Introduction to ICL Landslide Teaching Toolbox

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ICL obtained ODA (Official Development Assistance) funds to support UNESCO activities to promote Education, Science, and Culture by non-governmental organziations. The application was requested by the Director-General's office for International Affairs of the Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. The target of this budget was Asia and the Pacific area. The ICL Strategic Plan for 2012-2021 indicates a need to develop teaching materials for use in developing countries. Therefore, ICL has compiled these landslide teaching tools including original texts made for this purpose, pdfs of already published documents, and Powerpoint® presentations (.ppt) for lectures. ICL called for contributions from ICL members in Asia such as Indonesia, Thailand, India, Malaysia, Iran, Vietnam, as well as Japan and New Zealand (for English review). An inaugural meeting was held at UNITWIN headquarters in Kyoto University's Uji-campus in June 2012. The concept and outline of the teaching tools gradually emerged and consolidated at a series of meeting in October (Kyoto), November (UNESCO, Paris), January and February 2013 (UNITWIN headquarters, Kyoto). Some members from developed countries (Croatia, Italy, and Chinese Taipei) also contributed tools. The first edition of these teaching tools are presented in this 480 page full-color Toolbox which includes a CD of .pdf files of guidelines, laws, published papers and Powerpoints® for lectures.

An outline of the teaching tools in the 1st edition of the Landslide Teaching Toolbox is presented below.

Copyright and Responsibility for each teaching tool.

ICL called for contributions and compiled the accepted teaching tools. Copyright and responsibility for the content of each tool lies with its contributing organization. Each tool may be updated by the contributing organization.

The Teaching Toolbox contains five parts:

1. Mapping and Site Prediction
2. Monitoring and Early warning
3. Testing and Numerical Simulation

4. Risk Management and Others
5. Country Practices and Case Studies

The Teaching Toolbox contains three types of tools.

1. The first type are TXT-tools consisting of original texts with figures.
2. The second type are PDF-tools consisting of already published reference papers, manuals, guidelines, laws, codes and others. They are on the accompanying CD as .pdf files.
3. The third type are PPT-tools consisting of Powerpoint® files made for lectures. They are on the accompanying CD as .ppt files.

This book of the TXT-tools also includes an appendix of abstracts for the PDF-tools and PPT-tools.

Identifiers used for each tool

The identifier of each tool consists of three parts:

1. the number of the part of the tool box in which it appears (Parts 1 to 5);
2. the country telephone code and an assigned unique number for each contributing organization (for example 081-1 signifies Japan-ICL headquarters, and 081-3 signifies Japan- Erosion and Sediment Control Department, Ministry of Land, Infrastructure, Transport and Tourism);
3. the last part of the identifier is a consecutive number assigned to the teaching tool by its contributing organization.

Example teaching tools

TXT-tool 1.886-1.1 Landslide Susceptibility Mapping

- Appears in Part 1, contributed from Chinese Taipei (886), by the National Taiwan University (1), and is their TXT-tool number 1.

PDF-tool 3.081-1.2 Manual of integrated computer simulation programme “LS-RAPID”

- Appears in Part 3, contributed from Japan (081), by ICL Headquarters and is their PDF-tool number 2

PPT-tool 4.039-1.1 Definition & Use of Empirical Rainfall Thresholds for Possible Landslide Occurrence

- Appears in Part 4, contributed from Italy (039), by the National Research

Council CNR-IRPI, and is their PPT-tool number 1

Planned updates of the Teaching Toolbox

The first edition of the Teaching Toolbox will be circulated to ICL members and ICL supporting members as well as the contributing organizations listed below. ICL will call for modifications, updates and new contributions from members. During the ICL Board of Representative meetings on 18-22 November 2013, an update of the 1st edition will be discussed. A 2nd edition of the toolbox is planned for 2014 in time for World Landslide Forum 3 on 2-6 June 2014 in Beijing, China.

List of contributing organizations with identifier number and email of leader

039-1 Istituto di Ricerca per al Protezione Idrogeologica, CNR, Italy
Email: Fausto GUZZETTI <F.Guzzetti@irpi.cnr.it>

062-1 Department of Geological Engineering, Universitas Gadjah Mada,Indonesia
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064-1 GNS Science, New Zealand
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066-1 Asian Disaster Preparedness Center (ADPC),Thailand
Email: NMSI ARAMBEPOLA< arambepola@adpc.net>

081-1 ICL Headquarters, Japan
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081-2 Tohoku Gakuin University, Japan
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081-3 Erosion and Sediment Control Department, Ministry of Land, Infrastructure, Transport and Tourism (MLIT), Japan

084-1 VNU University of Science, Vietnam
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385-1 Croatian Landslide Group from Faculty of Civil Engineering, Rijeka University and Faculty of Mining, Geology and Petroleum Engineering, University of Zagreb
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Content of Book

Appendix: Abstracts of PDF and PPT tools

Part 1. Mapping and Site Prediction

Part 2. Monitoring and Early Warning

Part 3. Testing and Numerical Simulation

Part 4. Risk Management and Others