separately for each technology park, resulting in a decision issued by the Protocol of general meeting of the Association of clusters and industrial parks.

АССОЦИАЦИЯ КЛАСТЕРОВ
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TECHNOPARKS OF RUSSIA

LEADING TECHNOPARKS OF RUSSIA

- Strogino
- Technopark MGU
- Novosibirsk Akadempark
- Skolkovo
- Technopark Khanty-Mansiysk
- Technopark Yakutiya
- Sarov
- IDEA
- Slava
- Technopark Nahabino

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CLUSTER ECONOMY

Michael Porter is a professor of a business administration department of the Harvard business school

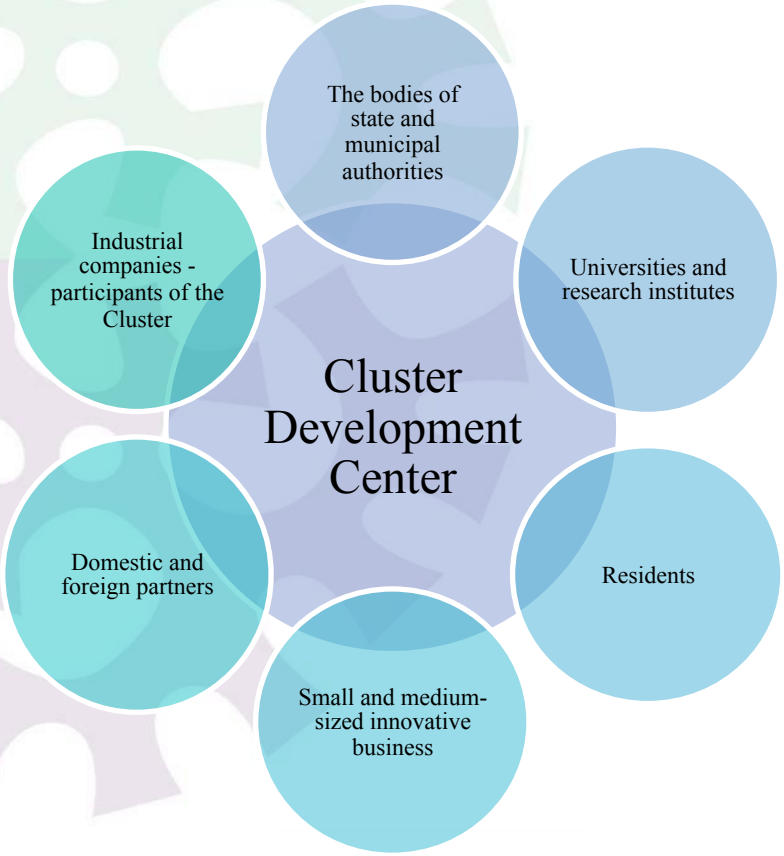
Cluster – a group of interconnected organizations, complementary organizations concentrated in a certain territory – of each other and separate companies strengthening competitive edges and as a whole of a cluster.

Cluster policy is a system of national and public measures and mechanisms of support of clusters and cluster initiatives providing increase of competitiveness of regions, enterprises belonging to a cluster, development of institutions, stimulating formation of clusters, as well as providing introduction of innovations.

