



# CHIST-ERA Call 2021

## Information Webinar #1

November 26, Online

Contact: [chistera@anr.fr](mailto:chistera@anr.fr)





- CHIST-ERA in brief
- Research targeted, topics description
- Evaluation and selection process
- Open Access policy
- Widening Countries policy
- Application procedure and recommendations



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## CHIST-ERA in Brief



- ❑ A network (ERA-NET) of research funding organisations in Europe and beyond
  - ✓ Covering most European countries + Québec & Taiwan
  - ✓ Call consortium is a sub-set of CHIST-ERA consortium (participation on a topic by topic basis)
- ❑ Supporting long term research targeting emerging digital technologies
  - ✓ Investing in the identification and definition of promising topics
  - ✓ Supporting 2 topics per year
    - Typically 10-15 projects of approx. 0.8 - 1 M€ each, involving at least 3 countries each
  - ✓ Promoting Open Science, Widening Countries, Ethics
- ❑ Relying on a well-established yearly call cycle
  - ✓ One-step high quality evaluation process
- ❑ Fostering cross-fertilisation across topics and strategic thinking through a yearly Funded Projects Seminar
- ❑ Diversification of funding activities: Call Open Science & Challenge Call

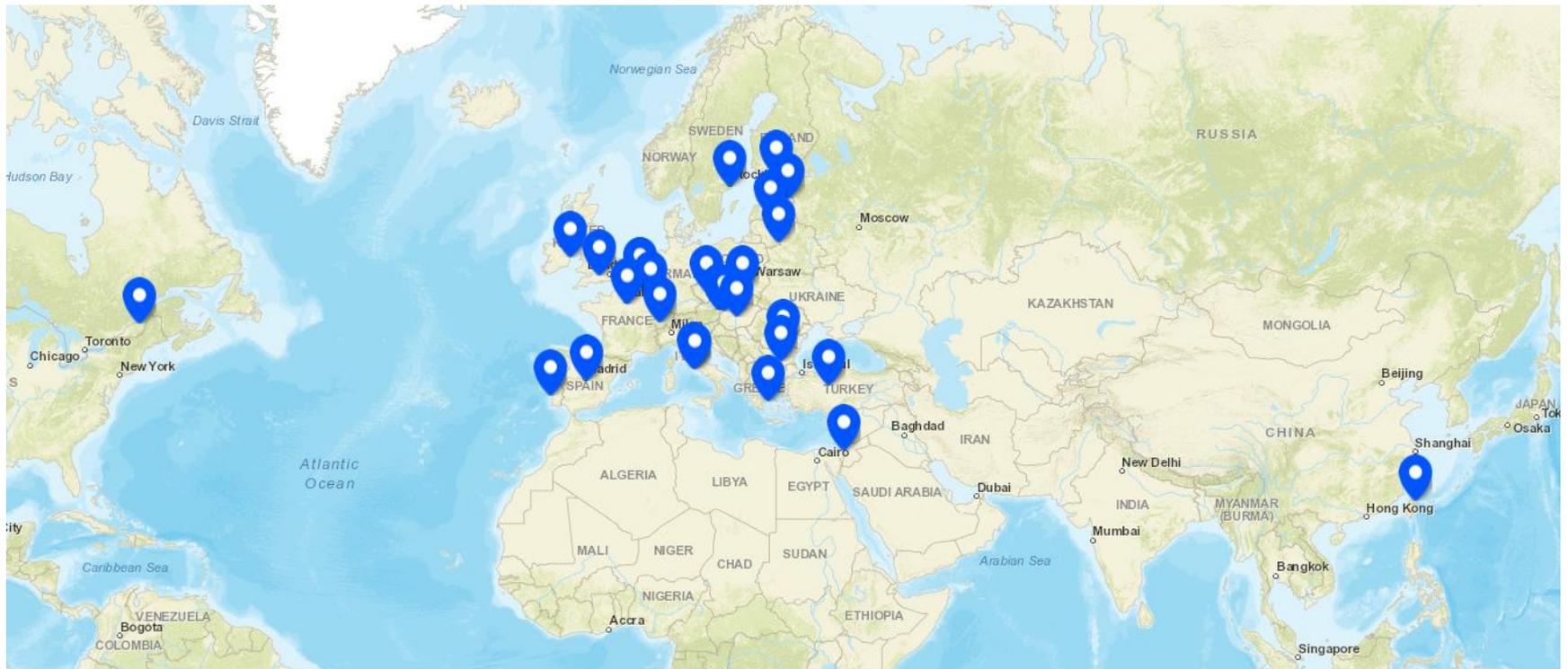
# Network of Research Funders

**CHIST-ERA 2021**

29 funders from 26 countries

**CHIST-ERA 2010**

9 funders - 9 countries





- ❑ With the past 11 calls, CHIST-ERA has targeted:

Quantum computing, consciousness, knowledge extraction, low-power computing, intelligent user interfaces, smart communication networks, adaptive machines, distributed computing, trustworthy cyber-physical systems, human language understanding, security and privacy in the IoT, terahertz communication, lifelong learning for intelligent systems, visual analytics, object recognition and manipulation by robots, big data and process modelling for smart industry, analog computing for artificial Intelligence and smart computing in networks, explainable artificial intelligence and ICT for environmental sustainability, brain-computer interfaces, sustainable ICT

→ More info: [www.chistera.eu/past-topics](http://www.chistera.eu/past-topics)

- ❑ This year's call concerns the following topics:

1. Nano-Opto-Electro-Mechanical Systems (NOEMS) for ICT
2. Foundations for Misbehaviour Detection and Mitigation Strategies in Online Social Networks and Media



# Yearly Main Events

- ❑ Call topics selection workshop (among funding organisations & scientific advisory board)
  - ✓ Elaborate topic selection process open to new ideas
  - ✓ Selection based on well-defined criteria and thorough discussion
- ❑ Call topics definition conference (for all researchers interested in a selected topic)
  - ✓ Advertises the call
  - ✓ Contributes to call scoping
  - ✓ Networking event for the applicants
- ❑ Funded Projects Seminar (for all representatives of active projects)
  - ✓ Contributes to project follow-up
  - ✓ Networking event for projects within and across topics
  - ✓ Fosters strategic thinking

