

JPI Climate Topic 2: Russian Arctic and Boreal Systems

General info

Final submission date

Full call title European JPI Climate Joint Call for Transnational Collaborative Research Projects - Topic 2 : Russian Arctic and Boreal Systems

Background

The Joint Programming Initiative "Connecting Climate Knowledge for Europe (JPI Climate)" was established as part of the effort to deal with climate change as one of the Grand Challenges. JPI Climate seeks to facilitate integrated climate knowledge and decision support services for societal innovation towards a climate-friendly and climate-proof Europe. JPI Climate provides a platform for aligning national research priorities, coordinating the research base in Europe, and responding to the needs of the European society, through innovative inter- and trans-disciplinary approaches and flexible collaborative governance.

For further information see: www.jpi-climate.eu

In this call, collaborative research projects will be selected using a 2-step procedure following the following timeline:

Pre-proposal deadline: 29 November 2013
Invitation to submit full proposals: Mid-February 2014
Full proposal deadline: 28 March 2014, 12:00 (noon) CET
Funding decision announced: Summer 2014
Start of projects: Fall 2014

The aim of the call

This JPI Climate Joint Call for Transnational Collaborative Research Projects will provide support for top-quality research projects on topics that are of high societal relevance in Europe and globally, recognising that such challenges require joint efforts through multinational approaches. JPI Climate is seeking proposals from consortia consisting of partners from the participating European countries as well as others. Consortia should preferably bring together different scientific disciplines to address the issues within the scope of the described call topics. The projects should display clear links to decision-makers and users of climate knowledge as well as potential change agents in society. Following the recommendations made by the European Commission to reinforce the European Research Area partnership for excellence and growth (COM (2012) 392 final), activities supported within JPI Climate need to be coherent with other on-going national and international initiatives, including European Union programmes. They should be genuinely collaborative and demonstrate that more will be achieved by working together than by individual partners working on their own.

Who can apply?

The call is open to international consortia of researchers and research groups from academic and other organisations that have a strong focus on research. For eligible participant types for each country, please consult the eligibility criteria in the enclosed National Annexes (Annex 3).

For the call topic on Russian Arctic and Boreal Systems, consortia must include at least one partner from the Russian Federation, based in a research institution, funding its own participation in the project, and partners from at least two of the European countries participating in the call: Belgium, Denmark, Finland, Norway, Sweden, the UK.

Russian partners are required to document their contribution to the collaborative project, confirmed by a Letter of Support.

Researchers from countries others than those participating in the funding of the call may participate in the research project at their own expense.

Thematic framework

The call aims to improve the fundamental understanding of key biological and physical drivers and feedbacks in Russian Arctic/Boreal system (tundra-taiga-coastal region) to enable better representation of these processes in climate models. In particular, proposals should address the following issues:

1. Improving the understanding and the modelling of permafrost and its impact on the capture, storage and release of GHGs;
2. The dynamics and drivers of climatically relevant gases in the terrestrial, freshwater and coastal environments. The call topic is further described in the enclosed full description (Annex 1).

Financial framework

The call is funded through a distributed pot provided by its funding partners. Within each selected consortium, funding of the participating researchers will be provided by their respective national funding organisations according to their normal terms and conditions for project funding. The amount of public funding available for transnational collaborative research projects through this JPI Climate call is approximately EUR 11.64 million of which approximately 3.06 million is allocated the call topic Russian Arctic and Boreal Systems. The table in Annex 4 shows which funding organisations are participating in the call and the estimated available funding per country.

What will funding be available for?

Under this call, funding will be granted to transnational collaborative research projects that consist of partners from at least three participating countries; preferably bring together different scientific disciplines in addressing the issues within the scope of the described call topic; and demonstrate clear links to users of climate knowledge. This collaborative research project funding scheme is intended to promote inter-institutional collaboration between researchers in different European countries. The project should be genuinely collaborative and demonstrate that more will be achieved by working together than by individual partners working on their own. Funding will be granted for transnational research collaboration as specified and described in the grant proposal. Applications must contain a description and budget of the activities for which funding is sought for each partner of the consortium. Further information is available in the call topic description (Annex 1) and the National Annexes (Annex 3).

In keeping with JPI Climate's sustainability principle, considerations relating to climate change challenges must be integrated into all the activities under JPI Climate; applicants are therefore requested to consider their own carbon footprint as well as use of energy and other resources when planning the project. In particular, proposals should clarify how the project incorporates considerations relating to, and seeks to minimise, its own climate footprint, and how it will contribute to a climate-friendly research system, e.g. in terms of (virtual) meetings, travel and energy use. Please consult the relevant check-list on the JPI Climate website for further advice:

<http://www.jpi-climate.eu/joint-actions/calls/2013callclimatefriendlyclimateresearch>

In light of the recommendations made by the European Commission to reinforce the European Research Area partnership for excellence and growth (COM (2012) 392 final), projects should strive to use open recruitment of positions within projects, to publish their scientific work in open access journals or the like, and to make joint use of available research infrastructures.

Eligibility criteria

- The application must be written in English, with all required elements completed and all mandatory attachments attached. The application must be completed using the designated application instructions, and must be in conformance with the national eligibility criteria.
- Each project proposal must combine significant contributions by eligible partners from at least three countries participating in the call. It is possible to have more than one participant from a country in each consortium. However, consortia should aim for balanced national contributions to the research project.
- Proposals to the call topic on Russian Arctic and Boreal System must include at least one partner from the Russian Federation, based at a research institution that funds its own participation in the project, and partners from at least two of the following European countries: Belgium, Denmark, Finland, Norway, Sweden, the UK. Each partner in the consortium must fulfil the respective national eligibility criteria for research grant application presented in the National Annexes (Annex 3).
- Each applying consortium should identify a Leading Principal Investigator for the proposal, who is officially responsible for all communications with the Topic Programme Office (NordForsk), including submission of the proposal.
- Researchers from countries others than those participating in the funding of the call may participate in the research project at their own expense, and should document their contributions (direct funds or in kind) in the application budget.
- Funding will be provided for collaborative research activities for a time frame of 2-4 years, as described in the proposal, in the call topic description (Annex 1) and in line with national eligibility criteria as presented in the National Annexes (Annex 3). A budget showing the anticipated total costs of the project, including a specification of the requested funding from each JPI Climate participating financier must be submitted, using the template in the application portal.
- Russian partners are required to document their contribution to the collaborative project, confirmed by a Letter of Support.
- Full proposals (in the second stage) will have to include a Scientific Impact and Knowledge Dissemination Strategy, including financial provision for dissemination of research outputs, allowing for open access to research results and produced data (primary and meta data) among the scientific community as well as making use of other suitable means of dissemination of results.

