



FACCE JPI pilot action call for  
“The FACCE JPI Knowledge Hub”  
on  
“A detailed climate change risk assessment for European  
agriculture and food security, in collaboration with international  
projects”

Submission deadline for letter of intent:  
September 7, 2011 01:00 pm CET

[Link to electronic submission tool](#)

For further information, please visit us on the website <http://www.faccejpi.com>  
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CALL TEXT

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# 1. Background and objectives of the FACCE JPI Pilot action Call

## 1.1. The FACCE JPI

The goal of joint programming is to bring a new dimension to European research by aligning national programmes in participating countries around grand societal challenges, and thereby contributing to the development of the European Research Area. By working together around a common vision and strategic research agenda and mutualising limited resources, Member States/Associated Countries will be able to make significant contributions to research by avoiding duplication, filling gaps and creating critical mass. This will increase European research visibility and impact at the international level and establish a long-term and large base research endeavour, which in turn will foster innovative, high impact research in Europe.

The Joint Programming Initiative (JPI) on “Agriculture, Food Security and Climate Change” (FACCE JPI) brings together 20 Member States and Associated Countries, committed to addressing the challenge of providing sufficient high quality food through sustainable agriculture in the context of climate change. The FACCE JPI seeks to address the challenge of food security in the context of demographic growth, global environmental changes, globalisation of the economy and dwindling natural resources such as fossil fuels, water and arable land. The FACCE JPI has developed its Scientific Research Agenda based on 5 core research themes that will address the different aspects of this challenge:

1. Sustainable food security under climate change, based on an integrated food systems perspective: modelling, benchmarking and policy research perspective.
2. Environmentally sustainable growth and intensification of agricultural systems under current and future climate and resource availability.
3. Assessing and reducing trade-offs between food production, biodiversity and ecosystem services.
4. Adaptation to climate change throughout the whole food chain, including market repercussions.
5. Greenhouse gas mitigation: N<sub>2</sub>O and CH<sub>4</sub> mitigation in the agriculture and forestry sector, carbon sequestration, fossil fuel substitution and mitigating GHG emissions induced by indirect land use change.

Based on the proposed schedule of urgent, medium- and long-term actions by the Scientific Advisory Board, the Governing Board of the JPI has expressed its complete willingness to begin to address the urgent actions, thus giving rise to a pilot action under core research theme 1. This pilot action is entitled “**A detailed climate change risk assessment for European agriculture and food security**”, in collaboration with international projects, e.g. AgMIP (Agricultural Modelling Inter-comparison and Improvement Project; <http://www.agmip.org>). This initial action will address the modelisation of impacts of climate change and the reduction in uncertainties in climate change scenarios. It will be carried out using the instrument of the “FACCE Knowledge Hub” (see below Section 1.3).

## 1.2. Pilot action on “Detailed climate change risk assessment for European agriculture and food security”

## Introduction

Global average temperatures have risen by roughly 0.13°C per decade since 1950. An even faster pace of roughly 0.2°C per decade of global warming is expected over the next 2-3 decades.. Climate variability and extremes will presumably increase with climate change. Short-term natural extremes such as storms and floods, inter-annual and decadal climate variations as well as large-scale circulation changes such as the El Niño Southern Oscillation (ENSO) all have important effects on crop and pasture production. The extreme drought and heat wave that hit Europe in the summer of 2003 caused a large decline in crop and green fodder production. The risk having summers as warm as 2003 may increase by two orders of magnitude in the next 40 years in Europe. Increased droughts and heat waves especially during summer are likely to dominate impacts in Southern and Eastern Europe, while increased flooding and water logging in winter may dominate impacts in Northern Europe (IPCC, 2007).

Rising atmospheric carbon dioxide (CO<sub>2</sub>) concentration is likely to promote crop and grassland production in the future, however with possible knock-on effects on crop and fodder quality. Nevertheless, pasture and crop failures from drought are likely to become progressively more common. Agricultural irrigation will be limited, as the need is likely to occur at times of water shortage.

Such climate trends may be large enough in some countries to offset a significant portion of the increases in average yields that arise from genetic change, agronomical practices, CO<sub>2</sub> fertilization and other factors. For instance, the last two decades have witnessed a decline in the growth trend of some cereals like wheat in many European countries.

Similar trends could also affect pastures and forage crops in the future. With livestock, the onset of thermal stress results in voluntary declines in physical activity with associated reduction in eating activity. High temperatures put a ceiling to meat and milk production from feed intake. Increased mortality may be a consequence of excess heat especially in intensive poultry production systems.

## Societal and scientific challenges

The projected increase of world population to about 9 billion people by the mid-century leads to an increasing demand for food, feed, fibre and bio-fuels. This will have to happen in a changing climate and under a more stringent environmental regulation and requires continuous assessments of the changes in yield potentials and yield gaps for addressing ways to close gaps and reduce negative externalities.

It is therefore essential for Europe to contribute to sound assessments of the national, European and international dimensions of the agriculture and food security issues under climate change. A systemic understanding should be gained, by developing and integrating a large range of disciplines from climatology, to agronomy and socio-economy, through soil, plant, and animal sciences that must be strongly connected to a foundation of agro-ecological and socio-economic modelling.

Crop and pasture growth simulation models are a major part of integrated agro-ecosystem models, which are applied to support decision making at different spatio-temporal scales. Applications range from field to global scale, targeting the evaluation of management and policy options. With increasing spatial extent of the area under investigation, input data for mechanistic crop and livestock models are scarce and uncertain and data to test relevant state variables are insufficiently available. There is also an increasing demand by both model users and decision makers for analysis of the robustness of models and the uncertainties of model results.

However, the bulk of crop, pasture and livestock model development finished by the 1990's, while the development of agricultural technologies and management systems continued. At the same time, the range of environmental conditions (e.g. greenhouse gas emissions,

extreme weather events) for which these models are being applied has extended substantially.

Currently there are Petaflops of climate data being generated for the 5th Report of the Intergovernmental Panel on Climate Change, in a large scale and well-coordinated (for 25 years now) effort in an attempt to describe and maybe to narrow uncertainties in future climate projections. Those projections are fed into agricultural impact models that in some cases have not been properly evaluated with experimental data concerning unprecedented climate and atmospheric CO<sub>2</sub> conditions, have seldom been inter-compared and for which the uncertainties in estimates can thus be large.

#### Innovative character and solution to problems

In the past 15-20 years no effort has been made at European scale to evaluate crop, grassland and livestock models across the same datasets with the purpose to identify uncertainties. Also there has been little focus on methodologies for applying these models across a range of spatial scales and for coupling them with socio-economical models.

The strategic objective of this action is to create a coordinated and visible European network bringing together the major European research groups to join forces, share expertise and data resources, and address this urgent action in a timely and concerted fashion. We expect that in addition to the scientific outcomes expected, the benefits of this pilot action will include:

- Fostering interaction and synergy between European modellers in the areas of crops, livestock and trade,
- Allowing long lasting and large base research and tools and methods for capitalising results,
- Providing European critical mass in the international context and JPI branding,
- Establishing and reinforcing links between national programmes and supercomputing facilities.

It is expected that this FACCE Knowledge Hub will collaborate with international initiatives, such as AgMIP, through distributed climate-scenario simulation research activity for historical model inter-comparison and future climate change conditions. The results of agricultural model inter-comparison and improvement will allow the assessment and reduction of uncertainties in projections of climate change impacts on agriculture and food security that are at the centre of the questions being addressed by the JPI. This FACCE Knowledge Hub will constitute the European contribution to international efforts in this area.

This FACCE Knowledge Hub will develop protocols for crop, pasture and livestock model inter-comparison including the collection of existing high quality datasets at various scales essential for such analyses. It will provide guidance in selecting most suitable models for particular environment/scale, develop guidelines for up-scaling site-based models to larger scales, and evaluate benefits of using model ensembles for assessing uncertainty range in decision making for Europe. In order to address impacts on food prices, international trade and food security, this FACCE Knowledge Hub will consider representative agricultural pathways (or scenarios) for Europe that are consistent with IPCC socio-economic scenarios and with representative carbon pathways (RCPs). Coupled climate/economic and trade model simulations will be performed and the corresponding methods will be developed.

Special attention will be given to the development of adaptation scenarios, including:

- Changes in crop and pasture species traits (e.g. phenology...),
- Changes in agricultural practices (e.g. sowing dates, harvest dates, animal stocking density, fertilisation...),
- Changes in the geographic location of specific crops, pastures and livestock types,

- Adaptation triggered by changes in the prices of agricultural commodities and of farm inputs.

Moreover, the FACCE Knowledge Hub will bring added value by addressing the most relevant regional farming systems in participating countries, including livestock farming and grasslands. If published in time, it will bring a key European contribution for consideration by the Fifth Assessment Report of the IPCC. This FACCE Knowledge Hub will be organised in three coordinated networks on:

- Crops
- Grasslands and Livestock
- Economics and trade

In each network, modelling activities will be performed building upon common protocols and further developing and adapting these protocols for Europe.

The activities that will be coordinated include:

- IT support (modelling platforms, data bases, data warehouse and portal),
- Experimental and observation data provision for modelling activities,
- Communication with stakeholders,
- Training and capacity building.

Finally, it is expected that the FACCE Knowledge Hub will provide to the FACCE JPI Scientific Advisory Board recommendations for the future development of experimental, observational and modelling infrastructures in Europe in this area.

