

Our experience in corporate Informatization



IT-Transit

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About IT Transit

Experience and competencies

1

Founded in 2006 on the basis of VNIPITRANSNGAZ institute during its restructuring, today IT-Transit unites 70 specialists of a wide range

Implementation experience

3

Successfully implemented > 10 major corporate projects. We have considerable experience in the field of transportation, processing and gas storage, gas condensate

2

Assistance

We accompany information project from survey and design to development, filling of data and implementation of ready system to the customer “turnkey”

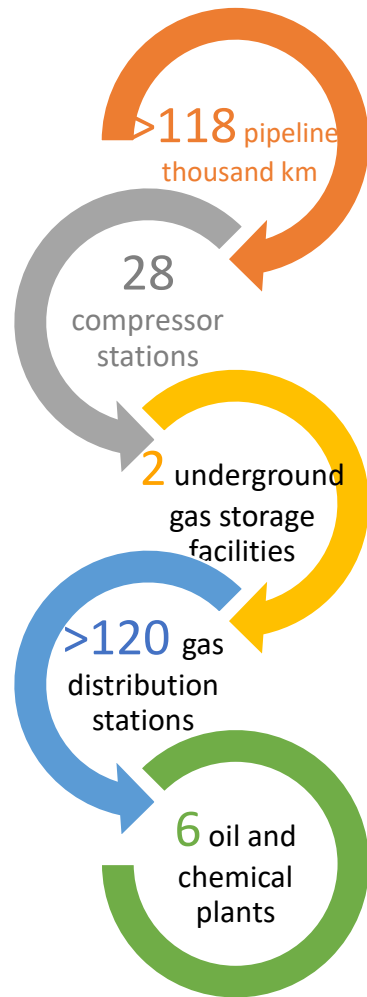
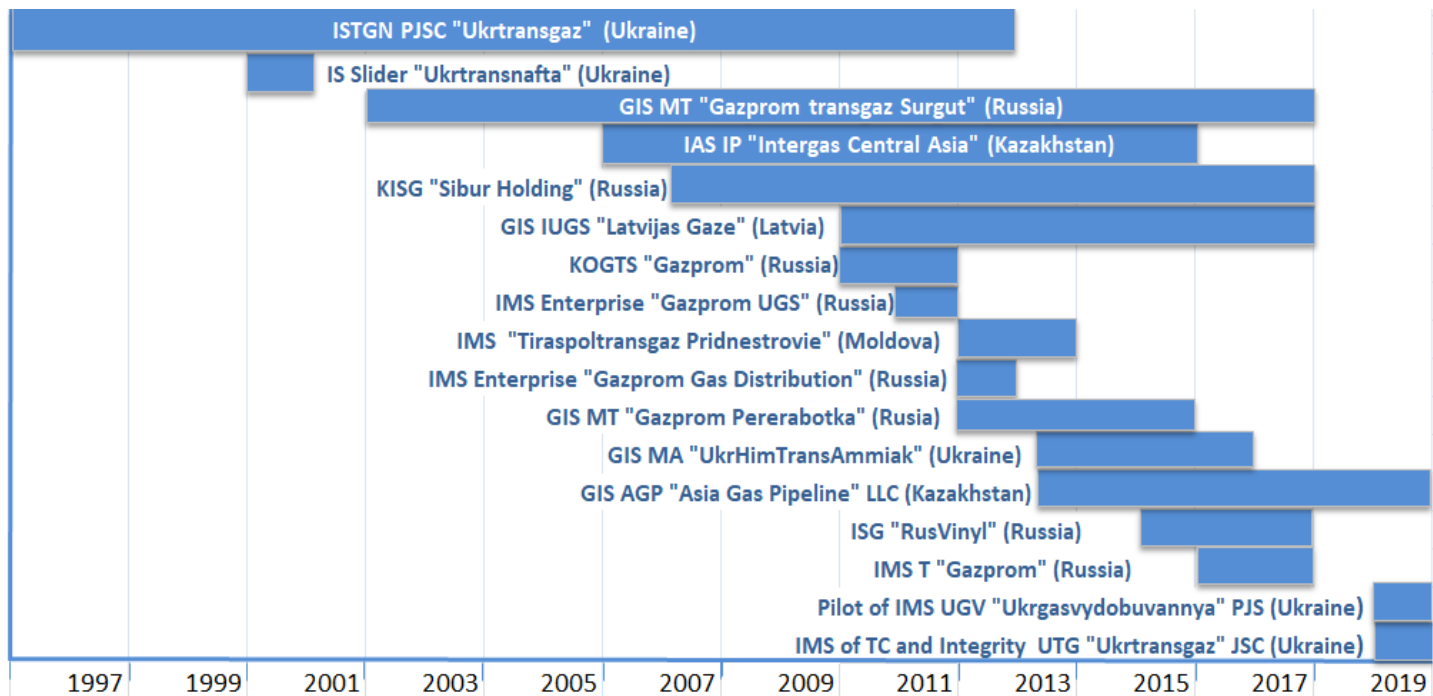
4

