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**The group of SCANEX companies** (SCANEX Holding) - a leader in the field of satellite-based monitoring of the Earth; a holding, occupying key positions in the Russian market in development, production and introduction of technologies for reception, processing, storage of the Earth observation images and quick access to them.

**SCANEX Holding mission:** We offer innovative, high-tech solutions, based on the unbiased and up-to-date information about the Earth, streamlining and making cheaper the access to remote sensing data and creating complex products for specific goals and objectives, thus ensuring an effective decision-making at every level for a systematic development and prosperity of the state and businesses.

**SCANEX Holding** - is the only in Russia and CIS company with a unique process flow: direct reception of data from remote sensing satellites to its proprietary network of stations, processing of satellite data applying its own technology and providing access to satellite images and data products applying proprietary geoportal services that guarantee low data cost to the customer and delivery operability.

National technology and personal experience underpin all the key developments of SCANEX Holding, thus providing complete import substitution in satellite-based monitoring of the Earth, starting from the data reception and processing and up to the integrated products.





## Its major business lines are:

- development and introduction of UniScan™ (X-band data) and Panda™ (L-band data) ground stations, which ensure remote sensing data reception;
- development and supply of own terminals for primary processing and generation of standard ERS products;
- development of own software for reception, processing, storage and delivery of satellite images to customers;
- development of thematic integration projects, including the creation of geoportals for online work with spatial data;
- development of geoinformation systems, geoservices and near real-time monitoring services for different sectors of the economy;
- access to global space data catalogs, satellite imagery data and product derivatives distribution;
- expert reviews and preparation of expert opinions for the conflicts settlement within the framework of pre-trial and court practice, for damages assessment by insurance companies and for other cases;
- regular training courses on processing and practical application of remote sensing data for both industry professionals and novice users;
- implementation of educational projects in secondary, higher and further education;
- organization and holding of the International Conference "Earth from Space - the Most Effective Solutions".



25 years of successful work in the market

Availability of a proprietary network of receiving stations, processing terminals and unique software with the "make-to-order" upgrading option

Data receiving and processing operability

Distributor of world leading RS Operators for direct data reception from satellites of SPOT, EROS, RADARSAT and UK-DMC-2 series. to UniScan™ ground stations

Regular monitoring of the territory of Russia and CIS countries with different spatial resolutions

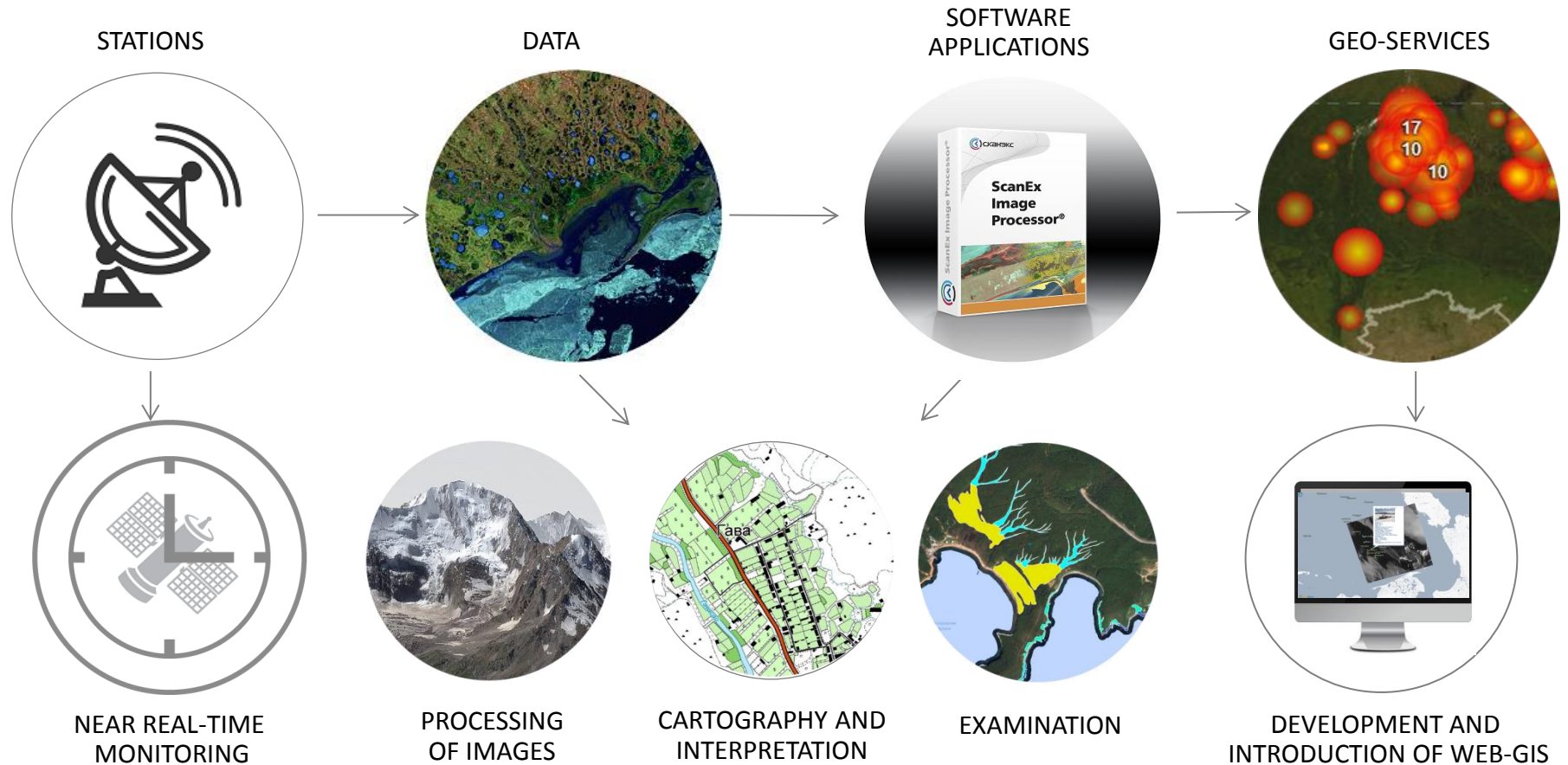
Own long-term remote sensing data archive (the ability to trace the dynamics in terrain changes with time (change detection) and to predict the consequences of these changes)

