Linked Open Data in Public Institutions: Lower Silesia (Poland) Case Study

Anna Lamek[1]✉

[1] *Wroclaw University of Science and Technology, Poland*

Abstract

The concept of Linked Open Data (LOD) is one of the most practical and useful forms of organizing and publishing data. This approach consists in sharing data in an open and linked way, which allows them to be analyzed by public institutions, citizens, and the private sector. The practical implementation of LOD in public administration can lead to increased data credibility and transparency, support for the decision-making process, improvement of the quality of public services and better management of these entities, even in crisis situations. The article covers key theoretical aspects and practical use of Linked Open Data in public institutions, especially on the example of Polish Lower Silesia region. Technological and organizational aspects were considered, as well as an analysis of case studies from Poland, aimed at assessing the level of advancement in sharing data in an open and linked way. This study is based on rich literature on the subject, considering scientific research, government reports and legal regulations. The aim of the article was to review the level of advancement of the linked open data (LOD) concept in public institutions, especially in the context of the possibility of using it in management and decision-making process based on the example of Lower Silesia (Poland) organizations. This research is also a case study of what kind of open data is available and what can be used by users: citizens, commercial companies, and public organizations. Moreover, this work places the level of advancement of Lower Silesia institutions on the famous Tim Berners Lee's scale and compares the obtained results. For the first time, the level of advancement of the linked open data concept in Polish public institutions was evaluated, which may improve the results in institutions already using this idea but also encourage them to develop the network of linked data resources.

Keywords

Linked open data, Management, Decision making, Big data, Data analysis, Public institutions, Semantic web

Current status of the research is: Accepted, but not published online

Potential collaboration with Authors

IT development in education, innovative education models