



DEVELOPMENT OF BACHELOR PROGRAM
IN AGROECOLOGY WITH DUAL EDUCATION
IN KAZAKHSTAN



Dr. Bojan Matkovski
University of Novi Sad
Faculty of Economics in Subotica



Co-funded by
the European Union

Our experience



Implementation of Dual Education in Higher Education of Serbia (17-21)



Dual Education for Industrial Automation and Robotics in Kazakhstan (20-24)



Agricultural Policy of European Union and its influence on competitiveness of agri-food products of Serbia



AGROKAZ Consortium

UNIVERSITY OF NOVI SAD	BE01	UNS	Novi Sad
KOSTANAY ENGINEERING AND ECONOMICS UNIVERSITY NAMED AFTER M. DULATOV	BE02	KEnEU	Kostanay
KAZAKH NATIONAL AGRARIAN UNIVERSITY	BE03	KazNAU	Almaty
TORAIGHYROV UNIVERSITY	BE04	PSU	Pavlodar
DIMOKRITIO PANEPISTIMIO THRAKIS	BE05	DUTH	Komotini
SVEUCILISTE JOSIPA JURJA STROSSMAYERA U OSIJEKU	BE06	UNIOS	Osijek
AGRICULTURAL EXPERIMENTAL STATION ZARECHNOYE	BE07	Zarechnoye	Kostanay
KAZAKH RESEARCH INSTITUTE OF PLANT PROTECTION AND QUARANTINE NAMED AFTER ZHAZKEN ZHIYEMBAYEV	BE08	KRIPPQ	Almaty



AGROKAZ Goals

General goal:

Improvement of the competencies of higher education graduates and their employability in Kazakhstan.

Specific goals:

- Improvement of students' skills and competences in Agroecology through Dual education
- Reduction of the gap in the structure, volume and quality of labour resources from the real requirements of specific farms/enterprises
- Education of the professionals with competencies related to modern technologies
- (Re)designing of the educational program in agroecology in Kazakhstan through establishment of sustainable, internationally oriented dual study program



START: 01/02/2023 END: 31/1/2026

Project activities and methodology

- WP1 Project management (UNS, M1 – M36)
- WP2 Preparation for development of dual study program in agroecology (KEnEU, M1-M6)
- WP3 Curriculum development (KEnEU, M6-M11)
- WP4 Preparation for implementation of new bachelor and LLL programs (PSU, M1-M24)
- WP5 Implementation of the program (KazNAU, M24-M36)
- WP6 Quality control and monitoring (UNIOS, M1– M36)
- WP7 Dissemination and exploitation of project activities and results (DUTH, M1-M36)



Project budget

Acronym	MAXIMUM GRANT AMOUNT
UNS	106,841.70
KEnEU	103,665.80
KazNAU	100,967.80
PSU	110,266.60
DUTH	51,933.00
UNIOS	51,109.20
Zarechnoye	21,073.00
KRIPPQ	23,514.90
CONSORTIUM	569,372.00



The role of partners from Kazakhstan academic and non-academic

Preparation for development of dual study program in agroecology

Curriculum development

Preparation for implementation of new bachelor and LLL programs

Implementation of the program



The role of partners from program countries

Transfer of knowledge

Hosting of study visits (organization of studies and courses, practical examples of dual education, etc.)

Quality control of study programs and the entire project

Dissemination of project results



Associated partners

Participation at meetings and representation of stakeholders

Dissemination of project results

Ministry of Education and Science

Chamber of Entrepreneurs of Kostanay region

Kazakhstan Agency of Applied Ecology

Independent Agency for Accreditation and Rating

Non-commercial JSC "National Agrarian Science and Educational Centre"

Farm enterprise "Zamandas"



What are deliverables?

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36		
DELIVERABLES																																								
NAME																																								
A five-day kick-off meeting	WP1	UNS		■																																				31 Mar 2023
Project management handbook	WP1	UNS			■																																			30 Apr 2023
Consortium agreement	WP1	UNS						■																																31 Jul 2023
Final consortium meeting	WP1	UNS																																					■	31 Jan 2026
Partner Country Report	WP2	KEnEU						■																																31 Jul 2023
Booklet about learning outcomes and comp	WP2	KEnEU						■																																31 Jul 2023
Curricula report	WP3	KEnEU											■																											31 Dec 2023
Accredited laboratories	WP4	PSU							■																															31 Aug 2023
Published Guide in dual methodology	WP4	PSU																							■															31 Dec 2024
Accredited dual BA study program in AE	WP4	PSU																								■														31 Jan 2025
Preparatory measures	WP4	PSU																								■														31 Jan 2025
Start of the courses	WP5	KazNAU																									■													28 Feb 2025
Student enrolled in a new program	WP5	KazNAU																									■													28 Feb 2025
Professionals involved in LLL program	WP5	KazNAU																																			■		30 Sep 2025	
Quality Control Manual Metrics for the stud	WP6	UNIOS																■																						31 May 2024
Report of external experts	WP6	UNIOS																																				■		31 Jan 2026
Strategy for dissemination	WP7	DUTH				■																																		31 May 2023
Completed project website and social medi	WP7	DUTH						■																																31 Jul 2023
Final conference has been organized	WP7	DUTH																																				■		31 Jan 2026



Main beneficiaries

Students on DE (about 100 per year – PSE and KAZNAU 40 students per year, KEnEU 20 students per year)

Teachers, participating universities, companies, professionals on LLL (about 10 per year)

Higher educational system in Kazakhstan as a whole



More information on website
<http://agrokaz.kineuprojects.kz/>



About

News

Project Outcomes

Partners

Contacts



AGROKAZ

Development of bachelor program in agroecology
with dual education in Kazakhstan





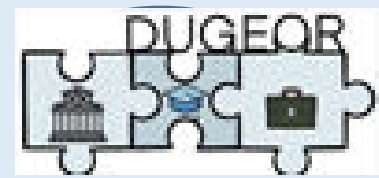
THANK YOU FOR YOUR ATTENTION!