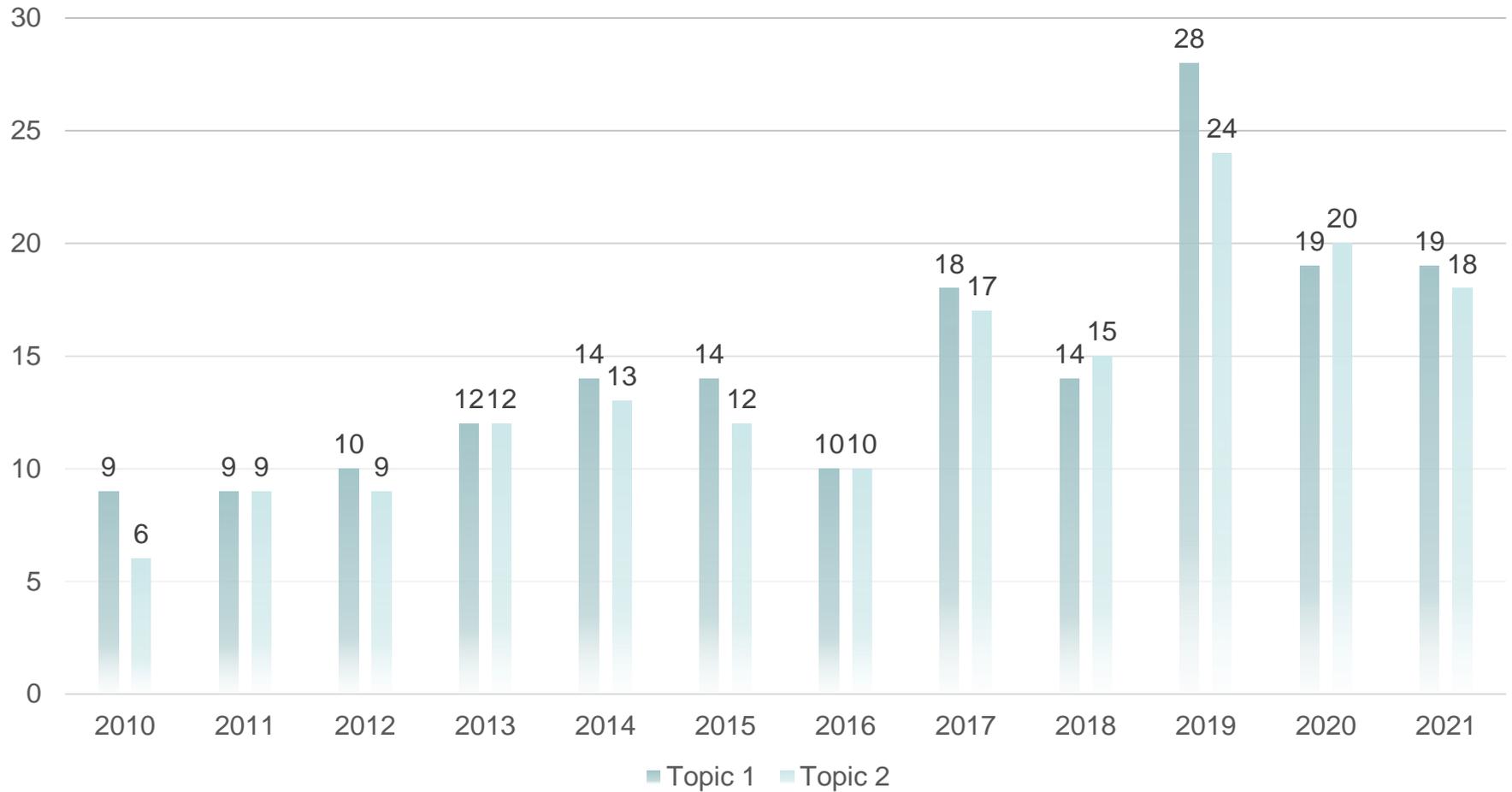


# Fostering Strategic Thinking and Topic Maturation

- Relying on the Funded Projects Seminar
  - ✓ Put the items below on the agenda of the thematic parallel sessions and ask to cover them in the presentation in plenary session
- Connection with Horizon Europe and development of strategic research agendas
  - ✓ Discuss the relevant parts of Horizon Europe for the topic, whether they fulfil the needs, and potential evolutions
- Technology Transfer
  - ✓ Discuss and present the potential achievements and needs in connecting to users and/or industry
- Impact analysis
  - ✓ Offer to attend editions of the Seminar beyond project end