Evaluation criteria

Full proposals will be reviewed under the following evaluation criteria on a scale from 0-5*:

1. Scientific Quality/Intellectual Merit (proposals have to score minimum 4 points)
 - Scientific quality and innovativeness of the objectives and approach of the research plan
 - Added scientific value to be expected from the international research collaboration
2. Envisaged Societal Relevance and Impact (proposals have to score minimum 3 points)
 - Relevance of the goals and objectives of the research plan relative to the call theme
 - Contribution to overall JPI Climate Vision (See Vision chapter in the [JPI CLIMATE Strategic Research Agenda](#))
 - Knowledge co-production with stakeholders / involvement of relevant stakeholders / awareness of stakeholders ("stakeholders" refers to actors outside the scientific community e.g. change agents and knowledge partners such as policymakers, regulators, NGOs, municipalities / local authorities or business and industry)
 - Envisaged societal impacts (e.g., capacity and community building, networking effects, contributions to societal welfare and well-being, policy-related or economic impact)
3. Quality of the Consortium (proposals have to score minimum 3 points)
 - Competence and expertise of team and complementarities of consortium (inter-disciplinary / inclusion of all necessary expertise /expertise in managing inter- and trans-disciplinary research collaborations, gender balance)
 - Balanced cooperation
 - Level of shared responsibility and commitment in the incorporation of relevant scientific disciplines in terms of an active interdisciplinary project co-design, as appropriate
4. Resources and Management (proposals have to score minimum 4 points)
 - Appropriateness and justification of work plan, resources and funding requested
 - Considerations relating to the JPI Climate sustainability principle: Consideration of projects? climate footprint and contributions to a climate-friendly research system, e.g. in terms of (virtual) meetings, travels and energy use.

* The scores are read as: 0= Not possible to evaluate / Fail; 1=Poor; 2=Fair; 3=Good; 4=Very Good; 5=Excellent

Selection procedure

The call is being announced in two stages, and final funding decisions will be taken in the summer of 2014.

In the presently open second stage, Full proposals are to be submitted to JPI Climate electronically through the NordForsk Application Portal (<https://funding.nordforsk.org/nordforsk>) no later than 28 March 2014 by 12:00 (noon) CET. Proposals must be submitted in English. No attachments are allowed apart from those specifically requested in the application form. The application form is based on the eligibility criteria and evaluation criteria stated above, and can be found in its complete version via the NordForsk Application Portal. In order to access the application form you must register as a user at the Application Portal and create an application draft.

It is anticipated that full proposals will evolve somewhat from the previously submitted pre-proposal (including personnel), but major aspects should remain broadly the same. If you are making significant changes, or if you are unsure, then details of the change should be referred to the Topic Programme Office (NordForsk) for approval.

The call is governed by two Programme Coordinators' Committees (PCC, one for each call topic), formed by the partner organisations, funding the call. All applications will be evaluated by an external Panel of Experts (PoE, one for each call topic) that encompasses the scientific expertise necessary for assessing the call topic as well as expertise in the field of policy and decision-making.

Full proposals will be evaluated by at least two External Reviewers as well as the Panel of Experts, following the above-mentioned evaluation criteria for full proposals. Based on the second stage peer review, as well as availability of funds, the Programme Coordinators' Committee will take the final decision on which projects to recommend for funding in June 2014.

Within each selected consortium, funding of the participating researchers will be provided by their respective national funding organisations, which will sign contracts with the respective consortium partners according to their normal terms and conditions for project funding.

Project monitoring

Should your application be successful, a consortium agreement (including provisions relating to Intellectual Property Rights) is to be drawn up between the participating researchers and shared with the relevant funding organisations.

Using their own budgets, the LPI and PIs should participate in convening joint meetings, at project mid-term and completion, assembling representatives of all projects related to a given JPI Climate call topic. Such meetings provide an opportunity to exchange views, and share questions, progress and output vis-à-vis the scientific and user community, and should be organised in conjunction with major international scientific events. Associated projects reports should be submitted by the LPI to the JPI Central Secretariat upon mid-term and completion. Each PI must also fulfil national reporting requirement(s) of his/her national funding organisation.

Contact

National Contact Points and Topic Programme Offices are listed in Annex 2.

Technical support NordForsk: +47 905 51 520 / support@nordforsk.org

JPI CLIMATE

First joint call 2013, call topic 2

Russian Arctic & Boreal Systems

Objectives and relevance of the call

Through improved knowledge, JPI Climate aims to enhance our understanding of the climate and improve climate prediction capabilities for Europe and regions of key interest for European policy. Underlying these ambitions is the ongoing improvement in our understanding of key climate processes, including feedbacks, and climate phenomena. Improved observation, understanding and modelling of the key processes and mechanisms in those regions that have been recognised as the main hot-spots of climate change are therefore needed.

The Pan-Eurasian region is of crucial importance to enhancing our knowledge and understanding of how the climate will change. Pan-Eurasia, and especially its Russian tundra-taiga and coastal regions, is very vulnerable to change and, in addition, provides an important source of climate feedbacks. In light of the significance of the area and the overall scarcity of detailed information, more investigation is called for.

The aim of this call is to improve the fundamental understanding of the key biological and physical drivers and feedbacks in Russian Arctic/Boreal system (tundra-taiga-coastal region), through observations and modelling efforts in the Pan-Eurasian region, to enable better representation of these processes in climate models. Projects under this call should focus on enhancing the understanding of the key processes and improved parameterisation in the climate/Earth system models.

Through this joint call, JPI Climate will support high-quality research in the Russian domain of the Pan-Eurasian area, which represents a strategic priority for climate change research both nationally and internationally. The joint research call is targeted towards enhancing the knowledge of key processes in the tundra-taiga-coastal regions related to long-lived greenhouse gases (GHGs) such as carbon dioxide and short-lived climate forcers (SLCFs), notably methane, which are important, yet poorly quantified players in the Earth System Models. The topics chosen for this call are of the highest relevance to JPI Climate and will be best dealt with through a multinational approach.

