GOBIERNO DE ESPAÑA
MINISTERIO DE ECONOMÍA, INDUSTRIA Y COMPETITIVIDAD

MÉXICO
GOBIERNO DE LA REPÚBLICA

CONACYT
45 años

Joint Bi-Regional Pilot Call on Ocean Energy and Research Infrastructures (JBPC-OE&INFRA)

Design of a Joint Bi-Regional Pilot call for projects carried out in large Research Infrastructures

ERANet LAC

Rationale (1/2)

- The Brussels Declaration of June 2015 **acknowledges the progress in R&I between EU and CELAC countries**, who are allowing broadening and strengthening of a **Common Research Area** based on an increased
  - mobility of researchers,
  - exchange of information about best practices
  - capacity building
  - strengthened cooperation on science, technology and innovation.

- EU-CELAC **Common Research Area** focused on three commonly agreed strategic pillars, which are:
  a. Mobility of Researchers;
  b. **International outreach of Large Research Infrastructures;**
  c. Increased thematic cooperation to address global challenges

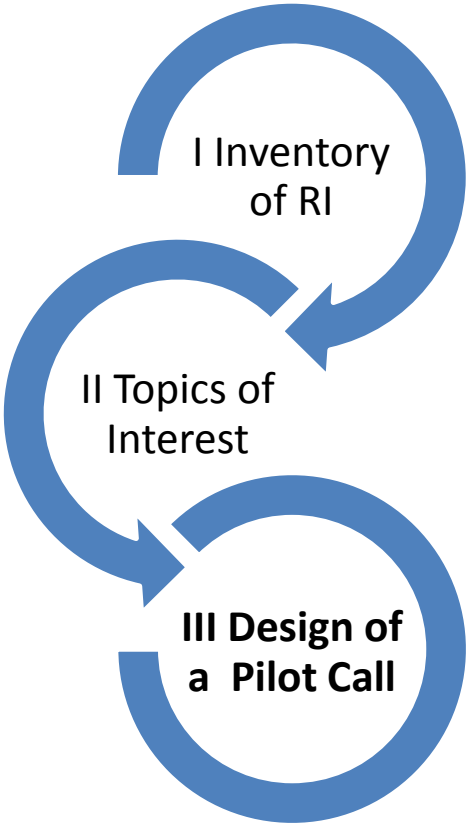
Rationale (2/2)

Under the pillar of Research Infrastructures, the EU and CELAC countries acknowledged the political and socio-economic importance **to promote access to Large Research Infrastructures** of global interest, to improve sharing of data and scientific excellence.

In this context, the Parties agreed on the importance of sharing good practices in mapping existing research infrastructures as well as in road mapping process and methodology.

Large Research Infrastructures provide unique opportunities for world-class research, training and capacity building as well as to stimulate knowledge and technology transfer.

Actions

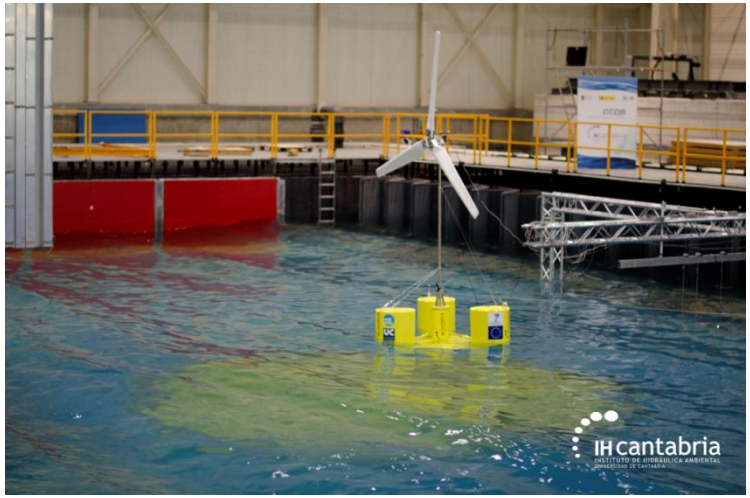


- CONACYT and MINECO, as leaders of the JIRI of energy, are exploring a first inventory of Energy National Research Infrastructures wishing to join this ERANET initiative.
- The lines and topics of EU-CELAC common interest in the field of expertise of the RI participants will be defined by convening a bi-regional technical validation.
- Preparation of a call following the ERANET scheme, taking into account, as the major reference, the recommendations and general methodology for the ERANET LAC joint calls, and in combination with the expertise accumulated within ALCUENET project.

