

Khanty-Mansiysk Autonomous Okrug – Ugra



# UNITY PARK

Innovative Science and Technology Center

Project implementation by Order of the President of the Russian Federation V.V. Putin  
(No. Пр-2215 dated 21.11.2022)



# Geography and Identity

**Tripartite Project Implementation Agreement:**



Surgut State University



пермский политех

Kogalym Branch of Perm National Research Polytechnic University



Ugra State University



- Science and Technology Park, innovation, science and technology sites and research laboratories, Surgut
- S&T Center and Laboratories housed in Kogalym Educational Center
- Scientific Center for Carbon Balance and Environmental Regulation Technologies, Shapsha



The only Science and Technology Center in the Ural Federal District






Russia's only S&T Center powered by scientific synergies of the three universities



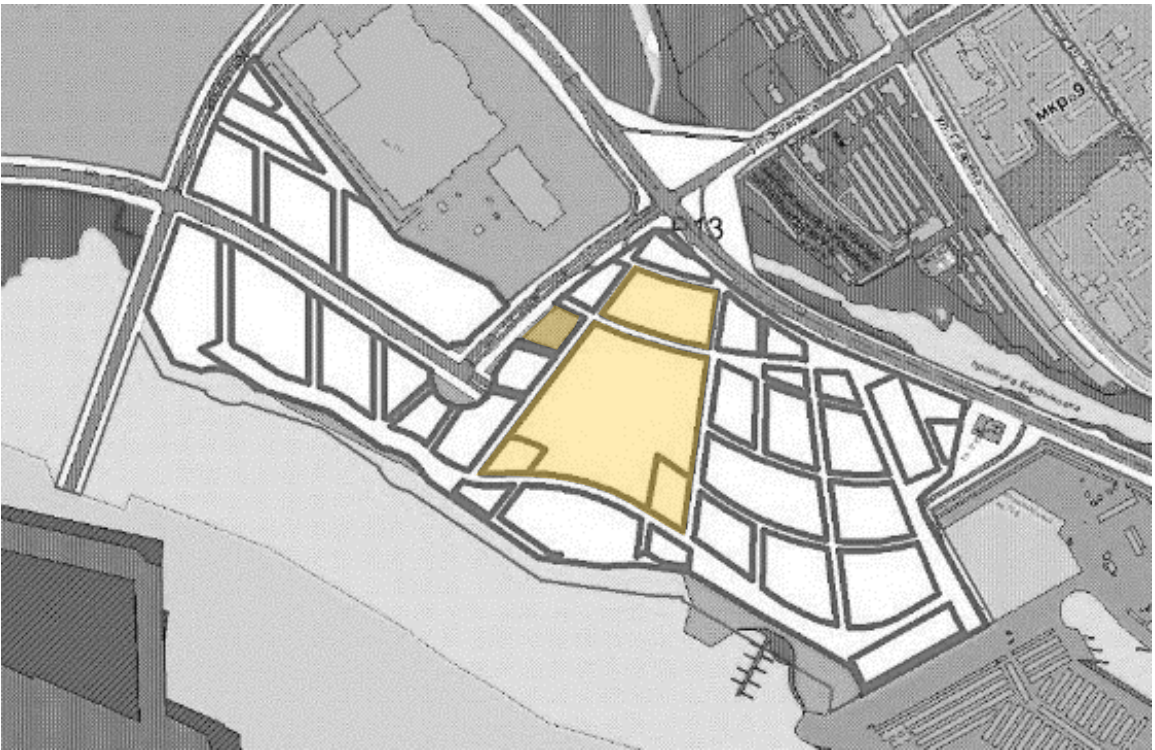
Russia's only S&T Center focused on creating technological sovereignty in the fuel & energy sector

## Priority Areas in Scientific and Technology Innovations

-  Development of fuel & energy security technologies for extraction of hard-to-recover oil reserves, applied geology, small-scale petrochemicals and energy-efficient construction materials
-  Health protection and living standards: 5P medicine, biomedical engineering
-  Advanced engineering technologies and new-gen materials adapted to the North and Arctic conditions