Dr. Bojan Matkovski
University of Novi Sad
Faculty of Economics in Subotica



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Strengthening capacities for the implementation of dual education in Georgia higher education (DUGEOR)

Project number: 101081771

PROJECT PRESENTATION

Kristina Peštović
University of Novi Sad

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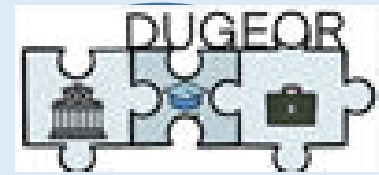




DUGEOR Consortium – 16 members

University of Novi Sad	BE01	UNS	Novi Sad
FH JOANNEUM Gesellschaft mbH	BE02	FHJ	Graz
Duale Hochschule Baden-Württemberg (DHBW)	BE03	DHBW	Heilbronn
University Business Academy in Novi Sad	BE04	UBANS	Novi Sad
Georgian Institute of Public Affairs	BE05	GIPA	Tbilisi
LLC Batumi Navigation Teaching University	BE06	BNTU	Batumi
Iakob Gogebashvili Telavi State University	BE07	TeSaU	Telavi
Batumi State Maritime Academy	BE08	BSMA	Batumi
Georgian Technical University	BE09	GTU	Batumi
Vengo group	BE10	Vengo	Tbilisi
INTERLOGGGEORGIA	BE11	INTLOG	Batumi
Wine Company Shumi LLC	BE12	Shumi	Telavi
Ministry of Education and Science of Georgia	BE13	MoESG	Tbilisi
LEPL - National Center for Education Quality Enhancement	BE14	NCEQE	Tbilisi
Wilhelmsen Ships Service Georgia	BE15	WSS Georgia	Tbilisi
National Forestry Agency	BE16	NFA	Tbilisi





General goal:

Improvement of the competencies of higher education graduates and their employability in Georgia.

Specific goals:

- Implementation of dual education into HE systems in Georgia
- Enabling students to learn more relevant knowledge and skills through dual education
- Improvement of legal framework and accreditation standards in Georgia in order to adapt to dual education
- Development of generic model of dual education (DUGEOR model) to support different needs and interests of students, companies, higher education institutions (HEIs) in Georgia and to provide recommendations to HEIs for implementation of dual education

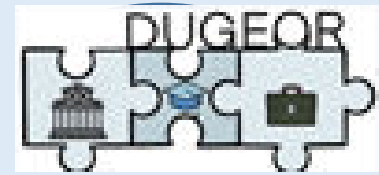
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Acronym	WP 001 Project management	WP 002 Research and needs analysis	WP 003 Generic Dual Higher Education Model (DUGEOR model)	WP 004 Creation of legal and strategic framework on the implementation of DHE	WP 005 Pilot testing of the generic DUGEOR model	WP 006 Quality assurance and monitoring	WP 007 Dissemination and exploitation of results	Maximum Grant Amount
UNS	24,569	8,268	11,737	13,649	13,122	3,190	12,026	86,560
FHJ	9,297	11,705	11,899	9,590	8,025	7,280	5,305	63,100
DHBW	9,851	11,868	12,245	9,763	7,575	4,680	4,680	60,664
UBANS	11,527	6,639	8,270	7,201	4,281	9,031	6,142	53,091
GIPA	10,095	18,184	6,332	6,447	32,276	1,560	9,447	84,341
BNTU	12,317	15,185	6,332	7,346	41,401	3,293	9,360	95,234
TeSaU	8,885	18,495	10,273	7,573	40,773	2,271	7,349	95,619
BSMA	10,029	17,438	7,043	8,906	41,482	1,543	7,349	93,790
GTU	7,897	16,155	8,812	8,317	38,256	1,058	9,049	89,543
Vengo	4,973	9,407	3,759	2,399	2,947			23,485
INTLOG	4,805	9,488	3,587	3,587	3,999			25,465
Shumi	3,678	8,453	6,566	1,446	2,872	780	434	24,229
MoESG	2,026	8,020	2,026	1,013				13,085
NCEQE	3,847	9,840	3,847	2,833	1,820	1,681		23,867
WSS Georgia	2,581	8,713	3,014	1,568	988	554	988	18,407
NFA	2,460	8,453	4,453	1,446	434	832	434	18,511
Consortium	128,837	186,310	110,196	93,083	240,251	37,751	72,562	868,991

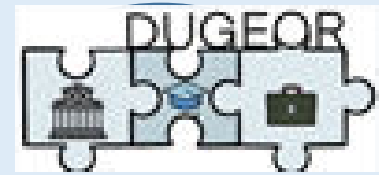




Project activities and methodology

- WP1 Project management (UNS)
- WP2 Research and needs analysis (GIPA)
- WP3 Generic Dual Higher Education Model (DUGEOR model) (GTU)
- WP4 Creation of Legal and Strategic Framework on the implementation of DHE (UBANS)
- WP5 Pilot testing of the generic DUGEOR model (TESAU)
- WP6 Quality Assurance and Monitoring (FHJ)
- WP7 Dissemination and Exploitation of Results (BSMA)

