

INSPIRING Geospatial Framework for Local Administrations

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SUMMARY

Transformation to Information Society through the implementation of geospatial solutions rests dominantly on the responsibility of Local Administrations to ensure environmental-friendly conditions for their citizens. Tasks and procedures regarding the building, utilization and development of the spatial data infrastructure and urban information systems have been accelerated by INSPIRE driving rules of implementations since 2003 in Turkey. Geospatial solutions are on the way of establishing the roles of Smart Cities by getting effective results through recent projects like ‘Cloud-based Urban Information’ and ‘Technical Assistance for Capacity Building in the Horizontal Sector for the Implementation of INSPIRE Directive’ in 2013 and 2017. Technical Assistance for the Implementation of INSPIRE Directive Project mainly encompasses four components as the development of cloud-based standardized geospatial software modules, development of cloud management software and setting standardized high efficiency procedures by using process modelling as well as constituting the legislative regulations for all components ensuring the functionality in the digital society, yielding better living standards in local administrations, namely municipalities.

Web services and database integration are envisaged through cloud infrastructure, platform and software services by using common standards set by INSPIRE Directive. Cloud based geospatial applications specifically addressing the municipality's requirements concerning geospatial processes are the modules including 3D Topographic Map, Address Assessment, Infrastructure, Building Information Management, Expropriation etc. Process Modelling and Management Software developed in the context of the Project as to be run on cloud platform and work in synchronization with the Application Software Modules is another important utility for decision makers and authorities in the administrations. In the prototype implementation of all the developed modules, results of driven data are expected to be employed through data analyses which have been carried

out and mapped for the application schemas of INSPIRE Annexes of data themes. In order to provide a better realization of all the technical efforts, the legislative regulations have been drafted to serve as the key arguments for the establishment of "Geographic Information Strategy and Action Plan" in Turkey.

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