Editing science: issues for achieving formal uniformity and academic criteria in the current context of Open Science

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Abstract: During my experience as researcher and technical editor in ClassicaDigitalia/IUC (University of Coimbra) for academic publishing and open science, it was possible to identify several difficulties regarding projects of 'Open Science', which concern to different levels of management such as budgets, technical and humans resources, uniformization of texts, proof reviewing, peer review and scientific criteria and quality. We intend to present some examples of the impact of these issues in development and results of editorial and research projects. At same time, and considering science and knowledge management, we aim to put in perspective technical and scientific challenges regarding academic publishing for the divulgation of science, and to analyze some ways of transforming those challenges into proposals of improvement regarding editorial quality and efficiency. For that matter, our argument considers institutional synergies, human resources, budgets, perspectives/expectations of researchers and authors, editorial boards, public institutions enrolled in publishing science and data sharing.

In this sense, the presentation is divided in five sections. In the first section we briefly present the goals of publishing science and the potential impact of open source materials for the improvement of research and public interest in science. Then, we discuss the quality criteria for publishing and the impact of the available resources for its definition. In the third section, the main problems with peer review and proof reading are exposed and some proposals for improving that process are made, regarding its ideal goals as a contrast with its real results. The technical procedures of editing and publishing of *Classica Digitalia* (CECH/IEC) are presented in the section four, together with some proposals for integrating the editorial process and quality filters with academic teaching on Digital Humanities. Finally, in the last section, we summarize the goals of publishing science as open source and the main aspects that must be improved in order to get its full potential and achieve real impact on scientific development, general knowledge and social progress in a long term.