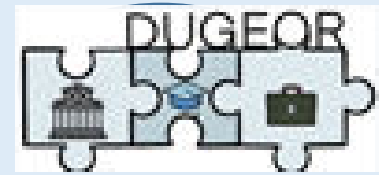




Action Plan (Year 1)

Work Package No	Deliverable Related No	Deliverable Name	Lead Beneficiary	Type	Dissemination Level	Due Date	Year	Note
WP1	D1.1	Kick off meeting report	UNS	R	SEN	31 Mar 2023	1	
WP1	D1.2	Consortium agreement	UNS	R	SEN	30 Jun 2023	1	
WP2	D2.1	Report on depth analysis of good practices and experiences in respect to DHE in EU Member States and third countries associated to the Programme	GIPA	R	SEN	31 Jul 2023	1	
WP2	D2.2	Report on company needs for DHE in Georgia	GIPA	R	SEN	31 Oct 2023	1	
WP2	D2.3	Report on round table discussion	GIPA	R	SEN	31 Dec 2023	1	
WP5	D5.1	Report on purchased and installed equipment.	TESAU	R	SEN	30 Sep 2023	1	
WP6	D6.1	Quality Assurance and Evaluation Plan	FHJ	R	SEN	30 Apr 2023	1	
WP7	D7.1	Dissemination and exploitation plan	BSMA	R	SEN	30 Apr 2023	1	
WP7	D7.5	Project website	BSMA	DEC	SEN	30 Jun 2023	1	GIPA

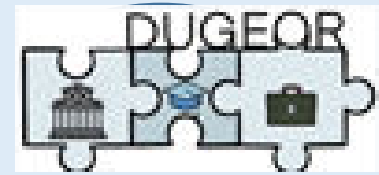




The role of partners from program countries

- Transfer of knowledge
- Hosting of study visits (organization of studies and courses, internship, double degree, foreign students, fees, practical examples of dual education, etc.)
- Quality control of study programs and the entire project
- Dissemination of project results

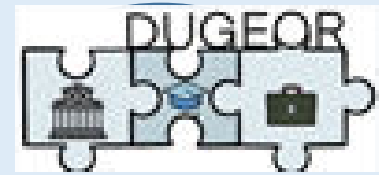




Associated partners

- Participation at meetings and representation of stakeholders
- Dissemination of project results





<https://dugeor.ge/>



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WEBJOU Project

WEstern Balkan higher educational
courses in data JOUrnalism



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Project Objective

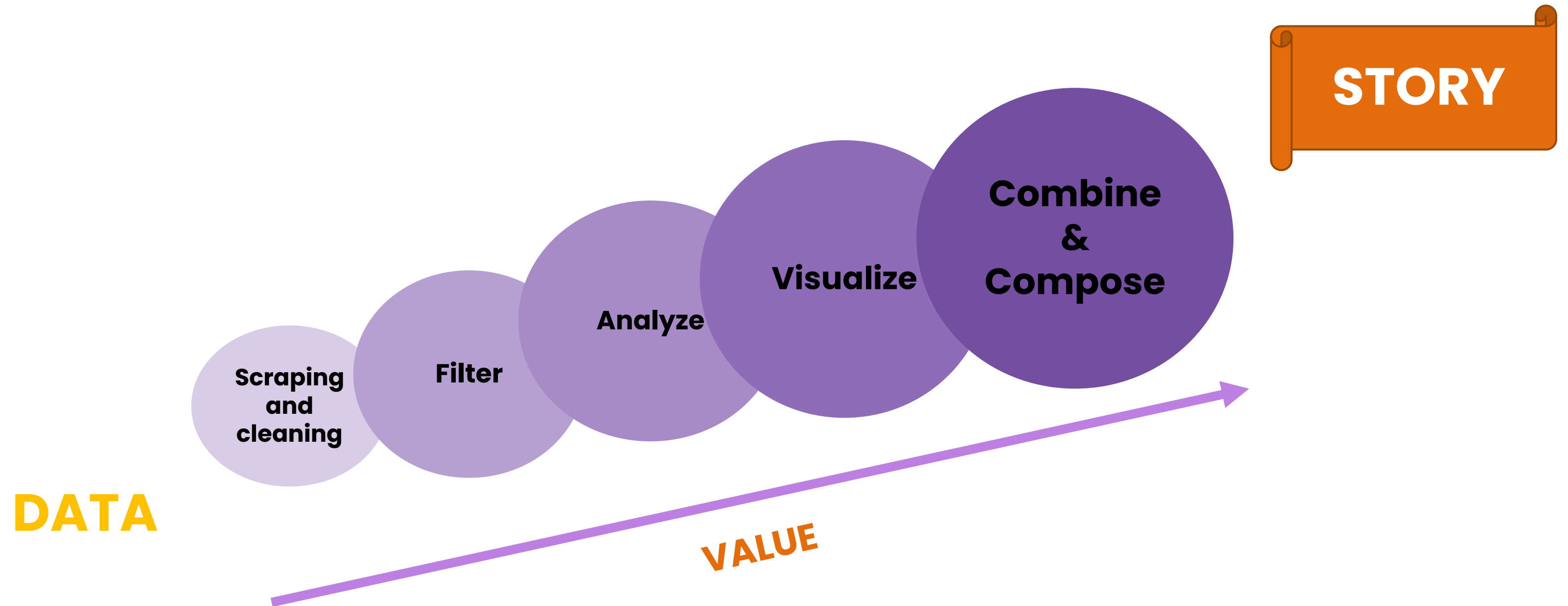
- WEBJOU project aims to promote **knowledge exchange** and **multidisciplinary teaching** and **learning innovation** in the **Western Balkan** reality, for what concerns providing all knowledge and skills, in particular from fields such as **data science, statistics, visualization** and **communication**, necessary to fruitfully operate in the data **journalism** and **data communication** frameworks.



