



COLLABORATIONS BETWEEN EUROPE AND LATIN AMERICAN COUNTRIES

Existing structures and experiences in multilateral networks and in P2Ps

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- ▶ **Multilateral Networks:**
 - ▶ CYTED
 - ▶ LATIN-AMERICAN INIA SYSTEM
 - ▶ FONTAGRO
- ▶ INCONET
 - ▶ ALCUE NET
- ▶ ERANETS
 - ▶ ERANet-LAC
 - ▶ Other Thematic ERANETS



Spanish National Institutions collaborating with Latin American Countries in funding Research and Development in the Bioeconomy Area

Ministerio de Economía, Industria y Competitividad
(MINECO)



State Research Agency

AEI



Centre for the Development of Industrial Technology

CDTI



National Institute for Agriculture and Food Research and Technology

INIA

▶ **Multilateral Networks:**

- ▶ **CYTED**
- ▶ **LATIN-AMERICAN INIA SYSTEM**
- ▶ **FONTAGRO**



Ibero-American Programme for Science and Technology for Development

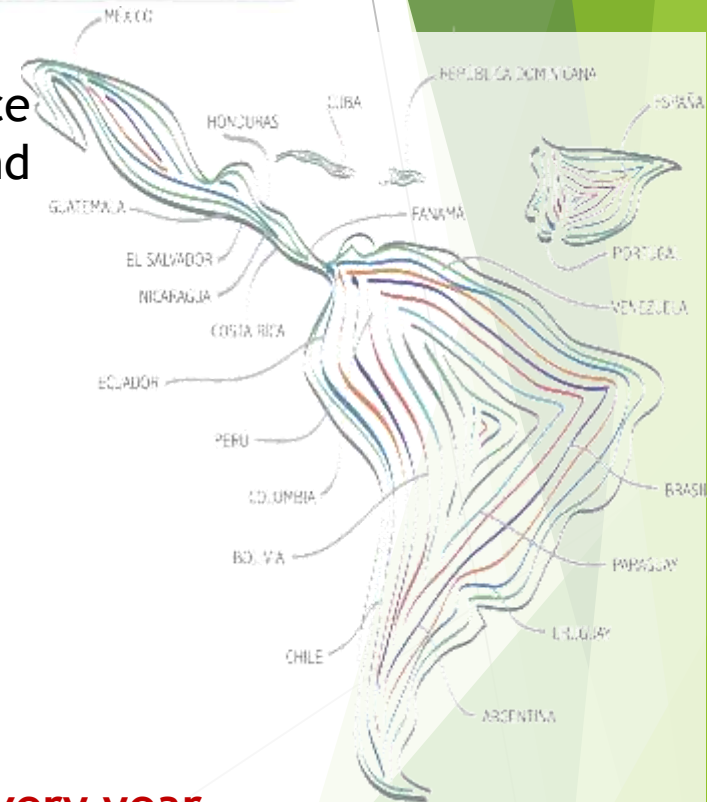


A bridge for interregional cooperation in Science and Technology between the European Union and Latin America.

Set up in **1984**. Since 1995 formally included among the programmes of the LA Summit of Heads of State and Government.

Members: National Science and Technology Institutions in charge of S&T policy

- **One call every year**



R&D INSTRUMENTS

► STRATEGIC PROJECTS

Research and technological development projects between groups of CYTED countries

Funds:

- CYTED
- National agencies of member countries.

trans-national in nature / 3 years duration

- **Call in 2017** supported by Argentina, Brasil, Chile, Colombia, España, México, Paraguay, Perú y República Dominicana.

Topic related to **Bioeconomy**:

USE OF BIOMASS RESIDUES IN THE PRODUCTION OF TRANSPORT FUELS

R&D INSTRUMENTS

► THEMATIC NETWORKS

Coordination activities

500 so far. 8 running now in agriculture.

4 years

Minimum of 6 groups of at least 6 different Ibero-American countries

► PROMINENT ACTIONS in Bioeconomy, 2016:

SI3A (Industrial applications of algae) coordinated by Portugal

VESPLAN (environmental protection) coordinated by Argentina

HIBRELEC (renewable energies including biomass) coordinated by Spain

Latin American INIA System

Network of **Agencies and Institutions of agricultural research**, in LAC, Portugal and Spain



- Close collaboration with FONTAGRO and other institutions (CGIAR, IICA)

Topics of interest (WG): Integrated control of pests and bio-inputs, animal health, intensive horticulture, Soil as the basis of food security, Pastures and legumes, Genetic editing and genetic improvement of plants and animals, Fruticulture-viticulture, Family Farming and Genetic Resources, Extensionism, Machinery for family farming and small communities, Territorial innovation systems, Biorefineries: processing of agro-food waste.