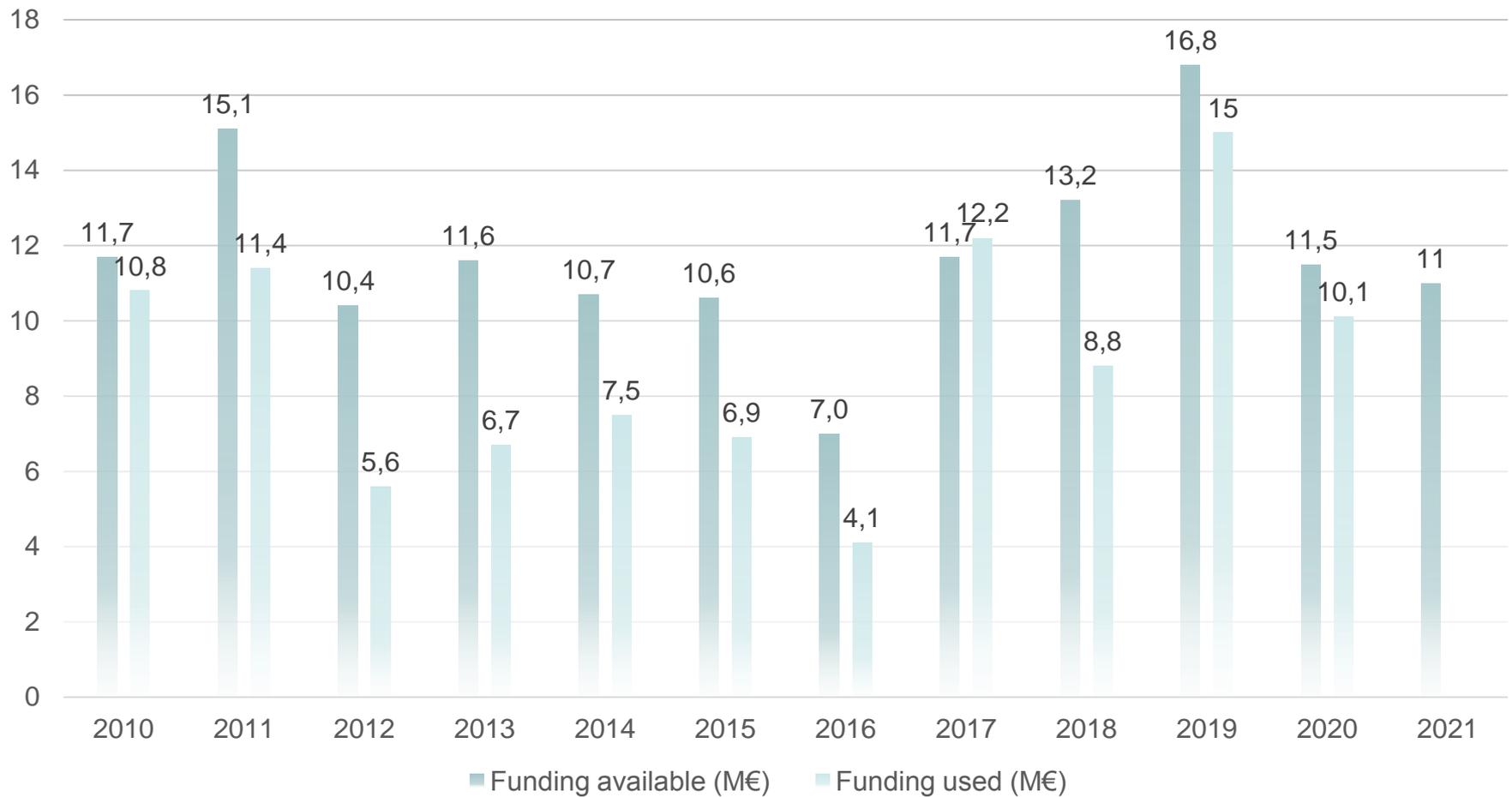


# Funder Participation in Calls



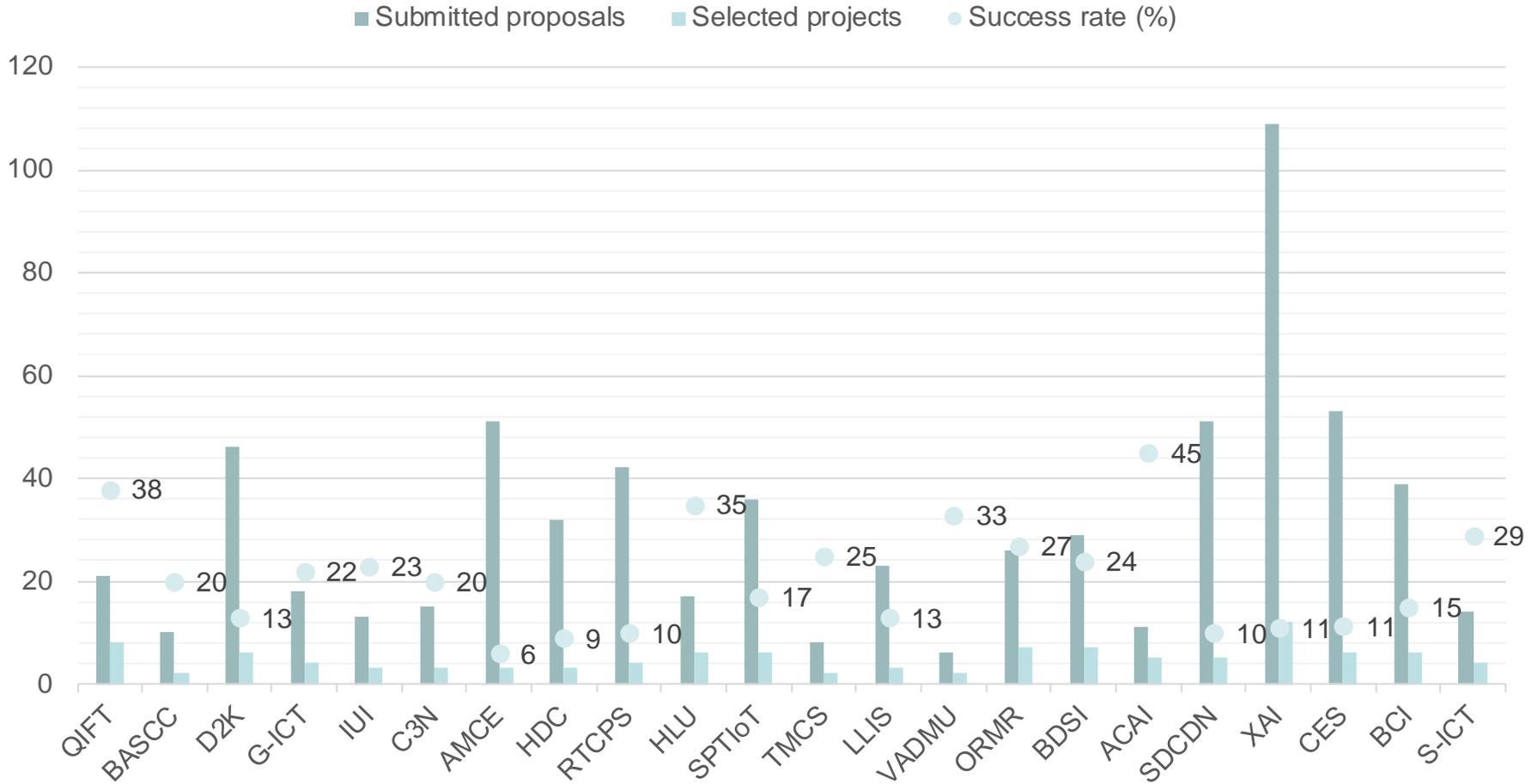


# Budget in Calls





# Call Success Rate



Success rate (average): 16%



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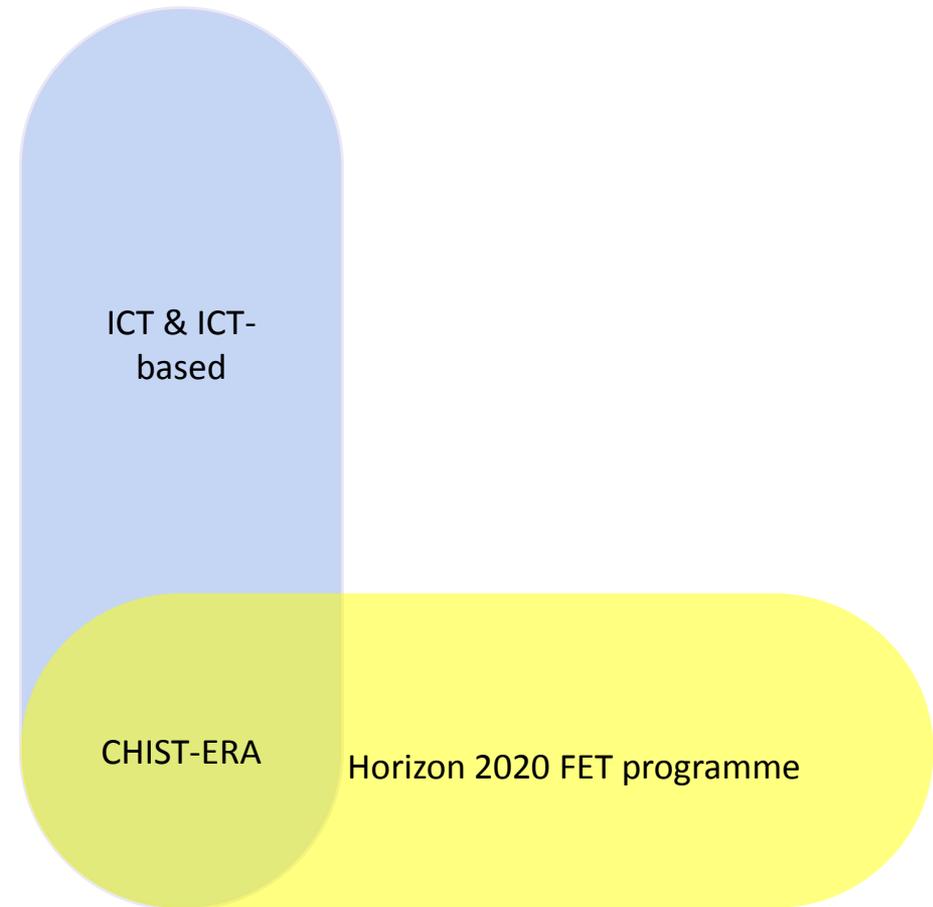
**Research Targeted, Topics Description**