### **1.3. Definition of a FACCE Knowledge Hub**

A “FACCE Knowledge Hub” is an instrument developed by the FACCE JPI to foster the transnational co-operation, collaboration and communication of the research communities in the field of FACCE and to contribute to optimising research outcomes by facilitating a better networking and information exchange of all actors. A Knowledge Hub is a network consisting of selected research groups from JPI member countries within a defined area of research.

### **1.4. Aim of a FACCE Knowledge Hub**

At the political level, the aims of a Knowledge Hub are to respond to scientific questions defined in the Scientific Research Agenda in order to tackle the challenges being addressed by the FACCE JPI and to bring visibility to the JPI (FACCE JPI branding).

For participating research groups, a Knowledge Hub has three objectives:

1. To perform excellent joint research in the particular field to respond to questions in the Scientific Research Agenda
2. To increase and facilitate transnational cooperation and coordination between excellent researchers and research organisations, building a progressive and long-lasting network.
3. To provide the opportunity to develop research capacity in the particular field, to join learning/training activities (e.g. mobility) and to share infrastructures.

To achieve these goals, it will provide resources to research groups, with existing or, depending on the country, new national funding in the thematic area chosen, to cooperate, coordinate (avoiding overlaps), overcome bottlenecks and further develop and optimise the area of research, and strengthen the outcome. For details on specific funding resources provided by each country, please see Eligible Costs and National Requirements in Annex B. **The network is expected to develop a joint research plan and to carry out integrating**

**and training activities.** These aspects will be indicated in the Letter of Intent and developed in the Knowledge Hub proposal (see below).

### **Added value of a FACCE Knowledge Hub**

For the European research area, it is expected that a Knowledge Hub will:

- Increase the scientific and technological excellence and facilitate the transfer of knowledge
- Provide the opportunity to address new and emerging scientific questions of societal importance
- Provide critical mass in a given thematic area through networking of excellent researchers with complementary expertise and also capacity building (e.g., the training of new researchers, sharing of infrastructures)
- Make common research efforts and provide financial support over a longer period of time that will allow significant results to be obtained
- Facilitate data access and data sharing across the scientific community
- Enhance communication and visibility at the European and international level
- Deliver knowledge for policy making, anticipate scientific and technological needs (priorities) and provide efficient scientific support for strategic and political decision-making in its thematic field.

## **2. The participating countries and respective funding organisations to the pilot action**

In this context, the following parties,

Participating Country	Funding Organisation(s)
Austria	Federal Ministry of Agriculture, Forestry, Environment and Water Management (BMLFUW)
Belgium	Public Service of Wallonia (SPW)
The Czech Republic	Ministry of Agriculture of the Czech Republic
Denmark	The Danish Council for Strategic Research (DASTI)
Estonia	Ministry of Agriculture, Estonia
Finland	Ministry of Agriculture and Forestry of Finland (MMM)
France	Institut National de la Recherche Agronomique (INRA)
Germany	Federal Ministry of Food, Agriculture and Consumer Protection (BMELV) and Federal Ministry of Research and Education (BMBF)
Israel	Ministry of Agriculture & Rural Development of Israel (MOARD)

Italy	General Direction of Competitiveness for Rural Development of the Ministry of agricultural, food and forestry policies (MIPAAF)
The Netherlands	Ministry of Economic Affairs, Agriculture and Innovation (EL&I), Wageningen UR
Norway	The Research Council of Norway (RCN)
Poland	Information to be provided as soon as possible
Romania	Research and Academy of Agricultural and Forestry Sciences
Spain	National Institute for Agricultural and Food Research and Technology (INIA)
Sweden	Research Council Formas
The United Kingdom	Biotechnology and Biological Sciences Research Council

have decided to launch the pilot FACCE JPI Call for Proposals for the FACCE Knowledge Hub for funding a transnational research network on “A detailed climate change risk assessment for European agriculture and food security”.

### **3. Application to the pilot FACCE JPI call for proposal**

#### **3.1. Eligibility**

Some funding organisations participating in the Knowledge Hub aim to fund new research while others will fund only coordination activities of researchers to complement existing funding. The nature of the funds provided by each funding organisation is detailed in the National Requirements in Annex B.

##### **3.1.1. Participants**

Participants in the Knowledge Hub are research groups, represented by their respective organisations. In the Knowledge Hub, one or several research organisations from each country participating in the call may join. Within each research organisation, one or more research groups may participate in the Knowledge Hub.<sup>1</sup>

These participants should be research groups that represent the very best expertise in the thematic area in question (“excellence”) and research groups that are supported by their country to enter in the thematic field, in order to develop skills and participate in an international cooperation (“capacity building”).

There will be one “Main Coordinator (MC)” of the Knowledge Hub on “A detailed climate change risk assessment for European agriculture and food security” and three “Theme-Coordinators (TC)”, one for each sub-theme: crop modelling (CropM), livestock modelling (LiveM) and trade modelling (TradeM).

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<sup>1</sup> The research groups participating in the Knowledge Hub will be funded by their funding organisations via their respective research organisations.



The MC, based in a country participating in the call, will be overall responsible and accountable for the FACCE Knowledge Hub and will provide its scientific leadership (Annex A). The MC will take a broad view across the three sub-themes in order to ensure coherence of the scientific vision that maintains the thrust of the Knowledge Hub.

The three TCs will be working in collaboration with the MC and will be responsible for coordinating the activities in each sub-theme and providing input to the MC on their thematic areas (Annex A).

The roles and responsibilities for the Main Coordinator and Theme-Coordinators are provided in Annex A.

The participants will be expected to formulate the overall governance structure within the Knowledge Hub and between the Main Coordinator and the Theme-Coordinators in their Knowledge Hub proposal.

### 3.1.2. Eligible Costs

For possible eligible costs in the Knowledge Hub, please refer to annex B.

Depending on the country, these may include:

- Contribution to costs of the Main Coordinator and Theme-Coordinators;
- Travel costs for attending Knowledge Hub meetings;
- Communication and dissemination costs (workshops, newsletters, etc.);
- Training and capacity building (seminars, summer schools etc.);
- Mobility (if eligible for the funding organisation of the participant's country, see Annex B)
- Research costs (e.g. staff and consumables, if eligible for the funding organisation of the participant's country, see Annex B);
- 

Each research group is subject to the rules and regulations of its respective national funding organisation. Therefore, participants in the Knowledge Hub are advised to check their countries' rules and eligible costs to decide on their role and activities in the Knowledge Hub.

Whilst the Knowledge Hub proposal will be submitted jointly by research groups from different countries, individual research groups will be funded by their national FACCE JPI funding organisation(s) according to their own eligibility criteria.

### 3.2. Financial and legal modalities

The duration of the Knowledge Hub will be **3 years for a first phase, followed by an evaluation with a perspective of a two year extension**, subject to a successful review and budget availability.

**Modalities for participating research groups:** A minimum number of person months per year and per research organisation participating in the Knowledge Hub will be required. This minimum will be 24 person months for large countries with more than 2 million inhabitants and 12 person months for small countries with less than 2 million inhabitants.

**Modalities for funding organisations:** Partner funding organisations taking part in the call agreed to contribute to common "coordination costs" via a virtual common pot. Each funding

organisation will fund research groups from its country depending on its own national rules. Eligible costs may vary according to the corresponding funding organisation's rules. A consortium agreement should be signed by all research organisations participating in the Knowledge Hub network. The Knowledge Hub consortium agreement will specify at least: its governance structure, decision making processes, collective responsibilities and management arrangements, including specific arrangements on intellectual property rights (IPR), reporting and controlling. Administrative and funding relations will be stated in the Knowledge Hub consortium agreement as a bilateral responsibility between each participating research organisation in the hub and its relevant funding organisation.

### **3.3. Submission of proposals**

There will be a two-stage procedure: at first, submission of a letter of intent by interested research groups and then submission of **one** Knowledge Hub full proposal for evaluation by eligible research groups selected and invited to participate. Note that all eligible groups are expected to work together to submit one full proposal.

#### **3.3.1. Letter of Intent**

In the first stage, each interested research group will send a letter of intent (LoI) in English, expressing their willingness to join the Knowledge Hub. The participating research groups applying to this call are expected to join the Knowledge Hub to enhance excellence and/or provide capacity building activities, and should state how they plan to achieve these aims in the letter of intent. Thus, interested research groups will outline their intended contribution, their expertise in the area, their potential activities in the hub (both for research excellence and capacity building) and make a declaration of a potential readiness to take responsibility as coordinator of the hub or of one of the three sub-themes. They will also list their key ongoing research projects, publications and patents. The letters of intent must be submitted to the Call Office (see below 8.1) by **September 7, 2011 (01:00 pm CET)** through the FACCE call ESS (electronic submission server) system.

**The selection of the research groups in the Knowledge Hub will be based on the letters of intent. The selection will be performed by the respective national funding organisations and the final list of eligible research groups will be validated by the Steering Committee (SC, see below 8.2) members based on national evaluation results. The final list of eligible groups will be communicated to the interested research groups via e-mail on October 10 and a formal letter will follow.**

#### **3.3.2. Knowledge Hub proposal**

The representatives of eligible research groups will be brought together in a “networking” meeting (to be held **October 18, 2011**) where the aims of the Knowledge Hub will be explained and discussed in detail and the preparation of the full proposal will start. At this time, the ESS will re-open for submission of the full proposal. The selected research groups will be expected to submit their proposal up until the deadline of the submission period. Please note that only selected research groups will be invited to apply for the Knowledge Hub full proposal.

