

Elective Module

EuroGIS - The European Dimension of GIS



Course code	GIS_EUROGIS
Schedule	3 times per year
Duration	3 Months
Accreditation	Electives UNIGIS MSc, UNIGIS Professional, UNIGIS eXpress / FT
Closing Dates for registration	One week before start
Credits	6 ECTS
Module Language	English

Course description and Objectives

Europe's boundaries are receding, travelling becomes easier and the use of a single currency further strengthens the sense of becoming one. Yet geographic information is predominantly restricted to national borders. Spatial data are often collected by national institutions and described in national language according to their own conventions. The data are usually positioned in a country-specific coordinate system.

This poses no problems as long as the data are used in a national context. But with increased European integration the need for cross-border information is growing. For efficient planning on an international level or in emergency management the so-called "cross-border datasets" are crucial. For an adequate reaction, for example, on possible river flooding, it is vital to have quick access to data of water level and meteorological conditions in upstream countries. Disasters have no borders!

This module deals with the European aspects of Geographic Information Systems (GIS). As the technical part of GIS (= systems) does not have many specified European aspects, the main focus of the module is on the geographic information and the ways of accessing it. Spatial Data Infrastructure (SDI) is a commonly used term for the description of the organizational and technical prerequisites for giving access to Geographic Information across borders. The EU flagships like GMES (Global monitoring for environment and security) and Galileo (European satellite navigation system) and their role as 'drivers' in this context is discussed. The theme of the module can therefore be summarized as: Towards a 'Single European Information Space'.

DI Dr. Markus Eisl



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DI Dr. Markus Eisl, born in 1964 in Salzburg, Austria, holds a University degree in Technical Physics of the Technical University of Vienna, Austria. For more than 13 years he has been working in the fields of satellite remote sensing and geo-informatics, contributing to and managing national and international R&D projects in the field of Earth observation data and methods, and heading the department of science and technology of Geospace Austria. Since 2008 he is managing partner of eoVision GmbH, Salzburg, where he is responsible for R&D activities.

Methods

The module is delivered in form of an instructed self-study that is based on explorative learning process. Theoretical concepts are complemented with practice oriented examples and demonstrated with help of multimedia elements. A discussion forum is used for communication among students and the instructor. Upon completion of the module students are requested to evaluate the module, which is a part of our quality assurance policy and practice.

Software Requirements

No special GI-Software required

Prerequisites

Good command of English

Assessment and Grading

Instructor assessment is the part of a course that reflects student's achievements in this module and is conducted through assessing module assignments. It counts towards the academic qualification. Exercises are designed to enforce students' knowledge and skills whereas quizzes provide feedback to a student based on availability of correct answers. These should be completed to allow students to assess their own progress and are not included in the module assessment.



Module meets
www.euromastergi.org
requirements



Elective Modules
SYLLABUS