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# MARÍA DE MAEZTU UNIDADES DE EXCELENCIA

## CONVOCATORIA 2015

### CONTENIDO DE LA SOLICITUD

A continuación se presenta la estructura y el contenido de la información y documentación requerida en los apartados 7 y 8 de la solicitud correspondiente a la convocatoria del año 2015 de Unidades de Excelencia María de Maeztu.

Se resaltan en color rojo los cambios respecto a la solicitud telemática, y se incluyen algunas notas que explican las diferencias.

En particular, se resalta que, en un ejercicio de simplificación y racionalización de la información a presentar, se ha optado por compilar gran parte de los documentos que se señalan en la aplicación telemática como documentación complementaria, de presentación obligada por todos los solicitantes, y que son de relevancia para la evaluación, en dos únicos documentos, que se anexarán en la aplicación como anexos (1) *Supporting 2011-2015* y (2) *Supporting 2016-2019*.

La solicitud será tramitada íntegramente a través de la aplicación telemática habilitada por la Secretaría de Estado de Investigación, Desarrollo e Innovación, una vez se abra el plazo de presentación de solicitudes. **El plazo previsto para la presentación de solicitudes comprende desde el 7 de julio a las 15:00 horas del 29 de julio de 2015.**

SE RECOMIENDA LEER EN SU TOTALIDAD EL TEXTO DE LA CONVOCATORIA, Y PRESTAR ESPECIAL ATENCIÓN A LOS CONTENIDOS DE SUS ARTICULOS 19 Y 20.

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## 7. SCIENTIFIC REPORT 2011-2015

### 7.0. OVERVIEW OF THE UNIT

Please give a brief presentation of the unit including the main strengths and achievements concerning research activities and scientific leadership of the unit as compared to its international partners. Refer to the unit's most relevant characteristics and data showing its critical mass for conducting research and any other information relevant to demonstrate research excellence and international leadership. (max. 10.000 characters)

### 7.1. ORGANIZATION, MANAGEMENT AND RESEARCH CAPABILITIES

Please summarize the strategic research plan for the unit during 2011-2015, or, if this is missing, the unit's research lines and activities developed in the period and that show the existence of common shared scientific goals. Refer to the main research areas or lines of the center and the synergies and grade of integration or complementarity existing between the research areas or lines and the developed activities during the period. Refer to organizational characteristics that allow the unit to set scientific priorities,

pursuit a coherent and integrated portfolio of research activities, and manage the available resources. (max. 20.000 characters)

If appropriate under **Supporting 2011-2015** include the benchmarking of the unit with respect to its international units, departments or centres of reference.

If appropriate under **Supporting 2011-2015** include the conclusions and recommendations from external scientific evaluations during 2011-2015 together with the appointment and composition of the external scientific committee.

**NOTA: los documentos optativos a que hace referencia la aplicación telemática ("Annex 1 Doc. Benchmarking" y "Annex 2 Doc. Scientific Advisory Committee and External Evaluation Report") corresponden a lo mencionado en los dos párrafos anteriores, y deben presentarse, en su caso, integrados en el documento obligatorio "Annex 1. Supporting 2011-2015", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".**

## 7.2. RESEARCH OUTPUTS 2011-2015

### 7.2.1. OUTSTANDING SCIENTIFIC CONTRIBUTIONS

Please describe the scientific contributions of the unit over 2011-2015. Special reference should be given to the 10 outstanding scientific contributions and/or publications for the period and that show the capacity of the unit to generate highest international impact at the frontiers of knowledge. (max. 20.000 characters)

**Mandatory** under **Supporting 2011-2015** to include a table with information, over the 2011-2015 period, on the publications of the researchers of the unit. Please refer to the number of publications (total, first quartile and first decile) and the number of citations in the timeframe from publication to date. The table should be accompanied by a description of the method of calculation and the sources used. Follow the example given in the document **Supporting 2011-2015**

If appropriate under **Supporting 2011-2015** refer optionally to alternative objective and verifiable information from public sources, indicating their excellence in research (e.g.: Nature Excellence Index, etc.).

