giCASES: Case based learning in the field of Geographical Information

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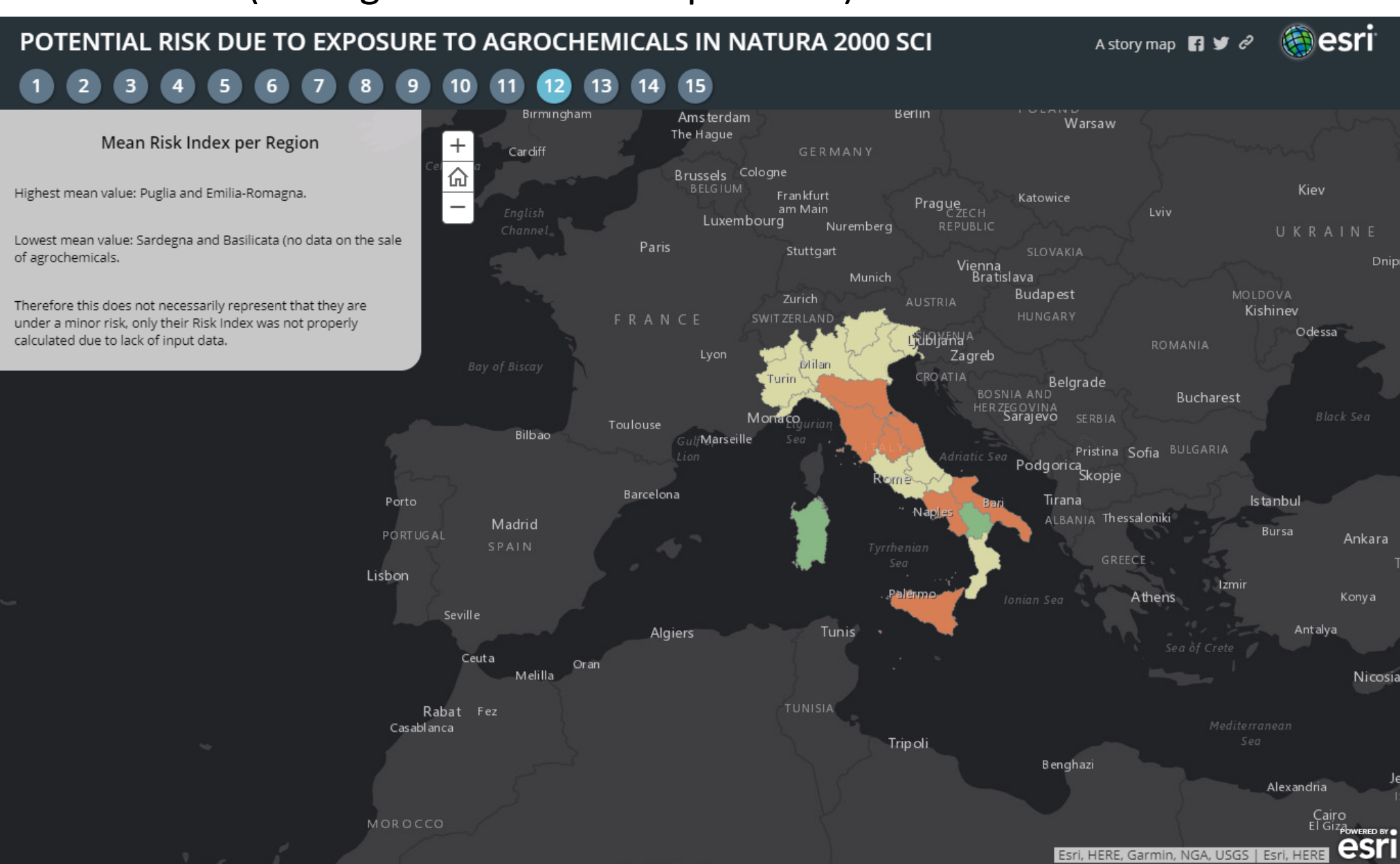[2] GISIG - Geographical Information Systems International Group, Genoa

General objectives:

✓ To enable and strengthen innovation in education and industry in the Geographical Information sector.

✓ Facilitate collaborative creation, management and sharing of knowledge.

