

GIS applications for assessing and sharing geoheritage information in the Piemonte region (NW Italy)

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Geoheritage

Places and areas that, for their peculiar features and/or unique characteristics, are of geological interest (i.e. geosites).



Why?

Increasing knowledge
Scientific conservation
Touristic promotion
Educational purposes



How?

Geomatic and
IT (Information Technology) tools



What?

Data Collection
Database set-up
Metadata compilation



**Web sharing of
geoheritage information**

Data collection

- searching existing (bibliographic) data
- field mapping

Digital worksheets



Mobile Devices

Palm PC + Mobile GIS

Tablet/Smartphones



Geosites

Inventory form following guidelines proposed by

- Natural Sciences Museum (Regione Piemonte)
- GeoSitLab (Earth Sciences Dep., University of Torino)
- ISPRA recommendations

Tracks surveys

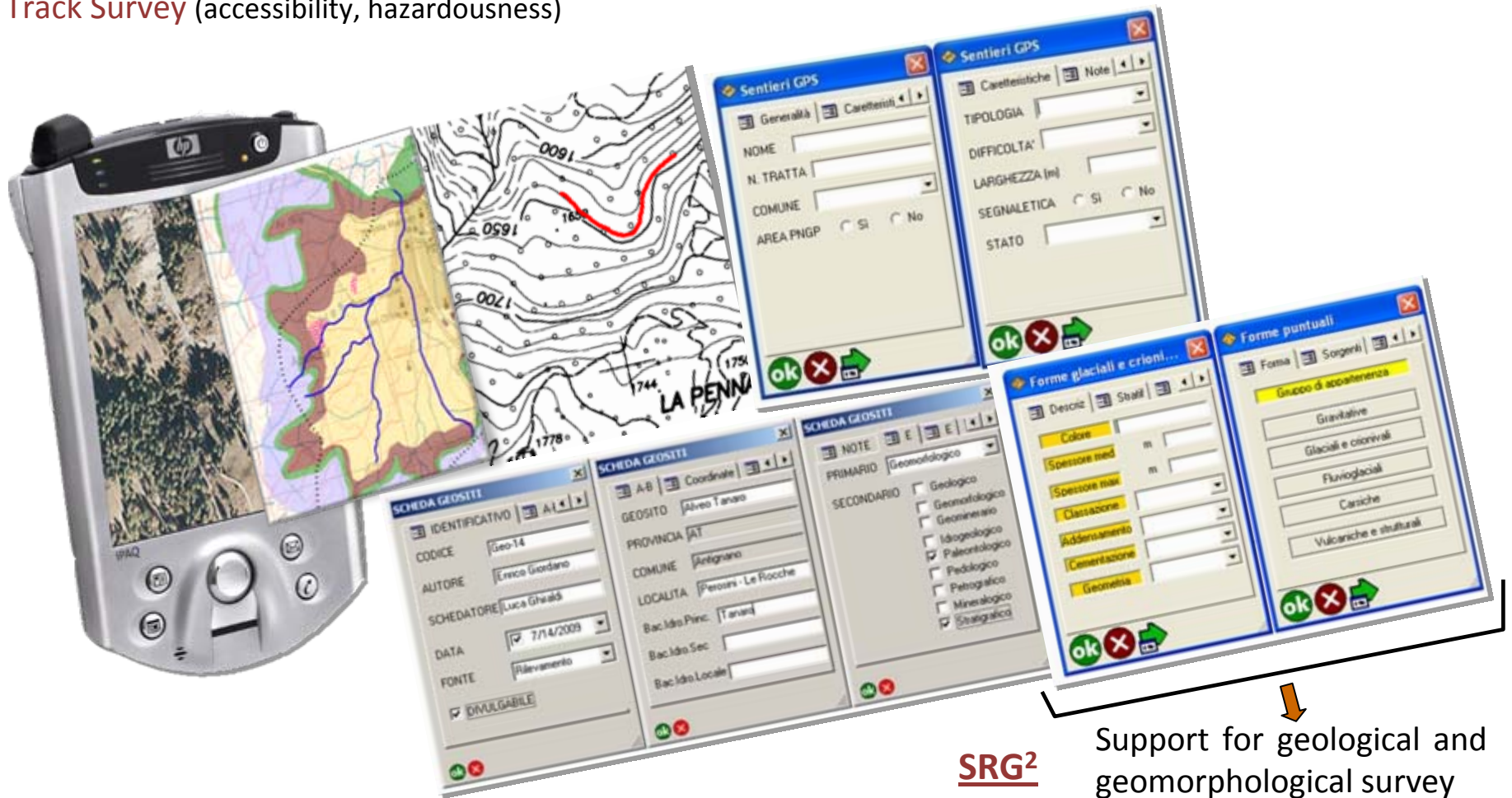
Inventory form following guidelines proposed by

- GeoSitLab
- University of Genova.

