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Joint Project: Capacity Building in
the Field of Higher Education
ERASMUS+ 2018

**Crisis and Risks
Engineering for
Transport Services**



ROAD

Regional Objectives
for Administrative
Development



ERASMUS+ CBHE projects in TURKMENISTAN

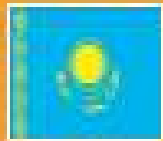


**New and Innovative
Courses for Precision
Agriculture**

National Erasmus+ Office in Turkmenistan

Ashgabat - 2021

ERASMUS+ Programme in CENTRAL ASIA



Erasmus+ Programme
promotes capacity building
of universities
**through collaboration
and exchanging
people and ideas**

EUR 115 million

Erasmus+ budget for
international cooperation
with CA countries 2014-2020



From 3 to 24 months
Duration of various
Erasmus+ student
scholarships

75

total number of CA
students
awarded EMJMD
scholarships



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ERASMUS+ Programme in CENTRAL ASIA



Cooperation areas:
from space exploration
and intelligent robots to
sustainable development

221
The number of CA
universities participating in
Erasmus + CBHE projects

**The Erasmus +
scholarship covers:**
travel expenses, housing
and living expenses, and
tuition fees

**Erasmus +
provides an opportunity to
get the best European
higher education and
be inspired with
cultural heritage**



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EU and Turkmenistan

- EU assistance for 2011 - 2013 = €39 million on education and legal reforms, human rights, and economic and social sector reforms for sustainable development
- EU bilateral assistance in 2014 - 2020 = €10 million for education and vocational training



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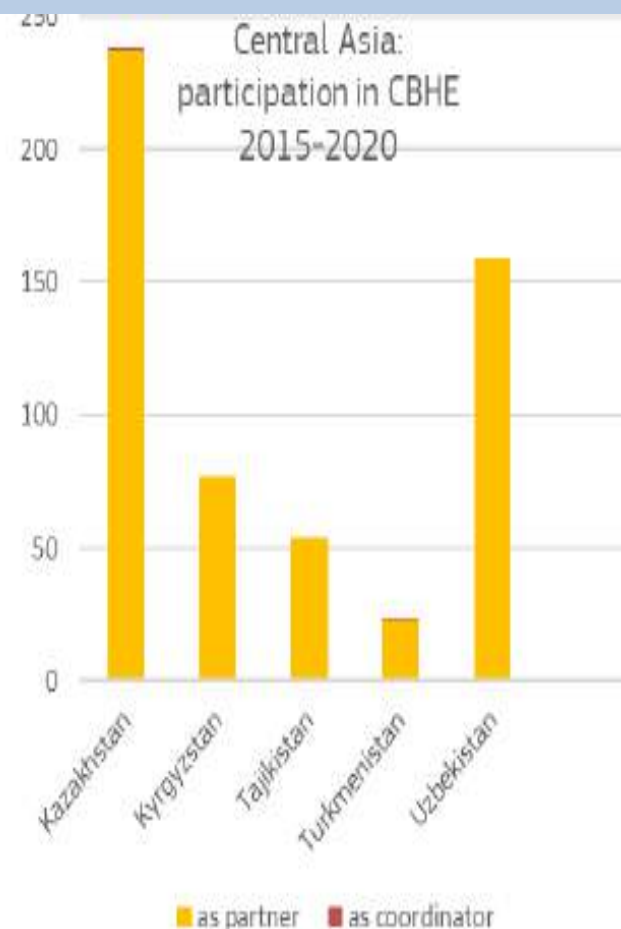
Turkmenistan in CBHE projects

Turkmenistan in CBHE projects

	TOTAL	2020	2019	2018	2017	2016	2015
Proposals received in call overall	4 843	1032	840	887	833	736	515
Projects selected in call overall	908	164	163	147	149	147	138
Proposals received involving Turkmenistan	34	10	3	8	6	4	3
Projects selected involving Turkmenistan	7	1	1	3	0	1	1
Projects coordinated by Turkmenistan	0	0	0	0	0	0	0
Instances of participation from Turkmenistan	23	3	4	12	0	2	2

in selected projects

Capacity building projects can be addressed to a group of countries or a single country. They can also be cross-regional, including institutions from different partner regions.



