

INVESTIGATION OF THE INSPIRE HYDROGRAPHY THEME IN THE SCOPE OF THE NATIONAL WATER INFORMATION SYSTEM DEVELOPMENT PROCESS

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EXPERTISE THESIS ABSTRACT

Countries all over the world are in the change and development process to become Information Society as part of their economic and social development. The European Union (EU) countries initiated a project to make the spatial data uniform in the EU roof. The European Parliament approved the INSPIRE directive concerning spatial infrastructure and published in the EU's Official Gazette on May 15 th , 2007. INSPIRE initiative has role for determining technical standards and policies related to the production and use of spatial data. In this thesis, requirements of the INSPIRE-Hydrography Theme from information systems are examined with subsections such as metadata, reference system, resolution, interoperability, quality and standards of spatial data in the scope of development process for the National Water Information System. In the context of the thesis; quality control document for hydrography data, detailed examination of data sharing, access and use and the general information about the required network services including the layer symbology of the view services are also included. Also, the relationship between the INSPIRE Directive, the Water Framework Directive and Water Information System for Europe – WISE was investigated. This study on Hydrography Theme is a first comprehensive study for Turkey and it is aimed to be used as "Guidance Document" for the works of the National Water Information System development period.

Key Words: Geographical Information Systems (GIS), spatial data, NWIS, INSPIRE, Hydrograph