

EARTH OBSERVATION SYMPOSIUM (B1)  
Earth Observation Applications and Economic Benefits (5)

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APPLICATION OF AEROSPACE METHODS OF MONITORING FOR THE BENEFIT OF  
OIL-AND-GAS INDUSTRY

**Abstract**

The report presents the results of introduction of aerospace methods of remote sensing in oil-and-gas complex activities. Considering spatially distributed infrastructure of oil-and-gas industry of Russia, facilities of which are located, inter alia, over under-populated territories, the methods of Earth observation for its monitoring are extremely essential. The report shows the experience of the company Gazprom Space Systems on industrial introduction into Gazprom Group enterprises of such space technologies, as, for example: - monitoring of the main pipelines; - thematic mapping of licensed allotments; - monitoring of ground surface deformations in industrial information systems. The mentioned technologies inherently use the space-based remote sensing data and the information from UAVs.