

## Short summary of the GPS (GNSS) Network Project in Bosnia and Herzegovina

The project consisting of two entity-level networks and entitled Establishment of the Permanent (Reference) GPS (GNSS) Stations Networks for the Territory of Bosnia and Herzegovina was implemented under IPA 2007 as an integrated, single project.

The main purpose of this project is to enable services based on GNSS positioning measurements throughout Bosnia and Herzegovina (Federation of Bosnia and Herzegovina and Republika Srpska).

The positioning is in real-time with three servicing areas with different features and precision:

- DSP (DGNSS) – differential service for real-time positioning (precision 1 – 3 m)
- VPSP (PDGNSS) – highly precise service for real-time positioning (precision 1 – 2 cm)
- GPSP – geodetically precise service of positioning in near real-time and post-processing (precision 1 cm).

Implementation of this project is one of the most important developments for the surveying profession in post-war period, because it will increase accuracy of the survey works and facilitate and accelerate their implementation. Additionally, preconditions have now been put in place for integration of the permanent stations networks of Bosnia and Herzegovina with the neighboring countries and the European permanent stations network (EUREF Permanent Network), resulting in Bosnia and Herzegovina reaching the European trends in this field.

Apart from the surveying profession, implementation of this project has an enormous significance for other professions as well, such as: physical and land planning, agriculture, water management, forestry, transport, communications, ecology and environmental protection.

The funding that was needed for the implementation of the project, amounting to 1,000,000 EUR, came from the European Commission's IPA 2007 fund. Ministry of Civil Affairs of BiH contributed 1,000,000 BAM for preparation of the project and its implementation support, and for two-year maintenance of the permanent stations networks.

34 permanent stations were installed in Bosnia and Herzegovina (17 in Federation of BiH and 17 in Republika Srpska).

Upon completion of the project, Federal Administration for Geodetic and Real Property Affairs of FBiH assumes ownership of the Permanent (Reference) GPS (GNSS) Stations Network on the territory of the Federation of BiH – **FBiHPOS**, while

Republic Administration for Geodetic and Real Property Affairs of RS assumes ownership of the Permanent (Reference) GPS (GNSS) Stations Network on the territory of the Republika Srpska - **SRPOS**. The Ministry of Civil Affairs plays a coordination role in the implementation of the project.

To manage the project, the Steering Board was established, comprising three members, i.e., representatives of Ministry of Civil Affairs of BiH, Federal Administration for Geodetic and Real Property Affairs of FBiH and Republic Administration for Geodetic and Real Property Affairs of RS.

To implement the project, the Coordination Board was established, comprising two representatives of each, Ministry of Civil Affairs of BiH, Federal Administration for Geodetic and Real Property Affairs of FBiH and Republic Administration for Geodetic and Real Property Affairs of RS, and one representative of the Government of the Brcko District of BiH. Federal Administration for Geodetic and Real Property Affairs of FBiH and Republic Administration for Geodetic and Real Property Affairs of RS carried out technical supervision of the implementation of works under this project.

The company „Leica Geosystems GmbH München“ was the contractor that implemented the project.