Latin American INIA System



- ▶ Created in 2003.
- ▶ Secretariat
 - Spain + 2 rotating members
- ▶ Strengthen regional efforts in agricultural research for in sustainable development
- ▶ Strategic Projects
- ▶ Education and Capacity
 - ▶ Doctors program
 - ▶ Short stays
 - ▶ Spanish Ibero-American Specialized Technical Training Program



Spanish Ibero-American Specialized Technical Training Program

- ❖ Spanish commitment to capacity building for development of Latin American public entities in collaboration with AECID:
 - 2015 Integrated pest and plant disease control/Food processing/ Animal health
 - 2016 Mitigation of the adverse effects of climate change through reforestation programs / Adaptation to the adverse effects of climate change in agriculture
 - 2017 Mitigation of the adverse effects of climate change in livestock /Greenhouse horticulture
 - **2018-2019 New plan**

CENTERS: Cartagena de Indias (Co), Santa Cruz de la Sierra (Bo), Antigua (Gu), Montevideo (Ur)



Latin American INIA System

Annual Meetings

- "Sustainable Agriculture" Mexico 2014
- "Intensive Horticulture" Almería 2015
- "Animal health and trade between Latin America and Europe" Argentina 2016

- **Next in La Serena, Chile**
23-25 October
XVI Encounter



FONTAGRO



FONTAGRO is an alliance of LAC countries that supports research and innovation in agriculture.

The Fund Created in 1998. Spain joined in 2007

❖ Unique regional cooperation mechanism that promotes innovation in family agriculture, competitiveness and food security. Funding comes from the interest generated by the fund of contributions from member countries as well as the specific contributions of different entities

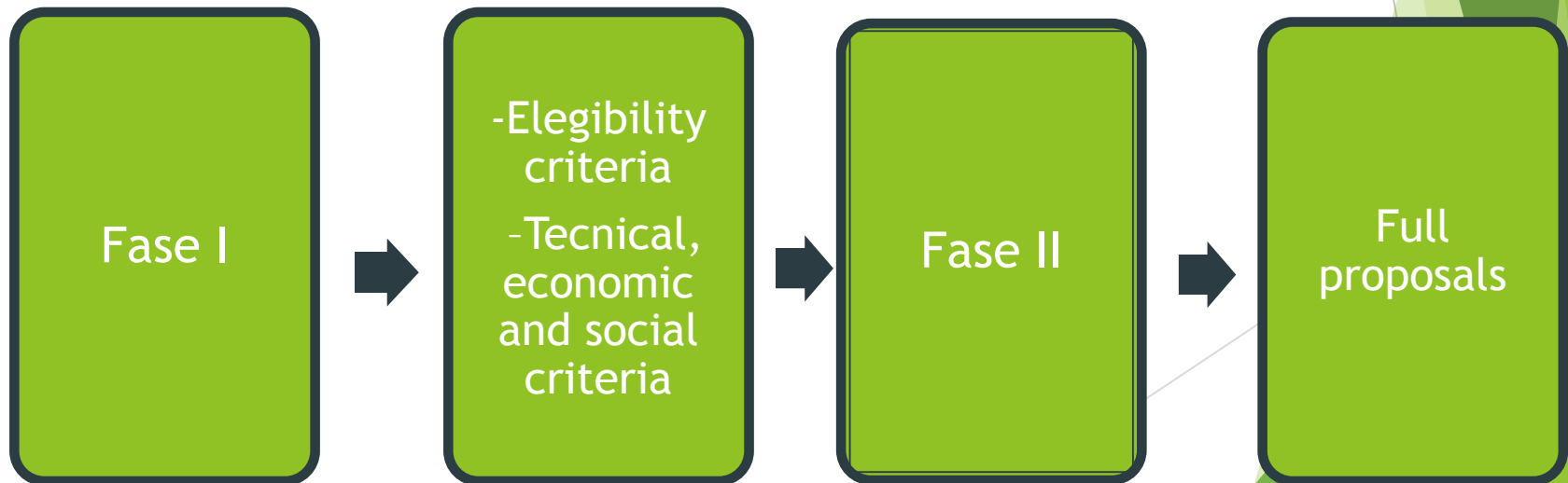
➤ **Members:** Argentina, Bolivia, Chile, Colombia, Costa Rica, Ecuador, Spain (INIA), Honduras, Nicaragua, Panama, Paraguay, Peru, Dominican Republic, Uruguay and Venezuela