The full proposal (in English) must be received by the Call Office, by submission through the FACCE call ESS **no later than December 19, 2011 at 01:00 pm CET**. The proposal should strictly comply with the national regulations in Annex B. Further information on how to submit letters of intent and full proposals electronically will be made available through the FACCE JPI website (<http://www.faccejpi.com>). Applicants should take note of individual national/regional rules, and are strongly encouraged to contact their National Contact Point

before submitting a letter of intent (see Annex B: national contact information). For applicants from some countries/regions, it might also be necessary to submit a copy of the proposal and/or other information directly to the country/regional funding organisations.

The full proposals will be evaluated by the Evaluation Committee (EC) and selected for funding by the Steering Committee (SC).

The main coordinator and theme-coordinators will be selected during the full proposal submission stage by the representatives of the selected research groups using the selection criteria available in Annex A. The SC will only accept nominations for Main Coordinator and Theme-Coordinators matching all those selection criteria. A statement explaining how the Main Coordinator and Theme-Coordinators fulfil the selection criteria will be submitted to the Call Office as part of the full proposal submission.

The result of the evaluation process and the final decision on whether the full proposal is recommended for funding is expected to be communicated by **January 31, 2012**.

## **4. Evaluation of the FACCE Knowledge Hub proposals**

### **4.1. The Evaluation Committee**

The Evaluation Committee (EC) is a panel of internationally recognised experts responsible for the evaluation of the submitted FACCE Knowledge Hub full proposal. Evaluation Committee members cannot take part in the Knowledge Hub within this call and each EC member will sign a statement to confirm that they do not have any conflicts of interest. The EC will be composed of scientific experts together with experts on networking issues from international scientific and policy making organisations.

The EC will perform the evaluation process of the FACCE Knowledge Hub full proposals with the support of the Call Office and under the supervision of the SC.

### **4.2. Evaluation criteria**

#### **4.2.1. Letter of intent stage**

##### Selection criteria:

- intended contribution of the research group/organisation expertise present in the area and how it matches the remit of this call
- potential activities in the hub
- potential readiness to take responsibility as the Main Coordinator or one of the Theme - Coordinators
- projects funded, facts and figures (papers, patents etc.)
- outline for the Knowledge Hub (provisional plan)

#### **4.2.2. Knowledge Hub full proposal stage**

##### Scientific and/or technological excellence:

- Quality of the joint scientific plan of activities, including interaction between sub-themes
- Innovation
- International competitiveness

- Quality and efficiency of the implementation and management: Appropriateness of the governance and management structure and procedures, its organisation and coordination, including the management and sharing of data and models.
- Quality and relevant experience of individual participants
- Quality of the hub as a whole, including complementarity and balance among sub-themes
- Quality of the means for networking and building a long lasting interaction
- Added value of the collaboration
- What are the intended means for capacity building
- Timeliness, suitability of work schedule, requested resources, and feasibility

Potential impact:

- Contribution to the advancement of the research area
- Outcomes of capacity building
- Appropriateness of measures for the dissemination and/or exploitation of results, and management of intellectual property
- Long-term data storage and access

Additional evaluation criteria will include:

- Commitment of the partners
- Critical mass

## **6. Funding decision and contract negotiation**

Based on the Knowledge Hub proposals' evaluation by the EC, the SC will make the final decision:

- to fund the Knowledge Hub as it is (very positive evaluation);
- not to fund the Hub (negative evaluation);
- to negotiate for changes deemed necessary by the EC.

At the conclusion of the evaluation process, the SC will recommend the Knowledge Hub research consortium to be funded to the national/regional funding organisations.

Based on these recommendations, final decisions and negotiation will be made by the national/regional funding organisations and will be subjected to budgetary considerations.

## **7. Responsibilities, reporting requirements and dissemination**

The MC of the FACCE Knowledge Hub must submit annual progress reports and a final report to the SC at the end of the first period, i.e. at the end of the 3<sup>rd</sup> year. All reports must be in English and use a common report format that will be provided by the CO. The theme-coordinators are responsible for delivering the reports on their sub-themes, and all consortium members are jointly responsible for delivery of the sub-theme reports and the main progress report. The SC will only accept reports delivered by the MC on behalf of the whole consortium.

If required, each research group should also submit financial and scientific reports to its national/regional funding organisations, according to national/regional regulations. The

progress and final results of each individual contract (ministry decree, letter of grant, etc.) will be monitored by the respective national/regional funding organisations.

The intermediate and final reports will be submitted to EC evaluation and SC assessment. The MC will be responsible for taking corrective actions if required.

Funding recipients must ensure that all outcomes (publications, etc.) of this FACCE Knowledge Hub include a proper acknowledgement of FACCE JPI and the respective national/regional funding partner organisations.

The MC, TC and/or national group leaders may be asked to present the results of their activities at Governing Board meetings, conferences and progress meetings organised by the FACCE JPI.

To brand the FACCE JPI and to bring about larger awareness of the FACCE Knowledge Hub, centralised communication and information exchange on its research activities will be addressed through the FACCE JPI Secretariat (Knowledge Hub's Communication Office). The Secretariat will provide general information on the Knowledge Hub, mainly through the FACCE JPI website, and will publish documents (e.g. newsletters, papers and other scientific information) made available by the Main Coordinator, Theme-Coordinators and/or national group leaders.

Scientific communication will be the responsibility of the research groups involved in the Knowledge Hub.

## **8. Management of the pilot FACCE JPI call for proposal**

### **8.1. The Call Office**

The implementation of the call for proposal on the FACCE Knowledge Hub will be under the responsibility of the Call Office (CO), the primary contact point for interested research groups for information on general issues of the call and its technical aspects (electronic submission system, delivery of call documents, etc.). It will take care of managing the call procedures (proposal submission, evaluation, selection) under the supervision of the Steering Committee (SC) and the support of the National Contact Points (NCP; Annex B), at national level.

The CO will be set up at:

**Research Centre Juelich/Project Management Group (JULICH),**  
Dipl.-Ing.. Nicolas TINOIS  
[n.tinois@fz-juelich.de](mailto:n.tinois@fz-juelich.de)  
(49) 2461 61-2422

### **8.2. The Steering Committee**

The Steering Committee (SC) is composed of representatives of funding organisations (maximum 2 per country) joining the call.

The SC will supervise the progress of the call, the selection of the letters of intent and the evaluation of the knowledge hub proposal. The SC will make the final funding recommendation to the national/regional funding organisations on the full proposal and participating research groups to be funded, based on the assessment and final conclusions

reached by the Evaluation Committee (EC). All decisions concerning the call procedures and implementation of the call will be taken by the SC.

## **9. Contact and further information**

The CO will be the primary point of contact concerning the call procedures between the Knowledge Hub, the funding organisations (SC) and the JPI Secretariat.

It is strongly advised to contact the National Contact Point for any questions regarding the national regulations (see Annex B).

## 10. Annexes

### ANNEX A: The roles and responsibilities for the Main Coordinator and Theme-Coordinators

#### A. Main Coordinator (MC)

The Knowledge Hub will appoint a Main Coordinator (MC), based in a European country participating in this call, who will be overall responsible and accountable for the FACCE JPI Knowledge Hub, and provide its strategic scientific leadership. In this role, the MC will take a broad view across the three sub-themes: crop modeling (CropM), livestock modeling (LiveM) and trade modeling (TradeM), in order to ensure coherence of the scientific vision that maintains the thrust of the Knowledge Hub.

The MC main responsibilities will be to:

- develop a joint research programme of activities for the FACCE Knowledge Hub, and a strategy for its implementation;
- coordinate the research activities across the three sub-themes CropM, LiveM and TradeM;
- ensure that results arising from sub-themes are communicated promptly and regularly across the Knowledge Hub;
- attend FACCE Knowledge Hub and sub-theme meetings to monitor their progress;
- coordinate the exploitation of results, in consultation with sub-themes and their Theme coordinators;
- interface and build collaborations with relevant organisations, within Europe and internationally;
- provide a means to build and strengthen the research communities in the three sub-theme areas at the regional, national and European level.

Other management duties of the MC will include to:

- complete the electronic submission of the proposal on behalf of the sub-themes CropM, LiveM and TradeM;
- be the primary point of contact with the Steering Committee (SC);
- provide regular reports and deliverables to SC on behalf of the sub-themes;
- inform the SC of any event that might affect the sound implementation of the project;
- be responsible for the overall justification of resource expenditure.

