

Application Form for World Centre of Excellence on Landslide Risk Reduction
2020-2023

1. Name of Organization: Asian Disaster Preparedness Center (ADPC)

2. Name of Leader: Mr. Hans Guttman
Affiliation: Executive Director
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Core members of the activities
 Mr. Aslam Perwaiz, Deputy Executive Director
 Dr. Peeranan Towashiraporn, Director, Geospatial Information
 Dr. Senaka Basnayake, Director, Climate Resilience
 Mr. Rahul Pandit, Director, ADPC Academy

3. Date of Submission of Application: 31 October 2019

4. Activity scale and targeted region.
 3) Continental (Asia and the Pacific)

5. Short Title (10 words maximum) characterizing past and planned activities
 Bridging Science, Policies, and Partnership for Landslide Risk Management

6. Objectives for the initial 3 years: (5 lines maximum; what you expect to accomplish?)
 Over the next 3 years, ADPC will continue to promote uses of science-based approaches in quantifying and mapping landslide hazard and risk for mitigation and preparedness planning as well as monitoring and forecasting landslide occurrences through satellite Earth observation and models for early warning and early actions. In addition, ADPC will demonstrate success by implementing pilot projects but also scale out and scale up the efforts through regional multi-stakeholder partnership.

7. Background Justification: (10 lines maximum)
 ADPC has been engaged in building landslide risk management capacity of the partner countries in Asia

for more than a decade. ADPC is experienced in facilitating an international network of landslide experts from countries in South and Southeast Asia called the RECLAIM Network (Regional Capacity Enhancement for Landslide Impact Mitigation), while implementing demonstration projects on landslide risk assessment, early warning, and risk management in more than 10 countries such as Bangladesh, China, India, Indonesia, Lao PDR, Nepal, Pakistan, Philippines, Vietnam, Sri Lanka, Myanmar and Thailand. The activities of ADPC will have an added value and recognition by becoming a World Center of Excellence.

8. Resources available for WCoE activities

The following resources, which are contribution from various ADPC projects, will be made available for WCoE activities.

Human Resources: time inputs from Dr. Peeranan Towashiraporn, Director of Geospatial Information, in coordinating WCoE activities.

Budget: ADPC has allocated budget under the project funded by the Norwegian Government to maintain the Regional Capacity Enhancement for Landslide Impact Mitigation (RECLAIM) network and to organize regional meetings of landslide risk management experts for sharing knowledge and lessons learned. In addition, ADPC's other projects such as the USAID-funded SERVIR-Mekong has activities planned on satellite-based landslide mapping that can contribute to WCoE.

9. Description of past activities related to risk reduction of landslides and other related earth system disasters (30 lines maximum)

ADPC has implemented under the Asian Program for Regional Capacity Enhancement for Landslide Impact Mitigation (RECLAIM) to promote landslide risk reduction activities in partner countries with the technical and financial support by the Government of Norway. The activities of the program included organizing regional and national level experience sharing workshops and training programs on landslide risk mitigation. To date, ADPC has organized 08 such Regional workshops in different partner countries annually. The RECLAIM regional meeting of experts will resume in 2020.

Currently, ADPC implements a project together with Institute for Global Environmental Strategies (IGES) in Myanmar and Lao PDR. The project assesses flood and landslide hazard and risk for at-risk areas of the 2 countries and develops a guideline for each of the governments to sustain the effort long term. The unique feature in this project is to incorporate climate change scenarios into the flood and

landslide hazard assessment, which will be useful for long term planning in the countries. The activities are being planned to scale out to other countries in Southeast Asia. At the same time, ADPC has another project in Itogon district, Benguet province of the Philippines, a landslide prone area. The project builds on existing landslide hazard and risk assessment in the Philippines and suggest ways to integrate social aspects such as gender and right-based approaches into the risk assessment. It is being piloted at the Itogon district, but can be scaled up to a larger area in the Philippines and scaled out to other countries.