I Inventory of RIs

To date, 2 RIs have been selected:

- IH CANTABRIA
- PLOCAN



II Topics

1. Development of marine **systems, technologies and components** with an increasing number of innovative, long-lasting and cost-effective concepts.

2. Development of ocean energy **integration into on-shore grids.** Power take-off systems validation near full-scale in real sea conditions.

3. Evaluations of **environmental, economic and social impacts** and methodologies.

4. **Resources evaluation**. Modelling and monitoring

Wave energy

Tidal and Current energy

Ocean Thermal Energy Conversion (OETC)

Salt Gradient Technologies

II Topics

1. Development of marine **systems, technologies and components** with an increasing number of innovative, long-lasting and cost-effective concepts.

- R&D focused on subsystems and components with an increasing number of innovative concepts to reduce costs into full-scale prototype. Increase reliability of devices through testing and deployment.
- Corrosion evaluation and solutions for long lifetime of equipment, as it operates in a saline aggressive environment. Material development for a better economic viability of ocean systems: low cost and weight.
- Development of salinity gradient devices.
- Deep off shore multipurpose uses.

2. Development of ocean energy **integration into on-shore grids.** Power take-off systems validation near full-scale in real sea conditions.

- Power take-off systems validation near full-scale in real sea conditions.

3. Evaluations of **environmental, economic and social impacts** and methodologies.

- Life Cycle Analysis.
- Development of standard environmental impact evaluation methodologies.
- Socio-ecological issues.

4**. Resources evaluation**. Modelling and monitoring.

- Data collection/resources evaluation.
- Computational model development for energy production prediction and its validation within existing oceanic platforms and centers.
- Development of thermal cycles and corresponding cycle fluids for its application in temperature difference concepts, and able to work in off-shore conditions, minimizing environmental impact and maximizing efficiency.

Wave energy

Tidal and Current energy

Ocean Thermal Energy Conversion (OETC)

Salt Gradient Technologies

III Design of a Pilot Call (1)

- The proposals must include the use of the large Research Infrastructures (RI) selected in the Pilot Call.
- Consortia must cover the two regions.
- As a general rule, all projects will be managed according to ERANET LAC procedures.
- All RI expenses directly attributable to a project will be fully covered by its partners.
- The pilot Call Secretariat will be coordinated by FECYT-AEI with the support of the Group of Funding Parties (GFP), each Funding Party nominating a representative for the GFP.

III Design of a Pilot Call (2)

RI Pilot Call procedure:

1. Eligibility check and technical feasibility evaluation.

Only proposals that require the use of one of the available RIs to carry out the projects will pass to the evaluation stage.

- The Pilot Call Secretariat and the national representatives will check the eligibility of the proposals.
- A panel of experts nominated by the GFP with the advice of a consultative group of experts drawn primarily from the participant RIs will define a clear **pass/fail resolution** attending from the only the feasibility of running the project in the selected RI

2. Evaluation process (criteria: excellence, impact, implementation).

The Scientific Evaluation Committee will evaluate the proposals and recommend the proposals to be funded.

3. Final funding decisions will be made by the Group of funding parties.

Tentative calendar

DATE	ACTIVITY
March 2017	Finalisation of Call Documents and final confirmation
April - May 2017	Formal commitment on the call participation, topics and the definite financial contributions (Meeting in CONACYT, Mexico?)
July 2017	Formulation of national funding rules
July2017	**Pre-announcement of Pilot Call**
September 2017	Activation of FECYT online system
	Identification of experts and definition of the Scientific Advisory Boards of each topic
November 2017	**Launch of the Pilot Call**
January 15, 2018	**Closure of the Joint Call**
January 2018	General and National Eligibility Check and technical feasibility evaluation of proposals
February - March 2018	**Evaluation of proposals based on the evaluation guidelines**
April 2018	Scientific Evaluation Committee meeting and ranking list
May 2018	Funding agencies confirm projects´ funding according to ranking list
Jun 2018	**Start of funded projects**

