



Open Science, a benefit for contemporary society

La ciencia abierta, un beneficio para la sociedad contemporánea

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In the Knowledge age, the use of science, technology and innovation allows us to solve problems in any area of knowledge. However, even scientific results are not always available to professionals interested in the replicability of research because they do not yet have access to them.

There is a need for harmony in the scientific dialogue of various social actors, enhanced by the use of Information and Communication Technology (ICT). Where the results obtained from the research carried out are immediately exchanged, based on different approaches to a problem to be solved, which allows for more knowledge to be available for common use, contributing to a better informed society.

In the new knowledge landscape, Open Science plays an important role. It allows to find alternative ways of disseminating the results obtained from publicly funded research. Traditional dissemination hinders access to a wider and more diverse audience, limiting the potential use of information and its influence on problem solving

Open Science includes a series of components which give it the connotation of openness: open and reproducible research, open peer review, open access to publications and open data. In particular, those components derived from processes financed by public resources, provide benefits to the entire society.

The benefits are that:

- Open Science increases research productivity and becomes more efficient,
- it is a public good which is opened, exchanged and distributed among a greater and diverse number of actors involved, which allows the democratization, generation and dissemination of new knowledge,
- it enables access to knowledge generated in other latitudes and empowers the participation of the public not involved in a wide spectrum of activities,

- the perspective of collaborative work including the exchange of information and knowledge reduces the costs of collection, creation, transfer and reuse of data and of scientific stuffs in general,
- it relates to the largest body of knowledge available, enabling the participation of scientists and stakeholders in local and global environments in the search for solutions to the problems raised.

The fact that Open Science implies a more inclusive and collaborative research process with diverse participation has the advantage of considering different perspectives that can provide creativity, as well as the inclusion of unconventional thinking. It also contributes to the fast and joint response to the global challenges of the present day.

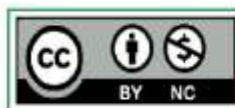
So, Open Science is effective, accessible, transparent, interdisciplinary, democratic, inclusive, generous, supportive and non-competitive, accessible to more diverse audiences, who participate and benefit which is all made possible by ICT. It should be recognized that it maximizes the benefits of publicly funded research for the good of today's society.

Keywords: *Open Science, Knowledge Society, Information and Communications Technology*

Palabras clave: *Ciencia abierta, Sociedad del conocimiento, Tecnología de la Información y las Comunicaciones*

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