Search Path Towards the Era of Crowdsourcing and Big Data Management

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SUMMARY

Geographic Information Systems (GIS) are designed to correlate data concerning the territory around the planet; make this information easy to view, analyze and share. The use of Big Data in this field has become so widespread as to constitute a modern science that, while offering new and unique opportunities, pushes for incessant research, involves challenges and raises many technical, social and educational questions that require increasingly updated solutions.

This publication investigates news exploitation, development and use methodologies of VGI derived information to various geographic and social scientific disciplines that make use of mapping, GIS, SIM and SDI systems and procedures.

It presents methods (academic, professional, corporate, etc.) valid to ensure the correctness of the data and its proper use by citizens. Crowdsourcing and Volunteered Geographic Information (VGI), are increasingly active to provide input and stimulate action.

It focuses on possible answers to the scientific and theoretical questions on how we can fill the resulting gap to the processing of large amounts of spatial and environmental information to quality data and exact knowledge. Moreover, it explores ideas and methods on how we can engage citizens through crowdsourcing (which together with VGI paradigms are increasingly active to provide input and stimulate action) within new reliable models of collaboration.

We wanted the publication of a text to document the synthesis and reasoning of the research resulting from the work of many delegates over the years from 2011 to the present.

Work carried out laudably by the 3 chairs (Prof. Chryssy Potsiou, Prof. Yerach Doytsher and

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myself) and the vice chairs of the working groups and in particular by Prof. Sagi Dalyot who followed the question of Crowdsourcing more directly.

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