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Turkmenistan in CBHE projects



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- 1. Accessibility and Harmonization of HE in CA through Curriculum Modernization and Development (ACADEMICA) Grant requested – € 669 414.00**
- 2. Regional Objectives for Administrative Development (ROAD) Grant requested – € 815 588. 00**
- 3. Crisis and Risk Engineering for Transport Services (CRENG) Grant requested – € 999 949.00**
- 4. Modernisation of Higher Education in Central Asia through New Technologies (HiEdTec) Grant requested – € 988 773.00**
- 5. New and Innovative Courses for Precision Agriculture (NICOPA) Grant requested – € 999 847.00**
- 6. Development of a Master Programme in the Management of Industrial Entrepreneurship for Transition Countries (MIETIC) Grant requested – € 807 014.00**
- 7. New Courses in Geospatial Engineering for Climate Change Adaptation of Coastal Ecosystems (GEOCLIC) Grant requested – € 998 832.00**

Accessibility and Harmonization of Higher Education in Central Asia through Curriculum Modernization and development (ACADEMICA)



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ACADEMICA consortia:

Turkmen State Institute of Finances
Turkmen State Institute of Culture
Tashkent University of Information Technologies
Myrzahmetov Kokshetau State University
Ualikhanov Kokshetau State University
Kazakhstan Association of Engineering Education
Samarkand Agricultural Institute
Ministry of Education and Science of Kazakhstan
Kostanay State Pedagogical Institute
Ministry of Education of Uzbekistan
International Information Technology University
Tashkent University of Information Technologies



www.academicaproject.eu

Accessibility and Harmonization of Higher Education in Central Asia through Curriculum Modernization and development ACADEMICA



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The ACADEMICA Project aims to contribute for the modernization and improvement of Higher Education in the field of Engineering Sciences in the countries of Central Asia (Kazakhstan, Turkmenistan and Uzbekistan) through convergence with:

- European educational standards; Achievements and expertise of European Union in the development of modern educational environments;
- Good EU practices and innovative methodologies for teaching and learning based on contemporary information and communication technologies and open educational resources.



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ACADEMICA project impact:



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The modernized courses have been integrated in the curricula and recognized on the institutional level

The TM partner universities incorporated e-learning and blended learning approaches in the educational process

The ACADEMICA e-platform and partner institution centers offer training modules for developing language and teaching skills in the form of distance learning

The project outcomes have contributed to improving the institutional teaching and research activities, and students' employment opportunities

The project has increased the integration of partner universities in the international community and the academic mobility between partner institutions

The project has enhanced new modalities in cooperation with business and social partners

The sustainability of the project results are determined by the high demand for IT and engineering professionals within the framework of Turkmenistan national policy



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“Regional Objectives for Administrative Development” (ROAD)

Overall aim

To enhance local development strategy of Turkmen and Kyrgyz civil servants through improving their competences by creating f2f and virtual training, counseling campus and recommendations for sustainable development.

PARTNERS

Instituto Superior Tecnico (Португалия)

Universitat Politècnica de Catalunya (Испания)

Universitat Rovira i Virgili (Испания)

Escola d'Administració Pública de Catalunya (Испания)

Universidad de Las Palmas Canarias (Испания)

Royal Institute of Technology (Швеция)

Issyk-Kul State University (Киргизия)

