Pre-announcement of Call ORD

The Call ORD of CHIST-ERA, to be published by the end of July or beginning of August 2022, will target projects in the following topic:

Open & Re-usable Research Data & Software

Anticipated Call Deadline:	**14 December 2022, 17:00 CET**
Documents and procedures:	http://www.chistera.eu
Call information:	Anna Ardizzoni +33 1 7809 8084 anna.ardizzoni@anr.fr
Indicative budget:	Approx. 6 M€

Applicants are encouraged to start discussing projects with prospective partners. The call will require that projects are submitted by international consortia with minimum of three eligible and independent partners requesting funding to organisations in the call from at least three different participating countries. Additional partners from other countries may be part of a consortium if they can secure their own funding. The list of countries and funding organisations, which have shown preliminary interest in participating in the Call ORD, is provided in annex.

Please note that this pre-announcement is for information purposes only. It does not create any obligation for the CHIST-ERA consortium nor for any of the participating funding organisations. The official call announcement, to be published later, shall prevail. The contact point of your funding organisation remains at your disposal for any further information (see annex).

To receive call updates, please subscribe to CHIST-ERA Call ORD Newsletter

CHIST-ERA supports European coordinated research on long-term ICT and ICT-based scientific challenges
CHIST-ERA is supported by the Pathfinder programme of the European Innovation Council

Key Facts & Figures

CHIST-ERA support to Open Science

CHIST-ERA is a consortium of research funding organisations in Europe and beyond supporting use-inspired basic research in Information and Communication Technologies (ICT) or at the interface between ICT and other domains. The CHIST-ERA consortium is itself supported by Horizon Europe within the European Innovation Council's Pathfinder programme.

CHIST-ERA fully joins the Open Science agenda of Horizon Europe following the principle 'as open as possible, as closed as necessary':

1. The network proposes an original policy framework, encompassing national/regional policies, for the researchers to shape their projects in line with highest standards of open access practices;
2. With a focus on emerging ICT, CHIST-ERA further accompanies this effort by supporting R & D projects on key enabling tools, services and standards aimed at facilitating and promoting open access, within and beyond ICT research domains.

Content of the Call

Topic:	Open & Re-usable Research Data & Software (ORD)
Indicative budget:	Approx. 6 M€
International consortium:	The project consortia must have a minimum of 3 eligible and independent partners requesting funding from participating funding organisations from at least 3 of the following countries
Standard consortium size:	Three to six partners
Evaluation:	Proposals are evaluated based on criteria of a) Relevance to the topic, b) Scientific and technological quality, c) Impact and d) Implementation
Funding:	Each partner is funded separately by the national/regional funding organisation they are applying to. They must fulfil the conditions of their funding organisation

Tentative Timeline

14th December 2022, 17:00 CET	Deadline for proposal submission
June 2023	Notification of accepted proposals
September 2023	Tentative start date for accepted projects

Projects Targeted in the Call

The CHIST-ERA (www.chistera.eu) consortium has created a common funding instrument to support transnational projects. Through this instrument, the national/regional funding organisations of CHIST-ERA support and join the Horizon Europe Open Science agenda. By launching joint calls, they can support more diverse communities, who are able to tackle the most challenging and novel Open Science topics.

This call concerns the following topic:

✓ **Open & Re-usable Research Data & Software (ORD)**

The challenges and promising research and development directions of the call topic were identified following an online workshop bringing together researchers from across a range of research communities and countries and Open Science experts and consultation of the Open Science Advisory Board of CHIST-ERA.

This call tackles the challenge of open research data and software from the perspective of their possible reuse. The objective is to create the conditions for research in any domain[1] based on open or shared data and software.

Recent advances in Information and Communication Technologies are expected to represent a significant opportunity.

The call aims at contributing to develop and disseminate appropriate research practices across the various research communities and countries. For this purpose, the researchers and their scientific communities are invited to propose, by given discipline, emerging discipline or in an interdisciplinary approach how to apply the principles of Open Science to promote reuse of research data and software. The aim is to accelerate the emergence of related tools, standards and services.

