



Open Science Implementation Guidelines for Horizon Europe Projects

“BE OPEN meets OSCAR” - Open Science Collaboration: Joint event | 16th June

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Open Science meets Horizon Europe

Why is open science in context to Horizon Europe so important?

Since the first Open Access pilots in FP7 marking the recognition of OS on the level of European Research Programmes more and more aspects become visible to the research community.

This development indicates accepting the fact of complexity of interacting problems challenging companies, policy on all levels and also society. The presentation of Airbus' zero emission concepts is an excellent example in aeronautics demonstrating the complexity of "problem clusters".

Also, it shows up the fragility of the overall transport system which becomes evident during the pandemic.

Europe has understood that today's global challenges exceed the perimeter of single actors. Therefore, efficiently spending tax payers money calls for collaboration amongst these actors and for sharing knowledge.

Concorde, CERN, ISS and European research are only some few prominent examples. Instead of re-inventing the wheel, we have to go forward together, and Horizon Europe supports us to do so.

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Where are the policy differences from H2020 to Horizon Europe regarding Open Science?

H2020 encouraged all researchers already during the proposal phase to take Open Access as a powerful dissemination tool. Also, OA costs could have been funded. However, OA was still a voluntary effort within projects.

During H2020 the needed OA infrastructure evolved and the idea of OA became more familiar to the research community. Scientific publications became increasingly available without fee, which is a paradigm shift of the established publication schemes.

In parallel to H2020 initiatives have had to go forward: European Commission initiated the European Open Science Cloud (EOSC), and the “OS face” was Commissioner Moedas.

This approach fed also the preparation of Horizon Europe. The European research community and the large publishers found agreements how to deal with OA; further OA and OS platform show up. Btw, Fraunhofer established also OA and OD platforms.

Horizon Europe means implementation of OS in EU research, and it means learning in practice.

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How and where exactly do I integrate my commitment to Open Science and to the Code of Conduct in my Horizon Europe proposal? (1/2)

Most of the HEU calls are pending, so I have to give my answer **on basis of draft documents**, which address RIA, IA. It may similarly sound for CSA.

In any case, you've to convince the evaluators, who start with the new HEU rules as each of us.

A Proposal consists of Part A (forms) and Part B (technical description). The commitment must be convincingly given in Part B – the narrative part:

- Section 1.2 / bullet 1: the “receiving part” which may consider input from OS and other research activities, most likely from projects within the research field of the proposal (if relevant)
- Section 1.2 / bullet 2 & potentially 3: also here, the use of OS may be described (if relevant)
- Section 1.2 / bullet 5: *“Describe how appropriate open science practices are implemented as an integral part of the proposed methodology. Show how the choice of practices and their implementation are adapted to the nature of your work, in a way that will increase the chances of the project delivering on its objectives [e.g. 1 page]. If you believe that none of these practices are appropriate for your project, please provide a justification here.”*

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How and where exactly do I integrate my commitment to Open Science and to the Code of Conduct in my Horizon Europe proposal? (2/2)

- Section 1.2 / bullet 6: data management plan DMP: how to make research data available according to the FAIR (Findable, Accessible, Interoperable, Reusable) principles.
- Section 2.2 / bullet 1: here the DEC plan is requested:
 - Dissemination of project results → link to OS wrt. OS approaches
 - Exploitation of project results → affects IPR, to be considered in the light of potentially competing OS efforts
 - Communication of the project itself → raising awareness of the project, its goals and objectives, (interim) results etc. May be not relevant in the context of OS
- Section 2.2 / bullet 2: management of IPR: the bullet point describes the competing aspect of OS, namely IPR.
- Section 2.3: the canvas table shall be filled accordingly to the previous sections – here, OS is only a part, an element amongst others.
- Table 3.1h: purchase costs shall consider OS costs (if any) related to purchased services – follow carefully the instructions mentioned in the template.

Open Science meets Horizon Europe

Do I have to commit to 100% to each passage of the Code of Conduct?

The OSCAR Code of Conduct is a voluntarily accepted agreement and not a legally binding document. Therefore an explicit commitment within the legally binding CA is recommended. This could be done with the phrase

"We hereby declare that we commit ourselves to the open science code of conduct version YYYY-MM-DD and its guiding principles."

Alternatively, a consortium may commit only to parts of this open science code of conduct by choosing a formulation like the following:

"We hereby commit to the open science code of conduct version YYYY-MM-DD with the exception of practice A and B".

Of course, a consortium may also modify this code of conduct as deemed necessary, as it is licensed under the CC0 1.0 Universal (CC0 1.0) Public Domain Dedication.

Please refer to <https://creativecommons.org/publicdomain/zero/1.0/>

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I would like to commit to Open Science and the Code of Conduct, but my project is already running. What can I do now?

Running an HEU project (the start of first projects will be – most likely – in 2022) means, that both a Grant Agreement and a Consortium Agreement are in place. There will be already an OS commitment in place – of whichever level of OS implementation.

Once an extended level of OS is successfully agreed with the consortium partners, an updated CA may be deemed necessary. While the GA is an EC model, customized to the specific project thus providing general provisions, the CA is always agreed amongst the partners thus taking both project and all of the consortium partners into account.

An update of the CA does not affect the GA (in case of contradictory elements the GA will supersede anyway).

The OSCAR Open Science Handbook

The OSCAR Code of Conduct as such is a generic document. How to implement it in aviation research?

The OSCAR Open Science Handbook (under preparation) is a guideline which describes in one comprehensive and concise document:

- the idea of OS
- the OSCAR Code of Conduct
- a guideline for implementation, considering specific aspects of aeronautics research.

The OSCAR Open Science Handbook will be published soon. Please stay tuned via

<https://oscar-h2020.eu>



Thank you for your attention!



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