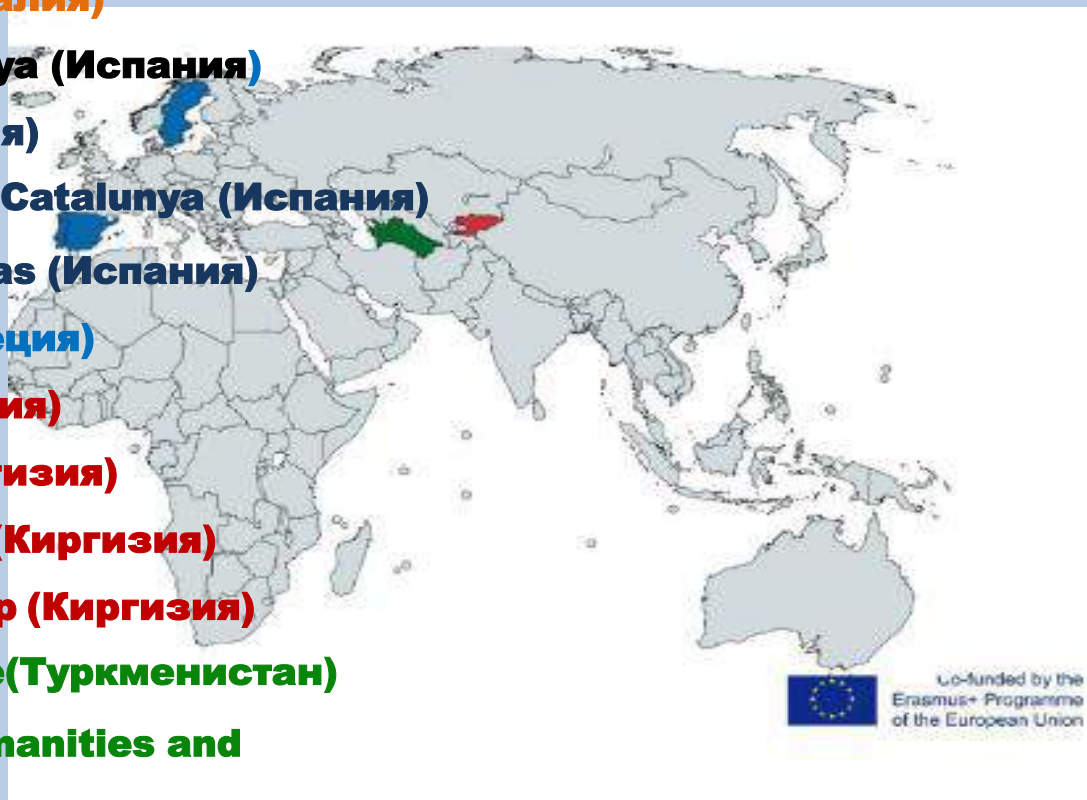
Jalal - Abad State University (Киргизия)

Arabayev Kyrgyz State University (Киргизия)

Capacity Building Consulting Group (Киргизия)

Turkmen State Institute of Finance (Туркменистан)

**International University of the Humanities and
Development (Туркменистан)**



MODERNISATION OF HIGHER EDUCATION IN CENTRAL ASIA THROUGH NEW TECHNOLOGIES / HiEdTec

Описание проекта
(Ноябрь, 2018 - Ноябрь, 2021)



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ПРЕЗИДЕНТ ТУРКМЕНИСТАНА ГУРБАНГУЛ

ПОЛИТИКА НАШЕГО ГОСУДАРСТВА ОПИРАЕТСЯ НА НЕИЗМЕНИМЫЙ
ОГРОМНЫЙ ПОТЕНЦИАЛ НАЦИОНАЛЬНОЙ ЭКОНОМИКИ, БУДУЩЕГО

Первое нейтральное
государство в мире,
позитивное ООН,
это слова Рахона -
Туркменистан!



Нейтральный ТУРКМЕНИСТАН

Учредитель - Кабинет Министров Туркменистана



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Ежедневная газета №46 (29406) 20 февраля 2020 года, четверг

Интерес этих вещей в том, что сочетались продолживается систематическое следство

«НТ»

В Туркменистане стартовал новый проект программы «Эразмус+»

В начале этого года стартовал 3-летний проект программы «Эразмус+» Европейской комиссии под названием «Модернизация магистерской программы в управлении промышленного предпринимательства для стран с переходной экономикой». Его туркменскими участниками являются Туркменский государственный институт экономики и управления, Туркменский государственный институт финансов, Центр технологий АНТ, Академия наук Туркменистана, которая, в свою очередь, выступает непосредственно координатором проекта со стороны нашей страны.