#### Criteria for selection

##### 1. Scientific vision and potential

- Potential of the applicant to deliver a strategic research plan linked to an innovative programme for its implementation
- Suitability and standing of the applicant and extent to which he has the skills and knowledge necessary to deliver the Knowledge Hub objectives
- Suitability of the facilities hosted by the applicant, including data and models handling, to deliver the objectives of the Hub
- Technological development and methodological innovation: extent to which the applicant is likely to stimulate the development of new tools, techniques or methods across the Hub

##### 2. Contribution to the FACCE JPI mission

- Scientific leadership of the applicant and relevance to the FACCE JPI mission

- Strategic leadership of the applicant to deliver objectives reaching all relevant stakeholders to the FACCE JPI mission
- International competitiveness

### 3. Institutional and external commitment

- Institutional funding: direct contribution of institutional funds to the applicant's centre/department/group
- External funding: contribution from external parties
- Links: links to stakeholders (including government, industry) with an interest in the three sub-themes
- Collaborations: value of any proposed links with Institutes, or international partners

### 4. Leadership

- proven outstanding leadership skills

## **B. Theme-Coordinators (TC)**

The TC main responsibilities will be to:

- contribute to develop a joint research programme of activities plan for the FACCE Knowledge Hub, and a strategy for its implementation in collaboration with the MC and the other two theme-coordinators;
- manage the research activities within their sub-themes;
- communicate results arising from the sub-theme promptly and regularly through the MC and across the Knowledge Hub;
- attend FACCE Knowledge Hub and sub-theme meetings to report on their progress;
- design a strategy for the exploitation of results within their sub-theme, in consultation with the other two sub-themes and the MC;
- interface and build collaborations with relevant organisations, within Europe and internationally within their sub-theme;
- provide a means to build and strengthen the research communities in their sub-theme area at the regional, national and European level.

Other management duties of the TC will be to:














- provide regular reports and deliverables of the sub-theme to the MC for reporting to FACCE-SC;
- inform the MC of any event that might affect the sound implementation of the sub-theme workplan;
- be responsible for the overall justification of resource expenditure within the sub-theme;






## ANNEX B: National/regional Contact Point details, requirements and eligible costs

### A. National Contact Points (NCPs)

Hereunder are provided the contact data of the National Contact Points (NCPs) for this first call for participation in this FACCE-JPI Knowledge Hub. NCPs are namely responsible for informing potential applicants about relevant national issues (national eligibility criteria, eligible costs...). It is strongly recommended for each applicant to contact their NCP prior to submitting their Letter of Intent.

Country	Organization	Contact person	Contact data (Mail and phone)
AUSTRIA	 Bundesministerium für Land- und Forstwirtschaft, Umwelt und Wasserwirtschaft (BMLFUW)	Mag. Gottfried Führer	<a href="mailto:Gottfried.Fuehrer@lebensministerium.at">Gottfried.Fuehrer@lebensministerium.at</a> ; +43 1 711 00 6776
BELGIUM	 Service public de Wallonie (SPW)	Thierry Van Cauwenberg	<a href="mailto:Thierry.Vancauwenberg@spw.wallonie.be">Thierry.Vancauwenberg@spw.wallonie.be</a> ; +32 (0)81 33 45 40
CZECH REPUBLIC	 Ministry of Agriculture	Ladislav JERABEK	<a href="mailto:ladislav.jerabek@mze.cz">ladislav.jerabek@mze.cz</a> ; +420 221812252
DENMARK	 Ministry of Science, Technology and Innovation	Niels Götke	<a href="mailto:nigoe@fi.dk">nigoe@fi.dk</a> ; +45 50 836048
ESTONIA	 Ministry of Agriculture	Küllli Kaare	<a href="mailto:kylli.kaare@agri.ee">kylli.kaare@agri.ee</a> ; +372 625 6554
FINLAND	 Ministry of Agriculture and Forestry (MMM)	Dr. Mikko Peltonen	<a href="mailto:Mikko.Peltonen@mmm.fi">Mikko.Peltonen@mmm.fi</a> ; +358 9 1605 2410
FRANCE	 Institut National de la Recherche Agronomique (INRA)	Isabelle Albouy	<a href="mailto:Isabelle.Albouy@paris.inra.fr">Isabelle.Albouy@paris.inra.fr</a> ; +33 1 42 75 94 42
GERMANY	 Project Management Jülich (JÜLICH)	Nicolas Tinois	<a href="mailto:n.tinois@fz-juelich.de">n.tinois@fz-juelich.de</a> ; +49 (0) 2461 61 2422
	 Bundesanstalt für Landwirtschaft und Ernährung (BLE)	Dr. Elke Saggau	<a href="mailto:Elke.Saggau@ble.de">Elke.Saggau@ble.de</a> ; +49 (0) 228 68 453 930
ISRAEL	 Ministry of Agriculture and Rural Development (MOARD)	Dr. Orit Shmueli	<a href="mailto:orits@moag.gov.il">orits@moag.gov.il</a> ; +972 3 9485430
ITALY	 Ministry of Agricultural, Food and Forestry policies (MIPAAF)	Marina Montedoro	<a href="mailto:m.montedoro@mpaaf.gov.it">m.montedoro@mpaaf.gov.it</a> ; +39 6/46655076
NETHERLANDS	 Ministry of Economic Affairs, Agriculture and Innovation (EL&I)	Frits Schroën	<a href="mailto:g.j.m.schroen@minlnv.nl">g.j.m.schroen@minlnv.nl</a> ; +31 6 52718466 / +31 70 7573156
NORWAY	 The Research Council of Norway (RCN)	Senior Adviser Kirsti Anker-Nilsen	<a href="mailto:kan@rcn.no">kan@rcn.no</a> ; +47 45 22 14 76
POLAND	 Information to be provided as soon as possible		
ROMANIA	 Ministry of Agriculture and Rural Development (MADR)	Aurel Badiu	<a href="mailto:aurel.badiu@madr.ro">aurel.badiu@madr.ro</a> ; +40 740034396



SPAIN		Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria (INIA)	Dr. Paloma Melgarejo Nardiz	<a href="mailto:melgar@inia.es">melgar@inia.es</a> ; +34 913 473 930
SWEDEN		The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS)	Jan Svensson	<a href="mailto:jan.svensson@formas.se">jan.svensson@formas.se</a> ; +46 (0)8 775 4051
UNITED KINGDOM		Biotechnology and Biological Sciences Research Council	Dr. Gabriela Pastori	<a href="mailto:gabriela.pastori@bbsrc.ac.uk">gabriela.pastori@bbsrc.ac.uk</a> ; +44 1793 413363

**B. Eligible costs per country.** Eligible costs per country are green earmarked, red are non-eligible. This table is provided only for your information, It does not warranty any eligibility, which should systematically be checked with your NCP.

Country		Coordinators cost (Main and/or Theme-Coordinator) <sup>2</sup>	Research costs (staff and consumables...)	Travel costs (for Knowledge Hub Meetings)	Communication and dissemination costs (workshops, newsletters, etc.....) <sup>3</sup>	Training and capacity building (seminars, summer schools...) <sup>3</sup>	Mobility
AUSTRIA		Theme-Coordinator					
BELGIUM			According to eligible costs		According to eligible costs		According to eligible costs
CZECH REPUBLIC							
DENMARK		If eligible Danish main or theme coordinator					
ESTONIA		Only if the Estonian coordinators are involved	Research costs		Workshops	Seminars	
FINLAND							
FRANCE							
GERMANY							
ISRAEL							
ITALY					Workshops, proceedings, books	Fellowships, research grants, PhD	Travel & subsistence
NETHERLANDS					Workshop yes, and no dissemination/ com.		
NORWAY					1 Workshop/year		

<sup>2</sup> Research groups in participating countries that offer coordinators costs are eligible to apply to be coordinators.

<sup>3</sup>This indicates that the participating country can organise workshops, seminars or summer schools. Nonetheless, all Knowledge Hub participants may take part in these events.

<b>POLAND</b>		Information to be provided as soon as possible					
<b>ROMANIA</b>							
<b>SPAIN</b>		If eligible Spanish main or theme			Workshop		
<b>SWEDEN</b>		Within the total allocated budget – see annex		Within the total allocated budget – see annex	Within the total allocated budget – see annex		Within the total allocated budget – see annex
<b>UNITED KINGDOM</b>							

## C. National requirements

### National requirements

#### Austria



- Werden österreichische Partner eines Konsortiums durch das BMLFUW finanziert, müssen sie den Antrag des Projektkonsortiums nach positiver Evaluierung auch beim BMLFUW via [www.dafne.at](http://www.dafne.at) einreichen.
- Beantragte Projektkosten dürfen max. € 180.000,-- betragen, wobei bereits laufende themenbezogene Forschungsprojekte mit einem Finanzierungsvolumen in der Höhe von 1 MEUR nachzuweisen sind.
- Für Anschaffungen von Ausstattung (equipment) kann der projektrelevante Anteil der Abschreibungskosten beantragt werden.
- Die anfallenden Kosten für einen Theme-Coordinator können geltend gemacht werden.
- Reisekosten und Kosten für Meetings können geltend gemacht werden (Sätze gemäß RGV des Bundes).
- Overhead Kosten müssen auf Basis einer Kalkulationsgrundlage ausgewiesen werden (max. 20% der Kosten des Antragstellers).
- Zahlungen seitens des BMLFUW umfassen prinzipiell eine Anzahlung, Zahlung nach Approbation des Zwischenberichtes sowie die Anweisung der Restrate nach Approbation des Endberichtes (mind. 10%).

## Belgium



The national rules for funding will be available soon on the websites of DGO6 (<http://recherche-technologie.wallonie.be>) and FNRS (<http://www.frs-fnrs.be>), the two agencies in charge of the project implementation in Belgium. In the meantime, all questions can be addressed to the national contact point:

Thierry Van Cauwenberg; [Thierry.vancauwenberg@spw.wallonie.be](mailto:Thierry.vancauwenberg@spw.wallonie.be); Tél. +32 (0)81 33 45 40

Freia Van Hee; [freia.vanhee@frs-fnrs.be](mailto:freia.vanhee@frs-fnrs.be); Tél. +32 (0)2 504 93 09

# Denmark



The Danish Council for Strategic Research often participates in international calls e.g. ERA-NET and Joint Programming. In relation to this the present guideline is to be used for Danish applicants.