Own staff of highly qualified professionals and software developers (3 Ph.D. and 10 Ph.D. candidates)



PRODUCTS

SERVICES



### Ways to receive data

- Procurement/installation of receiving stations
- Buying separate scenes
- Getting data as a service

### Advantages

- Cost reduction and maximum speed of data acquisition
- Possibility of processing and extraction of thematic information
- Easy access to data



## STATIONS



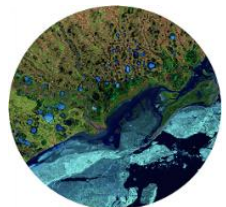
One of the key activities of SCANEX - development and implementation of ground stations for direct data reception from Earth remote sensing satellites

- **UniScan**™ (8 GHz) - stations for receiving data of different spatial resolution (Landsat-8, Spot-6/7, Kompsat-3, TerraSAR-X, RADARSAT-2, EROS A/B, Pleiades-1A/1B, Kanopus-V, Resurs-P). UniScan station's light antenna systems can be installed virtually on any platform, including roofs of buildings.
- **Panda**™ (2 GHz) - stations for meteorological data reception (NOAA, MetOp, FY-3, Meteor-M).

Receiving systems - digital and fully programmable to receive data via any radio channel in a wide range of parameters at rates up to 750 Mbps (Uniscan stations) and up to to 60 Mbps (Panda stations). Stations can be easily upgraded to receive data from new satellites.

Usage of own receiving stations enables to speed up data reception and reduce their cost.

## DATA



SCANEX offers:

1. Supply of archived **remote sensing data** and placement of orders for new imagery from optical and radar satellites: from purchasing an individual image or its fragment to creating a mosaic coverage and 3D terrain models. SCANEX has been working with the world leading RS Operators, including DigitalGlobe, Airbus Defense and Space, E-geos, ImageSat, MDA, USGS, Satrec Initiative ..
2. Supply of **AIS data** (Automatic identification of ships). AIS is intended to enhance the navigation safety and protect the environment.
3. Supply of **data from the UAVs** (Unmanned Air Vehicles). UAV data is intended to provide highly accurate and highly detailed maps, including 3D-maps.

## SOFTWARE APPLICATIONS



### Preliminary data processing

- ScanEx TERRA/AQUA Tools
- ScanEx EROS-A/B Tools
- ScanEx SPOT-6/7 Tools
- ScanEx SMPP Tools
- ScanEx Meteo Tools

### Thematic data processing



#### SCANEX IMAGE PROCESSOR\*

- ScanMagic
- ScanEx TaskFlow
- MeteoGamma
- GISEYE Raster Converter
- GISEYE Image Transformer
- GISEYE QuickLook Generator
- GISEYE Value Converter
- ScanEx ADPS

### Web-based applications and services



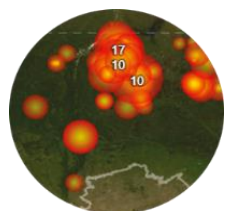
#### SCANEX WEB CATALOG\*

- ScanEx Satellite Orbit Kit
- Planet SCANEX
- Geo-Box 3D

\* *Scanex Image Processor* - software for photogrammetric and thematic satellite data processing and modeling.

\* *ScanEx Web GeoMixer* - multifunctional platform to create interactive maps and GIS applications on the Internet and in the local area network of an enterprise.

## GEO-SERVICES



SCANEX offers off-the-shelf solutions in the form of geo-services to get access to spatial information and integration into internal systems and data bases of enterprises or external sites.

