



United Nations
Educational, Scientific and
Cultural Organization



Towards a UNESCO Recommendation on Open Science *Building a Global Consensus on Open Science*

Dr Peggy Oti-boateng

Director Division Science Policy and Capacity Building
UNESCO, Paris



UNESCO

Natural Science Sector

Science at the service of the SDGs



In the context of pressing planetary and socio-economic challenges, sustainable and innovative solutions require an **efficient, transparent and vibrant scientific community** not only stemming from scientists, but from the whole of **society**.

Need for Science, Technology and Innovation

- ➔ Need for **data, information, knowledge, technologies**
- ➔ Need for **evidence based** decisions and policies
- ➔ Need for **global STI standards** and **governance**
- ➔ Need to **close the STI gaps**

Need
to
**Open
Science
to
Society**

Democratize Science



Open Science embodies the movement to transform and **democratize the entire scientific process** to ensure that science truly drives and enables the achievement of the United Nations Sustainable Development Goals **for the benefits of all.**

Open Science to Society



Open Science allows scientific information, data and outputs to be more widely accessible (**Open Access**) and more reliably harnessed (**Open Data**) with the active engagement of all the stakeholders (**Open to Society**).

Bridging the scientific gap



© Julian Dufort / L'Oréal Foundation.
Prof. Segenet Kelemu, 2014 L'Oréal-UNESCO Awards Laureate for Africa and the Arab States, working in the lab.

By making science more connected to societal needs and by promoting equal opportunities for all (scientists, policy-makers and citizens), Open Science 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**.

How can everyone benefit from Open Science?

A **movement** has emerged from the scientific world, rapidly spreading across nations and **calling for the opening of the gates of knowledge**. Investors, entrepreneurs, policy makers and citizens are joining this call.

The question is no longer whether Open Science is happening, but rather how everyone can contribute and benefit from the transition.

A global understanding is needed

However, in the **fragmented scientific and policy environment**, a **global understanding** of the meaning, opportunities and challenges of Open Science is still missing.



UNESCO 40th Session of the General Conference

That is why, UNESCO, as the UN agency for science, embarked in a process to build a global consensus on Open Science.

A UNESCO Recommendation

Background

- **UNESCO Strategy on Open Access to scientific information and research (2011)**

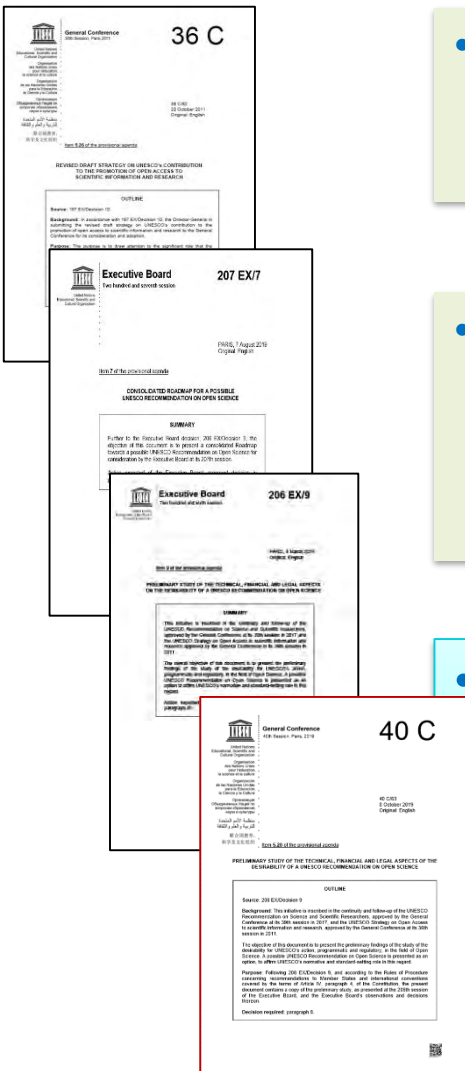
36th session General Conference

- **Preliminary study of the technical, financial and legal aspects on the desirability of a UNESCO Recommendation on Open Science (2019)**

206th and 207th session of the Executive Board

- **UNESCO Recommendation on Open Science to be developed for adoption of Member States in November 2021 (2019)**