Applicants are urged to check regularly for announcements at [www.fi.dk/tilskud](http://www.fi.dk/tilskud) concerning any clarifications regarding the call as well as other important information.

## Who can apply?

Requirements are not made as to the applicants' and other participants' citizenship or the home country of the research institutions, and there are no requirements regarding a specific geographic location of the implementation of the research activities. This means that anyone – including citizens of other countries and Danish citizens employed abroad – may apply for funding and participate in the activity being applied for. However, it is a requirement that the funded research activities promote and strengthen Danish research. Please also note that the scientific/academic and managerial qualifications of the applicant and the other key participants play a key role in the assessment of the applications.

## 2. Finances

In relation to the submission of applications a budget for the activity must be prepared. This shall include all costs including overhead and reflect the anticipated expected distribution of funding and co-financing respectively and on the individual partners of the research activity.

### Eligible costs

It will be possible to apply for funding for the following:

- Salaries for research managers and principal researchers
- PhD grants
- Postdoctoral grants
- Combination positions, that is, salaries/salary subsidies for researchers who are employed for a fixed period of time at two institutions or at an institution and an enterprise
- Salaries for technical/administrative staff
- Guest researchers e.g. bringing talented researchers home from abroad for a limited period
- Procurement of research from high-quality research environments abroad that might be moved to Denmark for a period of time
- Equipment expenses
- Support for dialogue between research institutions and public-sector institutions and/or private-sector enterprises etc. (applies especially to strategic research alliances)
- Subsidies for expenses relating to collaboration with research environments abroad
- Other expenses relevant to the specific activities.

It should be noted that funding is awarded as framework grants, and that it is not possible to apply for supplementary grants. Funding cannot be granted to cover costs already incurred.

### Calculation of costs and overhead contributions

*Danish government institutions or other institutions subject to the rules on grant-funded research activities contained in the Danish Ministry of Finance budget guidelines (including universities and government research institutes):* Payroll costs must be calculated as the actual payroll costs per month. Other costs should be calculated as the actual expected price. The budget must include an overhead contribution of 44 per cent of all direct costs. Overheads of this amount should be included in both the budget for funding from the Danish Council for Strategic Research and in the co-financing budget. Direct costs are defined as costs directly attributable to the research activities.

*Other publicly owned institutions in Denmark (e.g. hospitals):* Payroll costs must be calculated as the actual payroll costs per month. Other costs should be calculated as the actual expected price. The budget must include an administration contribution of 3.1 per cent of all direct costs. Administrative contributions of this amount should be included in both the budget for funding from the Danish Council for Strategic Research and in the co-financing budget. Direct costs are defined as costs directly attributable to the research activities.

*Authorised Technological Service Institutes (“GTS institutter”):* The budget must include the actual payroll costs per hour of work performed (i.e. excluding overheads/general costs). Other costs should be calculated as the actual expected price. The budget must include an overhead contribution of 20 per cent of all direct costs. Overheads of this amount should be included in both the budget for funding from the Danish Council for Strategic Research and in the co-financing budget. Direct costs are defined as costs directly attributable to the research activities.

*Enterprises, including private-sector research institutions:* A fixed hourly rate of DKK 600 is used. Alternatively a calculated rate per working hour (costs + overheads) may be used. The total payroll costs based on this hourly rate should be specified as payroll costs. The budget contains no separate item for overheads. Other costs should be calculated as the actual expected price. Appendix D, “Statement concerning budgetary correlations”, must set out how any calculated rate of more than DKK 600/hour is calculated.

*International entities:* Public-sector research institutions, hospitals etc. outside of Denmark should draw up budgets showing the actual payroll costs, if necessary with the addition of modest overheads (max. 20 per cent of the actual payroll costs). The budgets contain no separate item for overheads. International enterprises are required to adhere to the rules under “Enterprises” above but with an hourly rate adjusted to the relevant country’s cost level. Other costs should always be calculated as the actual expected price. Appendix D, “Statement concerning budgetary correlations”, should contain a brief statement of how the rates were determined.

*Especially for public-sector institutions in Greenland and the Faroe Islands:* Payroll costs must be calculated as the actual payroll costs per month. Other costs should be calculated as the actual expected price. The budget must include:

For governmental research institutions: an overhead of 20 per cent of all direct costs.

For municipal museums and hospitals: an overhead of 3.1 per cent of all direct costs.

### Rules for granting funds to private-sector enterprises

Private-sector enterprises may, to a certain extent, receive funding through the Danish Council for Strategic Research. This State aid may be awarded within the provisions of the Commission of the European Communities’ approval no. N460/2006 of 20 February 2007.

Pursuant to the EU approval, funding may be provided to enterprises engaging in collaborative projects with research institutions. Funding may be awarded to large enterprises on the condition that they possess special expertise not possessed by the research institutions or that the enterprises will be conducting research in what for them represents new fields. In this context, large enterprises are enterprises that do not come under the EU’s definition of micro, small and medium-sized enterprises (SMEs), cf. below.



The funding for such enterprises must serve to promote their initiation of further research activities (incentive effect). Funding for large enterprises requires special documentation in the form of an estimate of the increase in their total expenditure on research and the increase in the number of employees engaged in research activities. In addition, the EU Commission requires information concerning financing by the enterprises of PhD and postdoctoral grants pertaining to the project. This information is included in the standard information that must be submitted by all large companies that wish to receive funding from DSF (cf. appendix F of the application).

For large enterprises, State aid may be granted for a maximum of 50 per cent of project expenses. For an SME, State aid may fund a maximum of 60 per cent of the SME's project expenses. However, it should be emphasised that these are maximum limits. In many cases a higher degree of self-financing will be required on the part of the enterprise.

Under the EU Commission's definition, the category of micro, small and medium-sized enterprises is made up of enterprises which employ fewer than 250 persons and where at least one of the following two criteria is met: 1: Annual turnover does not exceed EUR 50 million or 2: the annual balance sheet total does not exceed EUR 43 million. If the enterprise forms part of a group with other enterprises, the group as a whole must meet the above terms. Please see the entire set of rules in "[The new SME definition - User guide and model declaration](#)". If an application is granted, small and medium-sized enterprises that are to receive funding will be asked to submit a declaration regarding their status. A form for that purpose will be sent to the grantee.

The above-mentioned rules on direct funding for enterprises do not apply to Authorised Technological Service Institutes ("GTS institutter").

### **3. Responsibilities, publication, etc.**

#### **Applicant's responsibility**

It is the applicant's responsibility that the information in the application is correct, that the necessary appendices are attached and that the call dead line is complied with.

#### **Rejection of applications without substantive consideration**

According to section 4 of the Executive order on the granting function etc. under the Danish Council for Independent Research and the Danish Council for Strategic Research (Executive Order no. 1620 of 15 December 2010), an application may be rejected without substantive consideration if the formal requirements or deadlines set out in the call for applications are not met.

If the following rules set out in the call are not complied with, the application may be rejected without substantive consideration:

- The application must be submitted by the deadline of the call.
- The application must be made on the correct e-application form (i.e. a form on which the correct call title is stated) and the form must contain all the required information – see the instructions on the form and in "[Danish Council for Strategic Research \(DSF\) Application Guide, Final Applications, May 2011](#)".
- The application must be submitted as an e-application via the Danish Agency for Science, Technology and Innovation's e-application system.
- The application (e-application form and appendices) must be written in English (except for the "Popular-science description" in the e-application form, which must be written in Danish).
- The application must concern one of the instruments offered by the call and pertain to one or more of the themes under which the instrument in question is offered; please refer to the overview at the beginning of Section 3 of the call.
- The amount applied for must correspond with the amounts specified in the overview at the beginning of Section 3 of the call.
- The e-application form must be submitted with attachment of all the appendices specified in Section 6 of the call.

- Appendix A and D must be submitted on the correct appendix form, Appendix B must comply with the requirement described in section 6 of this call and Appendix C must contain CVs for all principal researchers – and shall, as a minimum, include the applicant's own CV.
- The appendices must not be password protected or otherwise 'locked' and the total volume of all the appendices must not exceed 25 MB.

### **Other data which may be obtained by official bodies**

The Programme Commission and the Danish Agency for Science, Technology and Innovation reserve the right to obtain information about any previous and current applications an applicant may have submitted to the scientific research councils of the Danish Council for Independent Research, the programme commissions of the Danish Council for Strategic Research, the Danish Council for Technology and Innovation and/or the Danish Agency for Science, Technology and Innovation, and this information may be included in processing of the e-application.

In the event that project funding has been or will be applied for from elsewhere, the Programme Commission and the Agency reserve the right to obtain information as to whether the amount has been granted.

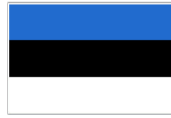
### **Publication**

If the application is approved in whole or partially, details of the applicant's title, name and place of employment, the names of the participating parties, the grant title and duration, key figures for the grant and the size of the grant will be published in the Danish Research Database (<http://www.forskningsdatabasen.dk>) and on the Danish Agency for Science, Technology and Innovation's website (<http://www.fi.dk>) and in Danish Council for Strategic Research publications. The popular-science description of the activity may be published in the same places.

Where relevant, in connection with the awarding of a grant, a requirement may be made for the collected data material to be submitted to Dansk Data Arkiv (DDA) in its documented state.