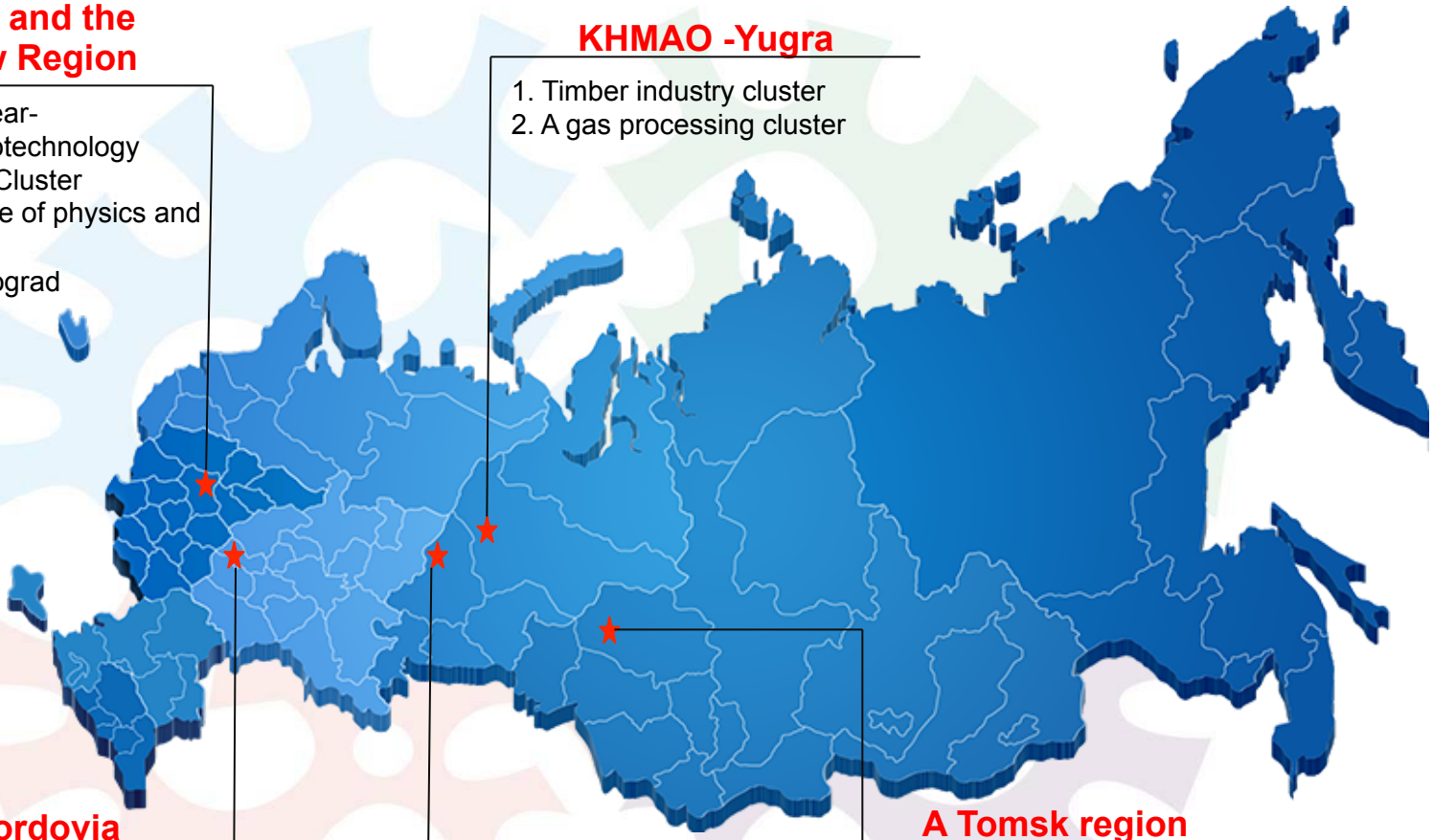
Center of cluster development is an element of innovative infrastructure being created for purposes of development of innovative clusters of small and medium entrepreneurship, providing cooperation interaction of participants of clusters between each other.

Signs of a cluster:

- – Geographical proximity
- – An industry specialization
- – Competitiveness
- – Innovativeness
- – A range of participants



CLUSTERS IN RUSSIA



Moscow and the Moscow Region

1. Cluster of nuclear-physical and nanotechnology
2. Biotechnology Cluster
3. Cluster "Institute of physics and technology XXI"
4. Cluster ' Zelenograd

KHMAO -Yugra

1. Timber industry cluster
2. A gas processing cluster

Republic Of Mordovia

Cluster of energy inefficient light equipment and smart lighting unit control systems

The Sverdlovsk Region

Titanium cluster

A Tomsk region

Cluster of pharmaceuticals, medical equipment and information technology

In total there are **97** clusters in the territory of Russia

THE REGIONAL ENGINEERING CENTRES

41 regional engineering centers created in Russia in 2016. The most popular are: A biotechnology engineering center (the Republic of Tatarstan), a center of engineering of mining-metallurgical technologies (the Krasnoyarsk Region), a space system engineering and technology center (the Krasnoyarsk Region)

FABLAB & PROTOTYPING CENTERS IN RUSSIA

Aim: A fab lab is generally equipped with an array of flexible computer-controlled tools that cover several different length scales and various materials, with the aim to make "almost anything". This includes technology-enabled products generally perceived as limited to mass production to provide start-up innovation companies, scientific organizations and universities with access to the modern environment “design – preparation to manufacturing - industrial output” to reduce terms and costs for the prototypes production.

Tasks:

- Design and adjusting of 3D models
- Making of electronic versions of 2D drawings and 3D models.
- Creation of electronic catalogues of engineering elements and products.
- Creation of photorealistic pictures.
- Three-dimensional scanning, output of prototypes.
- Measuring and control over the prototypes.

