

## **ISPRS Capacity Building for High-Resolution Land Cover Inter-comparison and Validation Workshops**

The project "Capacity Building for High-Resolution Land Cover Inter-comparison and Validation", involving ISPRS WG IV/4 and ICWG IV/III, was started in February 2018 as one of the ISPRS Education and Capacity Building Initiatives 2018. The project aims at developing computer aided educational material on the inter-comparison and validation of global Land Cover (LC) maps, which represent fundamental resources to address a variety of societal needs and to measure, monitor and manage the sustainable development, as defined by the United Nation's Sustainable Development Goals (SDGs).

After a thorough review on the state of the art of the available educational material on LC maps intercomparison and validation and of the needs and requirements for LC maps validation, two hands-on workshops were given: the first on September 1, 2018 at the World Bank in Dar es Salaam, Tanzania (in conjunction with the FOSS4G 2018 conference); the second on September 3, 2018 at the Regional Centre for Mapping of Resources for Development (RCMRD) in Nairobi, Kenya. The two workshops, run by representatives of the project's Principal Investigators - Politecnico di Milano (Italy) and the National Geomatics Center of China (China) - were attended by a total of 60 people with a background in GIS and Remote Sensing, distributed among students, GIS analysts and developers, professionals and public employees.

Participants were first given an introduction on LC maps and their importance for the assessment of SDGs; this was followed by a presentation of GlobeLand30 (GL30), the first global LC map at 30m resolution, and its online platform for the visualization, analysis and validation of the LC data. The Land Cover Collector application, which allows to collect and classify LC data, was then presented to the participants; finally, a hand-on session was provided, showing a procedure for LC map validation based on QGIS and PyQGIS. In addition to the use of Free and Open Source Software (FOSS), the materials are released under a Creative Commons Attribution 3.0 License (CC BY 3.0). The next workshop will be given during the ISPRS TC IV Symposium 2018, held in Delft (The Netherlands) in October 1-5, 2018.



Participants of the Workshop in Dar Es Salaam (Tanzania), 1 September 2018



Participants of the Workshop in Nairobi (Kenya), 3 September 2018

## References

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Bratic G., Brovelli M.A. and Molinari M.E. (2018) A Free and Open Source Tool to Assess the Accuracy of Land Cover Maps: Implementation and Application to Lombardy Region (Italy). *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume XLII-3, 87-92. doi:10.5194/isprs-archives-XLII-3-87-2018