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The data-driven journalism process



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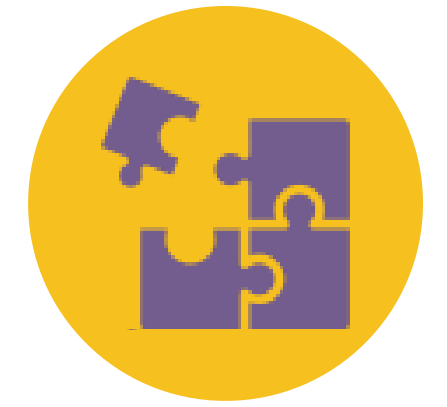


Major goals



- ✓ The **definition of the profile of data journalism and data communication** for the higher education (ISCED-6) with reference to the Western Balkans higher education system.
- ✓ The design of **6 modular courses**, which can be composed to realize different training paths (**Big Data, Data Visualization, Statistical analysis, Geospatial representations, Story telling, Legislation on data property in EU (GDPR)**). The courses will be compliant with a competences assessment and qualification system based on the ECTS credit points.
- ✓ The **realization of 7 first course/bachelor's** (ISCED-6) in Data journalism, **one for each participating** HE, tailored for the Western Balkan context with particular reference to the Albanian and Kosovan higher education system.
- ✓ The **development of an online platform**. All the resources and teaching aids will be available to the public free of charge through open licenses (Open Educational Resources -OER).

Consortium



- 11 partners (2 from Italy, 4 from Albania, 3 from Kosovo, 1 from Portugal and Serbia)
- Project coordinator – Tuscia University, Italy



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UNS Project Team



Ugljesa Marjanovic
Associate Professor, FTN, UNS



Danijela Ciric Lalic
Assistant Professor, FTN, UNS



Slavko Rakic
Assistant Professor, FTN, UNS



Milena Savkovic
Teaching Assistant, FTN, UNS



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Universidade Nova De Lisboa



University of Novi Sad



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Università degli Studi della Tuscia
Dataninja



Universum College
RIT KOSOVO (A.U.K) College
"Kadri Zeka" University



MESDHEU EDUCATION
UNIVERSITETI ALEKSANDER MOISIU DURRI
EUROPEAN University of Tyana
University of Tirana



Work Packages

WP1: Project Management

- **UNITUS**

T 1.1. Administrative and Financial Coordination

T 1.2. Technical Management

T 1.3. Communication, Quality and IPR Management

WP2: Course's design and development. Design and development of syllabus, format, and content of the modules of the courses. OER production

- **UNL**

T 2.1. Need and best practices analysis and definition

T 2.2. Syllabus and learning material gathering

T 2.3. Curricula and courses design

T 2.4. Course development

T 2.5. OER production and learning platform configuration

Work Packages

WP3: Course Piloting

- **UNS**
 - T 3.1. Student recruitment
 - T 3.2. Pilot for the Albanian HE
 - T 3.3. Pilot for the Kosovar HE

WP4: Assessment and validation of competences methodology

- **UNITUS**
 - T 4.1. Design and development of the assessment framework
 - T 4.2. Integration with the on-line platform

Work Packages

WP5: Evaluation of the project process and products and quality assurance

UC – UNIVERSUM

- T 5.1. Development of the Quality Plan
- T 5.2. Implementation of the foreseen evaluation activities
- T 5.3. Carrying out evaluation focus group, involving the stakeholders
- T 5.4. Production of reports with recommendations for improvement

WP4: Dissemination, exploitation and impact assessment

UET

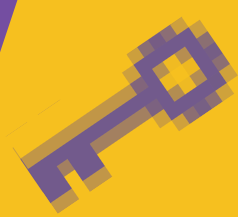
- T 6.1. Development of the Dissemination and exploitation Plan
- T 6.2. General dissemination: Visual Identity and dissemination material development
- T 6.3. Digital dissemination: Portal development
- T 6.4. Partner Dissemination multiplier event and final conference

Key Challenges

**UNITUS – Coordination
Among Partners**



**Administrative and
Bureaucratic
Procedures**



Lump sum system

Lack of detailed
accountability, potential
for misallocation, difficulty
in cost monitoring



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Thank You

Let's discuss together!