Projects: Calls for project every year

- Max amount per project 400.000€
- Duration max. 36 months
- The applicant must submit an endorsement
- At least two countries members of FONTAGRO

Submission process



INIA (Spain) coordinates a seed capital project “Bioeconomy” financed by FONTAGRO

Objective:

Create a regional platform for the development of the Bioeconomy in family agriculture in Latin America and the Caribbean

Participating countries

Argentina, Chile, Colombia, Ecuador, Spain, Nicaragua, Peru



- ▶ **INCONET**
 - ▶ **ALCUE NET**
- ▶ **ERANETS**
 - ▶ **ERANet-LAC**
 - ▶ **Other Thematic ERANETS**

ALCUE NET

Network on Research and Innovation

ALCUE NET supports the European Union and the Community of Latin American and Caribbean (EU-CELAC) Policy Dialogue process on S&T and the implementation of the Joint Initiative for Research and Innovation during 2013-2017, reflecting the suggestions and recommendations of the Senior Officials Meetings

ALCUE NET

- Common platform for EU-CELAC policy makers, research institutions and the private sector
- Expand the National Contact Points in Latin American and Caribbean countries, as well as engage with Alumni networks, other INCO-NETs and related thematic biregional projects

Working Groups:

- Bioeconomy
- Biodiversity

<http://alcuenet.eu>



ERANet-LAC

Network of the European Union, Latin America and the Caribbean Countries on Joint Innovation and Research Activities

EU-CELAC PLATFORM FOR FUNDING AGENCIES: group of funding agencies from Latin America, the Caribbean and Europe wishing to collaborate in bi-regional science, technology and innovation.

This platform supports the implementation of the **Common EU-CELAC Research Area**
Three pillars:

- Mobility of Researchers
- Research Infrastructures (launch of the WG for policy coordinaton on RI)
- Societal Challenges (health, sustainable urbanisation and clean urban transport).

Members:

- **From Latin America and the Caribbean:** Argentina, Barbados, Bolivia, Brazil, Chile, Colombia, Dominican Republic, Ecuador, Guatemala, Mexico, Panama, Peru, Trinidad and Tobago, and Uruguay
- **From Europe:** Austria, Belgium, Finland, Germany, Italy, Netherlands, Norway, Poland, Portugal, Spain (MINECO, FECYT, CDTI) and Turkey

2 Joint Calls on Research and Innovation to start new sustainable and multilateral cooperation between researchers from Europe, Latin-America and Caribbean countries.

Bioeconomy,
Health, Biodiversity and Energy

1st 2014

2nd 2016

(<https://www.eucelac-platform.eu/joint-actions>)

1st ERANet-LAC joint call

- ▶ 20 funding organizations from Europe, Latin America and the Caribbean countries (14 participating countries)
- ▶ In total, 90 proposals involving 533 applicants
- ▶ 14 transnational research and innovation projects (5 on **Bioeconomy**) were financed, 7.6 M€
- ▶ 400.000 to > 1 M € /each
- ▶ 79 research institutions and small and medium enterprises (SMEs) from both regions are involved in the international consortia.
- ▶ TOTAL 9.6 M€ (2M€ self-financed).

1st ERANet-LAC joint call (cont.)

- Three projects with **Spanish participation** in the topic “**Small scale self-sustainable bio-refineries**” funded:
 - **GREENBIOREFINERY.** Processing of brewery wastes with microalgae. Coordinator: **Spain**. Partners: Portugal, Colombia, Argentina.
 - **SMIBIO.** Production of bioproducts from agriculture and agroindustrial residues. Coordinator: **Portugal**. Partners: Argentina, Chile, Colombia, México, Germany, Portugal and Spain.
 - **SUMO.** Sustainable use of biomass for oleaginous processing. Coordinator: **Spain**. Partners: Argentina, Chile, Germany, Portugal and Uruguay.

