TECHNOPOLIS GS
GS GROUP

The Area of Scientific and Technological Development

Technopolis GS is a unique private innovation cluster in the Kaliningrad region facilitating generation, development and implementation of innovative ideas.

The cluster provides space for development of an industrial area, R&D and educational centers, business incubator and residential area. The GS Group investment and industry holding is the promoter and general investor of the project. The project aims to establish close cooperation between the Russian science and economy, as well as to create conditions for sustainable development of talented young Russian professionals for the country's benefit. Technopolis GS is located in the special economic zone in the Kaliningrad region. On the beginning of 2014, the total amount of investment into the project is more than 170 mln US dollars. Overall amount of investment in Technopolis GS up to 2016 is estimated at approximately 850 mln US dollars.

Technopolis GS is a modern town where high-tech industries contributing to innovation development operate successfully, convenient infrastructure is being designed and built, as well as positive environment for self-actualization and development of both technological and creative professionals is formed. These professionals shape the forward-thinking stratum of society making future happen today.

TECHNOPOLIS GS COMPRISES:

- **Industrial area**

Large-scale production of Russian innovative products;

- **R&D center**

A platform for the new ideas generation, projects development by the Russian talented specialists;

- **Business incubator and venture fund**

Conditions for establishing and growing promising businesses on the basis of projects of the Russian and foreign teams — generators of ideas;

- **Educational center**

Helping youth in the Kaliningrad region to choose their future while giving them an opportunity to make a successful career at Technopolis GS;

- **Residential area**

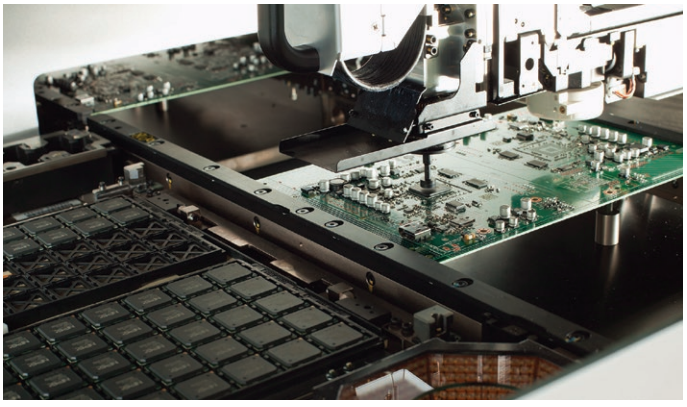
A cottage settlement conforming to European standards, extensive network of cultural entertainment facilities.

The Industrial Area of Technopolis GS includes:

GS Nanotech is microelectronics products development and manufacturing center. The only back-end facility in Russia that provides multichips designing and packaging using the SIP (System-In-Package) technology. GS Nanotech offers worldwide customers assembling of digital, analogue and hybrid microchips and multi-chip units in various types of BGA, LGA, QFN packages, as well as a full range of integrated circuits automated functional testing services in compliance with JEDEC standards.
www.gsnanotech.com

OJSC "Digital Television Systems" — the largest radio electronic equipment production in Russia. The plant capacity allows opening additional contract manufacture lines while keeping the same amount of core manufactured products—digital set-top boxes under the General Satellite trade name. OJSC DTVS uses the latest up-to-date equipment in Russia allowing not only switching swiftly from one product to another, but also conducting six-tier quality inspection of products. OJSC DTVS plant annual output reaches over 2,5 mln STB's, which contribute 2% of digital set-top boxes annual manufacturing in the world.
www.dtvs.ru/en/

LLC Prancor specializes in manufacturing satellite dishes and digital set-top box casings. 300,000 off-the-shelf products are manufactured every month. The enterprise renders services of various details production, sheet-metal stamping, metal products coloring, plastics casting. The plant utilizes up-to-date equipment, such as Year-Chance injection molding machines. The Prancor plant is the only manufacturer of satellite dishes in North-West Russia.
www.prancor.ru



DTVS. Installation of Central Processing Unit

GS Nanotech. The process of die attach

Prancor. Manufacturing of digital TV set-top boxes casings

Carbon nanomaterials manufacturing line — the one and only carbon nanostructured material plant in Russia with an activation line. The machine for manufacturing carbon nanostructured tubes was the result of deep scientific research, constant engineering and technological development. Carbon nanostructured material can be used in an innumerable number of spheres. The unique properties of the end product make it possible to use it in different industrial sectors from oil recovery and coal mining to rocket production. The addition of nanostructured carbon material to other materials

improves their properties significantly. A new chrome plating technology to give materials the unique properties, as well as nano-additive, used in it, are GS Group own development. Wear resistance, hardness and other properties of the products using NCM Chrome technology are much higher than when using traditional chroming methods.

