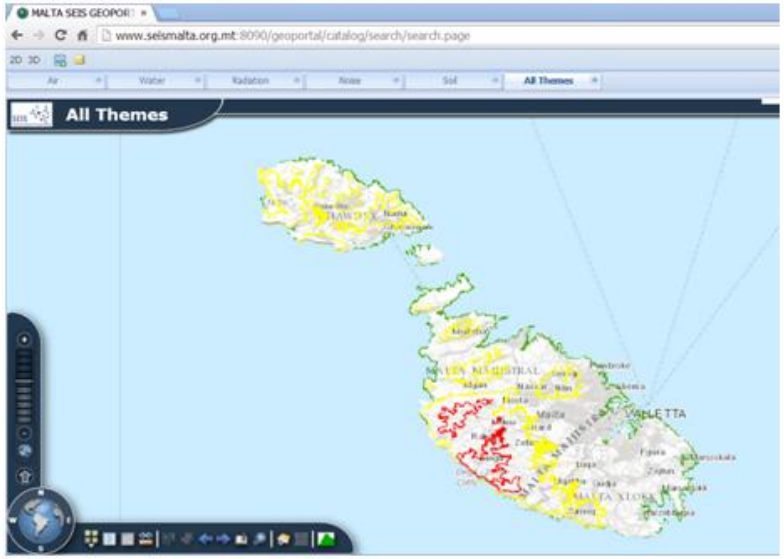
SEIS-MALTA: SHARED ENVIRONMENTAL INFORMATION SYSTEM-MALTA

(www.seismalta.org.mt)

Country	Contract value (€)	% carried out by Epsilon	No of staff provided	Client	Origin of funding	Date (start/end)	Consortium Members
Malta	180.000	100% 180.000	6	MEPA: Malta Environment Protection Authority	Partly financed by the EU/ERDF	01/07/2011 31/07/2013	0 Partners

Description of the project



The SEIS-Malta (Shared Environmental Information System of Malta) is among the first EU project committed to INSPIRE and standards and the demand of the European Commission (EC) and the European Environment Agency (EEA) imitative and environmental information interoperability. It is based on of high-level principles & workflow processes that organize the collection, exchange & use of Environmental Data & Information (all types, as vector, space imaging, LIDAR, etc) aiming to:
Modernize the way information required by environmental legislation is made available to EU member states with basic tasks:

- Streamline reporting obligations to the EEA.
- Introduce the SDI (spatial database infrastructure) principal EU-wide.
- Production of a system workflow of operations offering technical capabilities geared to meet the concept expectations, in that respect, showing the way and sets up the workflow on how effectively and in a standardized way to:
  - Collect Data from Spatial Databases (all type of data processed, as vector, space imaging, LIDAR, etc), in situ sensors, statistical databases, earth observation readings, marine observations etc using standard data transfer protocols.
  - Harmonize collected data according to best practices proven to perform well.
  - Process aggregated harmonized data & extract Information in formats understandable by wider audiences
  - Document data to fulfil National, reporting obligations towards the EU.

Publish data for authorized users according to the Aarhus Directive.

Services provided

- Developed the database
- Developed the three-tiered architecture using:
- Compiled processes and standardized data layers to cater for the published data such as water, air, noise, soil & land-use waste, and radiation.
- Developed the Web/Application Layers to provide access to the Data through a user-friendly Geoportal.
- Provided layers based on technologies of Microsoft SQL Server 2008, ESRI ArcGIS10, ESRI Geoportal Server etc.
- Essentially implemented of SDI (Spatial Data Infrastructure) via ESRI Geoportal technology and access to a set of GIS functionalities such as:
  - Map viewing
  - Zooming & Panning
  - Data selection and processing (vector, space, thermal, LIDAR)
  - Base-map selection
  - Data download etc
  - Capacity building and training
  - Service operation for 2 years