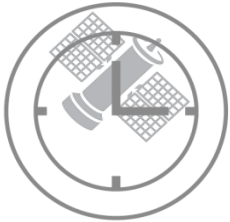
**Map of fires** - the service designed for the detection and identification of possible fire sites and fire hazards on the territory of the Russian Federation.

**Online catalog** - the open geo-service to search for and order satellite images based on preset parameters, combining access to archived and new images of different RS Operators.

**CosmosAgro** - online service for the upkeep of spatial database, inventory and registration of the agriproduct producers' lands and for operational monitoring of the agricultural activity results.

**Google Maps for business** - a collection of APIs for creating unique Google Maps-based applications to optimize decision-making, resource management and improving the services quality.





## NEAR REAL-TIME MONITORING

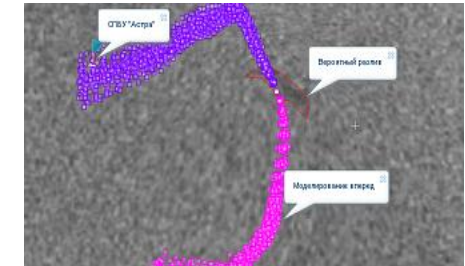
Real-time monitoring enables to receive up-to-date information about different objects and their properties, regardless of the time of day and weather conditions. Based on the information received thematic products, services, operational monitoring services are created, and examinations conducted aimed at meeting the challenges of the public sector and businesses. Time delay from images acquisition to delivery of finished product to the user is 30-60 minutes on average.



Floods monitoring



Land use monitoring



Oil spills monitoring

## DEVELOPMENT AND INTRODUCTION OF WEB-GIS



SCANEX offers development of multifunctional geoinformation systems for thematic projects implementation in various branches of the economy. GIS provide collection, processing, analysis, visualization, storage of spatial and business data to solve a large variety of tasks.

### GIS "DEMETER" ROSSELHOZNADZOR



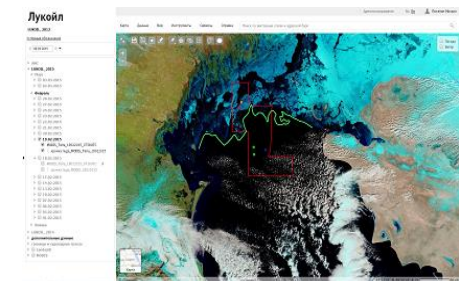
Agricultural monitoring

### GIS ATOMFLOT "ONLINE SHIPS NAVIGATION MONITORING"



Information system of the Northern Sea Route support

### LUKOIL GEOPORTAL



Environmental monitoring of the Caspian Sea

THEMATIC  
PROJECTS**Development and realization  
of thematic projects in:**

- Defence and security
- Emergency situations
- Cartography
- Agriculture
- Forestry
- Cadastre and land use planning and control
- Subsoil use
- Meteorology
- Transport and navigation
- Nature conservation

**Types of work:**

- Photogrammetric works
- Creation of digital elevation models (DEM), 3D visualization and modeling
- Thematic interpretation and expertise
- Creation of thematic cartographic products and services
- Creation of geoportals
- Monitoring activities
- Research and development

EDUCATION  
PROJECTS

1. SCANEX carries on a series of training courses on processing, analysis and interpretation of Earth remote sensing data. An official certificate of the refresher training courses completion is awarded at the end of the course.
2. SCANEX is the "UNIGEO" Consortium member. The purpose of the Consortium creation is to unite intellectual resources and advanced technologies of Russia universities in order to improve the education quality and promote public access to new knowledge and technologies of using remote sensing data.
3. SCANEX introduces its modern space and web-technologies at schools. There are 37 Moscow secondary schools equipped with specialized hardware and software; the training course "Using Geoportal Solutions of SCANEX at Schools" has been developed and organized for teachers-geographers.
4. In many universities in Russia (including Moscow State University) the GeoMixer technology was used to create geoportals, which are regularly replenished with new satellite imagery data.

Clients Of Scanex Holding: OAO NK Rosneft, OAO Gazprom, OAO "Lukoil", FSUE "Atomflot", Emercom Of Russia, Yandex, Russia's MINISTRY Of NATURAL RESOURCES, Roshydromet, VexcelCorp. (Microsoft, the United States), the port of Novorossiysk, the University of Valladolid and Valencia (Spain), Moscow State University, St. Petersburg State University, National Mineral Resources University (St.-Petersburg), Northern Federal University, Lomonosov Moscow State University, Moscow State University of Geodesy and Cartography, Perm State National Research University, Korolev Samara State Aerospace University , and many others.

Remote Sensing Centers in Spain, U.A.E., Vietnam, Nigeria, Iran, Kazakhstan, the United States and Uzbekistan have been established and have been successfully operating based on the SCANEX's technology.



MINSELKHOZ OF RUSSIA



РОСРЕЕСТР  
Федеральная служба  
государственной регистрации,  
кадастра и картографии



FSUE "ROSLESINFORG"



ATOMFLOT



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