+381 65 997 12 28



milena.savkovic@uns.ac.rs

**jOiNEd For sUsTainability - bUilding climate REsilient
communities in WB and EU**

1FUTURE Project Presentation

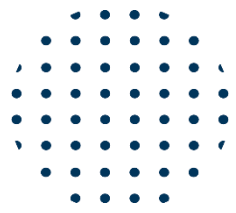
Novi Sad Study Visit
UNIVERSITY OF TIRANA

Date: 5 December 2023
Place: Novi Sad, Serbia



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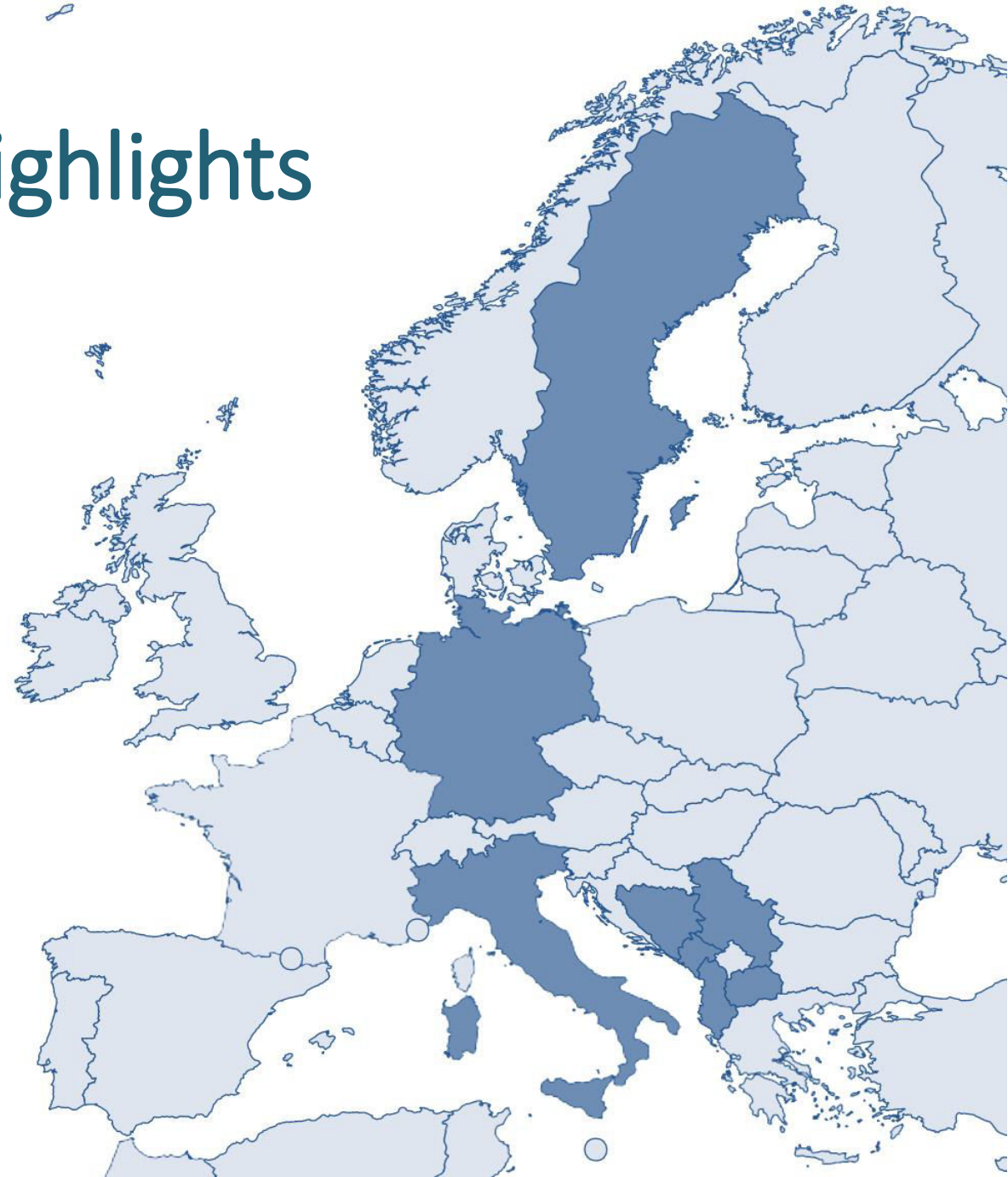
1FUTURE Origins