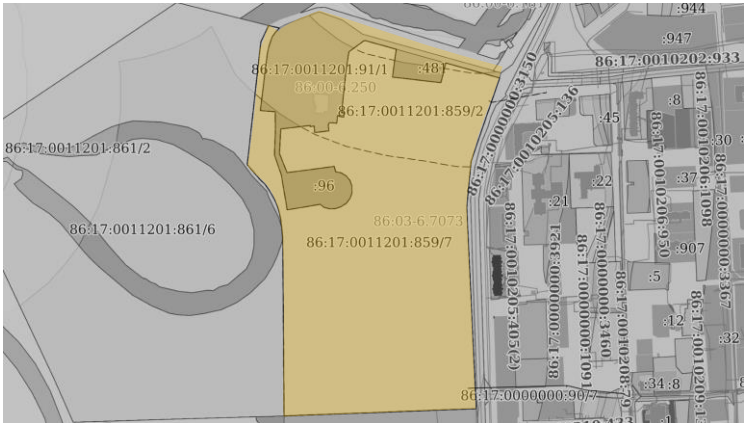
# Territorial Boundaries

 Surgut



75,617 m<sup>2</sup>    18,705 m<sup>2</sup>    6,112 m<sup>2</sup>

Land plots for the S&T park, innovation, science and technology sites and research laboratories



 Kogalym

167,727 m<sup>2</sup>    Land plot allocated for the S&T Center and production laboratories



 Shapsha

15,566 m<sup>2</sup>    Land plot for the Scientific Center for Carbon Balance and Environmental Regulation Technologies, Shapsha

## Inter-University Campus and Technopark



Innovations

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Science

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Technology adoption

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Location:  
Surgut

Deadline:  
2025–2026

Educational Center, Branch of the Federal State Autonomous Educational  
Institution of Higher Education  
Perm National Research Polytechnic University



Access for young people to high-quality, practice-oriented education with employment prospects in the fuel & energy industry of the Russian Federation



Development of the Western Siberia region



Use of facilities and resources of PJSC LUKOIL and its subsidiaries to implement scientific and production projects



Introduction of flexible educational programs adapted to the needs of the oil & gas industry



Location:  
Kogalym

Deadline:  
2023

Investor:  
Lukoil–Western Siberia LLC

## Scientific Center for Carbon Balance and Environmental Regulation Technologies, Shapsha



Technologies for monitoring various types of pollutions and disturbances in the normal functioning of environment due to anthropogenic human impact



Carbon management technologies for neutralization of anthropogenic impacts, restoration of normal environmental processes, and minimization of future impacts



Creation of integrated monitoring and decision-making systems using artificial intelligence and big data methods

Location:  
Shapsha

Deadline:  
2023–2024

## Performance Indicators by 2037



>5

number of resident companies of  
S&T Center

0



126

average revenue per resident adjusted for inflation and  
projected growth in sales volumes, million rubles



135

number of patents registered in the Russian Federation for  
inventions, utility models, industrial designs in the defined S&T  
priority areas of the Russian Federation



45

share of researchers under 39 y.o. in the total number of  
researchers working in the Autonomous Okrug, %



establishment of unique research complexes and laboratories

# Benefits for Project Participants



Property tax exemption for 10 years

- Article 381 of the Tax Code of the Russian Federation



Exemption from income tax for 10 years

- Article 246.1, Article 284 of the Tax Code of the Russian Federation



Exemption from VAT for 10 years (excluding imports)