В выполнении проекта также принимают участие ведущие университеты Итальянской Республики и Республики Словакия, Казахстана и Таджикистана. С Европейской стороны проект координирует Университетом Сантьяго де-Компостела Королевства Испания.

Основная цель проекта заключается в разработке учебных планов и программ промышленной экономики для научно-образовательной системы страны, в повышении

профессионального уровня специалистов, а также в оказании технической помощи высшим учебным заведениям.

В рамках реализации этой проектной инициативы расширяется горизонт международного сотрудничества в области науки и образования, что послужит изучению и распространению передового мирового опыта в области промышленного предпринимательства, модернизации учебных планов и программ и повышению планки в подготовке высококвалифицированных специалистов, обладающих современным багажом профессиональных компетенций.

Как подчеркнули в Академии наук Туркменистана, благодаря объявленной в нашей стране политике «открытых дверей» особые приоритеты которой подчеркивает делегированный нашей стране Генеральной Ассамблеей ООН статус позитивного нейтралитета, созданы большие возможности для эффективного международного сотрудничества, охватывающего различные направления государственного развития, в том числе и научно-образовательную сферу.

Ярким примером тому является серия полезных про-

ектов, успешно выполняемых в Туркменистане в рамках Программы Европейского Союза «Эразмус+», ориентированной на развитие сфер образования, профессионального обучения, молодежной политики и спорта. Помимо вышеупомянутого проекта на сегодняшний день в активную фазу своей реализации вступили инициативы, связанные с обучением на языковых курсах для высокоотечного сельского хозяйства; с изучением особенностей проведения анализа кризисов и рисков для инженерно-транспортных служб. С туркменской стороны их участниками являются оба сельскохозяйственных вуза, архитектурно-строительный институт, Международный университет гуманитарных наук и развития, Институт телекоммуникаций и информатики, а также Министерство образования, Академия наук и входящий в её структуру Центр технологий.

Как прокомментировала координатор Национального офиса «Эразмус+» в Туркменистане Айпа Чореклиева, основные цели программы фокусируются на повышении качества образования, развитии мобильности и культурных связей студентов. Данная

инициатива объединила все наиболее успешные программы Европейского Союза по международному сотрудничеству в вышеперечисленных сферах, в том числе Темпус и Эразмус Мултус, которые уже действовали в Туркменистане, начиная с 1997 года (Темпус) и с 2008 года (Эразмус Мултус).

Программа «Эразмус+» предоставляет ряд возможностей для студентов, докторантов, преподавателей и сотрудников высших учебных заведений, которые могут пройти краткий курс обучения или повышения квалификации в европейском университете в рамках дуплексных программ академического обмена (Credit Mobility) или полный курс магистратуры (Joint Master Degree) или докторантуры. В сотрудничестве с европейскими университетами команды туркменских вузов принимают участие в проектах по развитию потенциала (Capacity Building in Higher Education). Программа оказывает поддержку и непосредственно Министерству образования Туркменистана в решении актуальных вопросов модернизации высшего образования.

Виктория ИОНКОВА,
«НТ»

MODERNISATION OF HIGHER EDUCATION IN CENTRAL ASIA THROUGH NEW TECHNOLOGIES / HiEdTec

Описание проекта
(Ноябрь, 2018 - Ноябрь, 2021)



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REASONS:

In order to respond to:

- the Digital Transformation of Industries (Industry 4.0), which also requires DIGITAL TRANSFORMATION OF EDUCATION with overtaking pace, **the consortium will develop Concepts of adapting the educational system to the digital generation**, considering the specific conditions of each of the partner countries;
- the requirement of the EU to give the opportunity for EVERYBODY to learn at ANY time and at ANY place with the help of ANY lecturer, using ANY device – computer, laptop, tablet, phablet, smart phone, etc. **the consortium will create Centres for innovative education technologies.**

