

AGREEMENT OF INTEND
on strategic cooperation in the field of development of natural
resources in Novosibirsk Region

Zürich

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In 1993 the Siberian State Academy of Geodesy (SSGA) and Leica Geosystems AG started the successful business cooperation, established as a mutual agreement. The first shipment from Leica Geosystems AG to SSGA that included one total station and a dual frequency receiver (the first delivery to Novosibirsk) initiated the usage of the world best geodetic technology and specified the SSGA's development strategy. Today, SSGA and Leica Geosystems AG have a trustful and friendly relationship, resulting from many multi-level meetings in the past years.

Leica Geosystems AG made a great contribution to the development of SSGA's fields of activities such as RSD processing, automation of large scale topographic mapping, GLONASS/GPS-technologies, precise leveling, metrology, terrestrial laser scanning etc. All these fields of activities were specified as topics for the SSGA's scientific research papers, were integrated into the educational process and influenced the overall technological progress in the Russian Federation. In the past years, SSGA organized a number of seminars, presenting Leica Geosystems' hardware and software solutions.

Based on the decision of the governor of the Novosibirsk Region, Mr. Tolokonsky V.A., the new project on the set up of the 19 GLONASS/GPS Reference Stations, was started in autumn 2008. This project foresees the usage of the Leica Geosystems' GNSS hard- and software.

The other measurable result of our cooperation is the scientific congress and exhibition GEO-Siberia, where SSGA together with Siberian Fair, appear as organizers and Leica Geosystems AG as a permanent main sponsor. Thanks to this alliance GEO-Siberia has become one of the famous events in Russia and enjoys its increasing popularity all over the world.

All of the above mentioned, allows us to say that the strategic cooperation between Leica Geosystems AG and the Siberian State Academy of Geodesy is an efficient and a productive cooperation, which shall be continued in the future. The main targets of the future cooperation are to ensure the efficiency of the exploration of the natural resources in the Novosibirsk Region and in Russia in general, to stimulate the dynamic development of the Siberian State Academy of Geodesy, as well as to assure the leading position of Leica Geosystems AG on the market and to speed up the economic development in Russia.

Therefore our organizations undertake the mutual agreement to see the following joint projects as a first priority:

1. The Parties consider to extend and to develop the cooperation in the already running projects such as participation in GEO-Siberia and Inter-GEO.
2. Leica Geosystems AG is ready to provide the specialists of the Siberian State Academy of Geodesy with the training courses devoted to the Leica Geosystems' equipment.
3. The Siberian State Academy of Geodesy is ready to develop new educational programs, aimed to train and retrain the specialists in state-of-the-art technologies, developed by Leica Geosystems and the Siberian State Academy of Geodesy.
4. The Parties express their interest to establish a scientific centre for the equipment of Leica Geosystems and a test site for the hardware testing in Siberian weather conditions, all within the organization of the Siberian State Academy of Geodesy. Meanwhile Leica Geosystems AG agrees to supply the Siberian State Academy of Geodesy with the hardware on preferential terms.
5. The Parties express the willingness to create a monitoring centre for the complex civil engineering objects and road construction quality control, etc within the organization of the Siberian State Academy of Geodesy. The Parties intend to develop a standard monitoring model, using GNSS, TPS, Nivel etc.
6. The Parties agree to cooperate in the research process devoted to the methods of coordinate definition under the external effects using the GNSS-data.
7. The Parties express their interest in joint work on geodynamic ground monitoring, aimed at the notification of the ground deformation in real time by dint of Spider Software, GNSS QC, GeoMos etc.
8. The Parties confirm the willingness to develop a GLONASS/GPS project in the Novosibirsk region, providing on-line services for research activities, GIS, weather forecasting, complex monitoring and composing the new model targeting to provide error definitions.
9. The Siberian State Academy of Geodesy is ready to consult Leica Geosystems AG regarding the development of the GLONASS System in the Russian Federation.

10. The Parties express their interest to implement the Deformation Monitoring System, which is used for monitoring of the objects and grounds of high importance (landslides, bridges, tunnels, high buildings etc.).

11. The Parties are ready to participate in researches and scientific works devoted to the influence of refraction and other external effects on the measurement results. These research papers could be used to develop new measuring devices.

12. The Parties will study the new implementation possibilities of the automotive measurement systems in the different fields of activities.

13. The Parties plan a joint realization of a project for RSD-data processing based on the established GLONASS/GPS reference points in the regions of the Russian Federation.

14. The Parties are interested in a joint implementation of the GIS-projects in recreation areas of the Novosibirsk Region and in the Siberian Federal Region.

15. The Siberian State Academy of Geodesy and Leica Geosystems AG intend to hold meetings in cooperation with other interested parties on the basis of the permanent Council. The council members shall evaluate the current market situation for geodetic services in the Novosibirsk region and in the Siberian Federal Region and elaborate recommendations for the further development of the Parties.

The Parties agree that areas of cooperation determined by this Agreement can be supplemented and changed in accordance with wishes of the Parties. More detailed supplements, contracts, protocols of intent can be performed in framework of the Agreement.



Rector

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