

IPL Project-191 Progress Report Form 2016

1 January 2016 to 31 December 2016

1. Project Title **Landslide hazard zonation in Carpathian region of Ukraine using GIS**
2. Main Project Fields
 - (1) **Technology Development**
 - B. Hazard Mapping**
3. Name of Project leader **Oleksandr M. Trofymchuk, Grand Ph.D., Professor, Corresponding member of National Academy of Sciences of Ukraine**

Affiliation: (Director, Institute of Telecommunications and Global Information Space of National Academy of Sciences of Ukraine) and Contact: (13, Chokolivsky Blvd., Kyiv, 03186, Ukraine, Tel. +38044 245 8797; Fax : +38 044 245 8838; e-mail: itelua@kv.ukrtel.net)

Core members of the Project: Names/Affiliations: (Iurii Kalyukh, Grand Ph.D., Professor, Deputy Manager of Department, Ukrainian State Research Institute of Building Constructions; Evgenii Yakovlev, Grand Ph.D., Professor, Chief Researcher, Institute of Telecommunications and Global Information Space of National Academy of Sciences of Ukraine; Viktoriia Berchun, Scientific Researcher, Institute of Telecommunications and Global Information Space of National Academy of Sciences of Ukraine)
4. Objectives: (The main goal is to develop the instrument for landslide hazard forecasting with the purpose of minimizing an impact of landslide activation on people and tangible objects including constructions, transportation services, pipelines etc. Objectives: to determine the landslide- hazardous slopes over Carpathian region of Ukraine; to develop a database containing the engineering-geological information relevant to descriptors (passports) of landslide sites; to develop targeted GIS on landslides in Carpathian region.)
5. Study Area: (Input data will be collected in Carpathian region. Data systematization, analysis, processing, and development of targeted GIS will be carried out.)
6. Project Duration (January, 2015 – December 2017)
7. **Report**
 - 1) Progress in the project: (Database development was finished. Development of targeted GIS has processed yet.)

- 2) Planned future activities or Statement of completion of the Project (**We plan in 2016 next activities on the project: to finish database development; to conduct development of targeted GIS.**)
Beneficiaries of Project for Science, Education and/or Society (**Carpathian local authorities including Ivano-Frankovsk, Lvov, Uzgorod and Chernivci Regional State Administration; District State Administrations; Ministry of Environmental Protection and its Regional Branch in Carpathian area; Institutions of National Academy of Sciences of Ukraine; Environmental NGOs.**)
- 3) Results: (15 line maximum, e.g. publications)
- Trofymchuk O. **Regional Features of the Carpathian region landslides in Ukraine / O. Trofymchuk, I. Kaliukh, O. Klimenkov // IPL Symposium, Kyoto, 8-11 March, 2016. - [s.l. : s.n.], 2016. – P.30.**
 - Farenjuk G., Marienkov M., Kaliukh I., Farenjuk E., Marienkov A., Kaliukh T. (2016) **Experimental and theoretical assessment of structural health of existing reinforced concrete retaining walls under low frequency dynamic loading Proceedings. Extended abstracts and keynotes of the fib symposium 2016 “Performance-based approaches for concrete structures” November 21-23, 2016. Cape Town. South Africa: 545-546.**
 - Trofymchuk O., Kaliukh I., Berchun V. (2017) **Landslide stabilization in building practice: methodology and case study from Autonomic Republic of Crimea. Proceedings of the WLF4. Springer-Verlag, Berlin, Germany. pp.(*in publication*).**

Note:

- 1) If you will change items 1)-6) from the proposal, please write the revised content **in Red**.
- 2) Please fill and submit this form by **1 February 2017** to **ICL Network** <icl-network@iclhq.org>