36th session General Conference



A UNESCO Recommendation



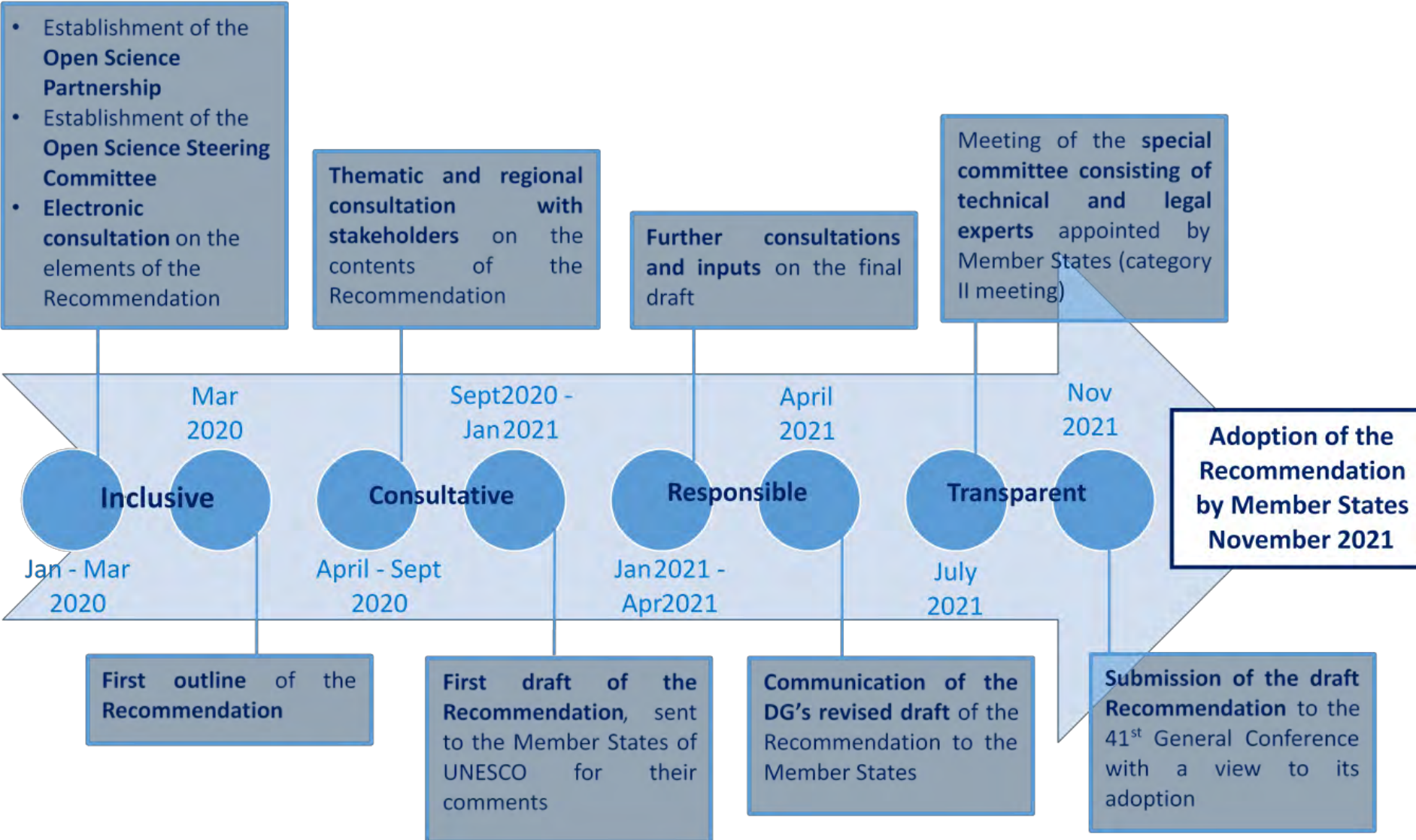
UNESCO 40th Session of the General Conference

At the UNESCO 40th General Conference, 193 Members States tasked UNESCO with the **development of an international standard-setting instrument on Open Science in the form of a UNESCO Recommendation on Open Science.**

The General Conference at its 40th session:

- Recognizes the need for a **new standard-setting instrument on open science**, in the form of a recommendation;
- Invites the Director-General to initiate the process of elaborating a **draft text** of a new standard-setting instrument on open science, in the form of a **recommendation**;
- Also requests the Director-General to take all necessary measures to **ensure an inclusive consultative process leading to a recommendation on open science**;
- Further invites the Director-General to submit to it at the earliest possible session (**preferably the 41st session**) the **draft text of a UNESCO recommendation on open science**

Global Roadmap of the Recommendation on Open Science



Open Science for Africa

FORUM WITH THE AFRICAN UNION'S SPECIALIZED TECHNICAL COMMITTEE ON EDUCATION SCIENCE AND TECHNOLOGY

African Union HQ, Addis Ababa, Ethiopia

12 -13 December 2019



(XXIII) ON OPEN SCIENCE

43. The Ministers, ACKNOWLEDGE the game changing potential of open science in Africa for reducing the existing inequalities in STI and accelerating progress towards the implementation of the Agenda 2063 and the achievement of SDGs;

- (a) SUPPORT AND PROMOTE open science initiatives at the national, regional and continental levels to increase access to scientific information, data, knowledge and networks and to bring science closer to society;
- (b) COMMEND UNESCO for taking the lead in building a global consensus on open science; and
- (c) COMMIT to support and actively contribute to the consultative and inclusive process led by UNESCO to develop a new international standard setting instrument on Open Science-the UNESCO Recommendation on Open Science to be adopted by the UNESCO General Conference in 2021.

Open Science for Africa



AFRICAN REGIONAL SCIENCE, TECHNOLOGY
AND INNOVATION FORUM

on

2020-2030: A Decade to

Deliver a Transformed and Prosperous Africa
through the 2030 Agenda and Agenda 2063.



Victoria Falls
Zimbabwe
24 February, 2020

**Building a Global Consensus on Open Science: Inputs
from Africa to the UNESCO Recommendation on
Open Science**

**Round Table Discussion in the context of the African
Regional Science Technology and Innovation Forum
24 February 2020, Victoria Falls, Zimbabwe**

Thank you for your inputs!!



UNESCO

Natural Science Sector

Join the Open Science Partnership! Join the debate!

Participate to the Global Survey

http://bit.do/surveyUNESCO_OS