Industry solutions

IT-Transit is one of the leaders in the market of Eastern Europe in the informatization of oil and gas companies and has its own software products for GIS tasks, equipment certification, analytical evaluation of technical status, technological workflow



Our experience



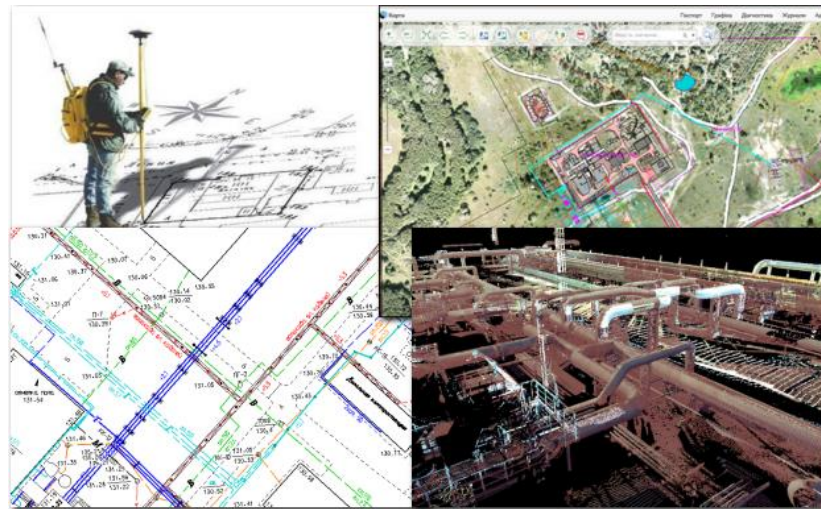
IT specialization

- Data Analysis and structuring, formation of applied classifiers and data models of enterprise facility
- Development of enterprise geoinformation and information-management systems any level of complexity "turnkey"
- Design and implementation of analytical management systems of technical condition and technological facility integrity on the risk analysis basis
- Formation of the production knowledge base of the enterprises, and also tools to work with them (standard reference information, spatial and diagnostic databases)