These goals are pursued by developing new innovative and multidisciplinary approaches to teaching and learning in the field of geographical information, and facilitating the exchange, the flow and co-creation of knowledge.
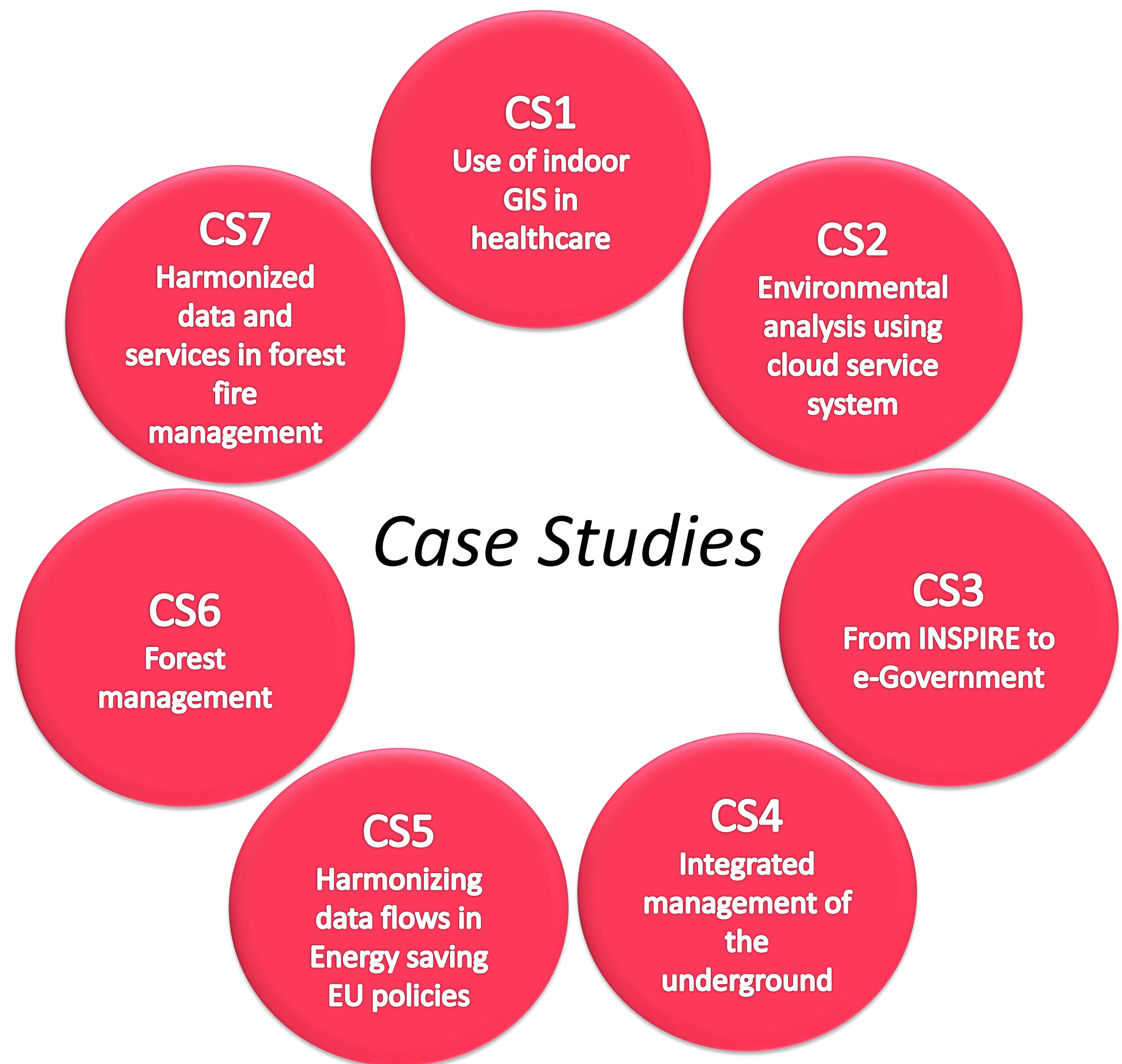
In particular, giCASES aims to:

✓ To improve the quality and relevance of geographic information courses provided by the universities participating in the consortium.

✓ To facilitate the growth of new processes and knowledge sharing tools between business and universities.

✓ To improve knowledge management by the partners.

The approach to address these objectives is to develop new teaching materials and learning processes based on real cases. In the approach adopted in the project, companies and academia work together both during the creation of teaching materials based on real cases, during and after classes (through a collaborative platform).

Case Study 2 Outcome

Case Studies

- **CS1** Use of indoor GIS in healthcare
- **CS2** Environmental analysis using cloud service system
- **CS3** From INSPIRE to e-Government
- **CS4** Integrated management of the underground
- **CS5** Harmonizing data flows in Energy saving EU policies
- **CS6** Forest management
- **CS7** Harmonized data and services in forest fire management

The seven case studies are designed to use open data (OpenStreetMap), OGC standards and services and a wide range of FOSS4G technologies including QGIS, GRASS GIS, GeoServer, PostGIS and Geomajas.
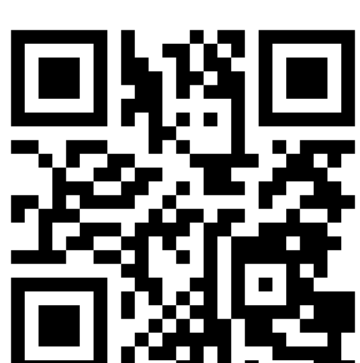

Collaborative Platform

Based on:

✓ Existing technologies such as Learning Management Systems (e-Learning platforms)

✓ Tools for Massive Open Online Courses (MOOC)

✓ Project management tools

✓ Several GIS software, with a preference for Open Source solutions

The results of the project (learning materials and processes) will be made available under an open license, centralized on the platform, open to other communities and stakeholders.

The Consortium

Co-funded by the Erasmus+ Programme of the European Union