

Building a global consensus on Open Science

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Open Science has the potential of increasing the quality of science and making the entire scientific process more transparent, collaborative and inclusive.

Open Science can accelerate progress towards SDGs and it can be a true game changer in bridging the science, technology and innovation gaps between and within countries and fulfilling the human right to science.





Need for an international policy framework on Open Science

Common definition of open science

Shared set of values and principles

Set of actions



Towards a UNESCO Recommendation on Open Science in 2021



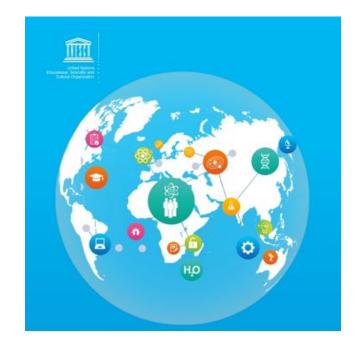
Consultative process

Guided by Open Science Advisory Committee

Supported by a global Open Science Partnership

Global consultation - 2900 inputs received from 133 countries

Regional consultations – Africa, Arab States, LAC, Asia and Pacific, Eastern Europe, Western Europe and North America







Inclusive process

Thematic and multistakeholder stakeholder consultations and inputs from young scientists, citizen science, Academies, science unions and organizations, libraries and open access platforms, data organizations, UN system, indigenous peoples

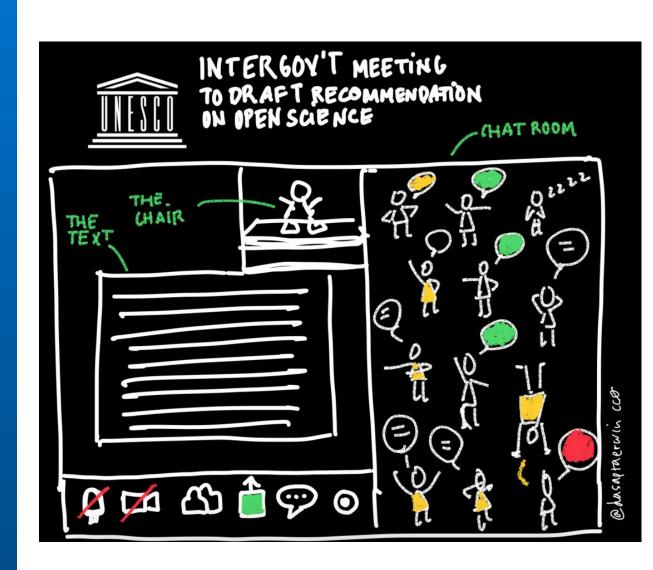


Transparent process

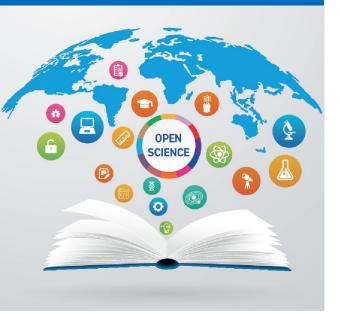
Intergovernmental meeting of exerts (6-11 May) negotiates and adopts the final draft text