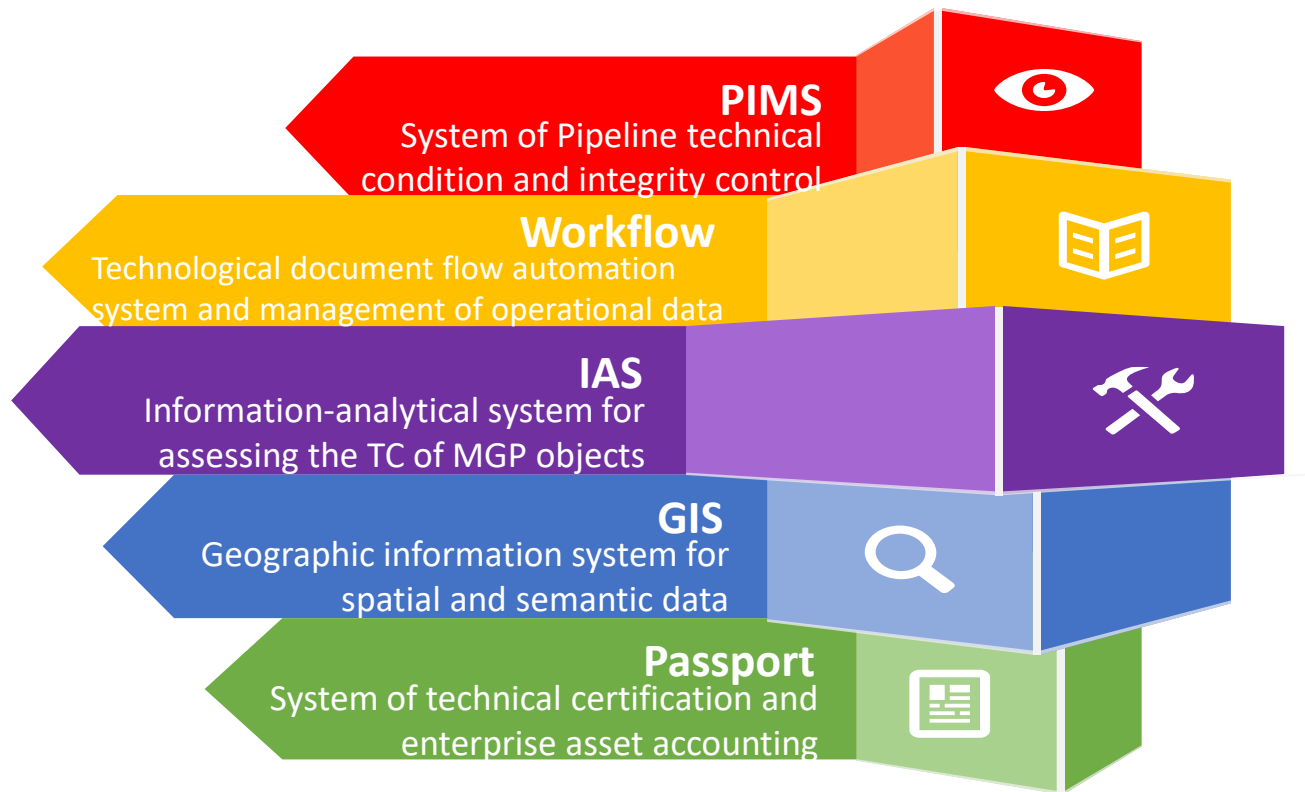


Database formation specialization

- Data collection and database structuring
- Topographic and geodetic works
- Remote sensing
- Land cadastral works
- Engineering surveys
- Digital mapping
- Creation of 3D models



