

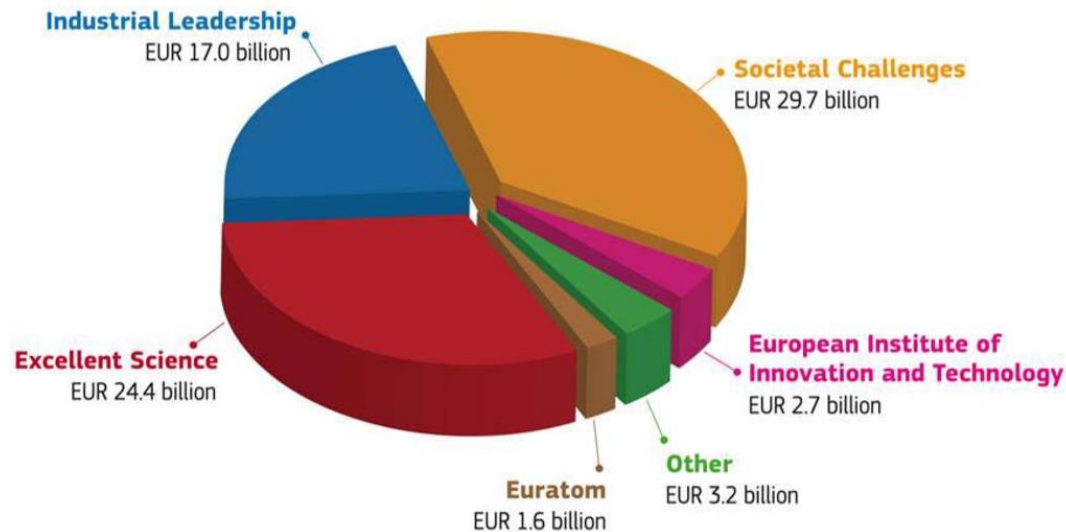


Open Science in Horizon Europe

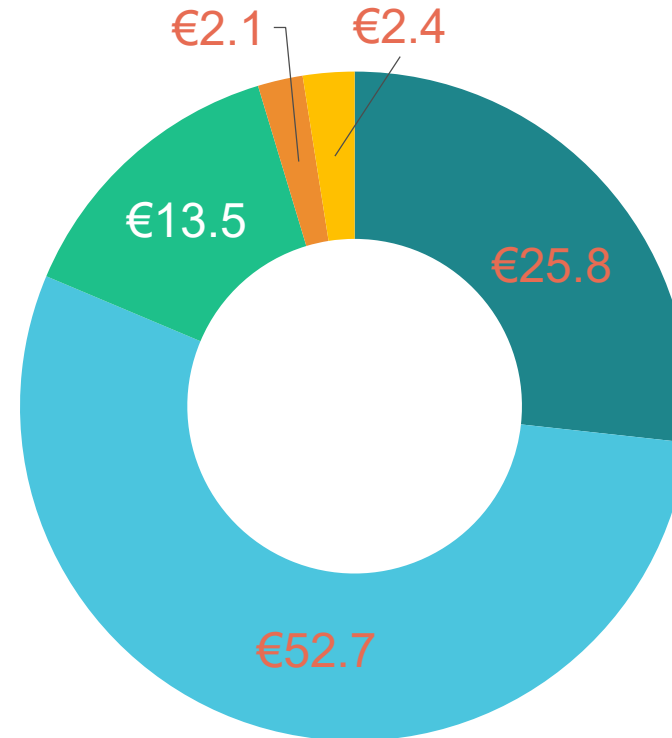
*Alea López de San Román, Policy Officer
Open Science Unit, DG R&I
Jornada de Ciencia Abierta, 29 junio 2021*

Horizon 2020 & Horizon Europe

Horizon 2020: ~ €80bn



Horizon Europe: ~€95.5bn



- Excellent Science
- Global Challenges & Ind. Competitiveness
- Innovative Europe
- Strengthening ERA
- Euratom

- The Commission invests heavily in Research and Innovation.
- Over **30000 H2020 projects**—Projects produce **research outputs, data, deliverables, etc.**
- It becomes increasingly important to make the **best possible use** of previous work.

Open Science throughout project lifetime



Open Science in Horizon Europe

*“**Open science**” means an approach to the scientific process based on open cooperative work, tools and diffusing knowledge*

(Horizon Europe Regulation and Model Grant Agreement)

*The concepts of **Open Science**, Open Innovation, Open to the World should ensure **excellence and impact** of the Union’s investment in research and innovation, while safeguarding the Union’s interests*

(Recital 7 Horizon Europe Regulation)

Open Science in the Horizon Europe Model Grant Agreement

- Open access to scientific publications
- Research data management
- Additional Open Science practices

Open access to scientific publications

Open access to publications (1/2)

Beneficiaries must ensure **open access to peer-reviewed scientific publications** relating to their results. In particular, **they must ensure:**

- ❑ at the latest upon publication, **deposition** of the Author Accepted Manuscript (AAM) or the Version of Record (VoR) in a trusted repository + **immediate open access via the repository** under a Creative Commons Attribution (**CC BY**) or equivalent licence. CC BY-NC/CC BY-ND are allowed for long-text formats.
- ❑ **information** via the repository about any research output/tools/instruments needed to **validate the conclusions of the scientific publication**

Metadata must be open under a Creative Commons Public Domain Dedication (CC 0) or equivalent, **in line with the FAIR principles** and provide information about the licensing terms and persistent identifiers, amongst others.