The call is designed to strengthen the coordination of research activities at the European level, and collaboration will be extended beyond Europe through the involvement of Russian researchers and funders. While many research groups in the different European countries already have ongoing research activities and bilateral cooperation with scientists in Russia, this cooperation is widely dispersed and not coordinated, which means there is a risk of fragmentation and duplication of research efforts and resources at the European level. Through this call, JPI Climate aims to streamline the research activities in the Russian domain and promote synergies and enhance the efficiency of the transnational research activities in the Russian Arctic/Boreal (tundra-taiga-coastal) region. The proposed call is therefore important in terms of both scientific outcome and the enhancement of international cooperation within JPI Climate and beyond.

Contribution to SRA and links with modules FTAs:

This joint call is of high relevance to the JPI Climate Strategic Research Agenda (SRA)¹, principally in relation to Module 1 "Moving towards reliable decadal climate predictions". Section 1.3.3: "Observing, understanding

¹ <http://www.jpi-climate.eu/publications/10826597/JPI-Climate-Strategic-Research-Agenda>

and modelling key processes/mechanisms” points out that there are fundamental limitations in our knowledge that affect our ability to realistically simulate climate variability and our confidence in climate change projections. These limitations can be only overcome by improving our understanding of the basic processes and feedbacks in the main hot-spots of climate change.

JPI Climate anticipates funding 3–5 transnational collaborative research projects within this call topic.

Call topics

- 1. Improving the understanding and the modelling of permafrost and its impact on the capture, storage and release of GHGs.**
- 2. The dynamics and drivers of climatically relevant gases in the terrestrial, freshwater and coastal environments.**

Topic 1: Improving the understanding and the modelling of permafrost and its impact on the capture, storage and release of GHGs.

The Russian Arctic regions are characterised by the presence of permanently frozen ground (permafrost) which is often formed during previous glaciations. This represents a globally important store of organic carbon, a significant proportion of which resides in the upper metres of permafrost that are particularly vulnerable to climate change. Degradation of the permafrost leads to multiple effects on the environment, including disrupting ground stability, and will therefore have a major impact on local populations. The thawing of permafrost in the Arctic regions promotes the decomposition of the organic matter it contains, and thus increases the emission of GHGs. The magnitude of carbon losses through CO₂ and CH₄ emissions from thawing permafrost regions is largely unknown with a broad range of current estimates. In addition, many Earth System Models either do not include these processes, or lack detailed process descriptions.

It is therefore necessary to understand and accurately quantify the processes involved in the formation of permafrost and the capture of organic matter. There is also a need to understand how the thawing of the near-surface permafrost and resulting changes in the physical and chemical environment, including the influence of snowpack, results in the release of GHGs. The complex interactions between the changing physical and biogeochemical properties in the region need to be better incorporated into numerical models if we are to accurately predict the impact of the warming Arctic on GHG release and the implications of this on the global climate system.

Topic 2: The dynamics and drivers of climatically relevant gases in the terrestrial, freshwater and coastal environments.

The Russian Arctic/Boreal system is a source of both long-lived climate gases (notably CO₂ and nitrous oxide) and short-lived climate forcers - SLCF (radiative active climate agents), which include methane and non-methane volatile organic carbon (MMVOC). Interactions of nitrogen oxides and hydrocarbons result in the formation of ozone, a very effective SLCF. Regional modelling studies indicate that tundra regions across the Arctic have recently been acting as a weak sink of atmospheric CO₂ and current models suggest this will continue throughout the 21st century in response to the projected changes in climate. Boreal forests are also a CO₂ sink, but forest fires (and peat fires) generate black carbon, which is another SLCF that alters the albedo of snow and ice and absorbs incoming solar radiation in the atmosphere. Nitrous oxide and particularly methane in the Arctic are more recently recognised as emerging issues for climate warming. Methane emissions are highly variable, both temporally and spatially, depending on factors such as hydrological state, temperature and

even biological community structure. Thawing permafrost can lead to both dry and wet conditions, which result in significantly differing balance of emissions

To estimate the significance for global warming of organic carbon reservoirs it is not sufficient to simply measure the direct release of GHG from the Siberian taiga and tundra into the atmosphere. It is also necessary to quantify the organic carbon carried by the rivers draining into the Arctic Ocean and the contribution of permafrost soils eroded from the Siberian coastline. Furthermore, large quantities of GHG are buried in former terrestrial permafrost soils now located underneath sediments across the vast Siberian continental shelf. Previous work has identified substantial leakage of GHG from these shelf seas into the water column and subsequently into the atmosphere. However the knowledge of the amount of GHG stored, its stability and the process of sub-seafloor permafrost degradation is at best rudimentary. It is clear that the release into the atmosphere is substantial and is likely to increase as a response to warming of the Arctic Ocean and the loss of sea ice cover.

Aerosols released from terrestrial and aquatic environments can affect clouds and cloud formation in various ways, both directly and indirectly. Highly active secondary chemical agents such as ozone formed in the overlying atmosphere bring further complexity to identifying and understanding the dynamics of climate relevant GHG's in the Arctic environment. Observing aerosol processes pushes our current technology to the limits and challenges our ability to describe the number, distribution and properties of these aerosols over several orders of magnitude. A necessary addition to observation is numerical modelling of processes and transport models and more detailed descriptions. A main goal of this topic should be to quantify natural sources of primary aerosols and the precursor gases for production of secondary aerosols.

As with aerosols themselves, the chemical processes and resulting products in these environments are difficult to measure, and process and chemical tracer modelling is necessary to interpret observations. One main goal is to quantify the importance of source regions and source types for the Boreal concentrations of anthropogenic aerosols and to determine their transport pathways.

The lifetime of end-products of both aerosols and chemical species can be weeks or months, and local production aerosols and species will thus have a regional effect.

In addition to radiative effects, the SLCF's such as black carbon are important for pollution and effects on humans and the biosphere on local and regional scales.

SLCFs may be having climate impacts in the Arctic that are comparable to that of long-lived GHGs. In order to estimate the effects of SLCFs on the changing climate, the investigation of the dynamics and drivers in the different environments of the Eurasian region is needed.

