



The visualization and availability of experimental research data at Elsevier

Bethan Keall

Elsevier Ltd., London, United Kingdom (b.keall@elsevier.com)

In the digital age, the visualization and availability of experimental research data is an increasingly prominent aspect of the research process and of the scientific output that researchers generate. We expect that the importance of data will continue to grow, driven by technological advancements, requirements from funding bodies to make research data available, and a developing research data infrastructure that is supported by data repositories, science publishers, and other stakeholders.

Elsevier is actively contributing to these efforts, for example by setting up bidirectional links between online articles on ScienceDirect and relevant data sets on trusted data repositories. A key aspect of Elsevier's "Article of the Future" program, these links enrich the online article and make it easier for researchers to find relevant data and articles and help place data in the right context for re-use. Recently, we have set up such links with some of the leading data repositories in Earth Sciences, including the British Geological Survey, Integrated Earth Data Applications, the UK Natural Environment Research Council, and the Oak Ridge National Laboratory DAAC. Building on these links, Elsevier has also developed a number of data integration and visualization tools, such as an interactive map viewer that displays the locations of relevant data from PANGAEA next to articles on ScienceDirect.

In this presentation we will give an overview of these and other capabilities of the Article of the Future, focusing on how they help advance communication of research in the digital age.