



BESTSDI



Funded by the
Erasmus+ Programme
of the European Union

Western Balkans academic education Evolution and professional's sustainable training for spatial data infrastructures – BESTSDI

Erasmus+ Ka2 CBHE BESTSDI Project

Prof.dr Emina Hadžić

Event: NatRisk, Interproject coaching meetings

Date: 7th to 8th March 2018

BESTSDI objectives

- The wider objectives of the BESTSDI project is to improve the quality of higher education in Geographical Science and Technology field, SDI and geodesy, enhance its relevance for the labour market and society and to improve the level of competences and skills in HEI's by
- developing new and innovative education programmes within the field of SDI. These wider objectives are fully compliant with the priorities of the Capacity Building projects within the Erasmus+ program.

BESTSDI objectives

The specific project objectives are to develop, test and adapt new curricula, courses, learning material and tools within the field of SDI. In doing so, existing undergraduate and graduate geodesy and geoinformatics curricula's in the academic institutions in the WB region will be lifted to higher levels, recognising the value of spatial data for modern society and its development. By the incorporation of SDI concept and other modern concepts based on spatial data and information, the students of the new courses will have the ability to provide efficiently spatial data and services to SDI users.

BESTSDI objectives

In parallel, the project also introduces SDI and related concepts in undergraduate and graduate study programs on academic institutions which profiles are well recognized as SDI users, raising awareness among the students and professionals about the relevancy of SDI and advantages of well organized spatial data.

SDI concept

A Spatial Data Infrastructure (SDI) is a framework to share, discover and re-use spatial data among public authorities, the private sector and citizens. SDI's are based on a “coordinated series of agreements on technology standards, institutional agreements, and policies” (Kuhn 2005) that unlock geospatial information resources for a wide range of application fields, for instance environmental monitoring and policy making, transportation planning, health care, physical planning, national security, etc.

They are an integral part of the e-government movement and open data initiatives.

SDI framework

- INSPIRE is an EU Directive (2007/2/EC) aiming to establish an infrastructure for spatial information in Europe to support Community environmental policies and policies or activities which may have an impact on the environment (<http://inspire.ec.europa.eu/>). The Directive addresses problems regarding the availability, quality, organisation, accessibility and sharing of spatial information. INSPIRE may be seen as the legal framework of a European SDI.
- SDI is introduced in national legislation of all EU countries
- SDI is introduced also in national legislation of partner countries as:
 - Independent law (Albania, Macedonia)
 - Part of State Survey and Cadastre law (Kosovo, Serbia, Montenegro, Republic of Srpska – BiH)
 - Governmental Decree (Federation of Bosnia and Herzegovina – BiH)

SDI is much more



Smart environment



Intelligent transportation

Precise farming



Smart cities

BESTSDI partners

Project coordinator:

- Sveučilište u Zagrebu (University in Zagreb) – Croatia

Program countries:

- Katholieke Universiteit Leuven (Catholic University of Leuven) – Belgium
- Sveučilište u Splitu (University of Split) – Croatia
- Univerzitet “Sv. Kiril i Metodij” Skopje (Ss. Cyril and Methodius University in Skopje) – Macedonia
- Hochschule Bochum (Bochum University of Applied Sciences) – Germany

BESTSDI partners

Partner countries:

- Universiteti Politekniki i Tiranës (Polytechnic University of Tirana) – Albania
- Universiteti Bujqesor i Tiranës (Agricultural University of Tirana) – Albania
- Univerzitet u Banjoj Luci (University of Banja Luka) – Bosnia and Herzegovina
- Sveučilište u Mostaru (University of Mostar) – Bosnia and Herzegovina
- Univerzitet u Sarajevu (University of Sarajevo) – Bosnia and Herzegovina

BESTSDI partners

Partner countries:

- Javna Ustanova Univerzitet u Tuzli Universitas Studiorum Tuzla (University of Tuzla) – Bosnia and Herzegovina
- Universiteti Nderkombetar per Biznes dhe Tehnologji UBT (University for Business and Technology – UBT) – Kosovo
- Javna ustanova Univerzitet Crne Gore Podgorica (University of Montenegro) – Montenegro
- Unvierzitet u Beogradu (University of Belgrade) – Serbia
- Univerzitet u Novom Sadu (University of Novi Sad) – Serbia
- Universiteti “Ukshin Hoti” ne Prizren (University of “Ukshin Hoti” in Prizren) – Kosovo

BESTSDI partners

Associated partners:

