

Network analyses for participatory evaluation of capacity development on sustainable sanitation, by Franquesa, David and Amengual Morro, Caterina

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ABSTRACT

Graph database models to assess the advance of stakeholders in the Millennium Development Goal target 7 on sanitation

Implementation of Millennium Development Goals (MDG) on 2015 is nowadays a common effort and to achieve them it's necessary to introduce the sustainability in the process. The MDG target 7 on sanitation (half the proportion of people without access to sustainable sanitation on 2020) it's crucial for the achievement of all the other. To provide the world sustainable sanitation solution enormous efforts in capacity development are need. The efficient use of information management systems (IMS) should improve the achievement of the MDG. The increasing number of huge networks such as the Internet, geographical systems and social network databases has brought the need to manage information with inherent graph-like nature. The interest for analyzing the interrelation between the entities in these networks is rapidly increasing, forcing the creation of IMS that are able to perform graph-oriented operations efficiently. Advantages of the system compared to relational databases are link analysis, social network analysis, pattern recognition and keyword search. We present a technology based on graph database models that would bring the possibility to analyze the relationships within a group of stakeholders and the environment. A better evaluation on the complex relation between stakeholders involved in the process can contribute to guess better the outputs and outcomes related to the objectives.