HLANDATA – HARMONIZATION OF LAND USE AND LAND COVER DATA

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Abstract

Digital information on Land Use and Land Cover has been managed on national, regional and/or local level which results in a suite of datasets that are not always compatible to each other. Anyway, in a context where environmental threats such as climate change, biodiversity loss, and food security become more and more global, there is a need for integration of various sources of information at different scales. HLANDATA will contribute to the harmonization process of these data and will demonstrate its validity for any of their possible uses and users through the development of user oriented value-added services. The result will be a valid data harmonization model for the Land Cover and Land Use datasets which takes into account the data categorization, data models and the end users' specificities. In order to achieve this objective, three pilot projects will be implemented in different application areas and will validate the proposed harmonization methodology: PILOT 1: Land Use and Land Cover Data Analysis System PILOT 2: Harmonized and Interoperable Land Information System PILOT 3: Stratification of waste dumps The paper focuses on the second pilot of HLANDATA as it is carried out in the Czech Republic. In the Czech Republic, land cover/land use related information are collected partly and managed for dedicated domains (e.g. forestry, water, agriculture) by a number of national organizations. The pilot project in the Czech Republic aims to implement a national land information system based on integration of harmonized European, national and regional sources of data that is relevant to land cover and land use 'themes'. Supported by the current activities of INSPIRE as well as the achievements in the GMES area, the national land information system will demonstrate its practical implementation, allowing data sharing between the individual actors through network services.

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