MAIN PROJECT OUTCOMES AND PRODUCTS:

- Sustainable academic network for sharing experience and exchange of good practices in the field of innovative educational technologies and didactic models;
- 5 Concepts of adapting the education system to the digital generation - 1 per Partner country (PC);
- 15 Centres for innovative educational technologies - 1 at each PC university;
- 45 active learning classrooms - 3 at each PC university;
- Virtual classrooms – 1 at each PC university;
- Handbook of innovative educational technologies;
- Courses for trainers for the acquisition of digital skills and learning methods;
- Courses for lecturers for the acquisition of digital skills and learning methods;
- 75 e-Learning courses - 5 at each PC university;
- 75 PowerPoint presentations of lectures, suitable for delivering using interactive electronic white board - 5 at each PC university;
- Cloud-based Virtual Library of the digital educational resources.



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(Ноябрь, 2018 - Ноябрь, 2021)



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IMPACT:

- The project products will be of benefit for all stakeholders in education:
 - National and university policy-makers in the field of education;
 - University academics who are trainers / lecturers / learners;
 - Scientific, economic and social partners.
- The project will help to turn partner universities into innovative universities and to improve the quality of the trained specialists, who are necessary to perform the Digital Transformation of Industries (Industry 4.0).

PARTNERS:

19 universities from BULGARIA, ITALY, LUXEMBOURG, PORTUGAL, KAZAKHSTAN, KYRGYZSTAN, TAJIKISTAN, TURKMENISTAN, UZBEKISTAN and 5 Ministries of Education of the CENTRAL ASIAN countries.

PERIOD:

November 2018 – November 2021



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Crisis and Risks Engineering for Transport Services

MAIN OBJECTIVES:

- To develop, implement and accredit new practice oriented, student- focused MA program on CRENG including innovative teaching/learning approaches and ECTS in UA, AZ and TM
- To increase collaboration between EU and UA, AZ and TM HEIs in the CRENG area
- To create the information environment for dissemination of project results and making project outcomes sustainable



Joint Project: Capacity Building in
the Field of Higher Education
ERASMUS+ 2018

**Crisis and Risks
Engineering for
Transport Services**



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Project consortia:

Warsaw University of Technology
Berlin Technical University
University of Valenciennes
ECM Space technologies GmbH
Pryazovskii State Technical University
Dnipropetrovskii National University of Railway
Transport University named after Academician V. Lazaryan
State University of Infrastructure and Technologies
Baku Engineering University
Azerbaijan Technical University
Azerbaijan Technological University
Turkmen State Institute of Telecommunications and Informatics
International University for the Humanities and Development
Turkmen State Architecture and Construction University



New and Innovative Courses for Precision Agriculture



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Main goals

9 core curricula/modules

- ✓ Remote Sensing and Application of Earth and Environment related PA
- ✓ Using of SENTINEL 1-2-3 imagery for agricultural field monitoring
- ✓ Global Navigation Satellite Systems (NAVSTAR, GLONASS, GALILEO, etc.)
- ✓ Optimizing computer vision algorithms and real-time implementations
- ✓ Web technologies (Agro SDI, Geo-portals, Geo-services, Geo-analytical systems)
- ✓ Basics of the Precision agriculture – characteristics, technologies, economic efficiency, optimal use of resources
- ✓ Yield sensors for Precision Agriculture
- ✓ Soil physical properties and its measurement
- ✓ Application of Precision Agriculture for crops growing

3 Transferrable curricula

- ✓ Start up initiatives for future engineers
- ✓ Management and Decision Making in Precision Agriculture
- ✓ Intensive course to leverage acceptance of the new technologies "in-field"

Updated current curricula in the target field

Linking to the labor market

- ✓ Establishing PASO

New supporting learning environment

- ✓ Joint web based platform
- ✓ PAL and VCR

**New and Innovative
Courses for Precision
Agriculture**



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List of partners

EU partners

Technische Universität Berlin, Germany
The Agricultural University Plovdiv, Bulgaria
Czech University of Life Sciences, Czech Republic
ECM Space Technology GmbH