ANNEX 2 JPI CLIMATE JOINT CALL

CALL TOPIC 2: RUSSIAN ARCTIC & BOREAL SYSTEMS

NATIONAL CONTACT POINTS (NCP)

Belgium/BELSPO:

BELSPO:

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Belgium/FWO:

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*For general queries and further information about
eligibility and the application process:*

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*For queries relating to the NERC Arctic Research
Programme, international partnerships and
access to Arctic regions, facilities or
infrastructure:*

Dr Cynan Ellis-Evans

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General questions about the call and call procedures may also be directed to the Topic Programme Office:

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NordForsk

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Technical Support (Application Portal):

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JPI-Climate Transnational Collaborative Research Projects

National Annex: BELGIUM / BELSPO

Partners: This call is supported by [Belgian Science Policy Office](#)

Notice: Depending on all conditions of eligibility and peer review being met, the budget earmarked by the participating [funding agency](#) for this call will be:

Topic 1: Social transformation in the face of Climate Change Topic: up to **0.3 MEUR** (according to exchange rates at time of funding).

Topic 2: Russian Arctic & Boreal Systems Topic: up to **0.3 MEUR** (according to exchange rates at time of funding).

The official national call announcement for BELGIUM has been published on www.belspo.be. Details of the call and the application process are provided via the *JPI Climate* website. Applicants are advised to contact their National Contact Point before starting to prepare proposals for application. For [Belgium/BELSPO](#) enquiries please see below.

Eligibility and funding modalities for BELSPO:

- The call is intended for the whole Belgian research community: universities, university colleges, public scientific institutions and non-profit research centres. In order to be eligible for funding, non-profit research centres should have as (main) objective scientific research and / or scientific services, and have this registered in their statutes..
- The Federal Science Policy Office has a budget of approximately € 600,000 Euro to finance Belgian research teams in this call, for both topics. The distribution of funds over the 2 topics is preliminary. It will depend upon the evaluation. The project budget is reserved exclusively for the project activities
- The different categories of expenditure financed by BELSPO are
 - Staff costs: Pre-tax wages associated with increases in the cost of living, employers' social security and statutory insurance contributions, as well as any other compensation or allowance due by law and secondary to the salary itself and tax-free scholarships. Tax-free scholarships refer to a grant subject to a tax exemption under the tax laws. BELSPO prefers staff to be hired under a labour contract
 - General operating costs: this includes all current expenditures related to the project's implementation such as usual supplies and products for the laboratory, workshop and office, documentation, travel and accommodation, use of IT facilities, software, etc. The total amount of these operational costs is set at a flat rate of 15% maximum of the staff budget for the coordinator and 10% maximum of the staff budget for the other partners.
 - Specific operating costs (invoices will be required): this includes all specific operating costs directly linked to the execution of the project such as costs for

analysis, organisation of workshops, maintenance and repair of specific equipment purchased by the project, surveys, etc.

- Equipment: purchase and installation of scientific and technical apparatus and instruments, including computer hardware. Equipment needs to be purchased in the first half of the project.
- Overheads: institutions' general overheads that cover, in one lump sum, administration, telephone, postal, maintenance, heating, lighting, electricity, rent, machine depreciation, and insurance costs. The total amount of this item may not exceed 5% of the total staff and operating costs.
- Subcontracting: Expenses incurred by a third party to carry out tasks or provide services that require special scientific or technical competences outside the institution's normal area of activity. The amount may not exceed 25% of the total budget allocated to the Belgian partner concerned.
- It is expected that applications to this call will be Collaborative Research Grants with the consortium composition as defined in the call document, and BELSPO will fund the Belgian partner of any successful trans-national collaboration.
- Evaluation: in case of equal scientific quality, BELSPO will give priority to a federal research institute.
- The research teams (in this case particularly for Topic 1) that are granted within BRAIN-be are requested to participate in an international JPI consortium with the funding received by BRAIN-be. If selected after evaluation in this call, BELSPO can provide a topping up of maximum 50 000 Euro for international integration of the BRAIN-be research.
- Since also FWO will fund successful research projects, the Belgian (Flemish) research team has to indicate by which funding agency it prefers to be funded: FWO or BELSPO.

National Contact Point:
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JPI-Climate Transnational Collaborative Research Projects

National Annex: Belgium (Flanders)

Partners: This call is supported by Research Foundation – Flanders (FWO).

Notice: Depending on all conditions of eligibility and peer review being met, the budget earmarked [collectively] by the participating [Funding Agency for this call will be:

Social transformation in the face of Climate Change Topic: up to 400.000 €, being a budget of 200.000 € per projects and for 2 projects in total; 100.000 € top-up money in total, of which can be distributed to existing FWO-projects a budget up to 5000 €/project/year. (according to exchange rates at time of funding).

Russian Arctic & Boreal Systems Topic: up to 400.000 €, being a budget of 200.000 € per projects and for 2 projects in total; 100.000 € top-up money in total, of which can be distributed to existing FWO-projects a budget up to 5000 €/project/year. (according to exchange rates at time of funding).

The official national call announcement for Belgium (Flanders) has been published on the *FWO* website. Details of the call and the application process are provided via the <http://www.fwo.be/Nieuws-Europese-Oproepen.aspx> website. Applicants are advised to contact their National Contact Point before starting to prepare proposals for application. For Belgian (Flemish) enquiries please see below.

Eligibility and national funding modalities: Regulation of Research Projects FWO, art. 9: <http://www.fwo.be/Documentatie.aspx?ID=399b8594-9710-4771-9289-426ff73731e1&L=nl> .

It is expected that applications to this call will be Collaborative Research Grants with the consortium composition as defined in the call document, and FWO will fund the Belgian (Flemish) partner of any successful trans-national collaboration.

Belgian Researchers should indicate for which funding agency they are applying for (BELSPO or FWO).

National Contact Point:

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JPI-Climate Transnational Collaborative Research Projects

National Annex: Denmark

Partners: This call is supported by Danish Council for Strategic Research.

Notice: Depending on all conditions of eligibility and peer review being met, the budget earmarked by the Danish Council for Strategic Research for this call will be: 500.000 euro

Available funding for both **Social transformation in the face of Climate Change Topic** and **Russian Arctic & Boreal Systems Topic** is a total of up to 0,5 million euro.

The official national call announcement for Denmark has been published on the www.fivu.dk website. Details of the call and the application process are provided via the *JPI Climate* website.

Danish applicants have to fill in the additional form “DSCR national budget” (excel) available at application portal. The form can also be acquired by contacting the Danish National contact Point.