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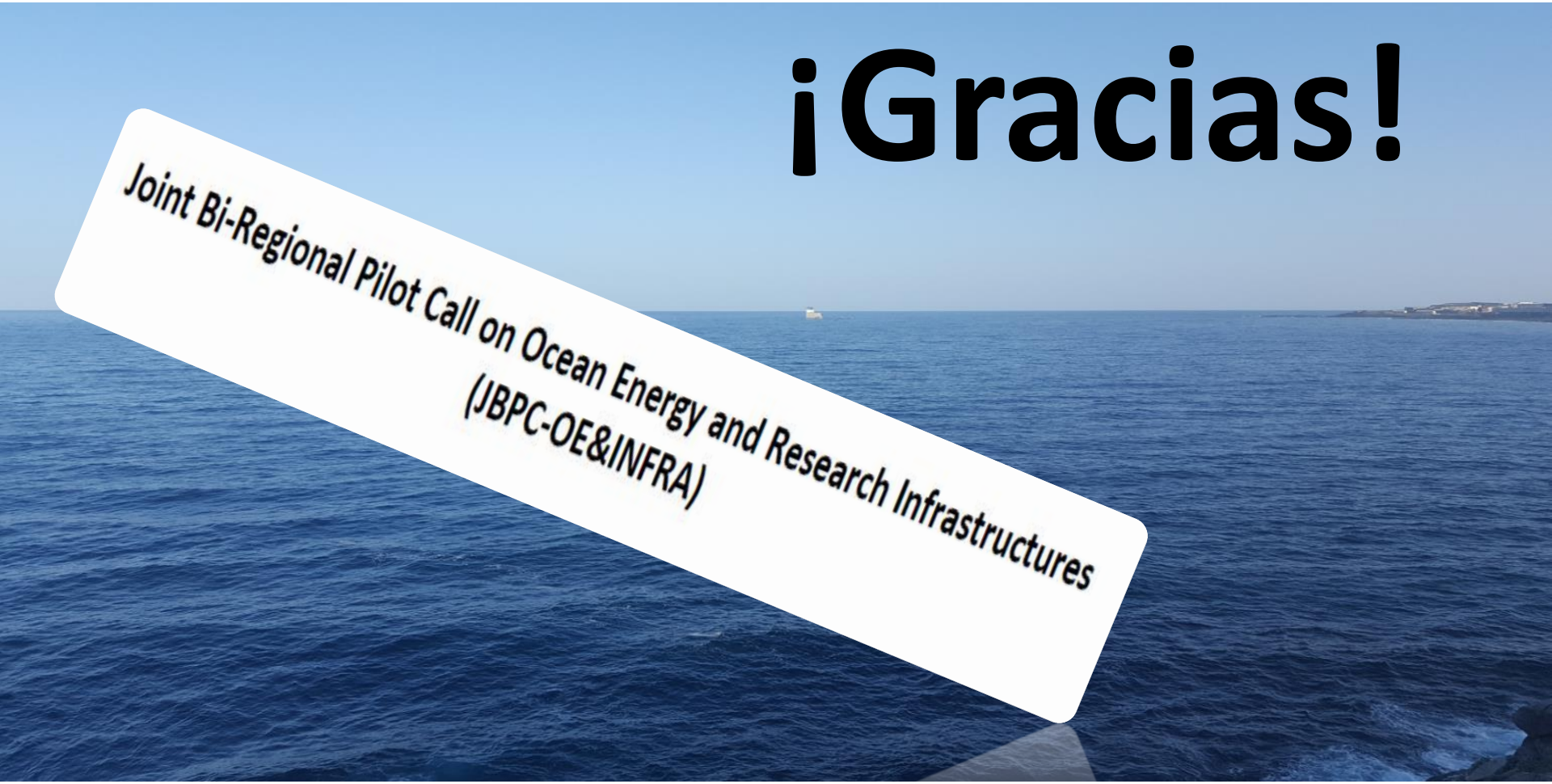
¡Gracias!



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