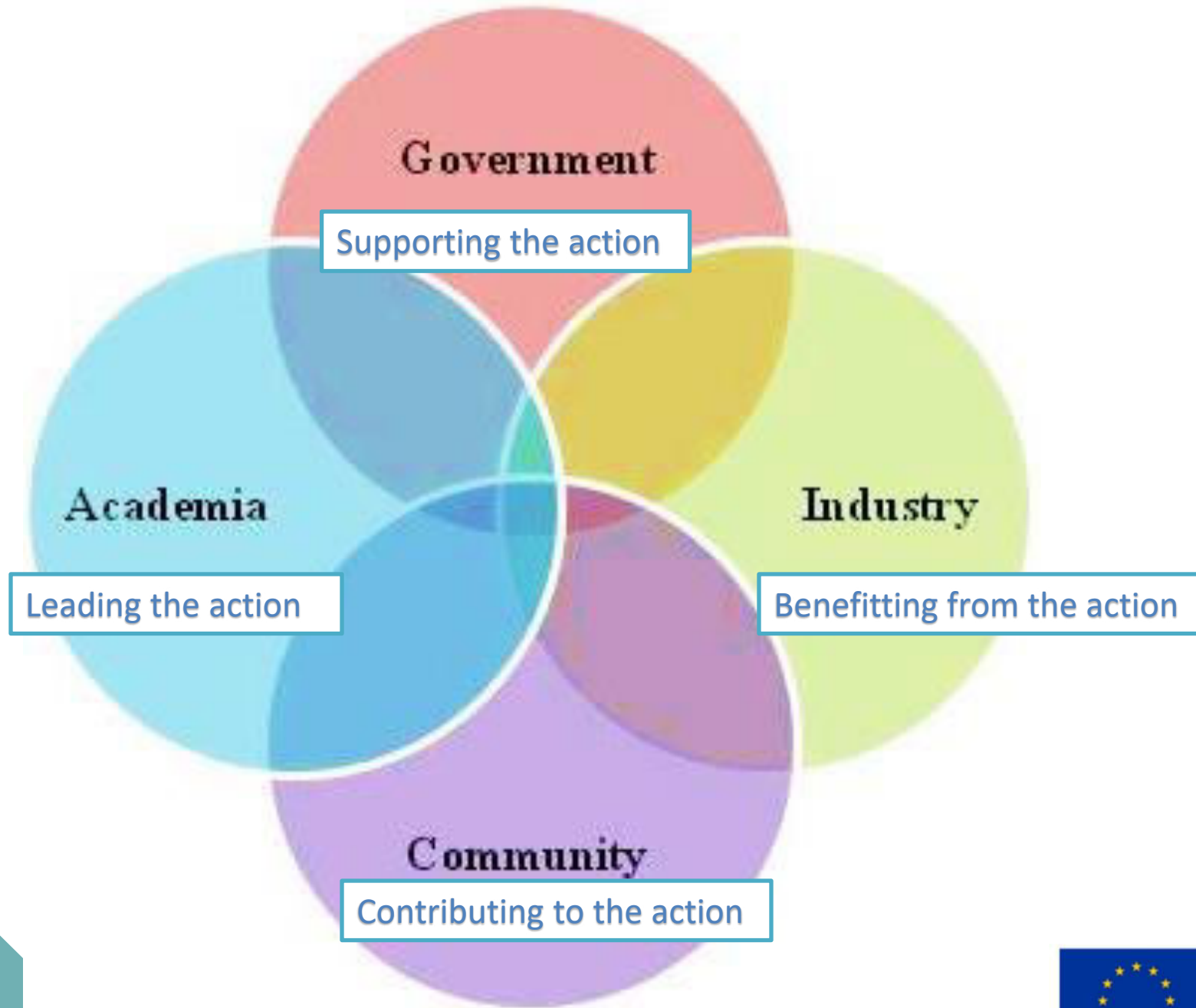
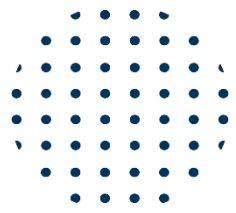
- K-FORCE
 - WB path towards sustainability
- Established networks interests
- EU and national priorities
- Exchanging ideas for developing the proposal
- Not giving up!

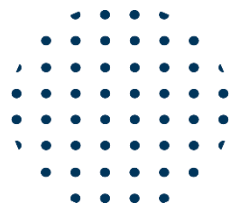


1FUTURE network highlights

- Relevance
- Multi-disciplinarity
- Diversity
- Networks



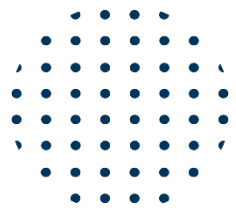




1FUTURE Consortium and Contact Points

- University of Tirana (Albania) – Elona POJANI
- Polytechnic University of Tirana (Albania) – Oltion MARKO
- Luarasi University (Albania) – Anni DASHO
- University of Tuzla (BiH) – Edisa NUKIC
- CEPS - Center for Business Studies (BiH) – Mirzo SELIMIĆ
- University of Montenegro (Montenegro) – Milos KNEZEVIC
- Lund University (Sweden) - Henrik HASSEL
- Eberswalde University for Sustainable Development (Germany) – Heike Molitor
- Iuav University of Venezia (Italy) - Giulia LUCERTINI
- University of Novi Sad (Serbia) – Mirjana LABAN
- Ss. Cyril and Methodius University in Skopje (North Macedonia) - Meri CVETKOVSKA
- Chamber of Commerce and Industry of Tirana (Albania) – Aris TASHO
- Institute for Nature Conservation in Albania (Albania) – Emirjeta ADHAMI
- Albanian National Agency of Scientific Research and Innovation (Albania) – Mirela MUÇA
- Chamber of Engineers of Montenegro (Montenegro) – Zdenka PEROVIC
- Organization - Construction Science and Practice (Montenegro) - Mladen GOGIC
- Association for Risk Management (BiH) – Haris DELIĆ
- Chamber of Economy of Bosnia and Herzegovina (BiH) – Emir PASIC