About 60 Prototyping and FabLab centers all over the Russia:

Altai Arkhangelsk Astrakhan Balakovo Barnaul Belgorod Biysk Rich Saba Bugulma Vladivostok Vologda Dubna Ekaterinburg Zhukovsky Zarechny (Penza region.) Zelenograd Zelenodolsk Ivanovo Irkutsk Kazan Kalininsk Kemerovo Kirov (Kirov region) Krasnoyarsk Kuznetsk Kurgan Kyzyl Leninogorsk Lipetsk Mamadysh Meleuz Minusinsk Monchegorsk Moscow Naberezhnye Chelny Nevinnomyssk Nikolsk (Penza region.) Obninsk Novosibirsk Orenburg Penza Petrovsk Pugachev Pyatigorsk Rostov-on-Don Ruzaevka Saint Petersburg Samara Saransk Saratov Smolensk Stavropol Sibai Tver Tolyatti Tomsk Tyumen Ufa Ulyanovsk Cheboksary Tchistopol Shumerlya Engels

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REGIONAL CENTERS OF EXPORT SUPPORT

In order to support small and medium businesses involved in exports, a network of regional export support centres has been established providing a range of services and support, from information and analysis to consultations and assistance on organisational matters.

These centres offer the following:

- Consultations on the practical side of foreign trade
- Information on commercial proposals made by foreign companies
- Expert reviews of foreign trade contracts and agreements
- Opportunities to visit trade expos, conferences and seminars held in other countries
- Opportunities to participate in foreign trade and economic missions
- Assistance in organising business meetings and negotiations

More than 30 regions have the centres all over the Russia:

Altai Territory Astrakhan Region Bryansk Region Ivanovo Region Kaliningrad Region Kaluga Region Kirov Region Krasnodar Territory Krasnoyarsk Territory Kurgan Region Mari El Moscow Nizhny Novgorod Novgorod Region Novosibirsk Region Omsk Region Primorsky Territory Altai Republic Republic of Bashkortostan Republic of Karelia Republic of Tatarstan Rostov Region Samara Region St Petersburg Stavropol Territory Tomsk Region Udmurt Republic Ulyanovsk Region Khabarovsk Territory Khanty-Mansiysk Autonomous Area Chuvash Republic

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THE CENTERS FOR SCIENTIFIC & TECHNICAL CREATIVITY OF YOUTH (CSTCY)

Centers for Scientific and Technical Creativity of Youth aimed to creating a supportive environment for the development of children, youth and small and medium-sized businesses in the areas of science and technology, innovation and industrial areas. through the establishment of logistic, economic, information base.

These centres offer the following:

- Ensure access for children and youth to the modern equipment direct digital manufacturing for the implementation, verification and commercialization of innovative ideas;
- Support of innovative creativity of children and youth for their professional realization;
- Technical and production support for children and youth, small and medium-sized businesses engaged in the development of promising products and technologies;
- Interoperability, exchange of experience with other centres, youth innovative creativity in Russian Federation and abroad.

More than 143 centers (CSTCY) in 40 regions all over the Russia:

Republic of Bashkortostan-7; Republic of Ingushetia-3; Republic of Mordovia-2; Republic of Tatarstan-10; Republic of Tyva-1; Chuvashia-4; Altay Region-5; Krasnoyarskiy Region-10; Perm Region-1; Stavropol Region-3; Arkhangelsk Region-1; Astrakhansk Region '-2; Belgorodsk Region '-2; Voronezh Region-1; Irkutsk Region '-1; Kaluzhsk Region '-1; Kemerov Region-3; Kurgan Region '-1; Lipets Region '-5; Moscow Region-7; Novosibirsk Region '-1; Penza Region-14; St. Petersburg-3; Samara Region '-5; Saratovsk Region '-5; Smolensk Region-1; Tambovsk Region '-2; Tomsk Region '-3; Tyumensk Region-3; Ul'yanovsk Region '-1; Khanty-Mansiysk -3; Moscow-32

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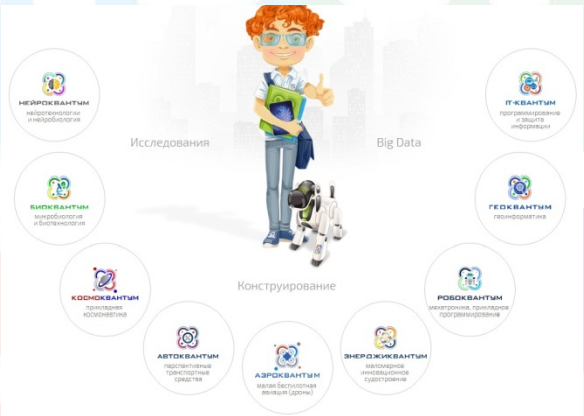
KID'S TECHNOPARKS (QUANTORIUMS)

Quantoriums - Technology Parks for children are opening in a number of pilot Russian regions. The goal is to get youngsters involved in engineering and research activity was lunched in 2015 by Russia's Agency for Strategic Initiatives (ASI).

The program first starts 2015 in Yugra (Russia's North), Tatarstan (mid-Volga area), Altay and Novosibirsk (both in Siberia), and Moscow and its surrounding region. Some of these are slated for opening by the end of this year already. According to ASI, 14 such projects are to begin across Russia's regions in the next 18 months.

Tatarstan region



Khanty-Mansiysk region (Yugra)

Altaic region

Moscow region

Thank you for your attention!

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