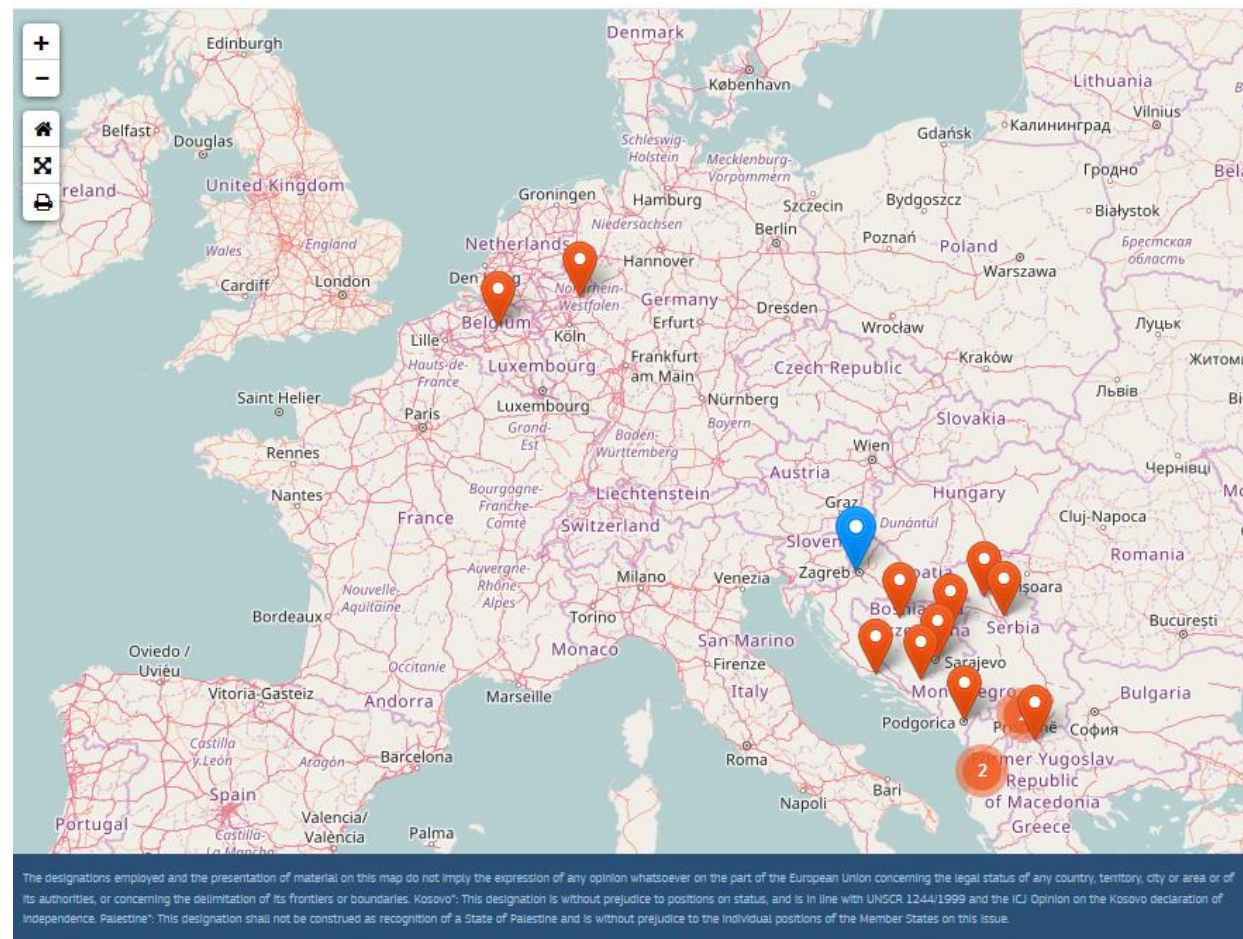
- Republička uprava za geodetske i imovinsko-pravne poslove Republike Srpske (Republic Administration for Geodetic and Property Affairs of Republika Srpska) – Bosnia and Herzegovina
- Federalna uprava za geodetske i imovinsko-pravne poslove Federacije Bosne i Hercegovine (Federal Administration for Geodetic and Property Affairs of Federation of Bosnia and Herzegovina) – Bosnia and Herzegovina
- Agencija na katastar na nedvižnosti (Agency for Real Estate Cadastre) – Macedonia