Information about applications from applicants who have not been awarded a grant will not be made public, but under the Danish Public Records Act (*offentlighedsloven*) it is possible to apply for access to e.g. lists of all applicants' names and project titles. Applicants should therefore ensure that the title of the application does not contain information on the activity which is to be kept confidential.

# Estonia



The Estonian participation in the Knowledge Hub network should be compatible with the National Programme “Applied research and Development in Agriculture 2009 – 2014”

[http://www.agri.ee/public/juurkataloog/TEADUS-ARENDUS/Mkaskkiri\\_126\\_2008.pdf](http://www.agri.ee/public/juurkataloog/TEADUS-ARENDUS/Mkaskkiri_126_2008.pdf)

National funding can be used for coordination and Knowledge Hub project costs according to the National Programme for 1-2 participating research organizations.

## **National Contact Point**

Küllli Kaare

Head of Research and Development Department

Ministry of Agriculture

Republic of Estonia

Telefon 625 6554

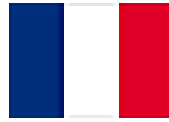
E-post: [kylli.kaare@agri.ee](mailto:kylli.kaare@agri.ee)

## Finland



- The national rules for funding are available only in Finnish. All documents have been posted on the following web-site: <http://www.mmm.fi/fi/index/tutkimus/lomakkeet.html>
- National funding can be used to cover coordination and mobility costs for 1-2 participating research organisations.

France



**Eligibility**

INRA is funding French applicants coming from public research institutions within this pilot call of the FACCE-JPI.

Potential candidate institutions are strongly recommended to contact their national contact point (see below) before sending their letters of intent. This is required to get an indication how national funding will be allocated.

Only groups with positively evaluated letters of intent will be able, in a second stage, to participate in the full proposal.

**Funding**

Funding for coordination costs will be between 50,000 and 55,000€ per year.

Funding will be provided according to eligible costs (below) and INRA procedures (refer to contact point for details).

Eligible coordination costs are:

- Costs to support a Coordinator or Sub-theme coordinator as far as French coordinators are chosen
- Travel costs, mainly Hub-meetings for the French participants (permanent and non-permanent staff)
- Communication
- One summer school

The following costs are not eligible:

- Research
- Mobility

INRA welcomes contributions to the Knowledge Hub of 24 person months per year per research organisation as a minimum.

**For all further information please refer to the national contact point:**

Isabelle Albouy

INRA, 147 rue de l'Université, 75338 Paris cedex 07

[Isabelle.albouy@paris.inra.fr](mailto:Isabelle.albouy@paris.inra.fr)

Germany



**Federal Ministry of Food, Agriculture and Consumer Protection (BMELV) and  
Federal Ministry of Research and Education (BMBF)**

- BMELV and BMBF funding of the FACCE-JPI-call is provided as delineated in the announcement *Richtlinien zur Förderung eines europäischen Knowledge Hubs im Rahmen der Joint Programming Initiative Agriculture, Food Security and Climate Change im Themenbereich "Detaillierte Risikoanalyse zum Klimawandel für die europäische Landwirtschaft und Ernährungssicherheit in Zusammenarbeit mit internationalen Projekten"* published in July 2011.
- Funding bases on §§23 and 44 BHO (Bundeshaushaltsordnung) and associated administrative regulations. The main items are as follows:
  - ✓ Applications must be compatible with the above mentioned national announcement.
  - ✓ Funding will be awarded as non-repayable project grant.
  - ✓ The funding regulations, follow-up and reporting of publicly funded projects are regulated according to ANBest (Allgemeine Nebenbestimmungen).
  - ✓ Eligible applicants are universities and research institutions domiciled in Germany. Funding of companies is not possible. Research institutions, which receive basic financing, can be funded subject to specific conditions.
- In any case, German applicants must obligatorily take formally contact with the German National Contact Points :

Dipl.-Ing. Nicolas Tinois  
Projektträger Jülich  
Tel.: 02461-61-2422  
E-Mail: [n.tinois@fz-juelich.de](mailto:n.tinois@fz-juelich.de)  
Internet: <http://www.fz-juelich.de/ptj>

Dr. Elke Saggau  
Bundesanstalt für  
Landwirtschaft  
und Ernährung  
Tel.: 0228-68 453 930  
E-Mail: [elke.saggau@ble.de](mailto:elke.saggau@ble.de)  
Internet: <http://www.ble.de>

# Israel



## **The Chief Scientist Office, the Ministry of Agriculture and Rural Development (MOARD), Israel.**

MOARD intends to support the first Call for Proposals of the FACCE-JPI and encourages the Israeli scientists to apply for funding for collaborative research on subject included in the Call which are significant and in-line with the objectives of MOARD as published in "MOARD 2011-12 Chief Scientist Call for Proposals". MOARD has the ambition to stimulate synergy and international collaboration, on the basis of excellence in research, in objectives of mutual agricultural importance to Israel and other member countries participating in FACCE-JPI.

### **Eligibility and national funding modalities:**

Applications to this call will be based/established/designed on Collaborative Research Projects as defined in FACCE-JPI Call Document. MOARD funding will be exclusively available for supporting the Israeli part of any successful transnational collaboration as research project grants, according to MOARD rules and criteria as published in "MARD 2011-12 Chief Scientist Call for Proposals", a summary of which appears in the last chapter. Participation of commercial companies / entities are encouraged; these companies / entities may participate under MOARD regulations and conditions but will not be eligible for grant reward from MOARD funds assigned for this call. MOARD financial support will be closely related to its funding activities and priorities within the "MOARD Chief Scientist National Fund"

### **Additional national regulations and guidelines:**

Research themes, application and evaluation of research proposals will follow the procedure as defined in the FACCE-JPI Call Notice with annexes. Kindly note that **prior to submission** of the proposal for evaluation by FACCE-JPI, **approval of the Israeli part of the proposal should be made by the chief Scientist of MOARD**, according to MOARD objectives and regulations. Therefore, applicants are strongly advised to contact their National Call Coordinator (NCC) before starting to prepare proposals for application.

MOARD terms and conditions are specific for Israeli applicants within the FACCE-JPI Collaborative Research consortia and are specified in this National Annex and in the "MOARD Chief Scientist Call for Proposals for 2011-12" (in Hebrew) which may be downloaded from our website: [www.science.moag.gov.il](http://www.science.moag.gov.il). Final approval of the funds will be made by MOARD Chief Scientist's board. MOARD grant holders shall follow the MOARD application, reporting and IPR and general rules of funding procedures. According to MOARD general policy, applicants must be aware that all information, resources and results obtained from MOARD projects are made publicly available within a reasonable period of time without being in conflict with other obligations of the project leader in this and other projects.

## **MOARD regulations for financial contribution to research projects**

The contribution amount for national participants of the selected projects will be as follows:

- Governmental and other public Institutions and private no profit bodies can be financed for the total amount of the approved eligible project costs;
- SMEs and organisms with other statutory nature are welcome as participants if an added value to the project is proven and if their costs are covered by their own resources or by other external sources.

### **Distribution of annual payments:**

#### **First year:**

- 1) 50% of the approved costs immediately following the full approval by all partners of a signed contract between MOARD and the beneficiary organization, and receiving a declaration of initiation of the project by the project leader;
- 2) 50% of the approved costs once the annual scientific and financial reports has been obtained and approved.

#### **The following years:**

- 1) 50% of the approved costs immediately following receiving a declaration of initiation of the project by the project leader;
- 2) 50% of the approved costs once the annual or final scientific and financial reports have been obtained and approved.

### **Eligible costs to be refunded.**

#### **A) Personnel**

**1) Salaries** – Only for non-permanent scientific staff (including foreign visiting scientists, post docs, PhD students, fellowships and grants). Technical administrative staff can be included in the coordination

**2) Travel expenses**- for permanent and non permanent staff.

#### **B) Consumables**

**C) External activity costs** – expenditures for activity carried out externally (Consultancy services, agreements, maintenance, repairs, material transportation when needed for the project implementation).

**D) Equipment** – Only essential scientific equipment purchased specifically for the project will be reimbursed.

**E) Overhead** – no more than 15% of the approved grant.

### **National Call Co-ordination (NCC):**

Dr. Orit Shmueli  
The Chief Scientist Office  
Ministry of Agricultural and Rural Development



P.O.B 30, Bet Dagan, Israel 50250  
Tel. +972-3-9485430; Fax: +972-3-9697193  
e-mail: [orits@moag.gov.il](mailto:orits@moag.gov.il)

Italy



Research group/organisations with a good expertise in the thematic area of the call and research groups already participating in national and international projects on the same area are eligible to participate in the Knowledge Hub.

Mipaaf rules (DG COSVIR acting as funding body) for eligibility and allocation of the financial contribution are given in the User's Manual which applicants must refer to (D.M. 6387/2010 at: <http://www.politicheagricole.it/RicercaSperimentazione/default>).

A description of those rules applicable to the participation in the Knowledge Hub are hereafter reported.

### **Nature of the applicants.**

National public research institutions and private bodies, with among their institutional and statutory scopes “performing research activities” and not only “promoting or supporting research activities”, can apply for funding.

National public institutions include public bodies supervised by Ministries, regional and provincial centres, university departments and institutes, university consortia, interdepartmental centres.

It is mandatory, for all the private research bodies defined above, that they state in the official documents (statute and/or articles of incorporation, memorandum of association) that among their missions they also “perform research activities”, and in case, their non profit's purpose.