Eligibility and national funding modalities: The funding rules of The Danish Council for Strategic Research apply. Please see www.fivu.dk/en/jpi-funds, where you will find the document “[Guidelines – The Danish Council for Strategic Research’s rules for budgeting, grants etc. relating to transnational calls](#)” in the left column under “Forms and guidelines”. You are also welcome to contact Charlotte Demuth Pedersen for further information.

It is expected that applications to this call will be Collaborative Research Grants with the consortium composition as defined in the call document, and the Danish Council for Strategic Research will fund the Danish partner of any successful trans-national collaboration.

National Contact Point: Charlotte Demuth Pedersen
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For further questions:
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JPI-Climate Transnational Collaborative Research Projects

National Annex: AKA

Partners: This call is supported by **the Academy of Finland (AKA)**.

Notice: Depending on all conditions of eligibility and peer review being met, the budget earmarked by AKA for this call will be: 0.5 million euro

Social transformation in the face of Climate Change Topic: up to 0.5 million euro.

Russian Arctic & Boreal Systems Topic: up to 0.5 million euro.

The JPI Climate Call has been announced in the Academy of Finland's September 2013 Call for Applications (26.8.2013) as an Advance Information on International Calls. Information is found in the Academy's *website*: www.aka.fi. Details of the call and the application process are provided via the *JPI Climate* website. Applicants are advised to contact their National Contact Point before starting to prepare proposals for application. For enquiries from Finnish project participants please see below.

Eligibility and national funding modalities:

Finnish participants in the JPI Climate Call must fulfil the eligibility criteria of and follow the General Guidelines of the Academy of Finland's September 2013 Call for Applications (26.8.2013):

http://www.aka.fi/Tiedostot/Hakuilmoitukset/Hakuilmoitus_Syyskuu_2013_en.pdf

It is expected that applications to this call will be Collaborative Research projects with the consortium composition as defined in the call document, and AKA will fund the Finnish partners of any successful trans-national collaboration.

National Contact Point:

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Academy of Finland

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JPI-Climate Transnational Collaborative Research Projects

National Annex: NORWAY

Partners: This call is supported by the Research Council of Norway (RCN)

Notice: Depending on all conditions of eligibility and peer review being met, the budget earmarked by the RCN for this call will be:

Social transformation in the face of Climate Change Topic: up to €1 million.

Russian Arctic & Boreal Systems Topic: up to €0.5 million (according to exchange rates at 26 August 2013).

The national call announcement for Norway has been published on the [RCN website](#). Details of the call and the application process are provided via the [JPI Climate website](#). Applicants are advised to contact their National Contact Point (see below) before starting to prepare proposals for application.

Eligibility and national funding modalities: Under the call, the RCN will accept applications for [Researcher Project](#). It means applicants need to be a Norwegian research institution (university, university college, research institute or other institution at which research constitutes an important activity), or Nordic research-performing institutions funded by the Nordic Council of Ministers, or Nordic research institutions that receive public funding from at least three Nordic countries, including Norway.

It is expected that applications to this call will be Collaborative Research Grants with the consortium composition as defined in the call document, and the RCN will fund the Norwegian partner(s) of any successful trans-national collaboration.

Open access and knowledge dissemination

The RCN encourages open access publication. Projects receiving funding from the RCN under the present call

a) are eligible

- to account for costs arising from publication in open access journals;
- to account for costs of user-oriented knowledge dissemination activities and
- to guarantee authorship and creatorship of obtained research results and data in terms of a 'creative commons' licensing.

b) are called

- to publish key results in open access media (journals/platforms¹) and to ensure permanent and free access of obtained qualitative and quantitative data and meta-data;
- to make use of timely and user-oriented means of dissemination to reach out to stakeholders outside the scientific community and
- to include open access publications and dissemination strategy in their project plan (full proposal).

Climate-friendly climate research

Projects receiving funding from the RCN under the present call

a) are eligible to account for virtual meeting infrastructure (e.g. software licenses) that verifiably allows for substituting physical meetings;

b) are called, for any project meetings,
- to allow for virtual participation by video

¹ see e.g. Directory of Open Access Journals (<http://www.doaj.org/>)

- to select venue and starting/closing times in a way that keep distances travelled to a minimum and are easily reachable via climate-friendly modes of transport by the highest number of participants; and
- to give priority to climate-friendly catering and accommodation

National Contact Points:

Social transformation in the face of Climate Change Topic:

Eivind Hoff-Elimari

The Research Council of Norway

Postboks 2700 St. Hanshaugen

N-0131 Oslo

+47 95 42 95 17

eho@rcn.no

Russian Arctic & Boreal Systems Topic:

Torill Engen Skaugen

The Research Council of Norway

Postboks 2700 St. Hanshaugen

N-0131 Oslo

+4722037000

tens@rcn.no

JPI-Climate Transnational Collaborative Research Projects

National Annex: [Swedish Research Council](#)

Partners: This call is supported by National Research Agency (ANR, France), Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (Formas, Sweden), Research Council of Norway (RCN, Norway), Academy of Finland (AKA, Finland) and Swedish Research Council (VR, Sweden).

Notice: Depending on all conditions of eligibility and peer review being met, the budget earmarked by the participating Swedish Research Council for this call will be:

Russian Arctic & Boreal Systems Topic: up to 4 million SEK (0.46 MEUR).

The official national call announcement for the Swedish Research Council has been published on the Swedish Research Council website. Details of the call and the application process are provided via the www.vr.se website. Applicants are advised to contact their National Contact Point before starting to prepare proposals for application. For the Swedish Research Council enquiries please see below.

Eligibility and national funding modalities: The national eligibility requirements for Swedish scientists to participate in the call correspond to the Swedish Research Council general conditions for grant applications.

It is expected that applications to this call will be Collaborative Research Grants with the consortium composition as defined in the call document, and the Swedish Research Council will fund the Swedish partner of any successful trans-national collaboration.

National Contact Point: [Magnus Friberg](#)

Address: [Swedish Research Council, Box 1035, SE_101 38 Stockholm](#)

Telephone number: +46 8 546 44 122

Email address: mf@vr.se

JPI-Climate Transnational Collaborative Research Projects

National Annex: NERC, United Kingdom

Partners: This call is supported by the Natural Environmental Research Council (NERC)

Notice: Depending on all conditions of eligibility and peer review being met, the budget earmarked by NERC (Topic 2) for this call will be:

2) Russian Arctic & Boreal Systems: there will be up to £330,000 (at 80% FEC) available per project. It is anticipated that this amount will support UK involvement in two projects on this topic.