Components of corporate informatization

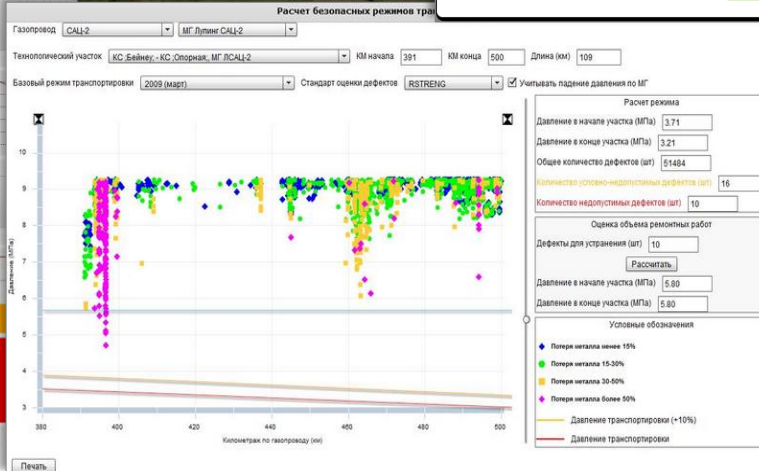
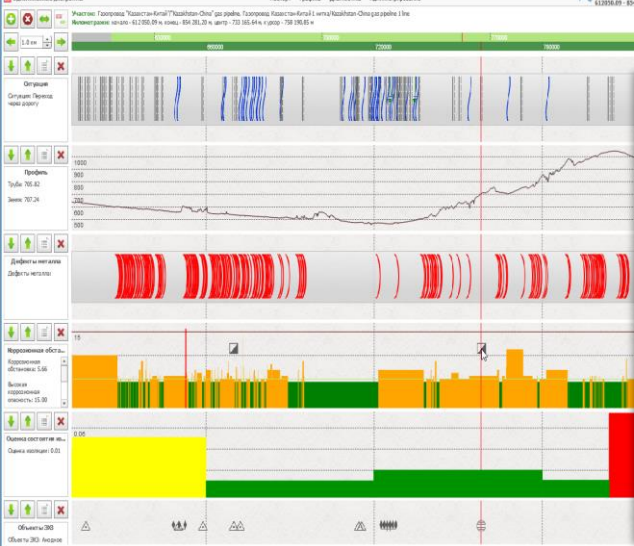
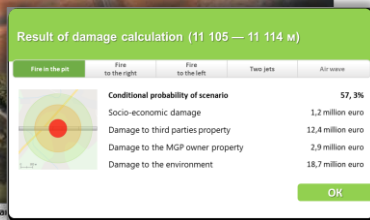
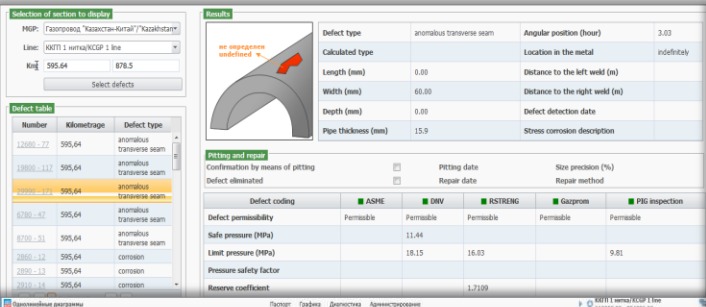