Over 100 countries represented

Over 65 observers participating



Recommendation

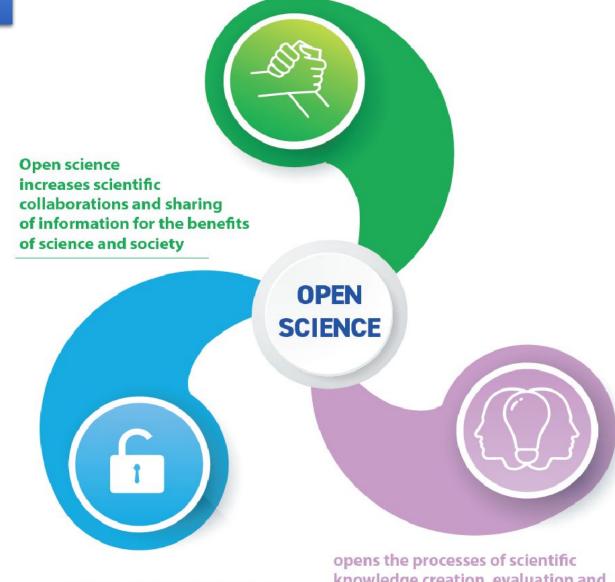


UNESCO Recommendation on Open Science

- The first **international normative instrument** on Open Science;
- The first internationally agreed definition of Open Science;
- Spells out the consensus core values and guiding principles of Open Science;
- Recognizes the multitude of Open Science actors and stakeholders beyond the traditional scientific community;
- Calls on Member States to make an effort to contribute at least 1% of their national GDP to R&D, to set up regional and international funding mechanisms for Open Science and to ensure that all publicly funded research is in line with the core values and principles of Open Science;
- ❖ it calls for removing the barriers for Open Science, particularly those relating to research and career evaluation systems in order to align them with the principles of Open Science.



Common definition



makes scientific knowledge openly available, accessible and reusable for everyone

opens the processes of scientific knowledge creation, evaluation and communication to societal actors beyond the traditional scientific community.



Key pillars of open science





Values and principles

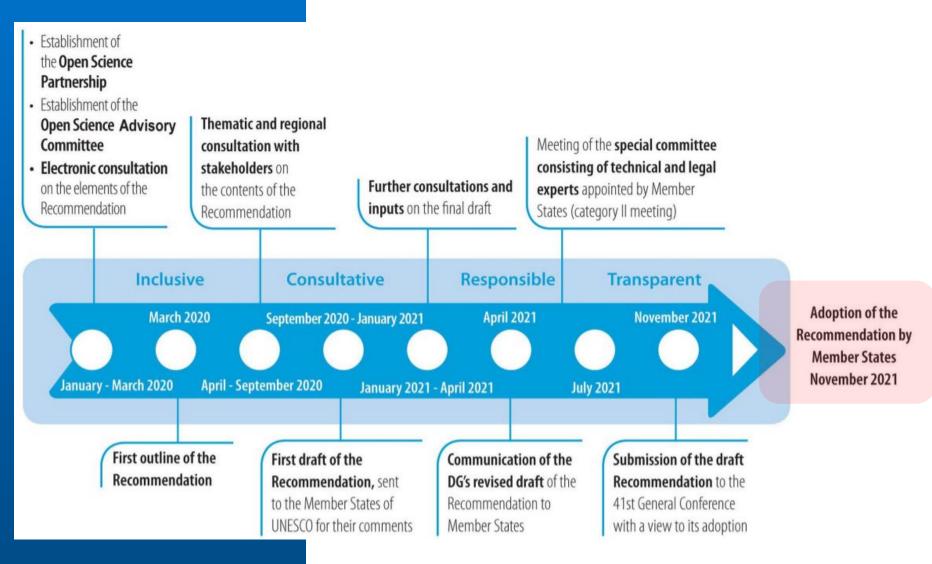




Developing an **Enabling policy** environment **Investing in** infrastructures Promoting a and services Investing in common human understanding resources **Fostering Promoting** a culture cooperation of Open Science AREAS OF ACTION **Promoting** innovative approaches



Next Steps





Key challenges



- Prime importance of research quality and integrity in the Open context;
- centrality of capacity-building for Open Science;
- importance of adequate infrastructures, including reliable internet connectivity;
- alignment of incentives and revision of criteria for evaluation of scientific excellence and scientific careers, particularly for young researches;
- links between intellectual property rights and Open Science;
- links with indigenous knowledge systems;
- importance of international solidarity and international collaborations;
- the risk of commercial monopolization of research data with the call for long-term, sustainable, not-for profit infrastructures and services supporting Open Science;
- monitoring of Open Science.



Thank you



