

**Development of a digital platform for geological-geophysical and production big data management at
“Tatneft” PJSC**

Sector:	Oil and gas
Region:	Russia
Year:	2018
Client:	Tatneft
Task:	<ul style="list-style-type: none">• Creation of BIG DATA (geological and geophysical data and field data) and its conversion into Smart DATA.• Coverage and instant access to all accumulated production information in all of the Company's information resources, regardless of format and storage locations.• Creation of a system and approaches to significantly reduce data preparation time for information-intensive production processes (planning and modelling of field development, etc.).• Solution development via a digital platform, that provides specialists with a full range of necessary production information.
Result:	<p>Introduction of an access system to distributed geological and commercial data ensured the following benefits:</p> <ul style="list-style-type: none">• reduced data preparation time for information-intensive processes such as: analysis, modelling, forecasting and optimization processes by 30-60%;• improved data quality due to the cross-matching identical data in various Company information resources;• data storage optimization through identification of redundancies;• ability to formulate complex analytics based on big data analysis technologies.

By 2025 capitalization is planned to be doubled and production volumes — by 11%, while specific operating

costs are planned to be reduced by 10% or more. One of the critical conditions for achieving the set objectives is the digital transformation of business, which will improve planning accuracy and management of production activities based on predictive technologies using high-quality digital models and big data.

Review:

"Setting up of a traditional data bank for a comparable amount of information (about 10 million files, about 1 PB of data) usually takes about 2-3 years. However, the project to introduce an access system for distributed geological and commercial information at "Tatneft" was successfully implemented in just 7 months, within the established project deadlines

Highly-qualified consultants from the ITPS Group of Companies successfully solved all tasks set out over the course of the project.

We are grateful to the ITPS Group of Companies for their professionalism, efficiency and unique approach to problem solving, and we would highly recommend ITPS as a partner for undertaking the digital transformation of large industrial enterprises. "

R.R. Pavlov, Head of the IT subdivision of the TATNEFT Group.

*The material is available in Russian version only