Implementation of the UNESCO Recommendation on Open Science

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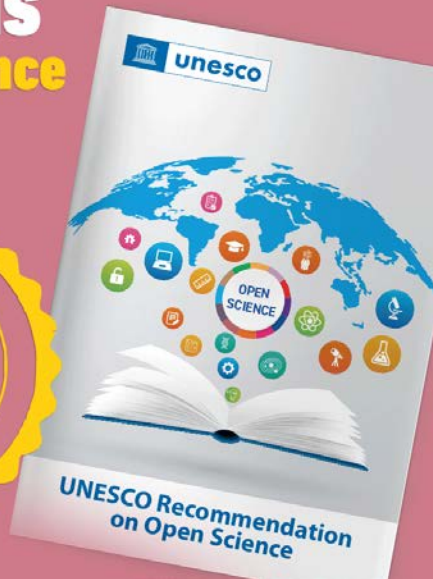## Role for UNESCO

UNESCO Recommendation on Open Science

- ❖ Access to information through UNESCO Science and Open Solutions Programmes
- ❖ Forum for exchange of ideas, good practices, lessons learned on implementation of OS practices
- ❖ Support for open science policy development and orientation
- ❖ Support for open science capacity building for different actors
- ❖ Monitoring of open science status, trends and impacts
- ❖ Mobilization of the Global Open Science Partnership
- ❖ Building of coalitions and consortia for the advancement of open science

Key Areas of Action – Key Areas for Implementation

- ❖ Awareness raising and communication on open science, its benefits and challenges,
- ❖ Open science policies and strategies at institutional, national, regional and international levels
- ❖ Open science financing and adequate incentives
- ❖ Shared open science infrastructures
- ❖ Capacity building for all open science actors
- ❖ Promoting innovative approaches for open science and collaboration at all levels
- ❖ Monitoring framework for the Recommendation and open science practice and impacts more broadly

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International level

Activities	Deliverables
Developing a series of supporting tools - technical briefs, fact sheets and guidelines	An online dynamic **Open Science Toolkit** + **Open Science Info Ap**p accessible to all and easy to use, reuse, expand and update *(in development)*
Collecting/mapping existing open science policies and strategies	**Global repository of open science policy instruments** *(initial mapping to be finalized and verified)*
Collecting best practices	**Global compendium of open science best practices** *(call for best practices launched)*
Analyzing open science financing mechanisms and incentives	Providing **proposals for regional and thematic open science funding mechanisms** and recommendations for **revision of the current research careers assessments and evaluation criteria**
Promoting open science infrastructures	Mapping /supporting/developing international, regional and thematic **open science platforms f**or sharing of knowledge and best practices. Focus on UNESCO's themes (biodiversity, water, disaster risk reduction, geosciences, ocean sciences, climate change, etc.)
Building capacity	Compilation/ development of **training modules and training workshops** on open science for different open science actors *(outline of the trainings developed)*
Developing an open science monitoring framework	Global **monitoring framework for Open Science**

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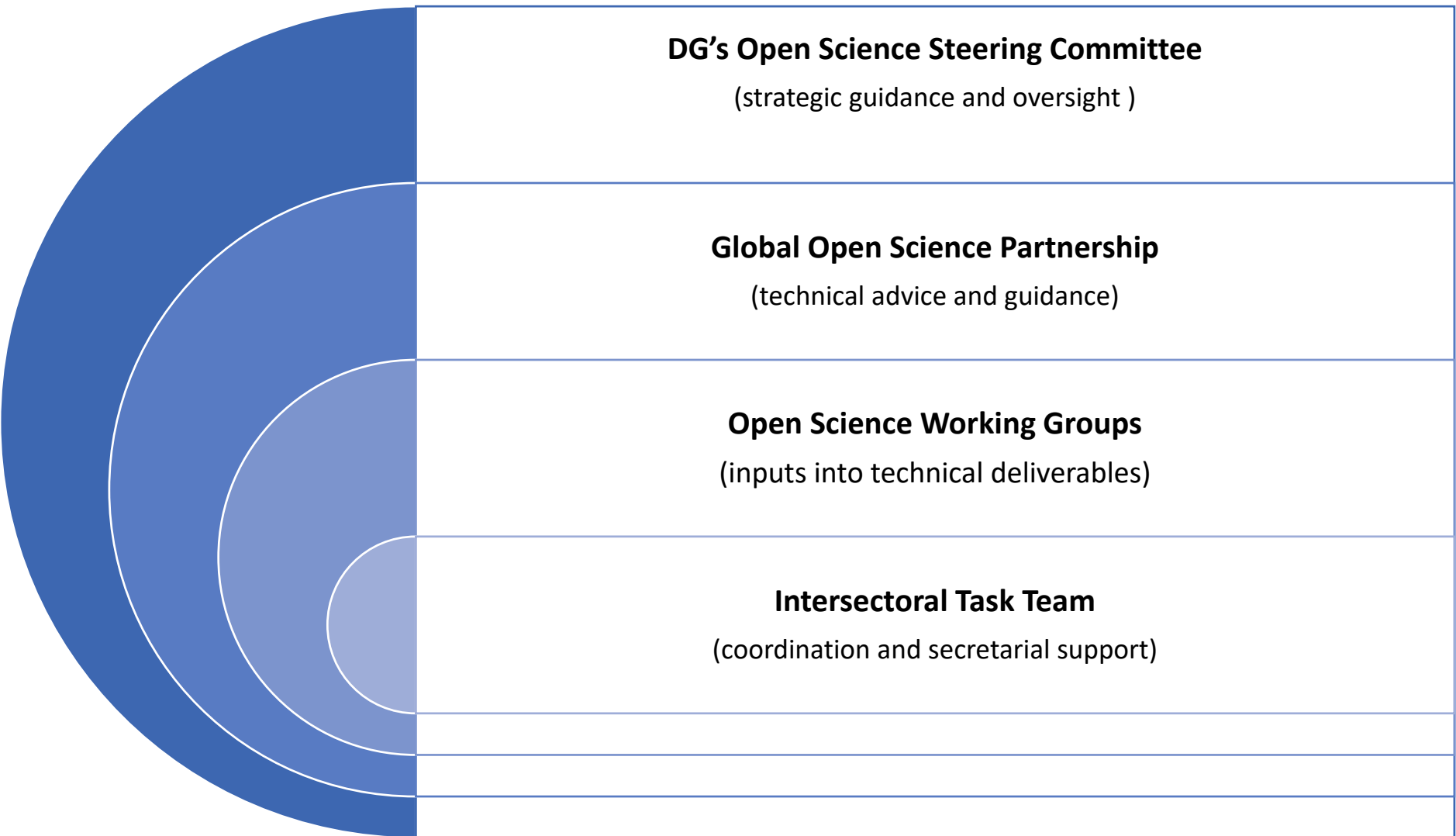| Regional and National Levels |
|---|
| Support for **regional Fora and Platforms for Open Science** (CILAC, African Open Science Platform, Arab Open Science Platforms…) |
| Support for Member States to exchange on and develop their **national open science policies and strategies** |
| Mapping and supporting **regional open science infrastructures** to share data, information and best practices |
| Collecting and sharing **best practices in open science** on institutional level and identifying and connecting open science champion institutions in the regions to exchange on challenges and opportunities and learn from each other |
| Delivering **capacity building trainings** for different stakeholders |
| ….. |
| |

