The 2007-2009 Agreement between the Dipartimento della Protezione Civile (DPC) and the Istituto Nazionale di Geofisica e Vulcanologia (INGV) includes the execution of a series of Projects in Seismology funded by the DPC. These are developed to achieve objectives of specific interest for the DPC in the field of Seismology, and they are carried out with the contribution of the national and international scientific community.

The study of seismicity needs a multidisciplinary approach. Therefore, the S1 project (Analysis of the seismic potential in Italy for the evaluation of the seismic hazard) integrates instrumental and historical seismology, earthquake geology, off-fault/marine paleoseismology, earthquake geodesy, neotectonic models, and earthquake probabilities.

One of the activities of S1 Project Coordination Unit is the organization within a geographic database of all unit research deliverables (about 40 UR and more than 150 deliverables). The goal is to provide the Department of Civil Protection (DPC) a georeferenced dataset ready for applications and processing for the study of Italian seismic hazard.

The wide variety of data produced by the research units has required the development of Guidelines for the data delivery to define four different types: text files, tabular formats, geographic formats (GIS), cartographic representations or digital maps.

For each research unit it has also been developed two sheets about deliverables: first sheet, called “general”, is partly precompiled and focuses on the way each research unit will deliver geographic data (dataset); the second sheet is detailed for a single dataset and contains the relevant information such as the general description, the geographic coordinate system, the extension of dataset, the distribution an usability.

Datasets from all unit research deliverables were stored in a ESRI “file system” GEODATABASE of ArcGIS 9.3.1 version.

All data where organized in the Geodatabase in Feature Class, Feature Dataset, Raster Dataset: one Feature Dataset for each unit research and inside one Feature Class for each dataset.

A great effort by the various UR has been made to deliver with the dataset, the metadata file. This activity was carried out with the support of the Department of Civil Protection and ISPRA with the simplified form, for entering metadata information. The metadata dataset has been coded in accordance with the Italian Technical Regulations of Repertorio Nazionale dei Dati Territoriali, based on EN ISO 19115.

The application of metadata in the management of the S1 project deliverables allows all participants to insert information about their datasets and share information with a common language. The metadata detail provides general information about the organization that produces and distributes the data, content, scale, reference system, quality.

The GeoPortal of S1 Project, for now available only for the internal users, was designed to S1 Project’s deliverables discovery and viewing. Have been developed with ArcGIS Server two web application: one simple server-side interface and another client-side interface (ArcGIS Viewer for Flex).

The Geoportal discovery section allows the data search by entering keywords, short texts, or through geographic search. To satisfy the different clients, the WMS (Web Map Service) services had been realized in agreement with the INSPIRE Directive. The Geoportal MapViewer display a list of wms services identified on criteria set.