Since 2017, ADPC implements a World Bank funded project titled The Community Landslide Risk Mitigation in Sri Lanka. The project supports the Government of Sri Lanka in undertaking a systematic approach to reducing the impacts of landslides. The project has been implemented in collaboration with the National Building Research Organization (NBRO), the mandated organization for landslide risk management in Sri Lanka. ADPC in partnership with the Norwegian Geotechnical Institute (NGI) is providing technical assistance to achieve the goals of the project. The project also helps the Government of Sri Lanka in unifying the efforts of all related government agencies and other stakeholders in landslide risk management to establish a comprehensive framework and an operational long-term action plan for landslide risk management in the country.

Lastly, also in Sri Lanka, ADPC completed a project supporting the NBRO on Nature Based Landslide Risk Management. The project successfully developed a guidance document for the Government of Sri Lanka to use nature-based approaches in mitigating landslide risk.

10. Planned future activities /Expected Results: (20 lines maximum; work phases and milestones)

In the next 3 years, the following activities will be carried out:

- Regional meetings of landslide risk management experts under the Regional Capacity Enhancement for Landslide Impact Mitigation (RECLAIM) network to promote landslide risk reduction activities in partner countries - The regional meeting is expected to resume in 2020. The theme of the meeting is under discussion. Results of the meeting can be in a form of an agreed mini project to be implemented in a pilot country as well as publications.
- A pilot work in partnership with NASA on landslide mapping – ADPC has been implementing the project SERVIR-Mekong since 2014, which promotes use of satellite technology in addressing disaster and climate change issues in the Lower Mekong. In 2020, ADPC will start a joint research work with NASA in utilizing satellite data and model to improve landslide hazard mapping and near-

real-time monitoring in the Lower Mekong. The research is expected to go on until 2022 where its results will improve how the Government of countries in the Lower Mekong will map landslides for managing the risk. This work will result in peer-reviewed publications.

11. Beneficiaries of WCoE: (5 lines maximum; who directly benefits from the work?)

The direct beneficiaries of ADPC initiated activities on landslide risk management will be the Government ministries, mandated institutions, academia, researchers and practitioners involved in landslide risk reduction activities in South and Southeast Asia. The indirect beneficiaries are the communities living in the landslide risk prone areas and the civil society at large.

12. References: 10 lines maximum, i.e. relevant publications, international/regional/national recognition supporting items 9-10.

- Asian Disaster Preparedness Centre (2018) TXT-tool 4.066-1.1: **Community-Based Landslide Risk Management Approaches**. In: Sassa K., Tiwari B., Liu KF., McSaveney M., Strom A., Setiawan H. (eds) *Landslide Dynamics: ISDR-ICL Landslide Interactive Teaching Tools*. Springer, Cham https://link.springer.com/chapter/10.1007/978-3-319-57777-7_39
- Towashiraporn P., Arambepola N.M.S.I. (2017) **Interventions for Promoting Knowledge, Innovations and Landslide Risk Management Practices Within South and Southeast Asia (WCoE 2014–2017)**. In: Sassa K., Mikoš M., Yin Y. (eds) *Advancing Culture of Living with Landslides*. WLF 2017. Springer, Cham https://link.springer.com/chapter/10.1007/978-3-319-59469-9_29
- Asian Disaster Preparedness Center (2017) PPT-tool 4.066-1.1: **Course of Landslide Disaster Risk Reduction for Local Government Level Stakeholders**. In: Sassa K., Mikoš M., Yin Y. (eds) *Advancing Culture of Living with Landslides: Volume 1 ISDR-ICL Sendai Partnerships 2015-2025*. Springer

13. If your organization is an ongoing WCoE 2014-2017, please attach the articles reporting activities of WCoE, IPL project and ICL network published/contributed to either in *Landslides: Journal of International Consortium on Landslides* or/and the Fourth World Landslide Forum 2017. ADPC is not an ongoing WCoE 2014-2017.

14. List of published or planned reports of WCOE 2017-2020 in journal “Landslides” or “WLF5 books” for ongoing WCOE organization.

(Those organizations with no activity report/no achievement in WCOE 2017-2020 will not be accepted as the candidate of WCOE 2020-2023 to be submitted to the Independent Panel of Experts for WCOEs.)

[ADPC is not an ongoing WCoE 2014-2017.](#)

Note: Please fill and submit this form **by 31 October 2019** to ICL secretariat <secretariat@iclhq.org>