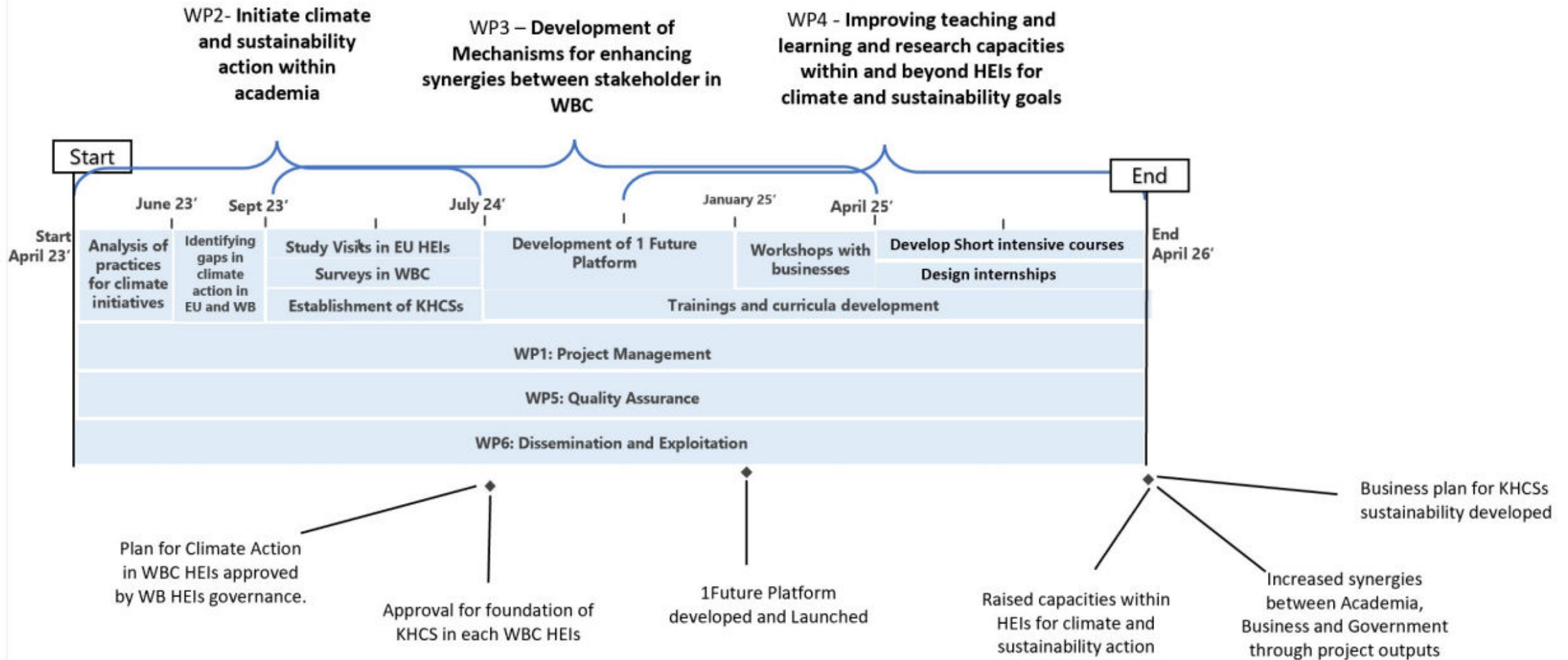


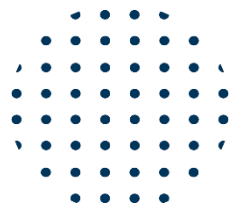
Project presentation

- WP1: Project Management
- WP2: Initiating climate and sustainability action within academia
- WP3: Development of Mechanisms for enhancing synergies between stakeholder in WBC
- WP4: Improving teaching and learning and research capacities within and beyond HEIs for climate and sustainability goals
- WP5: Quality Control and Monitoring Work (QCM) Plan
- WP6: Dissemination and exploitation



Working Packages, deliverables and milestones

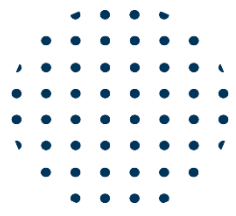




WP1: Project Management

- WP leaders: UTA and UNS
- Deliverables:
 1. Project management plan and risk plan
 2. Partnership Agreement





WP2: Initiating climate and sustainability action within academia

- WP Leaders: UPT and LUND
- Duration: M1-M16
- Deliverables:
 1. Study Visits
 2. Plan for Climate Action in WBC HEIs

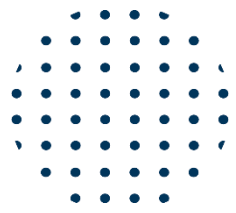




WP3: Development of Mechanisms for enhancing synergies between stakeholder in WBC

- WP Leaders: UTA, CEPS, UoM
- Duration: M6-M24
- Deliverables:
 1. Report on establishment of equipment and working space of the KHCS
 2. Platform for academia-business collaboration
 3. Workshops with business sector and government





WP4: Improving teaching and learning and research capacities within and beyond HEIs

- WP leaders: UTZ, IUAV, HNEE
- Duration: M18-M36
- Deliverables:
 1. Revised curricula for existing courses and new curricula of short intensive courses and learning materials
 2. Tailor made short intensive courses
 3. Book of case studies

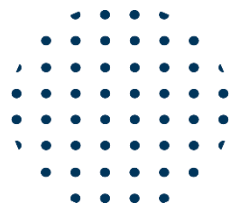




WP5: Quality Control and Monitoring Work (QCM) Plan

- WP leaders: UKIM, NASRI, INCA, GNP, AZUR
- Duration: M1-M36
- Deliverables:
 1. QA plan
 2. Final Quality Assurance report

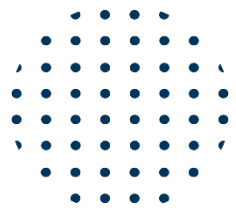




WP6: Dissemination and exploitation

- WP leaders: ULA, CCIT, CEFBIH, CEM
- Duration: M1-M36
- Deliverables:
 1. Dissemination plan
 2. Project Webpage including e-library
 3. Symposium
 4. Climate and Sustainability Journal
 5. Business models for continuation of KHCSs