The private research body participating in the project consortium must send to the Mipaaf, acting as

national contact point (see hereafter), scanned copy of these documents by the application deadline

to: [cosvir4@politicheagricole.gov.it](mailto:cosvir4@politicheagricole.gov.it), specifying in the object “Arimnet call documents – private body – deadline (*indicate the date*)”

### **Financial contribution.**

The contribution amount for national participants of the selected projects will be as follows:

- public Institutions and private no profit bodies can be financed up to 99% of the approved eligible project costs;
- organisms with other statutory nature and SMEs are welcome as participants if an added value to the project is proven and if their costs are covered by their own resources or by other external sources.

According to the national regulation the transfer of funds will occur in three steps:

- 1) 65% of the approved costs immediately at the issue of the Ministry decree (contract between the Ministry and the beneficiary);
- 2) 25% of the approved costs once the mid-term report (both scientific and administrative) has been approved;
- 3) 10% of the approved costs once the final report has been approved.

For private bodies the detailed documentation to receive the financial contribution is specified in the User's Manual.

## **Eligible costs to be refunded.**

### **A) Personnel**

**1) Salaries** – Only for non-permanent scientific staff (including foreign visiting scientists, post docs, PhD students, fellowships and grants). Technical administrative staff can be included in the coordination. For private institutions salaries of permanent staff actually participating in the project activity can be funded.

**2) Travel expenses**- for permanent and non permanent staff.

### **B) Consumables**

**C) External activity costs** – expenditures for activity carried out externally to the research applicant

(Consultancy services, agreements, maintenance, repairs, material transportation when needed for the project implementation).

**D) Equipments** – Only depreciation charges (related to the project duration) for scientific equipment will be reimbursed.

**E) Overheads** – no more than 10% of the total amount of the above mentioned A, B and C costs.

**F) Coordination** - if the Italian institution is also playing the role of coordinator the eligible costs are

those indicated in the User's manual.

### **Additional forms.**

Once the project has been approved for funding and during the negotiation each Italian research unit

will have to fill in the research unit form (model C), included in the User's Manual, and present it to the funding Body (Mipaaf) to apply for contribution.

In case of a research unit acting as coordinator, also the general project description, including the activity of all partners (model A-project form) and the financial sheet, limited to the Italian research participants (model B), have to be presented to the funding body.

**For all further information please refer to the national contact point:**

### **Dr. Marina Montedoro**

Ministry of agricultural, food and forestry policies - MIPAAF

Research and experimentation Office - COSVIR IV

Via XX Settembre 20, 00187 Rome (I)- **ITALY**

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[m.montedoro@mpaaf.gov.it](mailto:m.montedoro@mpaaf.gov.it)

## The Netherlands



1. The Ministry of Economic Affairs, Agriculture and Innovation (EL&I) considers the following costs eligible:
  - a. Coordinators' costs (e.g. main coordinator or sub-coordinator) as far as Dutch coordinators are involved,
  - b. Travel costs, mainly Hub-Meetings (visits, workshops etc.) for the Dutch participants,
  - c. Costs for the Dutch parties to organize and participate in workshops
2. The Ministry of Economic Affairs, Agriculture and Innovation (EL&I) considers the following costs non-eligible:
  - a. Dissemination costs (communication costs)
  - b. Training and capacity building (summer schools etc.)
  - c. Mobility
3. The Ministry of Economic Affairs, Agriculture and Innovation (EL&I) welcomes contributions to the Knowledge Hub of 24 person months per year per research organisation as a minimum.
4. Dutch organisations must provide their own funding for participating in the Knowledge Hub for both the research and for the additional costs based on Dutch governmental research programs or otherwise.
5. For participants of Wageningen UR, additional costs to a maximum of 30 k€ per year will be covered by the *Kennisbasis*-fund of Wageningen UR, as granted by the Ministry of Economic Affairs, Agriculture and Innovation (EL&I). Other Dutch organizations applying to participate in the Knowledge Hub should be funded by their own funding organization, according to their own eligibility criteria.
6. It is stimulated that Dutch organisations applying to participate in the Knowledge Hub will do so as a consortium, based on the strengths of each partner.

Norway



## Letters of intent: National Eligibility criteria for Norway for the JPI-FACCE Pilot action call

Building competence at a national level is the overall aim of Norwegian participation in this Knowledge Hub. In the end 1-3 Norwegian research institutions will be found eligible for participation in the Knowledge Hub. Cooperation between this/these institutions and complementary researchers at different institution is possible and preferable.

It is mandatory for Norwegian institutions planning to submit a Letter of Intent to contact the Research Council of Norway before submission. A national information meeting is scheduled for August 16<sup>th</sup> at 14:30h for all relevant institutions who have intentions of sending a Letter of Intent.

In addition to the criteria in the call text, the requirements listed in this annex must be followed by the Norwegian participants.

The Letter of Intent must:

- Be written in English, using the template. It must be uploaded completely and correctly (including all required documents) via the website indicated in the call text before the call deadline September 7, 2011 01:00 pm CET
- Be of relevance to the topic of the call
- Be within the indicative amounts and requirements set by the Research Council of Norway for this call
- Briefly describe how the institutions will collaborate with and include relevant researchers at other institutions in order to meet the description of the aims of the Knowledge Hub
- Briefly describe how the topic of this call, and the contribution from the institution in relevance to the Knowledge Hub, is in line with the strategy of their institution.

Who can submit a Letter of Intent?

- Relevant research institutes and universities may send a Letter of Intent
- The institution must have some relevant research activity going within this area of research (a minimum of 12 person months is required in order to be eligible), even though capacity building is to be expected from the participation in the Knowledge Hub
- The institution must have relevant international collaboration within this area of research

Further requirements and criteria:

- Up to 3,5 mill. NOK per year will be available for the Norwegian participants in this call. The allocated sum of money shall cover (and will have to be detailed in the future proposal required in step 2 of the call):
  - Person months e.g PhD students or time used in the project for participants
  - Extra cost for common activities in the Knowledge Hub
  - Mobility; at least 12 person months per year to one of the other institutions participating in the FACCE Knowledge Hub (can be divided among several persons )
  - Coordination cost – travel, dissemination,
  - One workshop for all Knowledge Hub participants (Norwegian contribution to the total coordination cost), and up to one workshop per year for the coordinated networks where Norway is participating

- The Research Council's standard set of rules for calculating payroll and indirect expenses must be used. Allocation of the funding on the three sub-themes of the Knowledge Hub is left for the participants to agree upon. At least two of the three sub-themes must be addressed.
- The Norwegian participation in the Knowledge Hub must follow The General Terms and Conditions for R&D Projects

The final selection of institutions will be made based on assessments of:

- The Letter of Intent and how it meets the criteria and requirements of the call text and the national annex, looking at current activity in the field, plans, ambitions etc.
- An one hour meeting between the institution and The Research Council of Norway, in order for the institution to describe their intentions from the Letter of Intent

# Romania



National rules according the eligible costs permit the costs for research, mobility, events – workshops, seminar, meetings, and summer schools); the eligible organizations are Romanian research units which are accredited/attested as research unit at national level. Additional, the research unit is needed to be registered in Potential Contractors Register (on-line register).

Romania, through Research and Academy of Agricultural and Forestry Sciences, will contribute with 12000 Euros for participating to this pilot call within Sectoral Programme.

For further information, please contact the National Contact Point:

Mr. Aurel Badiu

Phone: 0040.740034396

[aurel.badiu@madr.ro](mailto:aurel.badiu@madr.ro)

# Spain



## **Eligibility**

INIA will participate in kind providing Spanish applicants from public research institutions within this pilot call of the FACCE-JPI.

Candidate institutions/participants must be involved in a research project on the topic of this pilot call and therefore must have the funding required to undertake the activities of the project.

## **Funding**

Funding for coordination costs will be between 20,000 and 30,000€ per year.

Funding will be provided according to eligible costs (below) and the procedures of the Spanish Agency/Agencies that finance the research of the participating groups.

Eligible coordination costs are:

- Costs to support a Coordinator or Sub-theme coordinator as far as Spanish coordinators are chosen.

- Travel costs, mainly Hub-meetings for the Spanish participants (permanent and non-permanent staff).

- Communication, workshops.

INIA welcomes contributions to the Knowledge Hub of 24 person months per year per research organization as a minimum.



Sweden



### **National rules for Swedish participation in Pilot Action FACCE Knowledge Hub.**

The Research Council Formas will allocate up to 100,000€/year. To be an eligible Swedish representative, the responsible applicant need to be a senior researcher equivalent to at least an Associate Professor(Docent) at a Swedish university or research institute eligible for research grants from Formas. He or She will represent a research group or network of excellent researchers that carry out at least the minimum amount of work required in the field of the FACCE Knowledge Hub thematic areas, as specified in the call text. The allocated funding could be distributed between 1 to 3 Swedish representatives/applicants in the Knowledge Hub, depending on roles and activities that need additional support.

Eligible costs will first of all be used to cover common coordination costs for Swedish participants in the Knowledge Hub. In case the applicant intend to take the role of, and is accepted as, main- or theme coordinator, contribution to the cost for this position could be from the allocated total budget. Any exceeding amount could then be used for travelling to meetings, arranging workshops and/or to promote mobility of Swedish researchers within the Knowledge Hub network. There will be no funding for new research projects, the participating research groups are suppose to contribute to the knowledge hub with their expertise and coordination of already on-going research in the thematic fields of the call.