# Targeted Research

*Smarter, Safer, Leaner... ICT*

- ❑ CHIST-ERA is the ERA-NET of the EIC Pathfinder programme
- ❑ Support to **basic research for future and emerging ICT** (FET-like research)
  - ✓ Long term interdisciplinary research
  - ✓ Risky with potential high impact
  - ✓ Favour novelty





## Target Outcomes

- Miniaturisation of NOEMS and integration with circuits on a single device;
- Development of multi modal and multi physical capabilities;
- Improvement of electro-mechanical energy conversion efficiency;
- Modelling of the NOEMS at the nanoscale taking into account Van der Waals forces;
- Development of metamaterials/metasurfaces for integration of NOEMS components;
- Development of arrays of NOEMS for computing architectures;
- Development of testbeds;
- Advanced fabrication technologies, exploiting silicon or heterogeneous materials to aid integration.



## Expected Impacts

- Develop a deeper fundamental and comprehensive understanding of NOEMS for information and communication technologies;
- Identify new opportunities fostered through NOEMS and possibly the transfer from laboratories to industries;
- Enable the emerging of innovative, scalable, reliable and reproducible technologies, with increased manufacturability and its repeatability;
- Cross traditional boundaries between disciplines in order to strengthen the community involved in tackling these new challenges.



## **Target Outcomes**

- Identify most impactful types of misbehaviour (possibly on purpose) and emerging trends;
- (Near) real time, robust and scalable technologies to detect misbehaviours;
- Address multimodality (i.e. text, video, audio and images), tackling multiple platforms where possible;
- Development of AI-based (incl. explainable AI) and Natural Language Processing technologies where necessary;
- Availability and sharing of (multilingual) databases and benchmarks.



## **Expected Impacts**

- Develop a deeper fundamental and comprehensive understanding of misbehaviour in social networks and media, anticipate future and emerging trends;
- Enable the emerging of innovative and reproducible technologies to detect low quality news, misinformation and disinformation (propaganda), and support mitigation strategies;
- Increase awareness in society;
- Cross traditional boundaries between disciplines in order to strengthen the community involved in tackling these new challenges.

# Requirements from the Consortia

- ❑ Formation of consortia
  - ✓ At least 3 partners from 3 countries participating in the call topic
    - Industrial partners eligible for some funders (see call text for details)
  - ✓ Research should be focused on a clearly defined goal, i.e. typically not more than 6 partners is recommended
  - ✓ Consortia should be balanced:
    - Not more than 60% of the total requested funding may be requested by partners from one country
- ❑ Additional partners
  - ✓ Research groups from countries whose funding organisations are not in the call may join a project consortium as long as they are able to secure their own funding
  - ✓ These groups/institutions do not count for the 3-3 rule
  - ✓ The coordinator must request funding



# Supporting Tools

- ❑ Partner Search Tool
  - ✓ Find partners at <https://www.chistera.eu/partner-search-tool/2021>
  - ✓ Or submit your expression of interest at <https://www.chistera.eu/expression-interest-eoi>
- ❑ Subscribe to the Call 2021 newsletter to receive any call update at
  - ✓ <https://www.chistera.eu/chist-era-call-2021-newsletter>
- ❑ Open Science training at <https://www.chistera.eu/open-science-trainings>
- ❑ Based on today's webinar a FAQ will be published at call webpage
- ❑ Technical guidelines for submitting a project available at call webpage by beginning of December
- ❑ A second webinar is planned on December 17 for last-minute questions
  - ✓ Registration: <https://www.chistera.eu/call-2021-info-webinars>

The Partner Search tool offers to potential applicants the opportunity to find partners, by consulting the list of Expressions of Interest (Eoi) below and/or by submitting your own Eoi. In the latter case, your Eoi will be quality checked and published online within a few days after submission. [Submit your Eoi](#)

Note that to widen participation throughout Europe, proposals are encouraged to include partners from the so-called Widening Countries participating in the call: Bulgaria, Czech Republic, Estonia, Lithuania, Luxembourg, Poland, Slovakia and Turkey.

Information: [chistera@par.fr](mailto:chistera@par.fr)

Partner Expression of Interest	Partner Expression of Interest	Partner Expression of Interest	Partner Expression of Interest
<b>Misinformation (Fake news, rumors, etc.) and hate speech detection on online social platforms - University of Tartu, Estonia (Partner for Project)</b> <small>Foundations for Misinformation Detection and Mitigation Strategies in Online Social Networks and Media (DSHMEM) (LS4) Computational social science group</small>	<b>Multi-DOF Piezoelectric actuators and motors for direct mounting to printed circuit boards - Vilnius Tech</b> <small>Nano-Opto-Electro-Mechanical Systems for ICT (NOEMS) (LS3) - Piezoelectric actuators and motors for high-precision motion and with several degrees of freedom.</small>	<b>NOEMS for ICT. INSITU Engineering s.l. (SME). Nano devices for positioning and tracking in indoor/outdoor environments.</b> <small>Nano-Opto-Electro-Mechanical Systems for ICT (NOEMS) (LS3) ICT (IMU)-ONSS (LWB) GeoInformation, Tracking devices</small>	<b>Brain representations and incentives of sending fake news</b> <small>Foundations for Misinformation Detection and Mitigation Strategies in Online Social Networks and Media (DSHMEM) (LS4) Brain representations of fake news using neuroimaging (model-based fMRI) in humans. Behavioral economics approach to identify...</small>



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## Evaluation and Selection Process



# WHO will Evaluate your Proposal?

- ❑ **Evaluation panel** – consists of sufficient number of high-level experts from different fields within the call topic
  - ✓ Some of them with specific knowledge on Open Science and on technology transfer
- ❑ Composition of the evaluation panel is prepared by the Call Secretariat and approved by CHIST-ERA funders in the call
  - ✓ Scientists participating in the proposals **\*cannot\*** be members of the evaluation panel or evaluate proposals as external reviewers
- ❑ Each proposal will be evaluated by 3 panel members
  - ✓ *External reviewers* – at least 2 for each proposal
- ❑ Evaluation panel is established for each topic → 2 separate panels evaluate proposals → Thus 2 ranking lists are elaborated
- ❑ The list of the panel members will be made public on CHIST-ERA website after the funding recommendation is issued

