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**STRATEGY
FOR UPSCALING AND EXTENDING THE IMPACT
OF THE PROJECT
«MODERNISATION OF HIGHER EDUCATION
IN CENTRAL ASIA
THROUGH NEW TECHNOLOGIES»
(HiEdTec)
AT A NATIONAL LEVEL
(IN KAZAKHSTAN)**

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Contributing partners:

No	Country	Name of the Institution
P2	Kazakhstan	Almaty Technological University
P3	Kazakhstan	L.N.Gumilyov Eurasian National University
P4	Kazakhstan	Innovative University of Eurasia (Pavlodar)
P20	Kazakhstan	Ministry of Education and Science of the Rep. of Kazakhstan

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The COVID-19 pandemic made the project especially relevant for the whole country. The STRATEGY provides active involvement of the Ministries of Education and Science as this is a structural project and it should lead to structural changes in each country. Accordingly, this STRATEGY shows how the main project outcomes and products will be disseminated and applied at a national level.

The main project outcomes and products are as follows:

- ✓ Sustainable academic network for sharing experience and exchange of good practices in the field of innovative educational technologies and didactic models;
- ✓ Concept of adapting the education system to the digital generation by taking into consideration the specific conditions of Kazakhstan;
- ✓ Centre for innovative educational technologies, active learning classrooms, virtual classrooms;
- ✓ Courses for trainers and lecturers for the acquisition of digital skills and innovative teaching and learning methods;
- ✓ Open educational resources and a Cloud-based virtual library of the digital educational resources.

For the dissemination and implementation of these main results and products of the project at the national level, the Ministry of Education and Science of the Republic of Kazakhstan and the three partner universities plan to do the following:

1. Sustainable academic network for sharing experience and exchange of good practices in the field of innovative educational technologies and didactic models

In the description of the project it is written that the network will initially comprise of project partner countries universities, but it will be open for other higher education institutions in the PCs to join at a later stage. It will continue functioning after the official project end, thus contributing to project impact and sustainability improvement.

1.1. With the assistance of the Ministry, the partner universities, using convenient opportunities, such as regional and national meetings, seminars, conferences, etc., will acquaint the attendees with the purpose and tasks of the academic network and will invite other universities to join it to use the accumulated from the Eurasian consortium experience and share their good practices.

1.2. A group in LinkedIn or other professional network of this academic network will be created, which will have a list and coordinates, incl. links to the websites of the



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universities that have wished to become its members, and in which they will be able to publish news in the field of IOT, share good practices, etc.

2. Concept of adapting the education system to the digital generation by taking into consideration the specific conditions of Kazakhstan

2.1. With the assistance of the Ministry, a paper version of the concept will be provided to the rectors of all universities in the country.

2.2. The concept will be published on the website of each of the partner universities to be available to all university professors in the country.

2.3. The concept will be presented and explained at national meetings of rectors, scientific sessions and conferences.

2.4. The concept will be disseminated through social networks.

3. Center for innovative educational technologies, active learning classrooms, virtual classrooms

3.1. The Ministry will also recommend other universities in the country to set up similar centres for innovative educational technologies and active learning classrooms.

3.2. Photos of the centre and the classrooms will be published on the website of each of the partner universities, as well as on social networks.

3.3. The centre and the rooms will be shown to guests from other universities.

3.4. The centre and the rooms will be presented at scientific sessions and conferences.

3.5. The experience of partner universities in the use of virtual classrooms for synchronous distance learning will be disseminated through publications at conferences and journals.

4. Courses for trainers and lecturers for the acquisition of digital skills and innovative teaching and learning methods

4.1. The syllabus of these courses, the handbook to innovative educational technologies, presentations and video lectures on the main topics of the program will be published in a public virtual library in Russian and English.

4.2. The address of this virtual library will be sent with the assistance of the Ministry to all universities in the country with a recommendation to be forwarded to all teachers working in them.

4.3. The address of the virtual library will be published in social networks.

4.4. The trained trainers, as well as lecturers from the partner universities will organize similar courses at other universities in the country.



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5. Open educational resources and a Cloud-based virtual library of the digital educational resources

5.1. With the assistance of the Ministry, the instructions developed under the project for:

- creating web-based courses;
- composing presentations adapted for interactive presentation systems;
- recording video lectures;
- creating interactive-multimedia teaching materials;
- creating virtual laboratories, etc.

will be provided to other universities in the country.

5.2. Lecturers from other universities will be given the opportunity to enter the Cloud-based virtual library created under the project and view the Open educational resources published in them, so that they can use them as models.

5.3. At seminars, sessions and conferences, the creators of these virtual library and educational resources will pass on their experience to their colleagues from other universities.

By disseminating and applying the main outcomes and products at a national level the project will help turn the universities in Kazakhstan into innovative universities and to improve the quality of the trained specialists necessary to perform the Digital Transformation of Industries (Industry 4.0).