GAZPROM NEFT AND YANDEX.TERRA TO COLLABORATE IN SOFTWARE DEVELOPMENT FOR SEISMIC OPERATIONS

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The Gazprom Neft Joint Scientific and Research Centre LLC has signed a memorandum with Yandex.Terra (Seismotech, Ltd) on joining forces in the development of domestic IT technologies and software for the processing and interpretation of seismic data. Products resulting from this collaboration will be adapted to analyse geo-seismic conditions throughout various regions of Russia.

This partnership envisages the joint processing of seismic data obtained from Gazprom Neft upstream assets, as well as organising seminars for employees at the Gazprom Neft Joint Scientific Research Centre. In addition to this, the initiative will also investigate issues relating to the integration of the proprietary Gazprom Neft GeoMate* system with any software developed.

Gazprom Neft Technology Directorate Head Mars Khasanov commented: "We are already experienced in creating our own software, used successfully in place of similar imported products. Software products developed as part of the company’s Technology Strategy are not only widely used throughout the company, but are also continuously improved. Collaboration with Yandex.Terra will further enhance our ability to develop new IT products and continue the implementation of the company’s „Electronic Asset Development (ERA)”** project.

The General Director of Seismotech, Ltd, Dmitry Mosyakov: "The collaboration with Gazprom Neft Joint Scientific and Research Centre LLC opens up new perspectives in the development of seismic data processing software. The research is important only when required by practical work and a software is competitive only in the case it is being continuously developed”.

NOTES FOR EDITORS:

The Gazpromneft Joint Scientific and Research Centre LLC is a subsidiary of JSC Gazprom Neft. The core objective of the Joint Scientific and Research Centre is to increase production and improve efficiency through the application of new technologies and solutions throughout Gazprom Neft fields. The centre provides analytical, methodological and scientific and research support for all aspects of exploration and development. The work of the Joint Scientific and Research Centre is focused on the development of new technologies, on engineering and project expertise in hydrocarbon exploration and development, on project management and design, on analysis and monitoring of oilfield development, and on geological prospecting, hydrodynamic modelling, and technological support and operational control in drilling operations.

* The GeoMate system (a proprietary software product of Gazprom Neft) allows the accumulation and analysis of geological data on all Gazprom Neft fields. This information platform allows the impact of more than 200 geological features to be evaluated. The GeoMate system brings together approximately 80 percent of all data available from the analysis of geological and geophysical information — seismic data, maps, the results of well surveys, well-core data, and so on. Access to a single, fully comprehensive IT environment allows direct and immediate access to all data necessary for the construction of field models and the identification and detailing of promising zones and formations. A new version of this
system, currently under development, is expected to show a significant increase in its capabilities, allowing geologists to optimise operations in the investigation of well-core data, to automate mechanisms for geological analysis, and to construct reference 3D-geological models.

**Gazprom Neft’s “Electronic Asset Development (ERA)” project** is developing IT initiatives in all areas of exploration and production, including geological prospecting, drilling, development, production, and field development. Under implementation since 2012, the ERA initiative became part of the company’s technology strategy in 2014, and is now a key area of focus. More than 30 projects are currently in hand under the ERA initiative. Work within the framework of the ERA initiatives is undertaken with the support of specialists from the Gazprom Neft Scientific and Technical Research Centre, together with ITSK (a subsidiary of Gazprom Neft involved in IT, automation and telecommunications projects).

**Yandex.Terra (Seismotech, Ltd)** provides the unique set of services including all required components for seismic data processing: software licensing and users support, interpretative processing of seismic data, research and software development for specific clients’ tasks and consulting in the area of interpretative processing of seismic data. The company's team has many years of expertise in the area of seismic data processing and software development.

**Prime** is a full-function interactive system for interpretative seismic data processing, which includes all the necessary procedures starting from the field data quality control up to high-performance cluster computations. The geography of practical experience in Prime software includes more than 100 land and marine projects in various regions of the world.

**Contact information**

Yandex.Terra

[www.yandex-terra.ru](http://www.yandex-terra.ru)
Email: [mail@yandex-terra.ru](mailto:mail@yandex-terra.ru)
Phone: +7 (495) 943-47-70
Solovyeva Inna (contacts with media)