# HOW will your Proposal be Evaluated?

***Evaluation criteria*** – for full description see Call 2021 Announcement

- Relevance to the Topic** (threshold: 4/5, weight: 1)
- Scientific and Technological Quality** (threshold: 3.5/5, weight: 2)
- Impact** (threshold: 3.5/5, weight: 2)
- Implementation** (threshold: 3/5, weight: 1)

# HOW will your Proposal be Evaluated?

## *Evaluation scores*

- 0** **The proposal fails** to address the criterion or cannot be assessed due to missing or incomplete information (unless the result of an 'obvious clerical error').
- 1** **Poor.** The criterion is inadequately addressed, or there are serious inherent weaknesses.
- 2** **Fair.** The proposal broadly addresses the criterion; but there are significant weaknesses.
- 3** **Good.** The proposal addresses the criterion well, but with a number of shortcomings.
- 4** **Very good.** The proposal addresses the criterion very well, but with a small number of shortcomings.
- 5** **Excellent.** The proposal successfully addresses all relevant aspects of the criterion; any shortcomings are minor.



# Selection of Proposals

- ❑ On the basis of the ranking of the proposals and of available funding, the Call Steering Committee prepares a list of projects recommended for funding to the national/regional funding organisations
- ❑ Call Steering Committee (CSC) follows the ranking list and makes efforts to fund as many projects as possible
  - ✓ If not all *ex-aequo* projects can be funded, the following options are considered
    - Budget of the respective funder(s) can be increased
    - Budget cut in requested funding (manageable up to 10%)
- ❑ If the budget is insufficient to fund all *ex aequo* projects among rank N, CSC will select projects using the following criteria:
  - ✓ The output of the call, i.e. the overall funding, should be maximised (e.g. by prioritising the projects with high presence of under-represented countries and vice-versa)
  - ✓ If possible each funding organisation funds at least one project
  - ✓ Projects involving partners from **Widening Countries** are prioritised



# WHEN will your Proposal be Evaluated?

## Tentative timeline

17 January 2021  
Deadline for  
proposals  
submission

Spring 2022  
Proposals  
evaluation by  
Evaluation panel

June 2022  
Notification of  
accepted proposals  
and feedback sent  
to applicants

October 2022  
First possible start  
date for accepted  
projects



# WHICH Feedback will you Receive?

- Notification of selection decision
  - ✓ Proposal below quality threshold, or
  - ✓ Proposal above quality threshold but not selected due to lack of funding, or
  - ✓ Proposal selected
- Review feedback
  - ✓ A consensus report summarising the panel's view on the proposal and funding recommendation to CHIST-ERA is sent to the project coordinator
    - Subsequently report is distributed to all partners by project coordinator
- List of selected projects is published on CHIST-ERA webpage
- If the proposal is selected for funding, contractual negotiation phase is launched with respective funding organisations involved in the project



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**Open Science Policy**



# Why Open Access?

- Scientific transparency
- Reproducibility
- Visibility and democratisation of research
- Avoid triplicating payment of the same research
  - ✓ Researchers
  - ✓ Publications
  - ✓ Access to publications/data



- ❑ Clear strategic positions in Europe in favour of Open Science
  - ✓ Plan S (signed by many stakeholders)
  - ✓ Open Science policies in many funding organisations
    - Requirements of Open Access to publications have become a standard
    - Open Access to research data is more heterogeneous
  
- ❑ Researchers have been doing Open Science for decades
  - ✓ Publications on open archives
  - ✓ Sharing data on open access repositories

- ❑ Good practices of the research community supported
  - ✓ Commitment of Open Access within Call 2021
    - Publications in Open Access (Green or Gold routes)
    - Underlying data FAIRly open\* in archives
    - **No embargo**
  - ✓ Data Management Plan (DMP) for accepted projects
    - **Within 3 months** of project start
    - Update on a yearly basis
  
- ❑ Open Science Coordinator: New role for projects
  - ✓ Planning of Open Science (activities, costs)
  - ✓ Monitoring throughout the project lifetime

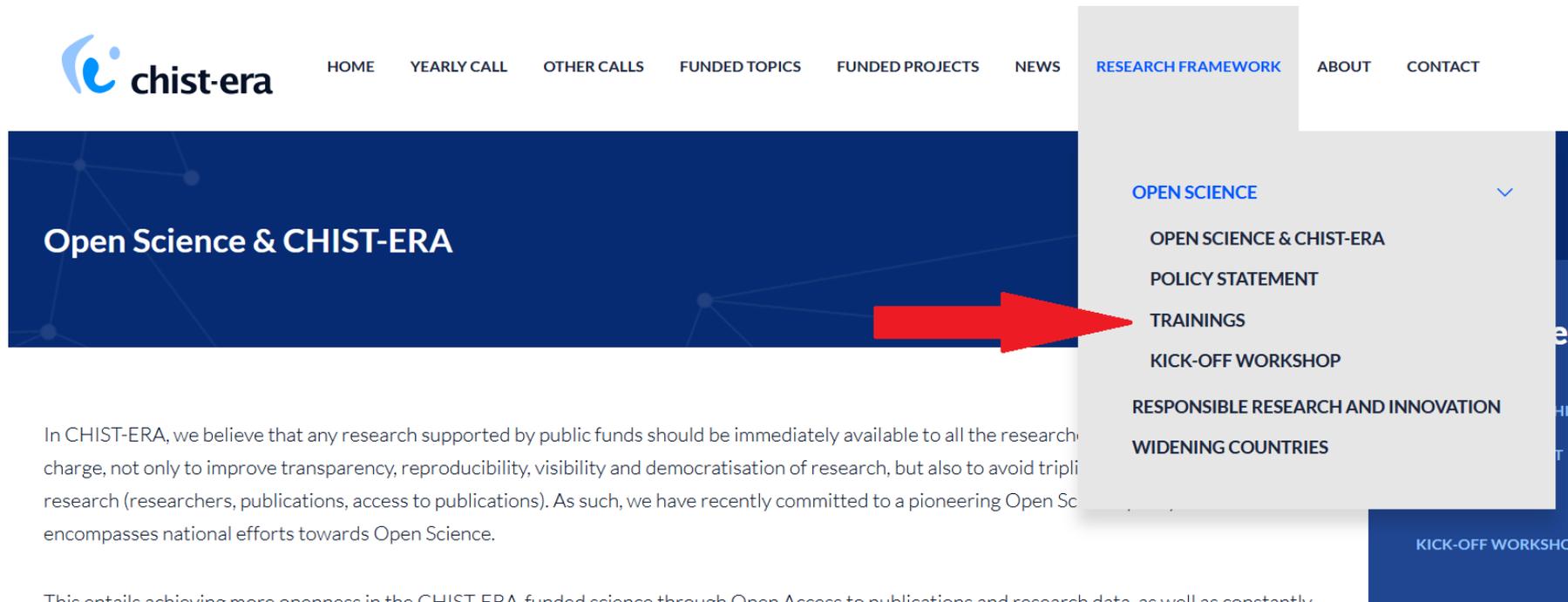
*\* Following the principle “as open as possible, as closed as necessary”*



