# Research Data Management as a way to the knowledge preservation

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The recognition of the informational potential of research data for contemporary science transforms the view that characterized them as simple by-products of research processes. In that context, the data was considered only in its final configuration, without considering the flows, versions and lineages and, as a rule, were discarded or stored in media or in computer servers without proper management when the projects were completed.

The leading role of research data in contemporary science implies the need to implement technological, managerial and informational infrastructures capable of translating data sets into knowledge and scientific progress. To do this, the data need to be treated, archived, preserved and disseminated throughout its life cycle; and must also comply with the mandatory policies of the funding agencies in relation to the potential of data sharing and reuse.

In this sense, this research aims to raise the concepts involved and the conditions required for the development of research data management plans that can guide the development of systems and data management services to ensure the stability of the data for as long as required.

As methodological strategy were reviewed the most known cycles of data management research, the principles adopted by its researchers and the guidelines for sharing and reuse of data already published. The following topics are covered: search data concepts, metadata and documentation, persistent identifiers, versioning, file formats, curatorship and digital preservation, data repositories, secure storage, ethical, legal aspects and rights and costs involved in data management.

As a final product, knowledge is consolidated in the form of a research data management guide for researchers, librarians and research data managers [1]
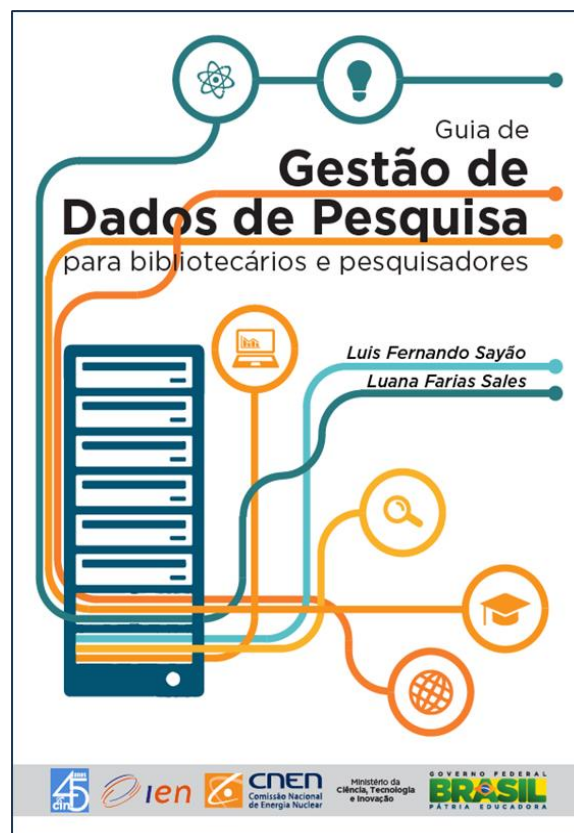


Figure 1. Research data management guide

## References

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