BESTSDI partners

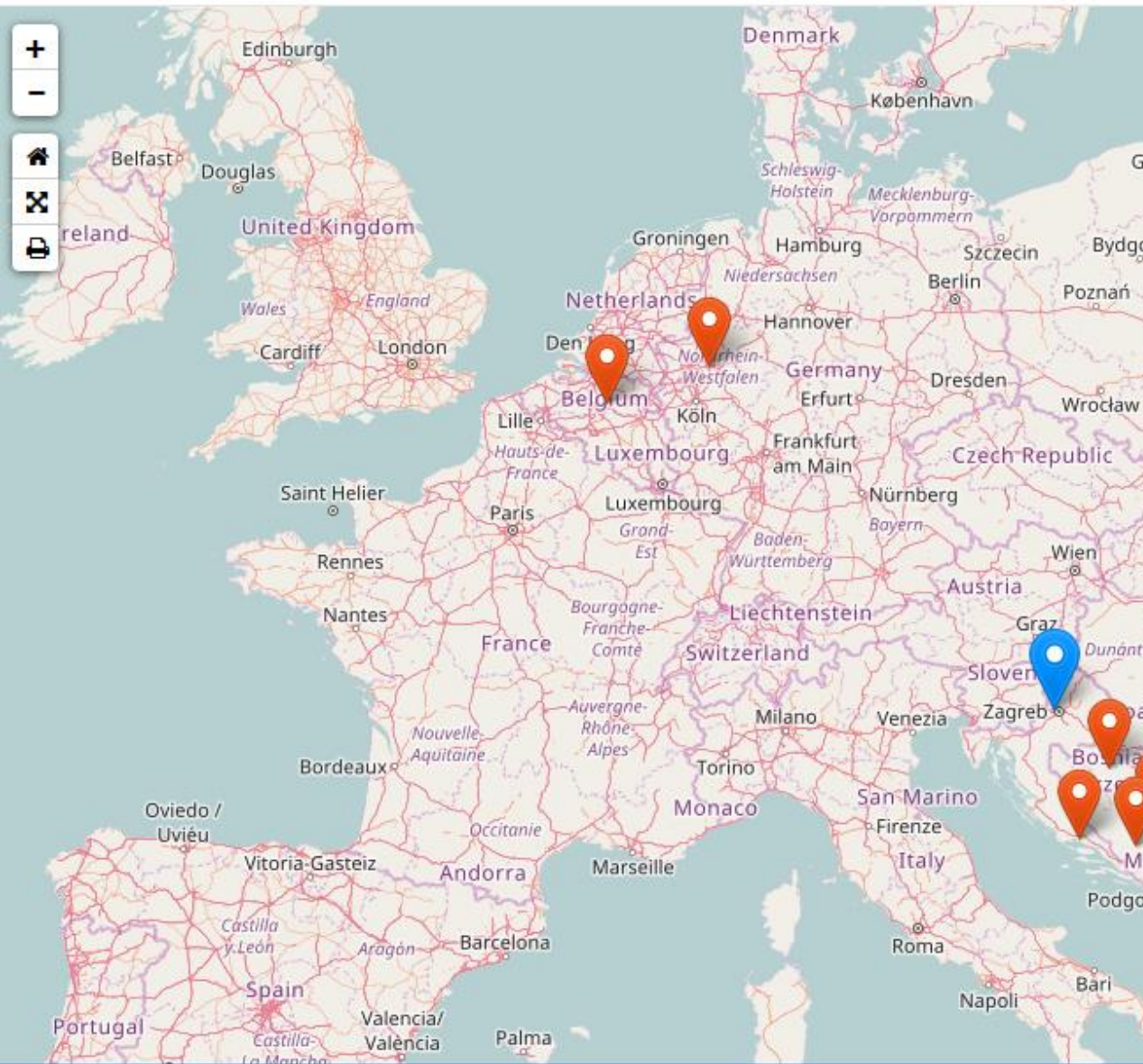
Subcontractors:

- Lantmäteriet (Swedish National Mapping and Cadastre Authority) – Sweden
- Novogit AB – Sweden