It is expected that applications to this call will be Collaborative Research Grants with the consortium composition as defined in the call document. NERC (Topic 2) will fund the United Kingdom partner of any successful trans-national collaboration.

The official national call announcement for the United Kingdom has been published on the NERC website. See www.nerc.ac.uk for application details.. Applicants are advised to contact their National Contact Point before starting to prepare proposals for application. For United Kingdom enquiries please see below.

Eligibility and national funding modalities:

NERC (Topic 2 - Russian Arctic & Boreal Systems)

NERC is the UK's main agency for funding and managing research, training and knowledge exchange in the environmental sciences. All UK applicants (whether Principal or Co-Investigators) requesting funding from NERC must be associated with an eligible Research Organisation. For eligibility details see <http://www.nerc.ac.uk/funding/available/researchgrants/eligibility.asp> .

One of the purposes of Joint Programming Initiatives is to facilitate the alignment of national research programmes at the European level. NERC is already undertaking a major programme on Arctic research (see <http://arp.arctic.ac.uk/>) which has extensive collaborative links with European and North American scientists and connections with Russian Arctic researchers. The JPI Climate Call for Russian Arctic and Boreal Systems maps directly onto the themes of the NERC Arctic Research Programme (ARP). It is envisaged that UK contributions to the JPI Climate Call will therefore make links to the NERC Arctic Research Programme during the course of the projects, particularly its substantial regional modelling capabilities, and will be involved in ARP activities including knowledge exchange and scientific workshops.

Particular areas of research for this Call that have relevance for UK include the study of permafrost soils, such as yedoma, that are complementary to the current ARP studies in North West Territories, Canada and will extend the variety of soil types studied. There is also interest in quantifying the carbon reservoirs in Siberian soils, including losses to rivers and the coastal seas. Also understanding the drivers of organic carbon cycling and greenhouse gas emissions and quantifying these emissions at landscape to regional scales for better representation of GHG fluxes in regional/global models.

Funding

Due to the high level of demand from UK researchers, NERC has decided to increase the budget available for this call. However, we anticipate funding up to two projects and to enable this, the total amount awarded to UK components will be capped at £330,000 (80% FEC) per project. This includes a contribution from the UK Department for Energy and Climate Change (DECC) who is a partner on the Arctic Research Programme.

We do not expect funding requests to significantly increase between the pre-proposal and full proposal stage and in some cases the proposed budget will need to reduce. To facilitate examination of eligible costs, UK bidders are requested to complete the **UK Financial Annex** in GBP using Research Council methodology.

Funded projects will be invited to submit costs through the Research Council's Je-S to enable payment, therefore all UK applicants and co-investigators will need to be Je-S registered..

Project Partners

The collaboration with Russian institutions should follow the rules for project partners (see paragraphs 65 and 66 of the NERC grants handbook <http://www.nerc.ac.uk/funding/application/researchgrants/grantshandbook.pdf>) reproduced below.

65. *On research grant proposals the Principal Investigator may also name formal Project Partners, who will not receive funding directly from the award, but will have an integral role in the proposed research. Minor Directly Incurred costs may be requested to facilitate collaboration. Named Project Partners may include UK or overseas Research Organisations (including the user community), but an organisation should only be named as a Project Partner if it is providing specific contributions (either direct or indirect) to the project. There is no limit to the number of Project Partners. Project Partners must be separate Research Organisations to those submitting the proposal.*
66. *Project Partners should ensure the availability of the necessary facilities and infrastructure and provide a detailed letter of support of up to 2 sides of A4. It is the responsibility of named Project Partners to read and comply with the terms and conditions relating to proposals for research grants.*

Topic 2: Russian Arctic & Boreal Systems

National Contact Point:

For general queries and further information about eligibility and the application process please contact:

Name: Jodie Clarke
Address: Natural Environment Research Council, Polaris House,
North Star Avenue, Swindon, SN2 1EU
Telephone number: +44 (0) 1793 418004
Email address: jodark@nerc.ac.uk

For queries relating to the NERC Arctic Research Programme, international partnerships and access to Arctic regions, facilities or infrastructure please contact:

Name: Dr Cynan Ellis-Evans
Address: British Antarctic Survey, Madingley Road, Cambridge, CB3 0ET
Telephone number: +44 (0)1223 221400
Email address: jcel@bas.ac.uk

Annex 4

JPI Climate Joint Call 2013 BUDGET

The table below shows which funding organisations are participating in the call and the estimated available funding per country:

Call Topic 1: Societal Transformation in the Face of Climate Change			Call Topic 2: Russian Arctic & Boreal Systems		
Country / Funding Organisation	Provisional Budget (M€)		Country / Funding Organisation	Provisional Budget (M€)	
	Direct Funds	In Kind		Direct Funds	In Kind
Austria (BMWf)	0.4		Belgium (BELSPO)	0.4	
Belgium (BELSPO)	0.15 (**)		Belgium (FWO)	0.4	0.1 ¹
Belgium (FWO)	0.4	0.1 ²	Denmark (DCSR)	0.25*	
Denmark (DCSR)	0.25*		Finland (AKA)	0.25*	
Finland (AKA)	0.25*		Norway (RCN)	0.5	1.5 ³
France (ANR)	1		Sweden (VR)	0.46	
Germany (BMBF)	1		UK (NERC)	0.8	
Ireland (EPA)	0.26				
Netherlands (NWO)	0.7				
Norway (RCN)	1	17 ⁴			
Slovenia (MIZS)	0.2				
Sweden (Formas)	2				
UK (ESRC)	1.17		BUDGET TOTAL	3.06	
BUDGET TOTAL	8.58				

* Budget distribution across the 2 topics is tentative. Final distribution will depend on the number and quality of proposals received and the results of the assessment process.

** 50 000 EUR for topping up the BRAIN-BE funded project (in kind contribution), if finally selected

¹ FWO intends to integrate existing FWO projects into the consortia of the JPI Climate call through this top-up funding.

² FWO intends to integrate existing FWO projects into the consortia of the JPI Climate call through this top-up funding.

