

An architecture proposal for the integration of digital repositories and CRIS systems in the context of an informational cyberinfrastructure for research: summary in progress

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Despite the importance of institutional repositories (IR) and data repositories (e-repositories) as an essential part of today's global information infrastructure for research, the data models of these systems can't support the complexity and diversity of information needed for comprehensive management of research environments. Furthermore, governments, research institutions and funding agencies are deploying more sophisticated systems known collectively by CRIS (Current Research Information System), aimed to manage the large amount of metadata about entities involved in research activities - such as projects, researchers, funding, publications, patents, laboratories, equipment, curricula etc. -, as well as the relationships and information flows that are established between them. In this scenario, a major challenge that arises is the integration and the synchronization of CRIS, institutional repositories (IRs) and data repositories (DRs) in order to increase the range of applications and services that such systems can perform in administrative and academic scope. In this sense, the objective of this study was to analyze the standards and technologies that make possible the interoperability of these systems in the context of a research cyberinfrastructure, using as methodology the published literature in the area. As a result, and also as a starting point for further discussion, an integrated architecture was proposed to synchronize the information flows of a CRIS system based on the european standard called Common European Research Information Format (CERIF), IR based on Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH), data repository and others administrative and academic systems, internal and external to a research institution. The architecture for interoperability can be viewed

in the figure 1. To know about this work, the reference below must be consulted.

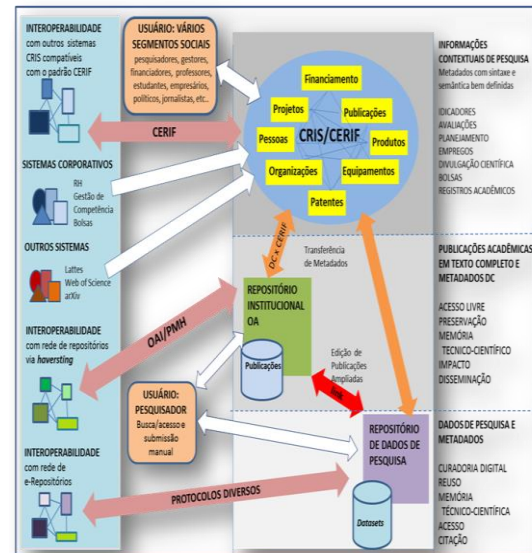


Figure 1. Interoperability model IR X DR X CRIS

References

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