Open access to publications (2/2)

- Beneficiaries (or authors) **must retain sufficient intellectual property rights** to comply with the open access requirements
- Publication in venue of choosing but **publication fees are reimbursable only if publishing venue is full open access** (publication fees in hybrids not reimbursed)
- **Open Research Europe** at the disposal of Horizon Europe beneficiaries

Research data management

Research data management

Beneficiaries **must manage the digital research data** generated in the action responsibly, **in line with the FAIR** principles and:

- establish + regularly update a **data management plan** ('DMP') for generated (and/or collected) data
- as soon as possible and within the deadlines set out in the DMP, **deposit** the data in a trusted repository (federated in the EOSC if required in the call conditions) **+ ensure open access under CC BY, CC 0 or equivalent, following the principle 'as open as possible as closed as necessary'**
- provide information via the repository about any research output/tools/instruments needed to **re-use or validate the data**

Metadata must be open under CC 0 or equivalent (to the extent legitimate interests or constraints are safeguarded), **in line with the FAIR principles** and provide information about the licensing terms and persistent identifiers, amongst others.

Additional practices

Additional Open Science practices

- Where the call conditions impose **additional obligations** regarding Open Science practices,
the beneficiaries must also comply with those
- Where the call conditions impose **additional obligations regarding the validation of scientific publications**,
the beneficiaries must provide (digital or physical) access to data or other results needed for validation of the conclusions of scientific publications, to the extent that their legitimate interests or constraints are safeguarded (and unless they already provided the (open) access at publication)

Additional Open Science practices

- Where the call conditions impose **additional Open Science obligations in case of a public emergency**,
the beneficiaries must (if requested by the granting authority) immediately deposit any research output in a repository + provide open access to it under CC BY, CC 0 or equivalent

As an exception, if the access would be against the beneficiaries' legitimate interests, the beneficiaries must grant nonexclusive licenses –under fair and reasonable conditions- to legal entities that need the research output to address the public emergency and commit to rapidly and broadly exploit the resulting products and services at fair and reasonable conditions.

This provision applies up to 4 years after the end of the action

Evaluation of proposals and Open Science

“Excellence” criterion (methodology)

- Evaluation of the quality of open science practices
- Up to 1 page to describe Open Science practices + up to 1 page to describe research data/output management

“Quality and efficiency of implementation” criterion

(capacity of participants and consortium as a whole + list of achievements)

- Explain expertise on Open Science
- List publications, software, data, etc, relevant to the project with qualitative assessment and, where available, persistent identifiers

Publications are expected to be open access; datasets are expected to be FAIR and ‘as open as possible, as closed as necessary’. **Significance of publications to be evaluated on the basis of proposers’ qualitative assessment** and not per Journal Impact Factor

NB on evaluation !

- Evaluation concerns mandatory and recommended Open Science practices, the latter where appropriate
- When Open Science practices are duly justified as not appropriate for the project, score is not lowered for not addressing those practices or for lack of Open Science expertise
- All Work Programmes, except for the ERC, evaluate Open Science practices as outlined above (exception with some EIC programmes that for now evaluate under Impact)

Open Science practices

What?	How?	Mandatory in all calls/recommended
Early and open sharing of research	Preregistration, registered reports, preprints, etc.	Recommended
Research output management	Data management plan (DMP)	Mandatory
Measures to ensure reproducibility of research outputs	Information on outputs/tools/instruments and access to data/results for validation of publications	Mandatory
Open access to research outputs through deposition in trusted repositories	<ul style="list-style-type: none"> • Open access to publications • Open access to data • Open access to software, models, algorithms, workflows etc. 	<ul style="list-style-type: none"> • Mandatory for peer-reviewed publications • Mandatory for research data but with exceptions ('as open as possible...') • Recommended for other research outputs
Participation in open peer-review	Publishing in open peer-reviewed journals or platforms	Recommended
Involving all relevant knowledge actors	Involvement of citizens, civil society and end-users in co-creation of content (e.g. crowd-sourcing, etc.)	Recommended

**HORIZON
EUROPE**



Info days 2021

From June 28th till July 9th

More information at this [link](#)

28 JUNE	INFRASTRUCTURES	
29 & 30 JUNE	DIGITAL, INDUSTRY & SPACE	CLUSTER 4
30 JUNE	CIVIL SECURITY FOR SOCIETY	CLUSTER 3
01 JULY	CULTURE, CREATIVITY & INCLUSIVE SOCIETIES	CLUSTER 2
01 JULY	MARIE SKŁODOWSKA-CURIE ACTIONS	
02 JULY	HEALTH	CLUSTER 1
05 & 06 JULY	CLIMATE, ENERGY & MOBILITY	CLUSTER 5
07 & 08 JULY	FOOD, BIOECONOMY, NATURAL RESOURCES AGRICULTURE & ENVIRONMENT	CLUSTER 6
09 JULY	ERA & WIDENING	

ERA Communication: A New ERA for R&I

Communication on a new European Research Area for Research and Innovation
(September 2020)

Deepening the ERA

The Commission will: (Action 9)

- Launch, via the Horizon Europe Programme, a **platform of peer-reviewed open access publishing**;
- **analyse authors' rights** to enable sharing of publicly funded peer-reviewed articles without restriction;
- ensure a **European Open Science Cloud** that is offering findable, accessible, interoperable and reusable research data and services (Web of FAIR); and
- incentivise open science practices by improving the **research assessment system**.

Citizen Engagement

The Commission will: (Action 13)

- Organise with Member States and stakeholders Europe-wide **citizen science campaigns** to raise awareness and networking, crowdsourcing platforms and pan-European hackathons, in particular in the context of Horizon Europe Missions. The Commission will develop with Member States best practices to open up science and innovation to citizens and youth.



¡Muchas gracias!



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