

Progress Report of ICL Network

1. Title of Network

ICL Landslide Monitoring and Warning Network (LaMaWa TheN)

2. Name of Coordinator (Affiliation and email)

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3. List of member organizations

Charles University, Faculty of Science, Department of Physical Geography and Geoecology, Czech Republic

Comenius University, Faculty of Natural Sciences, Department of Engineering Geology, Bratislava, Slovakia

Croatian Landslide Group from Faculty of Civil Engineering, University of Rijeka, Croatia & Faculty of Mining, Geology and Petroleum Engineering, University of Zagreb, Croatia

Forestry and Forest Product Research Institute, Tsukuba, Japan

Gadjah Mada University, Faculty of Engineering, Department of Civil and Environmental Engineering, Yogyakarta, Indonesia

Geological Survey of Slovenia, Ljubljana, Slovenia

Geo-Tools, NGO, Zdiby, Czech Republic

Kokusai Kogyo Co., Ltd., Tokyo, Japan

Public Works Department of Malaysia, Slope Engineering Branch, Kuala Lumpur, Malaysia

University of Florence, Department of Earth Sciences, Italy

University of Ljubljana, Faculty of Civil and Geodetic Engineering, Ljubljana, Slovenia

University of Niigata, Research Center for Natural Hazards & Disaster Recovery, Niigata, Japan

4. Progress report of activities

The numerous cooperation within the Landslide Monitoring and Warning Network were established, but no overall Network activity, such as a thematic conference, workshop, or meeting, was accomplished in 2015. The high number of the Network members at the same time represents strength and the weakness of the

Network: a strength in the high number of scientists involved in landslide monitoring techniques and early warning methods; a weakness in differences in a wide range of landslide monitoring techniques and different research interests of the Network members. The members of the Network were very active in presenting their activities at scientific conferences, congresses, and workshops around the world, where the topics of the Network had an important role in landslide science.

The Landslide Monitoring and Warning Network Coordinators prepared the action plan to intensify the activity and to establish real network cooperation in the frame of ICL. The main activities encompassed in the action plan were the following:

- 1.Preparation the Questionnaire that will be sent to all ICL member organizations (not only to Network members organizations) related to the monitoring and early warning of landslides. The Questionnaire contains the following questions: landslide(s) with established monitoring and/or early warning system, position of landslide(s), monitoring technique (geotechnical, geodetical, remote sensing), used monitoring equipment, website (if exists), project (if it is part of a project), related papers and reports.

- 2.Establishing the Landslide Monitoring Database. The Landslide Monitoring Database will be established based on results Questionnaire. The Landslide Monitoring Database will be uploaded to the ICL IPL web and will consist of i) Landslide Monitoring web map; ii) Landslide monitoring descriptions and iii) Landslide monitoring related documents (reports, description of equipment, etc.). The Landslide Monitoring web map will be linked to landslide monitoring system descriptions; websites of particular monitoring systems (if they exist); websites of the project related to landslide monitoring systems (if they exist) and to landslide monitoring-related documents. Landslide monitoring descriptions will be linked to websites of particular monitoring systems (if they exist); websites of the project related to landslide monitoring systems (if they exist), to landslide monitoring-related documents and to the websites of the monitoring equipment industry.

- 3.Establishing the Landslide Monitoring-related papers database. The Landslide Monitoring related papers database will collect all papers related to existing Landslides Monitoring systems in the Database in the form of full-text papers from Landslides Journal and WLF1 to WLF36, and link to the other journals, conference proceedings, websites and books.

- 4.Preparation of the Landslide Monitoring brochure with presentation of the proposed Landslide Monitoring Database.

- 5.Invitations of scientists and researcher from ICL and non-ICL organizations to contribute to the WLF with manuscripts in the field of landslide monitoring and early warning system sections.

The action plan was presented to the Landslide Monitoring and Warning Network members but it was never begun to live in the praxis. The action plan was too ambitious that would be put in action without the activation of larger number of ICL members. In the same time, coordinators took additional obligations in ICL (as President, Vice-Presidents, in GPC, etc), which would complete the action plan. The activity of the Network

Therefore, the activity has decreased to individual activities of Network members and others active in the landslide monitoring field.

5. Plan of future activities

The activities would follow the previously described extended action plan to intensify the activity and to establish real network cooperation in the frame of ICL Landslide Monitoring and Warning Network

1.Distribution of Questionnaire related to the monitoring and early warning of landslides and data collection with invitation to ICL members to join the Network and revive Network activities.

2.Invite the teams from active IPL Projects with the topics in landslide monitoring to join and contribute to ICL Landslide Monitoring and Warning Network.

3.Invite younger ICL landslide scientist to include in the Network activities as the new coordinators who will lead the Network in the future.

4.Data processing and preparation for establishing of the Landslide Monitoring Database and Landslide Monitoring related papers database.

5.Establishing the Landslide Monitoring Database and Landslide Monitoring and Warning-related papers database

6.Preparation of Landslide Monitoring brochure.

7.Invitations of scientists and researchers from ICL and non-ICL organizations to contribute to the WLF7 in Faridabad in India in November 2026 and to open open-access book series Progress of Landslide Research and Technology.

8.Organization of the session in WLF7 in Faridabad in India in November 2026 related to new technologies in landslide monitoring and warning within the Theme 5: Progress in Landslide Science and Applications.

8.Organization of ICL Landslide Monitoring and Warning Network Meeting during the WLF7 in Faridabad in India in November 2026 to establish real network cooperation in the frame of ICL Landslide Monitoring and Warning Network.

6. Publication (ICL Journal Landslides, ICL Book Series, etc.)

The members of the Network were very active in the presentation of their activities in scientific journals (not only Landslides), and at scientific conferences, congresses, and workshops around the world. A huge number of manuscripts related to Network topics were published in the last decade.