**NOTA: los documentos a que hace referencia la aplicación telemática ("Annex 3 Doc. Scientific production of the unit 2011-2015" y "Annex 4 Doc. Other scientific metrics") corresponden a los contenidos mencionados en los dos párrafos anteriores, y deben presentarse, en su caso, integrados en el documento obligatorio "Annex 1. Supporting 2011-2015", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".**

### 7.2.2. Other Research Outputs

Please provide information on other relevant research outputs over the 2011-2015 period, such as patents, other IPR outputs, and research and collaborations with the private sector. Refer only to those results with highest scientific, societal and economic potential impact. Make special reference to activities of knowledge transfer and their applications, as well as science communication and outreach and any other output not included in section 7.2.1. (max. 20.000 characters)

## 7.3. HUMAN RESOURCES AND RESEARCH FACILITIES

### 7.3.1. HUMAN RESOURCES

This section is aimed at providing evidence on the existence of the unit critical mass along its different research lines or groups. Please refer to the research career, international recognition, scientific awards and leadership skills during the 2011-2015 period of the Scientific Director and the 6 *researchers garantes* of the application. (max. 20.000 characters)

**Mandatory** under **Supporting 2011-2015** to provide data of the research staff evolution for the 2011-2015 (up to date) by status, sex and nationality split by research line ascribed to the unit. Follow the example given in the document **Supporting 2011-2015**.

**NOTA: el documento a que hace referencia la aplicación telemática ("Annex 5 Doc. Research staff by profession, sex, and nationality 1st June 2015") corresponde al contenido mencionado en el párrafo anterior, y debe presentarse integrado en el documento obligatorio "Annex 1. Supporting 2011-2015", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".**

### 7.3.2. RESEARCH FACILITIES

Please brief on research infrastructures and facilities that the unit shares or makes use of along 2011-2015. Refer to the access of national or international large research infrastructures or facilities. (max. 4.000 characters)

## 7.4. TRAINING AND RECRUITING

Please describe doctoral and post-doctoral training programs and related activities carried out during 2011-2015 and its international dimension. Refer also to the specific recruitment practices and activities for the 2011-2015 period. Describe the unit facilities and resources available to trainees as well as the mechanisms in place to foster the research career (e.g. tenure track) and the practices for talent attraction and retention. (max. 10.000 characters)

**Mandatory** under **Supporting 2011-2015** to include a comprehensive table indicating the number of trainees disaggregated by sex and nationality during 2011-2015 and doctoral thesis carried out and finished at the unit by research line or research groups ascribed to the unit. Please include also the number of post-doctoral fellows and expiration date of their contractual relationship if any. Follow the example given in the document **Supporting 2011-2015**.

**NOTA: el documento a que hace referencia la aplicación telemática ("Annex 6 Doc. Training 2011-2015") corresponde al contenido mencionado en el párrafo anterior, y debe presentarse integrado en el documento obligatorio "Annex 1. Supporting 2011-2015", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".**

## 7.5. INTERNATIONAL LEADERSHIP

Please include a summary of the scientific relevance and impact of the international top class collaborations led by the researchers of unit over 2011-2015, including international and EU Framework Programme projects - with special attention to ERC projects- and any other international research activity and recognition revealing the leadership of the unit. (max. 10.000 characters)

## 7.6. FUNDING SOURCES

Please refer to the funding model of the unit during 2011-2015. Disaggregate by non-competitive public funding received by the unit through transfers of the General State Administration, the relevant regional government or the beneficiary organization to which he belongs; competitive funding from national and international sources, and non-competitive funding from the business sector. (max. 8.000 characters)

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# 8. STRATEGIC RESEARCH PROGRAMME 2016-2019

## 8.0. INTRODUCTION

Please give an overview of the Strategic Research Programme to be implemented during 2016-2019 in a clear, understandable and concise manner. Please refer specifically to the aspects that will be put in practice by Maria de Maeztu funding in the 2016-2019 period. (max. 6.000 characters)

## 8.1. SCIENTIFIC AND STRATEGIC GOALS LINKED TO THE SCIENTIFIC ACTIVITIES OF THE UNIT 2016-2019

Please describe the specific research objectives and priorities, and implementation mechanisms of the unit 2016-2019 Strategic Research Programme; its coherence with research activities carried out in 2011-2015 period and if appropriate a clear justification of the new research lines to be implemented. Refer to the organization and management and the human resources and facilities you will manage, by focusing on coordination and synergies to be achieved between research areas. Include the planned research activities to increase collaborations of the unit with other external units, centres and research groups. (max. 20.000 characters)