Implementation of the UNESCO Recommendation on Open Science

DG's Open Science Steering Committee

(strategic guidance and oversight)

Global Open Science Partnership

(technical advice and guidance)

Open Science Working Groups

(inputs into technical deliverables)

Intersectoral Task Team

(coordination and secretarial support)

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DG's Open Science Steering Committee

Assist the DG in steering the implementation of the Recommendation by providing guidance and oversight of key opportunities and challenges.

Composed of 15 members including:
- two representatives of Member States from each of the six electoral groups of UNESCO;
- three representatives of key scientific bodies and institutions dealing with open science.

Based on the proposals from the UNESCO regional groups, the selection of the members of the Steering Committee will be made by the DG taking into account geographical balance, gender balance, expertise and competence in the field of open science.

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Global Open Science Partnership

❖ Created in 2020 to provide inputs in the process of development of the UNESCO Recommendation on Open Science.

❖ Brings together relevant and interested open science stakeholders across the world

❖ Open-ended and is currently composed of some 70 relevant entities across scientific communities, science funders, public and private science, technology and innovation institutions, relevant private sector and industry, UN entities and all other relevant open science actors from all regions and scientific disciplines, including traditional and indigenous knowledge holders.

https://en.unesco.org/science-sustainable-future/open-science/partnership

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Five Open Science Working Groups

Calendar for Working Groups	
Date (2022)	**Title**
12 May	Open Science Capacity Building
21 May	Open Science Policies and Policy Instruments
9 June	Open Science Funding and Incentives
7 July	Open Science Infrastructures
15 September	Open Science Monitoring Framework

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Implementation of the UNESCO Recommendation on Open Science

Taking stock of progress made:

December 2022, World Science Forum, Cape Town, South Africa

❖ Open Science Dialogue at the World Science Forum

❖ Open Science Outlook

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Useful information
Open science website: **https://on.unesco.org/openscience**
Final certified text of the recommendation (6 languages): https://unesdoc.unesco.org/ark:/48223/pf0000381148
Brochure with the adopted text (4 languages): https://unesdoc.unesco.org/ark:/48223/pf0000379949
Social media materials: https://trello.com/b/4EbDv5nM/openscience
Promotional video for the Recommendation: https://youtu.be/I3Wkvx_ZaFo
Video from the Champions : https://youtu.be/ypMXi44oMSc

Implementation of the UNESCO Recommendation on Open Science

UNESCO launches a global call for best practices in open science

Further to the adoption of the UNESCO Recommendation on Open Science in November 2021, UNESCO is launching a Global Call for Best Practices in Open Science.

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The resulting compendium of best practices will be a useful tool to better understand the current landscape of open science, share lessons learned, identify and connect open science actors around the world, and further develop innovative solutions for open science in a collaborative, inclusive and transparent manner.

Global call for best practices:

https://www.unesco.org/en/articles/unesco-launches-global-call-best-practices-open-science

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JSPG, UNESCO and MGCY Launch 2022 Call for Papers and Competition on *Open Science Policies as an Accelerator for Achieving the Sustainable Development Goals*

Call for papers for the special edition of the Journal of Science Policy & Governance on Open science policies in collaboration with the Major Group for Children and Youth and the Global Young Academy:

https://www.unesco.org/en/articles/call-papers-open-science-policies-accelerator-achieving-sustainable-development-goals

UNESCO Open science website:
https://on.unesco.org/openscience

Contact: openscience@unesco.org

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Thank you