SCADA systems

Other systems

ERP systems

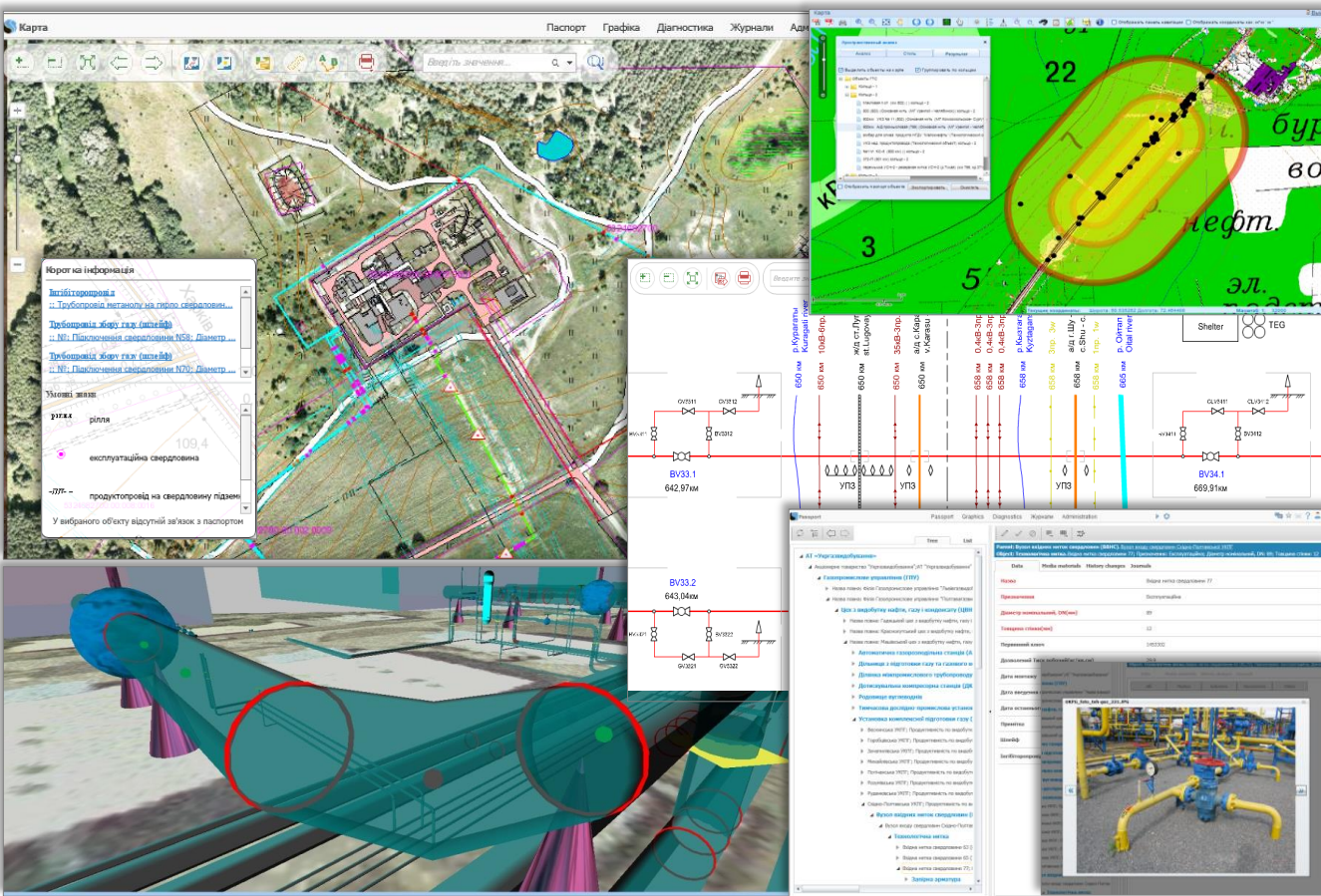
MS of Technical condition and integrity of the main gas pipeline (risk management methodology)



- Calculation and **evaluation** of the **defect hazard** by international standards: DNV, ASME, RSTRENG, Gazprom
- Interactive **construction** of single-line **diagrams**, including:
 - situation
 - longitudinal profile
 - defects by PIGI
 - corrosion situation
 - Insulation state assessment
 - ECP objects
 - level of failure probability for each km
- **Calculation of damage** and technogenic risk by 5 possible scenarios of the accident
- **Determination** of the possible **consequences**
- **Spatial analysis** in damage assessing
- Estimation of transportation **safe mode**
- Optimal **repair** methods **appointment**
- Formation of **repair** volume and **priority**