# Complementary Developments

- Appreciation of Open Science practices within the project evaluation (mainly *Impact* criterion)
- Reinforcement of DORA declaration principles
- See call documents for more details

## □ Webinar on Open Science (*OpenAIRE, December 2020*)



The screenshot shows the CHIST-ERA website. The navigation bar includes: HOME, YEARLY CALL, OTHER CALLS, FUNDED TOPICS, FUNDED PROJECTS, NEWS, RESEARCH FRAMEWORK, ABOUT, CONTACT. The 'RESEARCH FRAMEWORK' dropdown menu is open, showing: OPEN SCIENCE (with a downward arrow), OPEN SCIENCE & CHIST-ERA, POLICY STATEMENT, TRAININGS, KICK-OFF WORKSHOP, RESPONSIBLE RESEARCH AND INNOVATION, and WIDENING COUNTRIES. A red arrow points from the 'TRAININGS' item in the dropdown menu to the 'Open Science & CHIST-ERA' page header. The page header also features the CHIST-ERA logo and the text 'Open Science & CHIST-ERA'. Below the header, there is a paragraph of text and a 'KICK-OFF WORKSHOP' button.

In CHIST-ERA, we believe that any research supported by public funds should be immediately available to all the researchers in charge, not only to improve transparency, reproducibility, visibility and democratisation of research, but also to avoid tripling research (researchers, publications, access to publications). As such, we have recently committed to a pioneering Open Science strategy that encompasses national efforts towards Open Science.

This 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.

At the level of CHIST-ERA, Open Science aspects are positively appreciated already during the evaluation, whose criteria explicitly assess the Open Science practices and activities planned within each project. In addition, we refrain from using wrong proxies (e.g. impact factors) during the assessment of the projects and give higher weight to the scientific content of a paper than to publication metrics, in line with the principles of the San Francisco Declaration on Research Assessment. CHIST-ERA is a signatory of the [DORA](#) declaration.



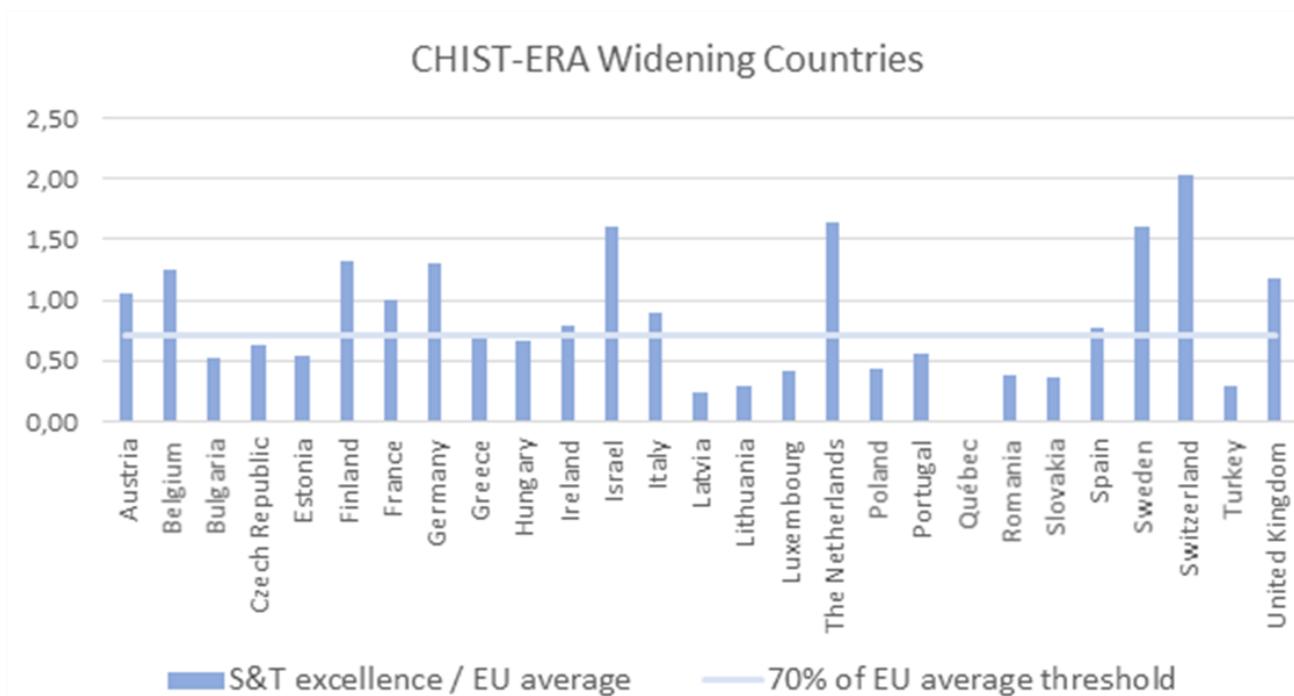
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## Widening Countries Policy



- ❑ Widening Countries: List of low performing countries in R&I established by the EC
  - ✓ To capture the notion of S&T excellence at the national level a composite indicator was designed along four variables
  - ✓ I.e. the numbers of:
    - Highly cited publications
    - High quality patent applications
    - World class universities and research institutes
    - High prestige research grants
  - ✓ A country falls into the so-called Widening Countries group when its score is below 70% of the European Union average

# CHIST-ERA Widening Countries



- ❑ Widening Countries in Call 2021: Bulgaria, Czech Republic, Estonia, Lithuania, Luxembourg, Poland, Slovakia and Turkey