PROJECT COORDINATOR AND PARTNERS MAP



PROJECT COORDINATOR AND PARTNERS MAP

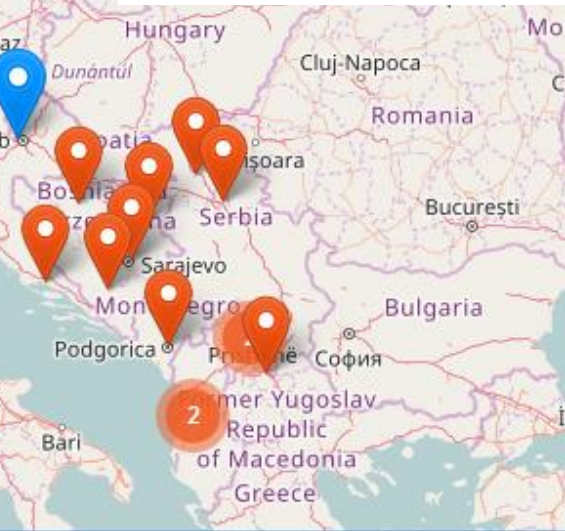


WESTERN BALKANS ACADEMIC EDUCATION EVOLUTION AND PROFESSIONAL'S SUSTAINABLE TRAINING FOR SPATIAL DATA INFRASTRUCTURES

9 Participating countries:

[DOWNLOAD AS PDF](#) [VIEW PROJECT MAP](#)

- Start:** 15-10-2016 - **End:** 14-10-2019
- Project Reference:** 574150-EPP-1-2016-1-HR-EPPKA2-CBHE-JP
- EU Grant:** 978166.66 EUR
- Website:** <http://bestsdi.eu>
- Programme:** Erasmus+
- Key Action:** Cooperation for innovation and the exchange of good practices
- Action Type:** Capacity Building in higher education



<http://ec.europa.eu/>

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BESTSDI project activities

Work packages:

- WP1 – Preparation – Specification of the core curriculum
- WP2a – Development – Development of curriculum
- WP2b – Development – Implementation of curriculum
- WP3 – Quality Plan
- WP4 – Dissemination & Exploitation
- WP5 - Management

WP1 - Preparation

- 1.1 – Current curriculum status
- 1.2 – Current learning material status
- 1.3 – Requirements analysis
- 1.4 – Specification of project curriculum
- 1.5 – Curriculum adaptation specification

WP2a – Development of curriculum

- 2.1 – Development of project curriculum
- 2.2 – Development of LLL courses for professionals
- 2.3 – Equipment purchase/installation
- 2.4 – Training of teachers
- 2.5 – Localisation of curriculum

WP2b – Implementation of curriculum

2.6 – Implementation of local curriculum

2.7 – Running the courses to students

2.8 – Evaluation of implementation

2.9 – Revision of project curriculum

WP3 – Quality Plan

3.1 – Development of Quality Assurance Plan

3.2 – Evaluation of progress & results

3.3 - Monitoring success indicators

WP4 – Dissemination & Exploitation

- 4.1 – Development of a Communication Plan
- 4.2 – Life-long learning (LLL) courses for professionals
- 4.3 – Production of dissemination material
- 4.4. – Development Plan for Dissemination and Exploitation of Results (DER)
- 4.5. – Dissemination and exploitation execution

WP5 - Management

- 5.1 – Project Office and Management Structure
- 5.2 – Project Coordination, Administration and Monitoring
- 5.3 – National Stakeholder Coordination

BESTSDI expected results

To develop appropriate curricula, courses and their content for both target groups (SDI providers and SDI users) of academic institutions. This includes the development of:

- SDI compulsory course for undergraduate study programs in geodesy
- SDI modules for graduate study programs in geodesy and geoinformatics
- SDI user course components (not necessary full courses) for undergraduate study programs of partner faculties
- SDI elective courses for graduate study program of partner faculties (SDI users)
- Development of sustainable training courses (life-long education) of broad scope of professionals

BESTSDI expected results

- To disseminate the project experiences and results in order to create additional value and multiply the impact of the results. As a consequence, dissemination will be made about best practices in teaching on SDI, the content of the developed courses, experience in introduction of newly developed courses and training courses for professionals to professional society. These dissemination activities are made to targeted audience like professional bodies, public authorities etc.
- To establish the necessary foundation for the participation of partner universities in the academic SDI arena.
- To provide equipment for implementation of modernized curricula to partner universities so that new kind of professionals will be equipped with broad cognition, knowledge and skills about SDI and other modern spatial data related concepts will be result of education process in involved institutions.

BESTSDI additional benefits

- New level of communication and cooperation among the partner universities with the emphasis on SDI but expanding it on institutional and project cooperation.
- Exchange of students and staff will be fostered through the project activities and information about activities conducted by the partners communicated among the partner universities (like International Doctoral Seminar in Dubrovnik starting in 2017)

Thank you for your attention!



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