The call covers all types and versions of data and associated metadata: Collected, captured, acquired, transformed, simulated, synthetic etc.

'Research software' stands for software produced by researchers, and used as enablers for research activities.

The applicants should demonstrate how their project will articulate with Horizon Europe initiatives on open research data and more generally foster convergence with one or more international actions and/or infrastructures (e.g. ESFRI, EOSC, GO FAIR, RDA, etc.).

Transfer of knowledge between research communities and countries is encouraged, as well as tackling the specifics of emerging communities and more generally data reuse by the unexpected researcher/user (from another discipline, by public institutions, the industry or citizens).

Applicants should also demonstrate the broader impact of their project on the transformation of their working environment for open access and reuse of research data and software, beyond the usual

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[1] While CHIST-ERA is primarily focused on ICT, this call addresses any research domain: Within, at the interface or outside ICT.

perimeter of their daily collaborations and the lifetime of the project. They should provide convincing evidence of their ability to achieve adoption (e.g.: Connection and intersection with well-established domain specific organisations, projects, tools and/or processes).

Applicants should address in their project at least one of the following target outcomes:

1. **Create, enrich or prepare 'reference data sets'**[2]
   The objective is to favour the availability and reuse of complex data sets (disparate datasets, multiple formats, variety and heterogeneity of the data). The creation of such reference data sets could allow, among other things, to acknowledge the work of data producers, to promote their citation and to validate and replicate research results on a larger scale.

2. **'Editorialization' of data**: Reduce the distance between data producer and expected or even unexpected data re-user.
   The objective is to promote reuse for scientific, educational, economic or even journalistic purposes. For example, by:
   a. Making descriptions of data collections well intelligible to other disciplinary communities or other audiences (e.g. by producing methodological guides on metadata, by promoting data articles and reviews...);
   b. Making visible samples of data by telling about their 'second-hand' use cases or misappropriations that may have been made of them;
   c. Building well described reusable workflows and pipelines for data processing and preparation: Alignment, denoising, anonymization, matching…

3. **Processes and tools to describe, share, reference and archive software source code**, in particular with the goal to enhance reproducibility of research results.
   The objective is to develop tools and processes that leverage existing initiatives, such as the Software Heritage universal source code archive and the SWH-ID persistent source code identifiers, in order to:
   a. Improve, and possibly automate, research workflows to ensure that the source code of software developed for, or reused in a research project, is properly archived, with an appropriate identifier that pinpoints the precise version used;
   b. Ensure that software that has been evaluated by peers and assigned a reproducibility badge or stamp is archived for the long term, and referenced using proper persistent identifiers;
   c. Produce curated metadata for software, following well established community standards, and archive it alongside the source code;
   d. Contribute to establish links between articles, data and software source code, with proper metadata and persistent identifiers;
   e. Ensure that the source code of software listed in community-maintained software catalogues is archived and equipped with appropriate identifiers.

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[2] Note that enriching or producing data sets by increasing their volume only is not the purpose of this call.

Annex: Tentative List of Participating Funding Organisations

Country	Funding organisation	Contact
Belgium	F.R.S.-FNRS	international@frs-fnrs.be
Belgium	FWO	eranet@fwo.be
Czech Republic	TACR	Aneta.Lizancova@tacr.cz
France	ANR	Anna.Ardizzoni@anr.fr
Lithuania	LMT	Laura.Kostelnickiene@lmt.lt
Luxembourg	FNR	Helena.Burg@fnr.lu
Poland	NCN	Alicja.Dylag@ncn.gov.pl
Romania (TBC)	UEFISCDI	Domnica.Cotet@uefiscdi.ro
Slovakia	SAS	Panisova@up.upsav.sk
Switzerland	SNSF	chistera@snf.ch
Turkey	TÜBITAK	Ozlem.GeziciKoc@tubitak.gov.tr
United Kingdom (TBC)	UKRI	Rachel.Lamb@epsrc.ukri.org