Target universities/partner countries

Seifullin Kazakh Agro Technical University, Kazakhstan
Shokan Ualikhanov Kokshetau State University, Kazakhstan
North Kazakhstan State University Named After Manash Kozybayev, Kazakhstan
Turkmen Agricultural University Named after S.A. Niyazov, Turkmenistan
The Turkmen state architecture and construction institute, Turkmenistan
Turkmen Agricultural Institute, Turkmenistan
National University of Uzbekistan, Uzbekistan
Tashkent University of Information Technologies, Uzbekistan
Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Uzbekistan

New and Innovative Courses for Precision Agriculture



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DEVELOPMENT OF A MASTER PROGRAMME IN THE MANAGEMENT OF INDUSTRIAL ENTREPRENEURSHIP FOR TRANSITION COUNTRIES

The project aim is:

To strengthen academic capacity of HEIs in Industrial Entrepreneurships in Central Asia by the development and implementation of interdisciplinary Master program and to establish sustainable cooperation between partner's HEI and labor market

Partners :





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Project Consortia

Universidad de Santiago de Compostela (Coordinator)

Ay Economics Research Centre S.L.

Univerza v Ljubljani

Universita Degli Studi di Napoli Federico II

D. Serikbayev East Kazakhstan State Technical University

Turkmenistan Ylymlar Akademiyasy

Turkmen State Institute of Economics and Management

Turkmen State Institute of Finance

Karaganda Economic University of Kazpotrebsoyuz

Technological University of Tajikistan

Centre of Technologies of Academy of Sciences of Turkmenistan

Tajik State University of Commerce

Technopark "Fanovar"

Educational Centre Business-Pro

Partners :





MIETC outcomes will fill the gaps in relevant knowledge and skills of local HEIs, students and business in Industrial entrepreneurship and link them to the labor market.





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One of the project's result will be to build capacity of teachers by providing high quality study materials based on blended teaching methodology. The intensive trainings for local teachers have been scheduled and will be delivered by the experts from EU HEIs.



Selection Erasmus+ CBHE 2020: GEOCLIC



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New Courses in Geospatial Engineering for Climate Change Adaptation of Coastal Ecosystems

15 November 2020 - 14 November 2023

Grant Requested 998.832,00

Project aim and objectives:

- **Improve the level of competences and skills in HEIs by developing new and innovative education programmes**
- **Improve the quality of higher education and enhance its relevance for the labour market and society**
- **Contribute to the cooperation between the EU and the eligible Partner Countries (and amongst the eligible Partner Countries)**
- **Support the modernisation, accessibility and internationalisation of the higher education field in the eligible Partner Countries**

Selection Erasmus+ CBHE 2020: GEOCLIC



Project partners:

Contractor AL-FARABI KAZAKH NATIONAL UNIVERSITY KZ

AZERBAIJAN ARCHITECTURE AND CONSTRUCTION UNIVERSITY AZ

"Azerbaijan Hava Yollari" CJSC National Aviation Academy AZ

Baku State University AZ

International Eco energy Academy AZ

MINGACHEVIR STATE UNIVERSITY AZ

Atyrau Oil and Gas University named after Safi Utebayev KZ

CASPIAN STATE UNIVERSITY OF TECHNOLOGIES AND ENGINEERING KZ

HALKARA YNSANPERWER YLYMLARY WE OSUS UNIWERSITETI TM

INSTITUTE OF GEOGRAPHY KZ

MAGTYMGULY ADYNDAKY TURKMEN DOWLETUNIWERSITETI TM

SA NYAZOW ADYNDAKY TURKMEN OBA HOJALYK UNIWERSITETI TM

EU Partners EXOLAUNCH GMBH DE

TECHNISCHE UNIVERSITAT BERLIN DE

UNIVERSITATEA MARITIMA DIN CONSTANTA RO

UNIVERSITEIT TWENTE NL

VILNIAUS GEDIMINO TECHNIKOS UNIVERSITETAS LT



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Thank you for your attention!

