

Open Science Monitor Indicators Workshop

Open Science Monitor is a project initiated by the European Commission in 2013 with the aim of monitoring and analyzing open science trends worldwide in a collaborative and open way. In 2017 the new consortium was set out by the Commission to review **Open Science Monitor** indicators and establish better, more complete monitoring system together with the community. In that spirit the new methodology of the Open Science Monitor was published online for community revision with over 300 comments collected.

As a second stage of consultation 15 open science experts have taken part in the Open Science Monitor **Indicators Validation Workshop** on the 19 September 2018 in Brussels. The objective of the workshop was to:

- To validate the methodology, revised according to the feedback received online,
- To refine new indicators and source.

The experts discussed together with consortium, represented by CWTS University of Leiden, The Lisbon Council and ESADE, as well as subcontractor Elsevier, indicators divided into three sections: **Open Access** indicators, indicators for **Open Research Data** and **Open Collaboration** indicators.

The discussion addressed the key critical points of the updated methodology.

1. It was clarified why proprietary data are necessary to building indicators, as things stand at the moment. In particular, the consortium explained the advantage of proprietary data (e.g. Scopus) over open data (e.g. Crossref) – see slides. Of course, with the deployment of the Open Science Cloud, in the future we can expect open and machine generated indicators to become automatically available, but it's not the case now.
2. The consortium will also put in place additional measures to address the feedback received. First and foremost, Unpaywall will be integrated with Scopus data to provide the most complete possible coverage. In addition, the consortium will carry out and publish *ad hoc* comparison between the results using Scopus and WoS.
3. Elsevier has also agreed to allow access to Scopus data for the purposes of research and replication of results, so any researcher interested in having access can contact the consortium mailbox with a motivated request.
4. What is clear is that of today there is no ready-made solution for monitoring Open Science. In particular, in the domain of open research data and open code, there are huge data gap. For this reason, participants agreed on the need for on-going continuous collaboration. To this end, the consortium will open an online collaboration space to define better indicators and data sources, open to all interested parties.

Last but not least, as planned, an Open Science Monitor Expert Advisory Board composed of workshop participants has been set up. The Advisory Board will be chaired by professor Žiga

Turk, Scientific Advisor of the project and member of the high-level expert group of the European Open Science Cloud.

Participants of the workshop:

1. Emma Lazzeri, National Open Access Desk, The Italian National Research Council - Institute of Information Science and Technologies (CNR-ISTI)
2. Paolo Manghi, Technical Manager, Institute of the National Research Council of Italy
3. Paul Wouters, Professor of Scientometrics, Director Centre for Science and Technology Studies, Leiden University
4. Rebecca Lawrence, Managing Director, F1000Research open for science
5. David Cameron Neylon, Senior Scientist, Science and Technology Facilities Council Didcot
6. Michael Robert Taylor, Head of Metrics Development, Digital Science & Research Solutions Limited
7. Heather A. Piwowar, Cofounder, ImpactStory / Unpaywall
8. Jason Priem, Cofounder, ImpactStory / Unpaywall
9. Andreas Pester, Researcher, Carinthia University of Applied Sciences
10. Barend Mons, Scientific Director, GoFair
11. Beeta Balali Mood, Consultant, Pistoia Alliance
12. Roberta Dale Robertson, Open science policy senior analyst, JISC
13. George Papastefanatos, ESOCs, Research Associate Management of Information Systems Research Center "Athena"
14. Marin Dacos, Open Science Advisor to the Director-General for Research and Innovation, French Ministry of Higher Education, Research and Innovation
15. Žiga Turk, Professor, University of Ljubljana

Consortium members:

1. Katarzyna Jakimowicz, Associate Director, The Lisbon Council
2. Stephane Berghmanas, VP Global Academic & Research Relations, Elsevier
3. Laia Pujol Priego, Researcher, ESADE
4. David Osimo, Director of Research, The Lisbon Council
5. Ingeborg Meijer, Researcher, CWTS, Leiden University
6. Thed van Leeuwen Senior Researcher, CWTS, Leiden University
7. Josephine Bergmans, Project Coordinator CWTS, Leiden University

Representatives of the European Commission:

1. Rene Von Schomberg, Team Leader, Science Policy, European Commission
2. Jean Claude Burgelman, Head of Unit, Open Data Policies and Science Cloud European Commission