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A demonstrator of enhanced publications using OAI-ORE

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Summary

Researchers have discovered the new possibilities of the Internet and want to provide readers of their publications with additional online resources such as research data or visualizations. They are able to do so by adding hyperlinks to their text, footnotes and references. Because these additional resources help interpret and verify their results and improve the discovery and reuse of their research data these additional resources should be provided in a standardized and durable manner. That will encourage the development of services for better access, presentation, discovery and preservation. Data Archiving & Networked Services (DANS), SURFfoundation and DRIVER II have identified this concept called enhanced publications as an important next step in scholarly communication.

Although enhanced publications are not new, they are rather unknown. Researchers are not interested in them if they don't get rewarded for the extra efforts and the repository community has many challenges before standardized and durable enhanced publications can be supported. DANS and the department of Research Information from the Royal Academy of Arts and Sciences (KNAW) have built a demonstrator to support discussion about the opportunities and the challenges. It is built using Open Standards such as OAI-ORE, RDF, URN, DAI (digital author identifier), INFO-URI and XSLT. The result demonstrates that these components can be easily combined to create the technical basis for permanent access to enhanced publications. It also shows the need for additional well-defined transparent policies regarding the implementation of enhanced publications and the durability of (access to) scientific resources. This presentation will give a technical perspective on the demonstrator, the opportunities and the challenges.

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