- Article 145.1 of the Tax Code of the Russian Federation



Insurance premium rate cut down to 14%

- Article 427 of the Tax Code of the Russian Federation



No permit required, exemption from state duties for employing expatriates



Recovery of customs duties and VAT for non-excisable imports



Simplified scheme for urban planning in the S&T Center site



Regional support from the local government and development institutions

# Potential Residents

OOO "SETAGOR"	Drilling fluid digital twins for developing drilling technology, creation of prototypes Coiled tubing injector lift chain, coiled tubing units Hydraulic fracturing fleet units	ANO "Medical Equipment" Consortium	Adoption of new development and production technologies in medical devices circulation
OOO "Inspair"	Unmanned production technologies, Industry 4.0 Industrial robotics Production process automation	OOO "BRONEMED"	Development and production of domestic medical products. Implementation of projects in medical devices circulation, including through the adoption of new development and production technologies
OOO "Ermak Industries"	Modern electric automotive industry Loaders, tractors Construction equipment	OOO "NOVOLEK SBK"	Development and implementation of pharmaceutical projects
OOO "TOTA Systems"	Oil field digitalization. Intelligent continuous digital monitoring systems for optimization of oil & gas well production	OOO "PROMOMED DM"	Implementation of projects in development and organization of drug manufacture within the import substitution program (pharmaceutical substances, medicinal products, IT solutions) Implementation of scientific research projects in innovative biotechnology-derived medicinal products
OOO "ML ONE Solutions"	Development and production of downhole equipment, services for the construction of multilateral wells	ANO Center for Biotic Medicine	Development and implementation of projects in pharmaceuticals. Addressing problems in information security
OOO "Perfobur Service"	Radial drilling technology	OOO "Limatech"	Bioprintech is a high-margin technology for growing fish in open reservoirs by intensive aerial reclamation up to 750 kg per 1 hectare of water surface. The project objective is to create an Agrolandscape Oasis multifunctional zone on the territory adjacent to the reservoir
OOO "Irym"	Machine learning Artificial intelligence Big data for medicine		
Ugra Research Institute of Information Technologies	Digital Poligon is a platform for creating a knowledge ecosystem in the oil & gas industry: equipment and software testing, advanced applied scientific research, assessment of the level of security of IT infrastructures, personnel training		

# Product Line

## Development of energy security technology

- Drilling fluid digital twins for developing drilling technology, creation of prototypes
- Coiled tubing injector lift chain
- Coiled tubing units
- Hydraulic fracturing fleet units
- Unmanned production technologies, Industry 4.0
- Industrial robotics
- Production process automation
- Oil field digitalization (intelligent digital continuous monitoring systems for optimization of oil & gas well production)
- Development and production of downhole equipment, services for the construction of multilateral wells
- Radial drilling technology
- Study of geochemical features of unconventional using new physical and chemical methods

## Health preservation and quality of life

- Implementation of projects in healthcare, genetic engineering and biotechnology (medicinal products, medical equipment, IT solutions)
- Development of microchannel systems stimulating the development of biotechnologies and elaboration of scientific and technical framework for the effective use of microfluidic systems in green energy, petrochemicals and medicine
- Development of modern genetic technologies to create tools for preventive, personalized medicine, telemedicine support technologies
- Introduction of targeted therapy (selective delivery of medicinal components and products to target organs) and development of new pharmacological products with predictable distribution of ingredients

## Product Line

### Advanced engineering technologies and new-gen materials adapted to the North and Arctic conditions





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- Digital Poligon is a platform for creating a knowledge ecosystem in the oil & gas industry (equipment and software testing, advanced applied scientific research, assessment of the level of security of IT infrastructures, personnel training)
- Design of AquaOasis, a replicable ESG project for the comprehensive rehabilitation of water bodies from anthropogenic impact
- Development of new effective methods for prevention and treatment of age-associated diseases related to the influence of adverse factors specific to living in the North, based on the medicinal substance isolation from plant products of the region
- Design and maintenance of a systematic and socially demanded collection of living plants for the conservation of biodiversity and enrichment of plant life, development of applied plant growing, selection and formation of unique plants and grasses to shape the landscape of northern cities and settlements

# Financial and Economic Model

2023–2037

RUB billion

20.3		Total Investments, incl.
7.0		Regional budget funds
13.3		Non-budgetary sources
14.8		Fiscal revenues
		Tax receipts and payments
13.1		Fiscal expenditures
		Tax benefits and fiscal investment costs
1.7		Budget effect
112.8 %		Budget efficiency ratio