³ See

<http://www.forskningsradet.no/en/Funding/NORRUSS/1253987298461/p1184150364108?progId=1253973419025&visAktive=true>

⁴ See

<http://www.forskningsradet.no/en/Funding/KLIMAFORSK/1253982678608/p1184150364108?visAktive=true>

European JPI Climate Joint Call for Transnational Collaborative Research Projects

Instructions for Full proposals 2014

The Full Proposal must be submitted by the Leading Principal Investigator (PI) (or the Leading PI's Institute, where appropriate, in accordance with requirements in the National Annexes) to JPI electronically through **the NordForsk Application Portal** <https://funding.nordforsk.org/nordforsk> **no later than 28 March 2014 12:00 (noon) CET.**

The application form is based on the eligibility criteria and evaluation criteria stated in the call and can be found in its complete form at the Application Portal.

In order to access the application form you must register as a user at the Application Portal and create an application draft.

Leading PIs are requested to write the proposals directly into the system.

A copy of the Application Form can be printed from the Application Portal if needed in the process of completing the proposal and used to share the proposal among your consortium members.

Note: Both Leading and Partner PIs should make sure to check the National Annexes for their country and contact the National Contact Point if required. There may be additional national application requirements that need to be taken into account when writing and submitting the Full proposal.

General guidance for all applicants:

- The proposal must be submitted in English.
- The different sections of the application cannot exceed the prescribed maximum number of characters. The character limits include free spaces.
- The uploadable parts of the application cannot exceed the prescribed page limits. Uploadable parts may include non-text descriptions such as graphic chart, diagrams, figures, etc.
- No attachments are allowed, apart from those specifically requested in the application form. Any documents other than those requested as part of the proposal will not be considered in the evaluation

Project Title

Give a project title, which clearly describes the research content of your project proposal. The title should be the same as for the pre-proposal.

Project Duration

Indicate the duration of the project from anticipated start date to anticipated completion date. The starting date of the project should be no earlier than 01.09.2014 and no later than 31.12.2014. The project should last between two and four years.

Project acronym

Please provide an acronym, or a shorter title for the project. The acronym should be the same as for the pre-proposal.

Project Summary (max 2000 characters, including spaces; suitable for public release)

Provide a summary describing the proposed research project and expected impact in plain language suitable for a general audience.

The project summary should be the same as the summary provided in your Pre-proposal (although minor amendments are acceptable, for example taking into account recommendations from the pre-proposal review process).

Project summaries will be published if the proposal is selected for funding.

Key words

Give at least three and up to ten key words that represent the scientific content of your proposal. These will be used to assist in identifying reviewers for your proposal.

Executive summary (maximum 3500 characters, including spaces)

Give an overarching summary of the goals of the research project, how it fits with the scope of the call, with particular reference to the scientific quality of the consortium and of the proposed research, and the innovativeness of the approach. Describe the added value to be expected from the international collaboration with reference to the specific trans-disciplinarity, competence and expertise of the team and the complementarities of the consortium. Explain how users have been engaged in the proposal and the potential impact of the research on science, society, policy, economy, etc.

Project description (Maximum 8 pages in uploaded PDF, including references)

Describe the research plan of your consortium, including the goals and objectives, in no more than 8 pages, including references. Please ensure that the document is readable (e.g., verdana 10 p, normal margins). Non-text descriptions such as graphic chart, diagrams, figures, etc. may be included. The project description should follow the structure outlined below:

Background

Give the scientific basis for your proposal and describe the present state-of-the-art. Identify important gaps to be filled in the current knowledge. Include reference to the significance of preliminary studies, describing how the proposed project is embedded within the research

currently funded in the consortium institutes, how it adds value to this broader programme and how it fits with the scope of this call.

Research plan

Give an overall description and the general approach and methodology chosen to achieve the objectives. Highlight the particular advantages of the methodology chosen; quantify the expected project result(s).

Break down the research project into individual tasks, showing the interrelationship between the tasks. Explain why there is synergy between different tasks of the project and how this is going to be exploited.

Added-value – In instances where the proposed work builds on previous activities, describe how this collaborative proposal will complement or build on previous activities as well as the incremental value of the proposed work.

Interdisciplinarity, transdisciplinarity and complementarity of the team (added value of the consortium)

Describe clearly the contribution and role of each partner to your project. It is expected that unless the participation is at the level of sub-contracting for specific tasks, individual applicants will be true research partners in the consortia and will contribute significantly to the development of the research project. Evaluators will be asked to comment on and rate the value added by the involvement of all partners in order to assist the assessment of these projects.

Demonstrate how the project will increase synergy between teams across partner countries and how international collaboration adds a particular value.

Management Plan (Maximum 3 pages in uploaded PDF)

Describe how the overall coordination, monitoring and control of the project will be implemented in no more than 3 pages. Please ensure that the document is readable (e.g., verdana 10 p, normal margins). Non-text descriptions such as graphic chart, diagrams, figures, etc. may be included.

Outline the management processes foreseen in the project (decision boards, coordination meetings, etc.) and clearly indicate the distribution of tasks among the consortium members. It is recommended that milestones be presented in a detailed diagram (e.g. PERT or Gantt charts) providing the time schedule of the tasks and marking their interrelationships; add when decisions on further approaches will have to be made; indicate a critical path marking those events which directly influence the overall time schedule in case of delays. Explain how information flow and communication will be managed and enhanced within the project (e.g. collaboration and task meetings, exchange of scientists, dissemination of results and engagement with stakeholders).

Climate-friendly Climate Research

Outline how the project will take into account the JPI Climate sustainability principle:

Clarify how the consortium does take into account and seeks to minimize its own climate footprint and contribute to a climate-friendly research system, e.g. in terms of (virtual) meetings, travels and energy use (please consult the guidance document on “climate-friendly climate research” on the JPI CLIMATE website).

Risk management: Indicate where there are risks of not achieving the objectives and describe potential solutions, if appropriate.

Scientific and Societal Impact Knowledge Exchange and Dissemination Strategy (Maximum 3 pages in uploaded PDF)

Please provide a Scientific and Societal Impact Knowledge Exchange and Dissemination Strategy, including financial provision for dissemination of research outputs, allowing for open access to research results and produced data among the scientific community as well as making use of other suitable means of dissemination of results to the wider society.

Detail approach to actively engage stakeholders¹ and users in the project in terms of a trans-disciplinary knowledge co-production: who may benefit from or make use of the research, how they might benefit from their engagement and make use of the research, and methods for engaging stakeholders and users and exchanging / disseminating data/knowledge/skills in an effective and appropriate manner.