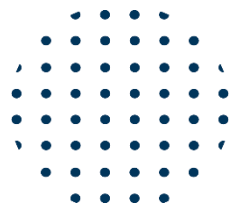




Reporting

- Deliverables:
 - 18 in total
 - Quality
 - Completeness
 - Involvement
 - Tasks
 - **Milestones**
 - EU platform based reporting
- Reporting to coordinator
 - Templates to be provided
 - Means of reporting to be provided
 - Progress of tasks





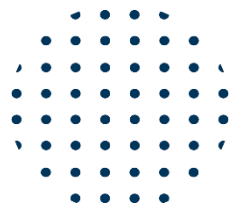
Eligible funding

- Lump-sum principle
- Each institution has its own grant
- Follow project activities, timeline and deliverables
- Budgeted for each activity will be sent from coordinators
- Incomplete WPs, weak implementation, not achieving targets

=>

– Ineligible budget

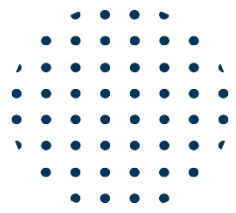




Indicators of success

- SO1: Establish Knowledge Hubs for Climate and Sustainability (KHCS) within each WBC HEIs
 - Indicator: Status of Approval of KHCS, Baseline and target value: 6 KHCS established in each WB partner HEI
 - Indicator: Number of departments/staff affiliated to the KHCSs (Baseline and target value: 2 Departments in each WBC HEI affiliated to the KHCS; Baseline 20 and target value: 30 staff members in each WBC HEI affiliated to the KHCS)
- SO2: Mainstream climate and sustainability culture within WBC HEIs
 - Plan for Climate Action (published in three languages) approved (Baseline and target value: the Plan for Climate Action approved in each WB partner HEI)
 - number of products/services offered by KHCS (at least 5, target 10, including: education programs, climate and sustainability awareness campaigns, conferences and workshops, students activities, counselling for businesses, networking events, research activities, surveys, etc.)

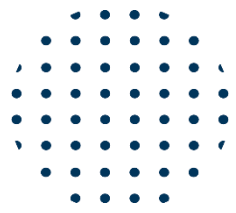




Indicators of success

- SO3: Raise awareness of staff and student community on the needs for climate action within HEIs
 - number of courses improved and revised (baseline: 40; target: 45)
 - number of Tailor-made Short Intensive courses implemented in each WBC HEI (baseline and target 6)
 - number of webinars (baseline 30 and target 40 webinars)
 - number of students enrolled in revised courses (baseline 1500 students per year, target 2000 students per year)
 - number of students enrolled in Tailor-made Short Intensive courses (baseline 400 trained students and professionals, target 600 trained students and professionals)
 - number of trainings of teaching staff (baseline and target 42)
 - number of research work in climate and sustainability field (baseline: at least 6 PhD areas of research in WBC HEIs will be on climate and sustainability action; target: 8; baseline: at least 20 master and bachelor theses produced in WBC HEIs will be on climate and sustainability action; target: 30)
 - quantities and quality of teaching materials (baseline 20 and target 25 chapters of new learning materials)
 - number of educational resources with open access in the e-library of the project (baseline 50 and target 60)

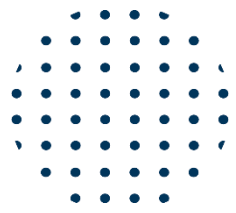




Indicators of success

- SO4: Increase Synergies between academia, business sector and government for implementing joint initiatives for climate and sustainability
 - Number of users in the 1Future collaboration platform (baseline 200 and target 300)
 - number of project between business and HEIs developed (baseline 20 and target 30)
 - number of case studies produced (baseline 20 and target 30)
 - number of internships organized through the project (baseline 30 and target 50)
 - number of Memorandum of Understanding or Long-Term Collaboration Agreements signed (baseline: 30 and target: 40)
 - number of professionals enrolled in Tailor-made Short Intensive courses (baseline 400 trained students and professionals, target 600 trained students and professionals)
 - number of events (workshops, fairs, info-days) organized in collaboration with business communities (baseline: 6 and target: 12)
 - revised business and “move to action” strategies enabled by the collaboration with HEIs in the framework of 1Future project (baseline 15 and target 30 enterprises will revise their business strategies)
 - number of commitments undertaken by enterprises regarding climate and sustainability (baseline 15 and target 30 enterprises will undertake commitment regarding climate change and sustainability)

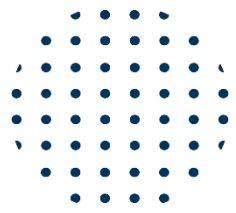




Indicators of success

- SO5: Reinforcement of networking and collaboration between staff and student communities of WBC and EU about climate and sustainability actions:
 - number of Memorandum of Understanding signed (one joint MoU signed between project partners)
 - number of joint articles published in the symposium (baseline: 25 and target: 40)
 - number of joint articles published in the first issue of the journal (baseline: 10; target: 15)
 - number of teaching visits performed by EU HEIs in WBC HEIs (baseline and target 30)
 - number of trainings of teaching staff (baseline and target 42)





Thank you!

1FUTURE PMT TEAM



Co-funded by the
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