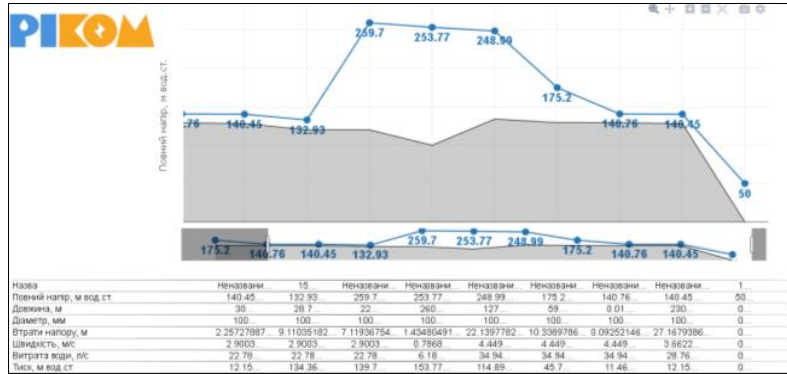
GIS and Asset Management

Fields, Compressor stations, UGS and petrochemical plants



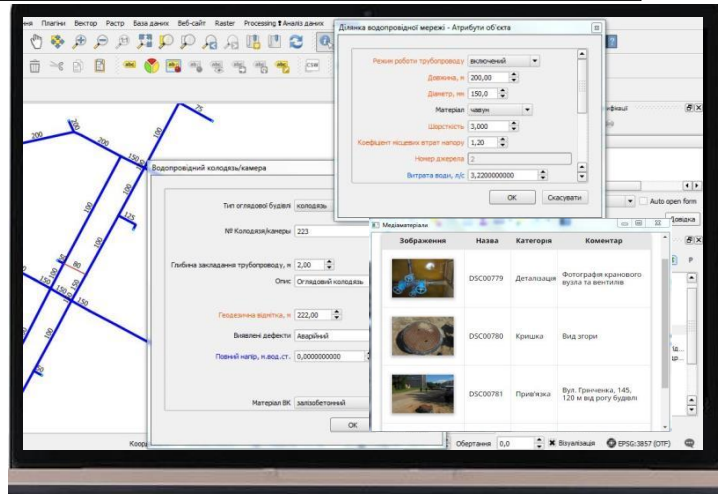
- Analysis of situation on interactive map in layers and modes of operation:
topographical plan, satellite imagery, Internet services substrates, hybrids
- Formation and maintaining of the industrial site **facility DB**
- Media content storing, viewing and adding
- Object **localization on graphics** from e-form:
 - Map
 - Longitudinal profile
 - Technological schemes
 - Diagrams
 - 3D model
 - Hydrodynamic section of wells, dynamic construction of wells
- **Navigation between** graphic materials, between graphics and facility e-form
- **Thematic map construction** on selected objects
- **Spatial analysis**, including impact zones of damaging factors and so on
- Interactive map **navigation tools**: searching, localization, transition by coordinates or by mileage, optimal route construction between point

Reckoning and information complex of municipal engineering networks



RIKOM software is intended for:

- creation of geoinformation system of municipal engineering networks including **water supply, drainage, heat supply, gas network, electric network, telecommunications, transport network**
- constructing of their mathematical model
- inventory of network objects and asset management
- hydraulic calculations of networks and analyzing their results
- simulation of emergencies and calculation of risks associated with water hammer



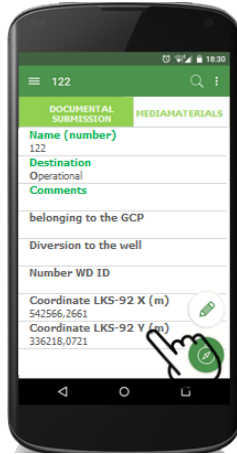
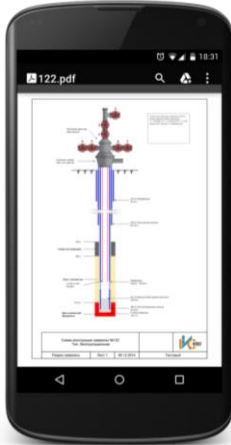
Complex allows solving topological and search problems, comparing the results of calculations to further provide recommendations on **network optimization** and **simulation** of network conditions for **different configurations**.

Automatically read and maintain metrics with Scada sensors installed, Consumers accounting and data collection from household meters is able.

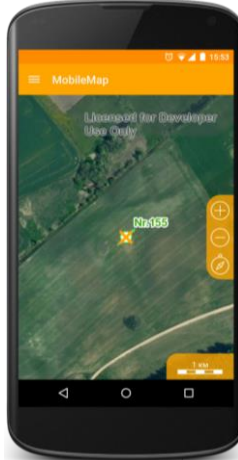
Mobile apps



media content on facility e-form



localization on graphics



longitudinal profile construction

- Remote use of DB
- Adding the accompanying **media content** to facility e-form directly from the camera
- **Quick search** by attributes and entities names from any system location
- Object **localization tool** on the map from passport
- **Positioning** by GPS
- Object **identification on the map** and move to the facility e-form
- Optimal **route construction**
- Working with the **flow charts**
- Interactive construction of the **longitudinal profile**