Impact and visibility to the Scientia repository: technical implementations.

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Abstract:

Introduction:
Scientia institutional repository was created by Government agreement as a open access digital platform for to scientific literature produced by professionals Catalonian health system. One of the goals of Scientia is to maximize the visibility and impact of the scientific and technical open access literature produced by institutions and centers of the public health system towards society. The object of this work is to analyze the technical implementation of two new tools: the implementation of an API (application programming interface) that allows the automatic inclusion of descriptors in English and Spanish in the registers and a statistical module to facilitate quantify the visibility and impact of research on social networks.

Methods:
To increase the quality of the description of the documents have been incorporated into the description of the records controlled terms MeSH (Medical Subject Headings) in English, and DeCS (Descriptores en Ciencias de la Salud) in Spanish. To automate its introduction in records, and control and update the descriptors have been integrated two APIs, which allow you to select each vocabulary term more appropriate to the description of the document.
To quantify the research's visibility and impact on social networks from the documents deposited Scientia has been implemented Almetrics.com a tool that measures the social impact.

Results:
With these implementations Scientia aims to improve the quality of the description of the documents. The implementation of an automated MeSH and DeCS terms eliminates ambiguities in the terms, relationships incorrect or typographical errors and the automatic update vocabularies and the document can be searched and recovered in different languages. Incorporating altmetrics facilitates the analysis and quantify the impact of "social media" on the scientific activity deposited in Scientia, always updated data and providing a more global concept of the impact of publications.

Conclusions:
Open access and the digital revolution has transformed the way of accessing and disseminating the scientific research. Controlled vocabularies in English, Spanish and Catalan

facilitate the dissemination worldwide of documents deposited in the repository and the registers can be recovered in more than one language.
The paradigm of scientific communication has changed considerably, and for this reason repositories are increasingly looking to achieve excellence not only in content but also in the diffusion.

Keywords: Webometrics / Quantitative research / Medical Subject Headings / Controlled vocabularies / Open Access / Institutional Repositories