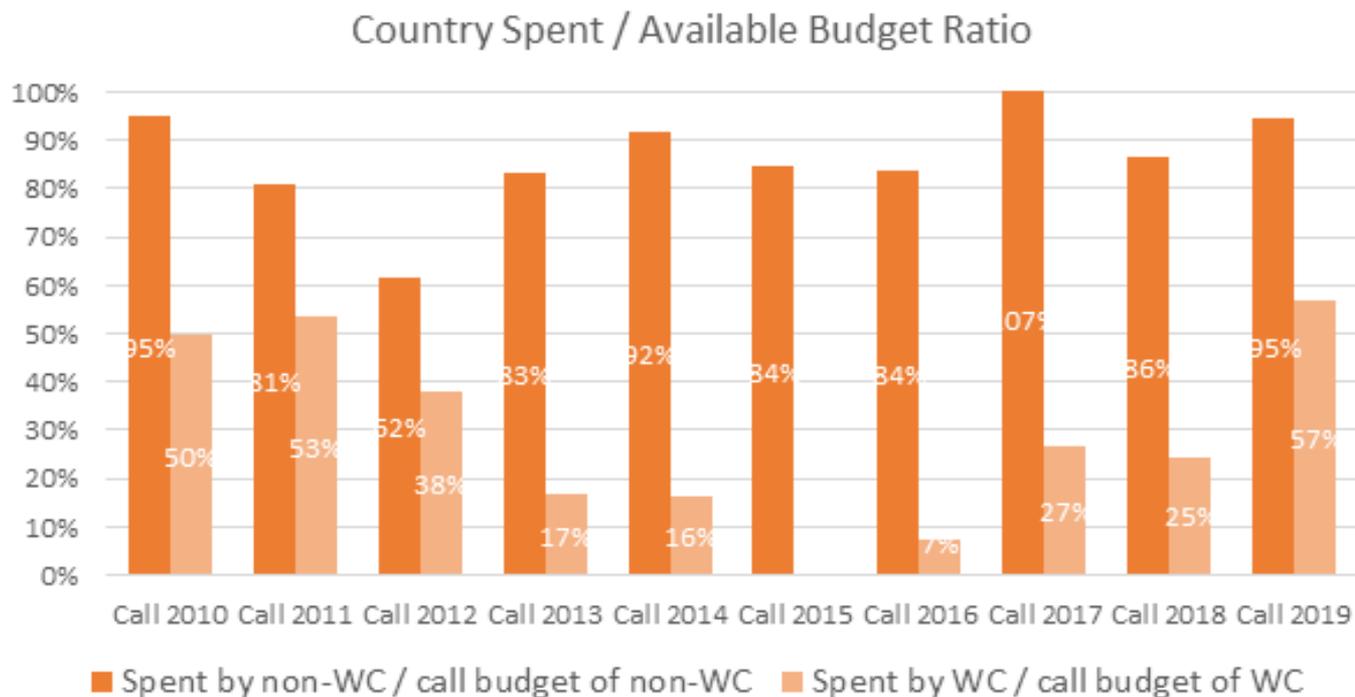
## ❑ Spread excellence

- ✓ CHIST-ERA, as a funding instrument of collaborative projects following competition, can be instrumental
  - In opening well established non-Widening Countries research networks to most talented researchers in the Widening Countries
  - Conversely, broader engagement of the Widening Countries research communities has the capacity to enrich the European scientific and technology landscape with varied perspectives and scientific and technology challenges to tackle

- ❑ Add a call selection criterion that prioritises projects with Widening Countries in case of ex aequo projects
  - ✓ Objective: To create a strong incentive reflecting the strategic focus of CHIST-ERA towards participation of the Widening Countries
- ❑ Disseminate call opportunities via dedicated communication (infodays, matchmaking event...)
  - ✓ Objective: To make well known the policy orientation of CHIST-ERA
- ❑ Develop a Partner Search Tool
  - ✓ Objective: To help opening non-Widening Countries research networks to researchers in the Widening Countries
- ❑ Grant an additional funding when the coordinator is in the Widening Countries
  - ✓ Objective: To help homogenise the distribution of the coordinators across CHIST-ERA countries

# Funding Opportunity

- It is noticed that the ratio budget spent/available budget is lower for the funders in Widening Countries





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## Application Procedure & Recommendations



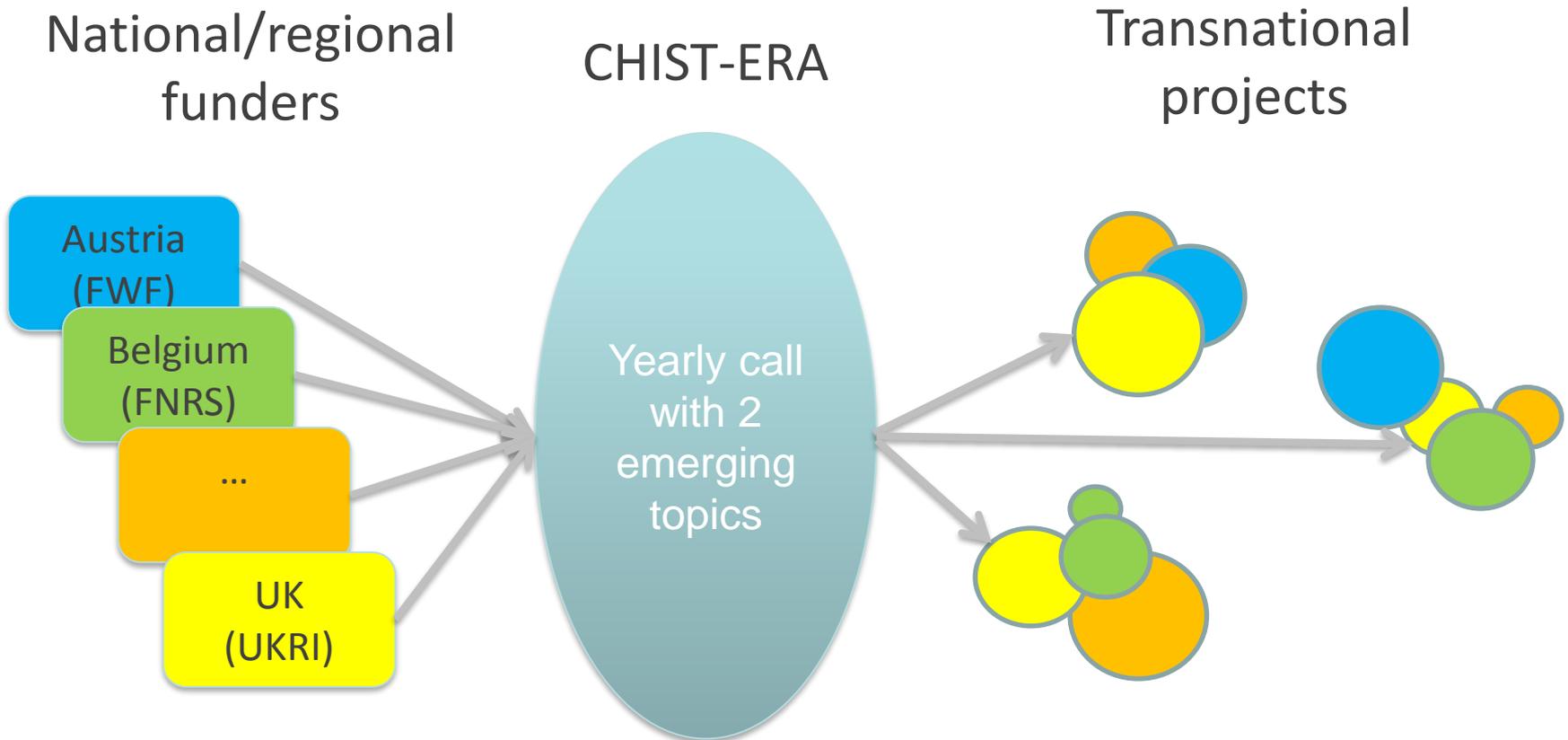
## European level

- ✓ Formation of collaborative projects
- ✓ Submission of proposals
- ✓ Evaluation and ranking
- ✓ Funding recommendation
- ✓ [Contact point: CHIST-ERA Call Secretariat](#)