General rules for applications of Formas grants can be found in Formas Handbook ( [www.formas.se](http://www.formas.se) ). Further information can be provided by the national contact point.

United Kingdom



**Partner: Biotechnology and Biological Sciences Research Council – BBSRC - UK**

BBSRC supports the launch of a pilot action under the Joint Programming Initiative on Agriculture, Food Security and Climate Change (FACCE-JPI) titled “FACCE-JPI Knowledge Hub: A detailed climate change risk assessment for European agriculture and food security, in collaboration with international projects”, and encourages its research community to submit letters of intent to participate in coordination activities. Subject to all conditions of eligibility and peer review being fully met, the budget earmarked by the BBSRC for this call will be up to €750,000. The official national call announcement for the UK will be published on the BBSRC website ([www.bbsrc.ac.uk](http://www.bbsrc.ac.uk)). Applicants are advised to consult with their National Contact before submitting their letters of intent.

**The FACCE JPI Knowledge Hub and BBSRC remit**

The strategic objective of this action is to create a coordinated and visible European network bringing together the major European research groups to join forces, share expertise and data resources, and address this urgent action, as outlined in the FACCE-JPI Scientific Research Agenda (<http://www.faccejpi.com/faccejpi/FACCE-JPI-Home/FACCE-JPI-News/Scientific-Research-Agenda>). This FACCE Knowledge Hub will develop protocols for crop, pasture and livestock models inter-comparison including the collection of existing high quality datasets at various scales essential for such analyses. It will provide guidance in selecting most suitable models for particular environment/scale, develop guidelines for up-scaling site-based models to larger scales, and evaluate benefits of using models ensembles for assessing uncertainty range in decision making for Europe. The call is targeted to eligible research groups, with existing funding, and possessing data and models highly relevant to the aims of the Knowledge Hub.

The **FACCE Knowledge Hub** will be organised in **three coordinated networks** on: **Crops; Grasslands and Livestock**; and **Economics and Trade**. In each network, modelling activities will be performed building upon common protocols and further developing and adapting these protocols for Europe. The results of agricultural model inter-comparison and improvement will allow the assessment and reduction of uncertainties in projections of climate change impacts on agriculture and food security that are at the centre of the questions being addressed by the JPI. This FACCE Knowledge Hub will constitute the European contribution to international efforts in this area.

**Under this call, the BBSRC will consider letters of intent to participate in network activities in the FACCE-JPI Knowledge Hub fitting the scientific remit of the call and within the remit of the Council. For guidelines on science areas supported by BBSRC, visit: <http://www.bbsrc.ac.uk/funding/grants/areas.aspx>.**

**Eligibility and national funding modalities**

UK universities, Independent Research Organisations and BBSRC sponsored institutes with current research funding from BBSRC are eligible to apply. Enquiries can be directed to the National Contact ([gabriela.pastori@bbsrc.ac.uk](mailto:gabriela.pastori@bbsrc.ac.uk)) in the first instance.

**Costings and specific national guidelines**

Funding will be available for network costs with the aim to complement existing funding, e.g. Principal Investigator’s time for participating and/or coordinating the network; administrative

support for organising meetings and other general duties; running costs for workshops, training events, visits, meetings etc.; travel and subsistence; other network costs. Funding will be awarded on the basis of full economic cost as described on the BBSRC website, at the time of the call. UK applicants are requested to clearly justify the requested resources and complete a BBSRC cost form to ensure that their costs conform to current requirements on Full Economic Cost. BBSRC expects to fund approximately 10-12 research groups, depending on the quality of the submissions and the nature of the participation, e.g. a group proposing to coordinate the network will incur more costs than a group participating as a partner. BBSRC will fund the UK partners of the FACCE-JPI Knowledge Hub, should the proposal be successful. The BBSRC cost form should accompany both submission stages: the letter of intent stage and, should applicants be selected and invited to apply, the knowledge hub proposal stage.

### **National Contact**

Dr. Gabriela Pastori

Funding organisation: Biotechnology and Biological Sciences Research Council - BBSRC

Postal address: Polaris House, North Star Avenue, Swindon, Wiltshire SN2 1UH, UK

Phone: +44 1793 413363; Fax: +44 1793 413234; E-mail: [gabriela.pastori@bbsrc.ac.uk](mailto:gabriela.pastori@bbsrc.ac.uk)

### **BBSRC APPLICANTS STANDARD PROPOSAL COSTS FORM**

#### **Note**

**In order to assist applicants with calculating costs covered by the BBSRC contribution to the FACCE-JPI Knowledge Hub call, each UK institution eligible for BBSRC funding and submitting a letter of intent to participate in the Knowledge Hub should complete a Standard Proposal Cost Form below.**

**This will ensure that costs requested by successful applicants are acceptable under normal BBSRC terms and conditions. Funds will be awarded according to the 80% FEC model currently operating in BBSRC.**

**COMPLIANCE WITH THE DATA PROTECTION ACT 1998**

**In accordance with the Data Protection Act 1998, the personal data provided on this form will be processed by BBSRC, and may be held on computerised database and/or manual files. Further details may be found in the guidance notes**

# Standard PROPOSAL

Document Status:

**BBSRC Reference: (this is added once submitted to BBSRC)**

FACCE-JPI Knowledge Hub

UK organisation where the grant would be held

Organisation		Research Organisation Reference:	Submitter's Ref
Division or Department			

## Summary of Resources Required (for BBSRC applicants only)

### Financial resources

Summary fund heading	Fund heading	Full economic Cost	BBSRC contribution	% BBSRC contribution
Directly Incurred	Staff			80
	Travel & Subsistence			80
	Other Costs			80
	<b>Sub-total</b>			<b>80</b>
Directly Allocated	Investigators			80
	Estates Costs			80
	Other Directly Allocated			80
	<b>Sub-total</b>			<b>80</b>
Indirect Costs	Indirect Costs			80
	<b>Total</b>			<b>80</b>

### Summary of staff effort requested

	Months
Investigator	
Researcher	
Technician	
Other	
<b>Total</b>	



Staff

Directly Incurred Posts (you may duplicate)

Role	Name /Post Identifier	JNCHEs (Y/N)	Basic Starting Salary/ Starting Spine Point	Grade/ Scale	Increment Date	Start Date	EFFORT ON PROJECT		London Allowance (£)	Super-annuation and NI (£)	Total of Other Allowances (over period of appointment) (£)	Total cost on grant (£)
							Period on Project (months)	% of Full Time				
Researcher												
Technician												
Other Staff												
Total												

Directly Allocated Posts

Role	Name	Post will outlast project (Y/N)	Contracted working week as a % of full time work	Total number of hours to be charged to the grant over the duration of the grant	Average number of hours per week charged to the grant	Rate of Salary pool/banding	Cost estimate
Principal Investigator							
Co-Investigator							
Co-Investigator							
Co-Investigator							
Co-Investigator							

**Travel and Subsistence**

Destination	Purpose	Total £
Total £		

**Other Directly Incurred Costs**

Description	Total £
Total £	

Other Directly Allocated Costs

Description	Total £
Total £	



## Ethical Information Please answer the following questions as appropriate

### a) Human Participation

Would the project involve the use of human subjects?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, would equal numbers of males and females be used?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Would the project involve the use of human tissue?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Would the project involve the use of biological samples?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Would the project involve the administration of drugs, chemical agents or vaccines to humans?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Will personal information be used?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, will the information be anonymised and unlinked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Or will it be anonymised and linked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Will the research participants be identifiable?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

### b) Animal Research

Would the project involve the use of vertebrate animals or other organisms covered by the Animals (Scientific Procedures) Act?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, what would be the severity of the procedures?	Mild <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial <input type="checkbox"/>	
Please provide details of any areas of substantial or moderate severity:		

### c) Genetic and Biological Risk

Would the project involve the production and/or use of genetically modified animals?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, will genetic modification be used as an experimental tool, e.g., to study the function of a gene in a genetically modified organism?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
And will the research involve the release of genetically modified organisms?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
And will the research be aimed at the ultimate development of commercial or industrial genetically modified products or processes?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Would the project involve the production and/or use of genetically modified plants?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, will genetic modification be used as an experimental tool, e.g., to study the function of a gene in a genetically modified organism?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
And will the research involve the release of genetically modified organisms?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
And will the research be aimed at the ultimate development of commercial or industrial genetically modified products or processes?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Would the project involve the production and/or use of genetically modified microbes?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, will genetic modification be used as an experimental tool, e.g., to study the function of a gene in a genetically modified organism?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
And will the research involve the release of genetically modified organisms?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
And will the research be aimed at the ultimate development of commercial or industrial genetically modified products or processes?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

d) Approvals

Have the following necessary approvals been given by:			
The Regional Multicentre Research Ethics Committee (MREC) or Local Research Ethics Committee (LREC)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not required <input type="checkbox"/>
The Human Fertilisation and Embryology Authority?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not required <input type="checkbox"/>
The Home Office (in relation to personal and project licences, and certificates of designation)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not required <input type="checkbox"/>
The Gene Therapy Advisory Committee?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not required <input type="checkbox"/>
The UK Xenotransplantation Interim Regulatory Authority?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not required <input type="checkbox"/>
Administration of Radioactive Substances Advisory Committee (ARSAC)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not required <input type="checkbox"/>
Other bodies as appropriate? Please specify.			

e) Other Issues

Are there any other issues of which the Council should be aware?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, please give details.		