



Report on Deliverable Number 5.4

Open Science Promotion Activities for Period 2

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Introduction

Over the past few years, CHIST-ERA has been focusing on all aspects of Open Science. This behavior has prompted the ERA-NET to create its own policy starting in 2019.

The first step was the establishment of an Open Science statement, which summarises its strong engagements for a more efficient and transparent excellent science. This statement is an engagement towards Efficient, Transparent and Universal Science and fully respects the principle “as open as possible, as closed as necessary”.

The second step was the creation and adoption of an Open Science policy specific to the programme. This policy entails achieving more openness in the CHIST-ERA-funded science through Open Access to publications and research data, as well as constantly improving the transparency of the CHIST-ERA research evaluation processes.

Besides, CHIST-ERA also publishes on its website much data about its activities, such as the CHIST-ERA funded projects, the analysis on the Joint Calls and the CHIST-ERA deliverables.

Furthermore, CHIST-ERA carried out an analysis among its member research funding organisations, mostly located in Europe, regarding their national or regional Open Science policies and practices. The analysis, The European Open Science Policy Landscape - Status and Trends, summarises the Status Quo in 2021 and compares the evolution of the policies between 2019 and 2021. The analysis is available on Zenodo: <https://zenodo.org/records/6597451#.YzrtSnZBw2w>.

The different aspects characterising the Open Science policy of CHIST-ERA, especially for Call 2017 and Calls 2018 are presented below.

Support to Open Access and Open Research Data

Several Open Science sessions have been organised during the Projects Seminars:

1) Projects Seminar 2019:

The session was focused on two interrelated aspects of Open Science that are particularly relevant to data-intensive research, which is a focus of CHIST-ERA:

- a. **Open Research Data & Data Sharing:** Properly annotated and curated data can require significant efforts. When this is the case, it is important for economic reasons to mutualise these efforts and make the data widely available. However, this requires an extra effort from the data producer.
- b. **Open Evaluation Methodology & Experiment Reproducibility:** Objective evaluation of models learned from data requires common experimental protocols and joint experiment campaigns on unseen data, in order to ensure that the results are comparable and unbiased. This in turn requires a specific coordination effort and a trusted third party.

2) Projects Seminar 2021:

The session presented the current practices and support by CHIST-ERA and discussed future challenges in Open Science.

- a. **The FAIR Data Principles:** good publication and data-sharing practices are widely put forward by the research communities. It is important to make those standardised

through more **awareness** and the **adoption** of basic principles, like the FAIR (Findable, Accessible, Interoperable, Reproducible) principles for data sharing. CHIST-ERA offers training opportunities to its researchers to support this endeavour.

- b. **The Cost of Open Science:** the good principles of open science come with a cost that should not be borne only by the researchers. Among such challenges are data management, data curation and publication costs (human and financial). It is therefore of the utmost importance for CHIST-ERA to keep an open dialogue with all stakeholders in this process of elaboration of policies, measures and practices.

3) Projects Seminar 2022:

The session dealt with the latest developments in CHIST-ERA on Open Science and presented some supporting measures for its beneficiaries.

- a. **Policy developments:** based on exchanges with representatives of the research communities, CHIST-ERA further supports best practices in publication (for instance embargos are no longer accepted) and data sharing (based on the FAIR principles). In addition, CHIST-ERA signed the DORA declaration and continues revising its evaluation procedures to align with the best research evaluation standards.
- b. **Supporting measures:** a machine-readable data management to plan is made available for all CHIST-ERA beneficiaries, hence facilitating the challenge of data management. CHIST-ERA also continues its monitoring of Open Science practices and policies, with the goal to keep offering the best opportunities for CHIST-ERA beneficiaries.

Publication of Data about CHIST-ERA Activities

As for past calls, statistics about the selection process and information about the selected projects and the supported topics are provided online on the CHIST-ERA website.

Reviewing Process

As for past calls, the review process is relatively open:

- All panel members have access to all proposals except in case of conflict of interest;
- The name of the panel chair is mentioned when inviting external experts to review;
- The panel composition is published on the website for each topic.

Perspectives

Important developments concerning Open Science aspects will be implemented in CHIST-ERA IV from the Call 2019 onwards.