## National/Regional level

- ✓ One [National/Regional Contact Point](#) for the funding organisation
- ✓ For some countries, a separate application to the respective funding organisation by a project partner from that country is needed
- ✓ Formal implementation, grant agreement

- ❑ No funding across borders
  - ✓ Each project partner is funded separately by the respective funding organisation (no common pot)





# Application Procedure (1/2)

- One-step submission procedure
  - ✓ Proposal: approx. 25-35 pages
- Each consortium specifies one coordinator
  - ✓ Single point of contact for the call secretariat
  - ✓ The coordinator must be based in a country participating in the call
- For each project partner, one PI is the point of contact at the national/regional level
- Prior to submission, each PI has to consult with her/his funding organisation regarding eligibility issues:
  - ✓ Eligibility of the institution (university, academic institutions, industry,...)
  - ✓ Position of the PI (e.g. permanent staff,...)
  - ✓ Eligible costs
- The proposal is submitted through the ANR online submission platform
- Some funding organisations require additional national/regional forms

# Application Procedure (2/2)

Welcome to the ANR's online project submission platform.  
You selected the Call:  
CHIST-ERA (2021) 2020

- To create a proposal:
    - You first have to register. Please fill in the following fields and then validate:  
If you already have an account on the submission site, we advise you to use the same email address to avoid the multiplication of credentials.
- Email address:
- 
- Following the validation:
    - If you don't have already an account on the submission site, a confirmation email and an activation email will be sent to you.
    - If you already have an account on the submission site, only a confirmation email will be sent to you.
  - Please access then the [authentication page](#).

#### Some tips to help you du

- Each modified page must be saved before going to the next one. If you do not click on save, all the information you entered after the last save will not l
- Be careful about the Call closing date and time. No changes will be possible after the submission deadline.

We thank you for your interest and



European Coordinated Research on Long-term Challenges in  
Information and Communication Sciences and Technologies  
ERA-NET

[www.chistera.eu](http://www.chistera.eu)

**Call 2021**  
**ELECTRONIC SUBMISSION SYSTEM**  
**GUIDELINES FOR APPLICANTS**



## Recommendations (1/2)

- CHIST-ERA is not ERC: Collaboration, science and technology are essential ingredients
- Novelty and interdisciplinarity are important
  - ✓ Incremental refinements rarely make it, high-risk does
  - ✓ Collaboration driven by joint questions, goals and mutual learning
- A long term vision is essential but also a plausible idea on how to get there
- Strong encouragement to involve Widening Countries in the call
- Improve your project by integrating appropriate open access measures
- Consider altogether the Call Announcement, the evaluation criteria and the proposal template



## Recommendations (2/2)

- Make sure that your partners have checked their eligibility with the respective funding organisations
- Take into consideration national/regional budget constraints. Projects are expected to be at maximum in the range of 0.8 – 1 M€
- Do not hesitate to contact the CHIST-ERA call secretariat and your national/regional contact points
- Get used to the electronic submission system sufficiently in advance to prevent any technical risk

- Call 2021 information
  - ✓ Anna Ardizzoni (ANR – France) - [chistera@anr.fr](mailto:chistera@anr.fr)
- All Call 2021 contacts
  - ✓ <https://www.chistera.eu/call-2021-announcement>
- [Call 2021 newsletter](#)
- [Website](#)
- [Newsletter](#)
- [Twitter](#)
- [LinkedIn](#)

Country	Funding organisation	Participation per call topic		Contact point
		NOEMS	OSNEM	
Belgium	F.R.S.-FNRS	Yes	Yes	<a href="mailto:international@frs-fnrs.be">international@frs-fnrs.be</a>
Belgium	FWO	Yes	Yes	<a href="mailto:eranet@fwo.be">eranet@fwo.be</a>
Bulgaria	BNSF	Yes	Yes	<a href="mailto:Aleksandrova@mon.bg">Aleksandrova@mon.bg</a>
Czech Republic	TACR	Yes	Yes	<a href="mailto:Aneta.Lizancova@tacrcz">Aneta.Lizancova@tacrcz</a>
Estonia	ETAg	Yes	Yes	<a href="mailto:Maarja.Soonberg@etagee">Maarja.Soonberg@etagee</a>
Finland	AKA	Yes	Yes	<a href="mailto:Katrine.Mahlamaki@aka.fi">Katrine.Mahlamaki@aka.fi</a>
France	ANR	Yes	Yes	<a href="mailto:Anna.Ardizzoni@anr.fr">Anna.Ardizzoni@anr.fr</a>
Hungary	NKFIH	Yes	Yes	<a href="mailto:edina.nemeth@nkfih.govhu">edina.nemeth@nkfih.govhu</a>
Ireland	IRC	Yes	Yes	<a href="mailto:RSweeney@research.ie">RSweeney@research.ie</a>
Israel	InnovationAuth	Yes	Yes	<a href="mailto:Rachel.L@iserd.org.il">Rachel.L@iserd.org.il</a>
Lithuania	LMT	Yes	Yes	<a href="mailto:Laura.Kostelnickiene@lmt.lt">Laura.Kostelnickiene@lmt.lt</a>
Luxembourg	FNR	Yes	Yes	<a href="mailto:Helena.burg@fnr.lu">Helena.burg@fnr.lu</a>
Poland	NCN	Yes	Yes	<a href="mailto:Alicja.Dylag@ncn.gov.pl">Alicja.Dylag@ncn.gov.pl</a>
Slovakia	SAS	Yes	Yes	<a href="mailto:Panisova@up.upsav.sk">Panisova@up.upsav.sk</a>
Spain	AEI	Yes	Yes	<a href="mailto:era-ict@aei.gob.es">era-ict@aei.gob.es</a>
Switzerland	SNSF	Yes	Yes	<a href="mailto:chistera@snf.ch">chistera@snf.ch</a>
Taiwan	MOST	Yes	Yes	<a href="mailto:cmtom@most.gov.tw">cmtom@most.gov.tw</a>
Turkey	TÜBİTAK	Yes	Yes	<a href="mailto:Utku.Cetin@tubitak.gov.tr">Utku.Cetin@tubitak.gov.tr</a>
United Kingdom	UKRI	Yes	No	<a href="mailto:Maryam.Crabbe-Mann@epsr.ukri.org">Maryam.Crabbe-Mann@epsr.ukri.org</a> with <a href="mailto:Rachel.Lamb@epsr.ukri.org">Rachel.Lamb@epsr.ukri.org</a> in cc



Thank you!

