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Knowledge FOr Resilient soCiEty

BESTSDI Project

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

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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 labor market and society and to improve the level of competences and skills in HEI's by
- Developing new and innovative education programs 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 lifter to higher levels, recognizing the 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, organization, 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 Cadaster law (Kosovo, Serbia, Montenegro, Republic of Srpska BiH)
 - Governmental Decree (Federation of Bosnia and Herzegovina BiH)





3SD

SDI is much more



Smart environment





Smart cities









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









Partner countries:

- Universiteti Politekniki i Tiranës (Polytechnic University of Tirana) Albania
- Universiteti Bujqesor i Tiranes (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









Partner countries:

- Javna Ustanova Univerzitet u Tuzli Universitas Studiorum Tuzla (University of Tuzla) Bosnia and Herzegovina
- Universiteti Nderkombetar per Biznes dhe Tehknologji UBT (University for Business and Technology – UBT) – Kosovo
- Javna ustanova Univerzitet Crne Gore Podgorica (Unviersity 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









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

Subcontractors:

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





PROJECT COORDINATOR AND PARTNERS MAP

Edinburgh

United Kingdom

Saint Helier

England

London

Paris

Douglas

Wales

Cardiff

+

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X

Belfast

Oviedo /

Uviéu

Portugal

eland-

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



Bayern Rennes Württemberg Чернівці Austria Bourgogne Liechtenstein Hungary Nantes Franche-Cluj-Napoca France Comté Switzerland Slove Romania Auverane Zagreb Milano Venezia soara Alpes Bordeauxs Torino Bucuresti Serbia San Marino Monaco Firenze Occitanie Italy Vitoria-Gasteiz Marseille Andorra Podgorica Barcelona mer Yugoslav Roma Republic Bari Spain of Macedonia Napoli Valencia/ Greece Palma València

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Denmark

Hamburg Niedersachsen

Hannover

Germany Erfurts

Frankfurt

am Main

Groningen

Köln

Luxembourg

Luxembourg

Netherlands









Work packages:

- WP1 Preparation Specification of the core curriculum
- WP2a Development Development of curriculum
- WP2b Development Implementation f 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 Localization 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









- 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. Theses 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).





<u>bestsdi.eu</u>

Official web site of BESTSDI project funded by the European Union under ERASMUS+ KA2 Capacity Building in Higher Education.



Faculty of Geodesy





BESTSDI NEWSLETTER:

- **Bestsdi INFO**
- **Bestsdi news**



A WORD FROM THE EDITOR







BESTSDI Social networks



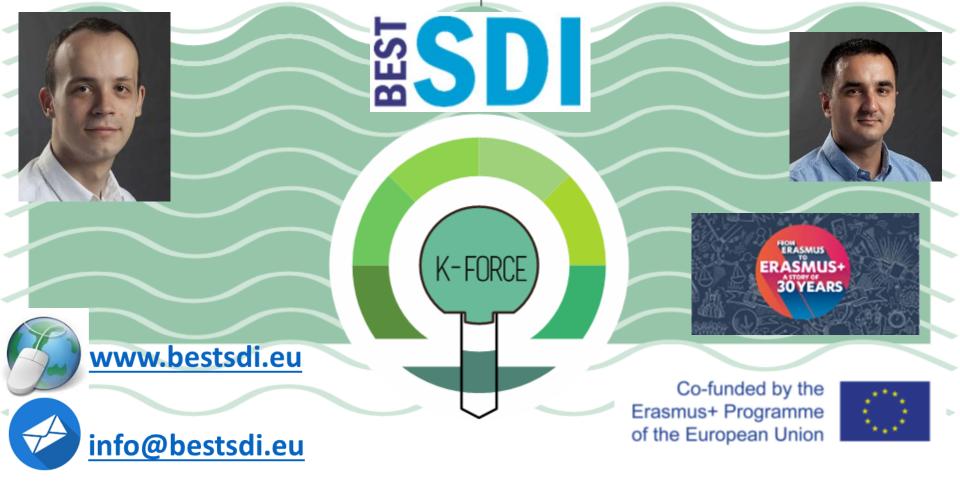








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Thank you for your attention

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