

Turkey Selects Trimble for GNSS Infrastructure

Trimble has been selected by İSTANBUL KÖLTÜR VE NÂVERSÂTESİ (IKU) to supply 150 Trimble NetR5 Reference Stations, 150 Trimble Zephyr Geodetic 2 Antennas, and Trimble VRS technology to establish a nationwide Global Navigation Satellite System (GNSS) infrastructure network for the country of Turkey.

The Trimble VRS network will provide a geospatial infrastructure for surveying, engineering and GIS professionals that enables high accuracy real-time kinematic (RTK) GNSS positioning without the need of separate base stations or software, significantly increasing efficiency and productivity.

In addition to supplying the technology, Trimble is providing a turnkey solution that includes building the GNSS network, known as CORS-TR (Continuous Operating Reference Station-Turkey or TUSAGA AKTIF), as well as installing the network's control centers. The first of its kind in Turkey, the GNSS network will be operated by the Turkish General Directorate of Land Registry and Cadastre (TKGM) and General Command of Mapping (GCM), and financially supported by The Scientific and Technological Research Council of Turkey (TÜBİTAK), the country's leading agency for management, funding and research. The main control center will be managed by the TKGM backed by the one in GCM.

The CORS-TR system will supply centimeter-level RTK GNSS data for a variety of positioning applications including geodetic and cadastral surveying, road and bridge construction, earthquake and tectonic plate movement monitoring and analysis, and scientific research, as well as other high-accuracy positioning applications. Turkey also plans to use the network to improve and maintain the vertical and horizontal quality control network as well as calculate the nationwide datum transformation parameters.

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