## 8.2. TRAINING AND RECRUITING HUMAN RESOURCES 2016-2019

Please describe: i) the new doctoral or postdoctoral training programmes or improvements in the existing ones for the 2016-2019 period; ii) specific actions to attract national and international talent, and to address the gender gap and to promote women in science within the unit (gender action plan). (max. 20.000 characters)

**Mandatory** under **Supporting 2016-2019** to include a table with the number of PhD students and postdoc you aim to train during the 2016-2019 period. For PhD students you should provide a preliminary distribution of both the total number of expected trainees and the potential number of predoctoral contracts to be funded by MINECO under the Predoctoral Call by a maximum four main research lines.

NOTA: el documento a que hace referencia la aplicación telemática ("Annex 8 Doc. "PhD and post doc training 2016-2019") corresponde al contenido mencionado en el párrafo anterior, y debe presentarse integrado en el documento obligatorio "Annex 2. Supporting 2016-2019", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".

No olvide, además, indicar en la segunda tabla del apartado 8.2 del "Annex 2. Supporting 2016-2019", el número de plazas (especificando las líneas estratégicas de investigación a las que se vincularían dichas plazas), de investigadores predoctorales que podrían ser incluidos, en caso de evaluación positiva, en la convocatoria de Contratos Predoctorales para la Formación de Doctores, del Subprograma Estatal de Formación.

### 8.3. INTERNATIONALIZATION

Please describe the Strategic Research Programme actions designed to reinforce and consolidate the international leadership of the unit with a specific reference to those aimed at strengthening collaboration with top research departments, units and centres and other international networks of excellence; to improve the center' returns from Horizon 2020, and related actions within the European Research Area. (max. 20.000 characters)

### 8.4. EXPLOITATION AND DIFFUSION OF RESEARCH OUTCOMES 2016-2019

Please refer to the specific actions of the Strategic Research Plan aimed at fostering the exploitation and dissemination of the unit research outcomes by referring to: knowledge transfer and collaborative linkages with the business sector and other relevant stakeholders; outreach activities and knowledge diffusion by encouraging open access to scientific publications and underlying research data accordingly to international standards. (max. 10.000 characters)

### 8.5. STRATEGIC OPPORTUNITY AND SOCIAL IMPACT

Please provide a precise description on how the specific actions of the unit's Strategic Research Programme 2016-2019 will contribute to strengthen the unit's research capabilities, outcomes and international leadership. You should provide also a preliminary distribution of the Maria de Maeztu funding resources across the activities included in the Strategic Research Programme of the unit. In this section you should also describe the 2016-2019 Strategic Research Program monitoring system and its corresponding indicators. (max. 15.000 characters)

**Mandatory** under **Supporting 2016-2019** to include a Gantt Chart with objectives, milestones and activities for the period, as well as indicators for the monitoring of scientific publications, recruiting and training, research output and external sources of funding.

NOTA: el documento a que hace referencia la aplicación telemática ("Annex 9 Doc. "Monitoring indicators") debe incluir el contenido mencionado en el párrafo anterior, y presentarse integrado en el documento obligatorio "Annex 2. Supporting 2016-2019", que se adjuntará en la aplicación telemática bajo el tipo de documento "Otros documentos/Other documents".

## BUDGET BREAKDOWN

You must declare:

- (1) The total requested funding of four million euros distributed annually over the 2016-2019 period.
- (2) The amount over four years estimated to allocate staff costs, which is the sum of the costs associated with new hires and estimated allowances for staff researchers or currently employed by the center.
- (3) The allowances are optional and may not exceed 10% per annum of the amount of total funding (50.000 Euros / year).
- (4) The equipment and infrastructure costs included in the running costs may not exceed 25% of the amount of total aid (125.000 Euros / year).
- (5) Direct costs are the sum of personnel costs and other running costs.
- (6) Indirect costs may not exceed 15% of the total cost of the aid (75.000 Euros / year).
- (7) Before submitting the application you must ensure that the total amount of detailed budget does not exceed 500,000 Euros per annum.

All amounts are shown in Euros. Two decimals are allowed, using comma (,) as separator.