LLC First Folding Carton Factory is a modern enterprise manufacturing a wide range of products from corrugated cardboard that has unique properties due to the addition of carbon nanostructured material. The biggest manufacturer of packing material in the Kaliningrad region.
www.pkf39.ru/info_en

The one and only carbon nanostructured material plant in Russia with an activation line

LLC House Building Factory "Beliy klyuch" is a house-building factory providing comfortable and inexpensive cottages and multiple dwellings with individual design thanks to the prefabricated building technology. The key feature is that the house assembly, finishing work, furniture installation and sanitary engineering are fulfilled at the factory. This technology allows building a comfortable modern cottage of the European level for a family of 4-5 people in just three days. The House Building Factory aims to solve the issue of providing Technopolis GS employees affordable and comfortable housing. Rated capacity of the facility is up to 250 houses a year.
www.zik39.ru

Production department of First Folding Carton Factory

TODAY THE FOLLOWING TASKS ARE SUCCESSFULLY IMPLEMENTED IN TECHNOPOLIS GS:

- Creating conditions for sustainable innovative and economic development;
- Social infrastructure improvement;
- Business development and expansion of the electronic industry cluster. Seven high-tech industries will be included in Technopolis GS, six of them are already constructed and operating;
- New jobs creation. There are now 2000 employees engaged in the Technopolis GS industries, and this number is expected to increase to 5000 by 2017; 3000 jobs among them are to be allocated for the specialists in the high technologies field;
- The testing of a small Russian city innovative development model which can be applied to rebuild the economies of other small towns in the country;
- A social and cultural environment is being formed. An art center is being created, and museum and exhibition complex is under construction for this purpose. Technopolis GS volunteers restore military burials of WWI on the Gusev district territory. Statuary in memory of 100-year anniversary of the beginning of WWI will be installed near the site of the victory in the Battle of Gumbinnen, on the Technopolis GS territory.

Project implementation stages 2008–2016

2008
The agreement on implementation of the Technopolis GS project was signed between the administration of the Gusev urban district and the GS Group holding (at that moment — General Satellite Corporation).

2009
OJSC DTVS and LLC Prancor plants were set in operation.

2010
The first batch of products was shipped from LLC First Folding Carton Factory and LLC House Building Factory "Beliy klyuch".

2011
The foundation stone of OJSC GS Nanotech, microelectronics products development and manufacturing center, was laid.

2012
The GS Nanotech plant opened. The first phase of the cottage settlement "Solnechnaya Dolina" for Technopolis GS key employees was completed in the town of Gvardeysk.

2013
GS Nanotech mass production was launched. The site for construction of a cottage settlement in the town of Gusev for all the GS Group employees was prepared.

2014-2016
Plans:

- Open an academic campus and a business incubator;
- Open a cultural and business complex, Technopolis GS residential and park areas;
- Build the cottage settlement in the town of Gusev.

Technopolis GS — the best Russian private technology park by National Research University Higher School of Economics and OJSC Russian Venture Company

Technopolis GS was named the best Russian private technology park by National Research University Higher School of Economics and OJSC Russian Venture Company. The project of GS Group holding was distinguished at the Second Summit of Russian technology parks "Technopark 2.0: Resources for Development of Russian Technology Parks" in Moscow, October 2013. Technopolis GS became the best in the category "Technology Park Development Model in the sphere of High Technologies through Private Financing". The innovation cluster was also awarded for successful infrastructure development, creation of new jobs and contribution to development of clusters in regions.

Anatoly Chubais, RUSNANO CEO:

SIMPLY NOTHING OF THE KIND EXISTS IN THE COUNTRY

"Kaliningrad region is the example of the situation when there was no serious innovative activity, and now it really exists. [...]Now it [Technopolis GS] is the only cluster in the country which has a processing facility with clean rooms for production of electronic components in 40-nanometer range. Simply nothing of the kind exists in the country! [...] Single-walled nanotubes is a product which is invincibly believed to make a revolution in the world".

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