Data collection

Geosite (Code, Author, Organization, Date, Geosite information, location, contextual information, characteristics of geosite, Vulnerability, Multimedia)

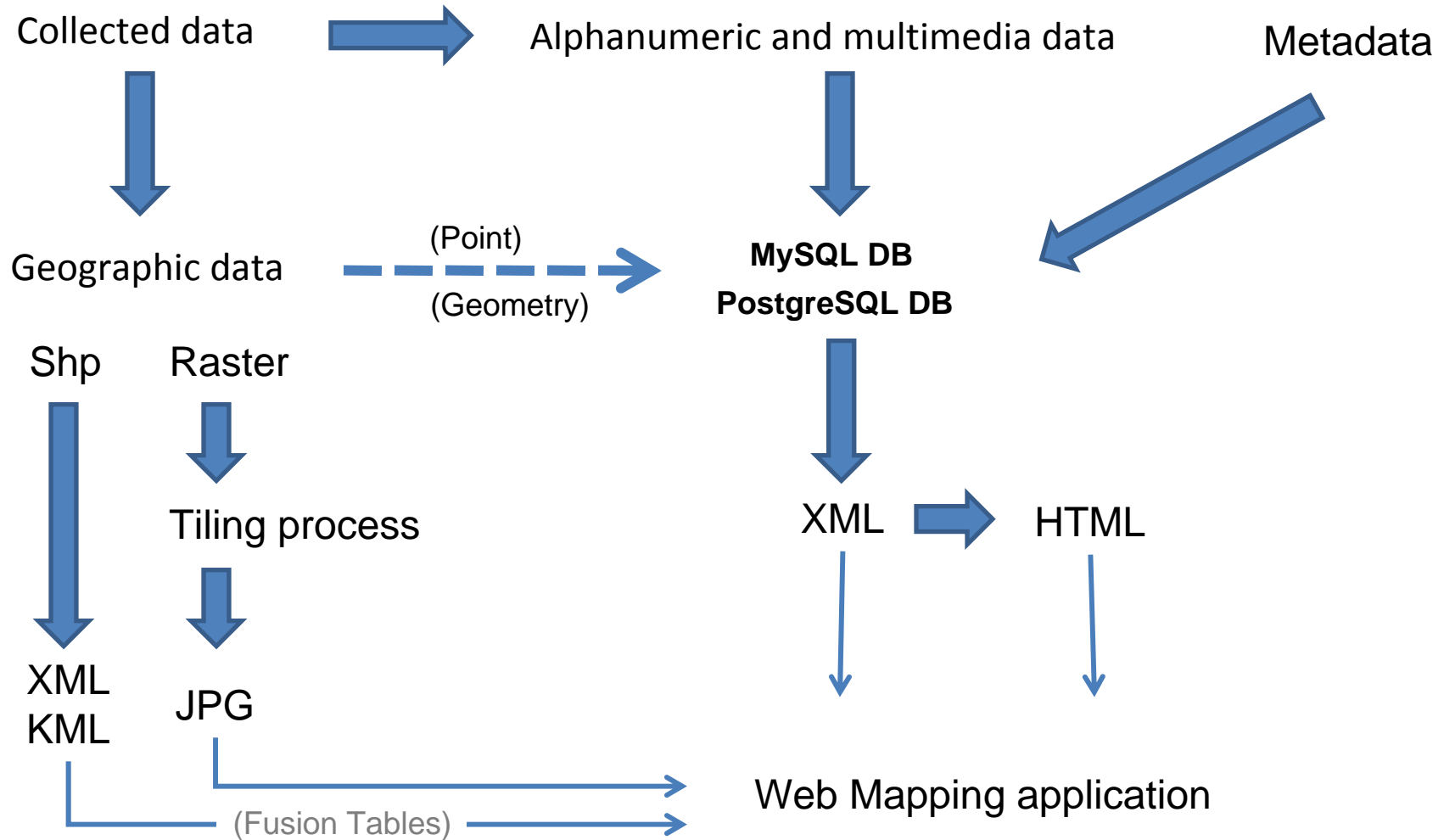
Track Survey (accessibility, hazardousness)



SRG²

Support for geological and geomorphological survey

Database set up



Metadata

Descriptive information concerning contents, quality and provenance of data.

Each geosite, as well as geological or geomorphological features are meta-described following the schema provided by the INSPIRE (Infrastructure for Spatial Information in Europe) geoportal, following the ISO 19115 metadata standard for spatial data sets.

A screenshot of the INSPIRE Metadata Editor web application. The browser window title is 'INSPIRE Spatial Dataset - en'. The interface has a menu bar with 'New', 'Open', 'Validate', 'Save', 'Save as template', 'Help', and 'About'. Below the menu is a tabbed interface with 'Metadata' selected. The main content area is titled 'IDENTIFICATION' and contains several form fields: 'Resource title (*)', 'Identifier (*)' (with a sub-field for 'Identifier 1 (*)' containing 'Code (*)' and 'Namespace'), 'Resource abstract (*)', and 'Resource locator' (with a sub-field for 'Resource locator 1' containing 'Linkage (*)').

<http://inspire-geoportal.ec.europa.eu/>

Metadata particularly allow giving knowledge of methods applied in the identification and the evaluation of geosites, and can be used for explaining peculiar and interpreted geological features.

Web sharing

Web Mapping application

Fusion Tables

KML

XML

Tiled JPG



GoogleMaps



Customization



Query
Features



Query
Database



Multimedia
content



Toggle
layers information

Web sharing

Mozilla Firefox
File Modifica Visualizza Cronologia Segnalibri Strumenti Aiuto
http://www.laxmy.net/test/seguret.html
www.laxmy.net/test/seguret.html W - Wikipedia (it)

Mapa Satellite

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Map data ©2012 Google, Tele Atlas - Termini e condizioni d'uso
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