

Memorandum of Understanding and Cooperation

between

the Central Asian Institute for Applied Earth Research,

the Institute of Seismology of the MES of the Republic of Kazakhstan,

and

LLP “I2NIK”,

and

the Center for Emergency Situations and Disaster Risk Reduction

(hereinafter referred to as the “Parties”)

Pursuant to the Decision of the Tenth Meeting of the Council of the Center for Emergency Situations and Disaster Risk Reduction dated 8 October 2021 on the conclusion of a quadrilateral memorandum between the Central Asian Institute for Applied Earth Research, LLP “Institute of Seismology” of the Ministry for Emergency Situations of the Republic of Kazakhstan, LLP “2NIK”, and the Center for Emergency Situations and Disaster Risk Reduction,

taking into account that the Parties,

have decided to conclude this Memorandum of Understanding and Cooperation (*hereinafter referred to as the “Memorandum”*) for the purpose of promoting, facilitating, and strengthening international cooperation in the field of disaster risk reduction and emergency situations, and have authorized the management of the Parties to sign this Memorandum,

have agreed as follows:

Article 1

The purpose of this Memorandum is to establish effective relations between the Parties based on equality and mutual benefit, to strengthen the capacities of the Parties in the field of

disaster risk reduction and emergency situations, and to ensure the practical implementation of joint activities of mutual interest.

The main objectives of this cooperation are to create favorable conditions for the exchange of professional experience, scientific and applied developments, information and technologies, as well as to organize joint research and development activities within the framework of implementing measures for the integration of earthquake early warning systems of the Republic of Kazakhstan and the Kyrgyz Republic.

Article 2

Subject to and depending on the availability of funds and resources, within the framework of the implementation of this Memorandum, the Parties have identified the following main areas of cooperation:

- a) consolidation of joint efforts to establish an earthquake early warning system for the Republic of Kazakhstan and the Kyrgyz Republic through the integration of existing national seismic monitoring systems;
- b) adoption of necessary measures for regional expansion and integration into a unified data exchange network of other types of monitoring sensors for the condition of moraine lakes, dams, bridges, and other infrastructure facilities;
- c) enhancement of digital capacity to ensure readiness for receiving and transmitting input data from existing sensors as well as sensors to be installed across Central Asia in the future;
- d) development of modern information and communication systems in the field of disaster risk reduction;
- e) development, improvement, and practical implementation of methodological and regulatory materials, unified terminology, standardized formats and systems for the receipt, collection, processing, storage, protection, analysis, and exchange of information;
- f) study of opportunities and approaches for the introduction of automated shutdown of critical infrastructure elements from electricity, gas, and hot water supply in the event of emergency situations in the Republic of Kazakhstan and the Kyrgyz Republic;

- g) updating assessments of fundamental risk factors of large-scale, transboundary disasters at the regional level and determining possible socio-economic consequences in the event of their occurrence.

Article 3

By mutual consent of the Parties, third-party organizations and individuals may be involved in joint activities within the framework of this Memorandum. New participants sharing the objectives of this Memorandum may also accede to this Memorandum.

Article 4

The Parties consider this Memorandum as a declaration of voluntary intentions that does not entail any legal or financial obligations related to the implementation of joint activities.

The Parties proceed from the understanding that no actions undertaken within the framework of this Memorandum shall infringe upon the powers and rights of any of the Parties.

Article 5

Any amendments and/or changes to this Memorandum shall require the written consent of the Parties and shall be attached to this document.

Article 6

This Memorandum is drawn up in four copies in the Russian language, one copy for each Party.

Article 7

This Memorandum shall enter into force on the date of its signing by all Parties and shall remain valid for a period of five years. Upon expiration of this period, the Memorandum shall be automatically extended for the next five-year period unless the Parties decide otherwise.

This Memorandum may be amended or supplemented by mutual consent of the Parties. Any Party may withdraw from this Memorandum by providing written notice to all Parties no later than 90 days prior to withdrawal.

If, at the time of termination of this Memorandum, work is being carried out under any program or project within the framework of an additional memorandum concluded as part of this Memorandum, all such work shall be completed regardless of the date of termination of this Memorandum. All Parties shall make every effort to ensure this.

**Center for Emergency Situations and
Disaster Risk Reduction**

Deputy Director

S. Aubakirov

December 22, 2021

**Central Asian Institute of Applied Earth
Research**

Co-director

B. Moldobekov

December 22, 2021

**Institute of Seismology LLP of the MES
of the Republic of Kazakhstan**

Director

D. Suleev December 22, 2021

I2NIK LLP

Director

A. Uyzbayev December 22, 2021