Describe how information generated in the course of the project will be captured, stored and managed. Also explain any plans for longer-term archiving and for the release of data to the wider scientific and user community. The application will be expected to demonstrate the necessary resourcing to achieve these aims.

Describe how the consortium will deal with the dissemination, publication, and, protection of results generated in the project. Notably: the access rights for academic and/or private research purposes to the research results, the delay before research results to be publicly available.

It is expected that arrangements will be made for timely release of information and resources from publicly funded research projects. These arrangements should be consistent with national funder policies, from which funding is sought, in relation to open access to research publications and the management and deposition of data generated from public funding.

Description may not exceed 3 pages. Please ensure that the document is readable (e.g., verdana 10 p, normal margins). Non-text descriptions such as graphic chart, diagrams, figures, etc. may be included.

Leading Principal Investigator

Provide detailed information on the Leading Principal Investigator, including organisation and contact details.

1 “Stakeholders” refers to actors outside the scientific community e.g. change agents and knowledge partners such as policy makers, regulators, NGOs, municipalities / local authorities or industry

Principal Investigators

Provide detailed information on the Principal Investigators, including organisation and contact details. Please use the template available in the application portal. **Please remember to include the Leading Principal investigator in the overview.**

Please check with your National Annex for eligibility requirements and any limits on the number of official Partner PIs. Note that fully self-financed partners who bring their own secured budget are allowed from any country.

For each PI (including the LPI), please upload a brief summary, max 3 pages per PI.

Include key achievements (max 3000 characters per PI) that are relevant to the research proposed and up to 5 most recent relevant publications. In addition, include details of personnel, represented by the PI, that will work on the project. Such personnel might include those to be sub-contracted or other individuals within the Leading / Partner PIs institution, department, etc.. Please include, name, organization, position, country, as well as a brief description of their role in the consortium and what proportion of their time will be used in the project. **The Leading / Partner PI should check the policies and guidelines of the relevant National Funding Agency.**

Please use the template available in the application portal. Please upload a template per PI, max 3 pages per PI.

Budget

Please upload the detailed budget applied for through this call per PI, including the LPI. Please use the template available in the application portal. Funding information should be entered as Euros.

The budget should be given according to the budget posts described in the uploadable template. The budget should be given for the whole project as well as for each PI (including LPI) and each calendar year.

Please check the following before submitting your proposal:

- Budget numbers are given in Euros (€)
- The amount in the "Total requested funding" field for each PI shows the amount that each Leading / Partner PI is requesting from their funding agency
- Each Leading and Partner PI should follow the rules of their National Funding Agency, as described in the National Annexes, concerning what funding may be applied for.
- The amount in the "Total requested funding" field **for the entire project** should match the number you have entered as total requested funding in the application portal.
- The amount in the total budget field **for the entire project** should match the number you have entered as total budget in the application portal.

- PIs ineligible to request funding from this Call should indicate under 'External funding/ support' the value of the funding (including in-kind contributions) that they are committing to the proposal. **This information should be further explained under section "External Funding Information"**. For the call topic on Russian Arctic & Boreal Systems, Russian PI's **are required to** confirm these contributions (including in kind) to the collaborative project by a Letter of Support.
- Applicants should include within their funding request adequate provision (up to €2000 per partner per meeting) for participating in and convening joint meetings of representatives of all the JPI Climate projects, at the mid-term and completion stages of the project. Such meetings provide an opportunity to exchange views, and share questions, progress and output vis-à-vis the scientific and user community, and should, where possible, be organised in conjunction with major international scientific events.

In addition to the budget table (in euros) of the application form, some funding agencies require budget specifications according to national funding rules. For the appropriate forms and any other questions you should contact or refer to the website of your National Contact Point.

External Funding Information

Please indicate any funding / support you expect to be committed to the proposed project, which is not being requested from this call. This includes, for example other institutional or national funding, the value of contributions from partners who are ineligible to request funding from this Call and are therefore providing their own funding/ in-kind contribution, etc. Please detail what is included in your in kind contributions.

Please indicate if funding / support from these external sources, including in-kind contributions, will be used to augment resources provided through the award. Please also indicate any additional support that is currently being sought, where the funding decision on that support is independent of this call.

Where funding from external sources is expected / being sought, the relationship between these various funds and the proposed project should be explained (e.g., what role do the funds play in achieving the goals and expected outcomes of the proposed project; what value will these funds add to the proposed project?).

Letters of Support

should be included from main external sources of funding (including providers of in-kind contributions and partners who are ineligible for this Call, but who are providing a contribution to this proposed project). Letters of Support do not need to be included where 'external funding' is coming from the Lead or Partner PI's own institution. **Please note, however, that PI's from the Russian Federation participating in the Call Topic Russian Arctic & Boreal Systems have to confirm their commitment and contribution to the project Budget by a Letter of Support.**

Letters of Support should be on headed paper and should provide information on the level of funds committed and how firm that commitment is. Where the contribution is in-kind, a monetary value of that contribution alongside details of what the contribution is should also be provided.

Funding justification

In this section, a summary of the total funding requested from this call together with that from external sources should be included. Applicants should provide clear evidence of how the funds requested will be used to fulfill the activities of each partner and a clear justification that the requested funds together with any funds / support provided by external sources, are sufficient to achieve the work proposed.

Participating countries

Please provide an overview of the number of participants per country divided by gender.

Information for the review

Applicants may name up to three experts that should not be contacted to review their proposal due to e.g., conflicts of interest.

Confirmation of understanding

Before submitting the proposal, please confirm that you have read the Call Text, the relevant National Annexes, and the instructions for Applicants and that you understand the terms and conditions for this call

NOTE that funded proposals will be requested to sign a Consortium Agreement (including Intellectual Property Rights) among the partners of a research consortium. The consortium agreement must be signed and submitted by 6 months after project start. The signatures must be provided in accordance with each country's funding agency procedures. It is the LPI's responsibility to ensure that this agreement clearly specifies:

- the distribution of the tasks, human and financial resources and deliverables
- the sharing of the intellectual property rights linked to findings obtained within the framework of the project
- the project start and end dates
- the conditions of publication / dissemination of the results; and
- the application and transfer of project findings

When preparing the Full Proposal it is useful to remember the Evaluation Criteria on which it will be reviewed. Please see the Call for Proposals for details.

For questions, contact your National Contact Point.

See www.jpi-climate.eu for further information about JPI Climate and this call for proposals.