2nd ERANet-LAC joint call

► BIOECONOMY

Topic 3: Fractionation and valorisation of residual biomass to intermediate and/or final high added value bioproducts

Participating countries: Argentina (MINCyT), Bolivia (MINEDU), Brazil (CNPq and FAPESP), Chile, (CONICYT), Colombia (COLCIENCIAS), Dominican Republic (MESCYT), Ecuador (SENESCYT), Finland (AKA), Germany (AiF and DLR), Italy (CNR), Latvia (VIAA), Norway (RCN), Panama (SENACYT), Peru (CONCYTEC), Poland (NCBR), Romania (UEFISCDI), Turkey (TUBITAK), Uruguay (ANII)

Topic 4: Biorefinery - Lignocellulosic biorefinery platform: Production of high-value bio-based products

Participating countries: Argentina (MINCyT), Bolivia (MINEDU), Brazil (CNPq and FAPESP), Colombia (COLCIENCIAS), Dominican Republic (MESCYT), Ecuador (SENESCYT), Germany (AiF and DLR), Italy (CNR), Latvia (VIAA), Norway (RCN), Panama (SENACYT), Poland (NCBR), Romania (UEFISCDI), Turkey (TUBITAK), Uruguay (ANII)

2nd ERANet-LAC joint call (cont.)

- ▶ 26 funding organizations from Europe, Latin America and the Caribbean countries (22 participating countries)
- ▶ 170 proposals submitted
- ▶ 27 transnational research and innovation projects financed (12.7 M€)
- ▶ TOTAL 18.5 M€ (5.8M€ self financed)



ERANETs with representation of LAC Countries

- **M-ERA.NET: Materials research and innovation**, including materials for low carbon energy technologies and related production technologies. Started in 2012. Forty-three members from 32 European and non-European countries (Brazil, Taiwan and South-Africa). Spanish participants: MINECO and six Regional funders. In 2015 one funded project with Spain-Brazil-Portugal collaboration (BIOHYP Project)
- **ERA-MIN 2: Research and innovation programs on raw materials** to strengthen the industry competitiveness and the shift to a circular economy. Origin in ERA-MIN FP7 funded project, started as ERA-NET Cofund in 2016. Network of 21 public funding organizations from 17 European and non-European countries (Argentina, Brazil, Chile and South-Africa). Spanish participants: MINECO, CDTI, ADE. Proposals under evaluation.



ERA-MIN 2

RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS
TO FOSTER CIRCULAR ECONOMY

ERANETs with representation of LAC Countries

- **CoBioTech “Cofund on **BioTechnologies**”**: Aims to strengthen Europe’s global lead in modern biotechnology. Started in 2016. Twenty-two partners from 18 countries, European and non-European (Argentina). Spanish participants: MINECO, CDTI. Proposals under evaluation.
- **MarTERA: Cofund on **Maritime and Marine Technologies**** for a sustainable development of the maritime sector. Started in 2016. Eighteen participants from 16 countries (From outside EU: Argentina and South Africa). Spanish participant: CDTI. Proposals under evaluation.
- **ForestValue “Innovating the forest-based bioeconomy”**: To promote increased innovation and competitiveness of the **forest-based sector** in Europe. Thirty-one participants from 20 European and non-European (Argentina, Egypt, Jordan, Tunisia) countries. Spanish participants: MINECO, CDTI. Planned start date: 01/2018. Call under preparation.



ERANETs with representation of LAC Countries

- **BiodivScen:** To reinforce research on the development of scenarios of **biodiversity and ecosystem services**. Twenty-three participants from 21 European and non-European (Argentina, Brazil, Côte d'Ivoire) countries. Spanish participant: MINECO. Planned start date: 01/2018. Call under preparation.
- **WaterWorks2017:** “Closing the water cycle gap”. ERA-NET Cofund in support of the Water JPI (WaterWorks2017). One of the covered sub-themes is: Enabling **Sustainable Management of Water Resources**. Twenty-three participants from 18 countries (From outside EU: Brazil, South-Africa, Tunisia). Spanish participants: MINECO, CDTI. Planned start date: 01/2018. Call under preparation.



FACCE - JPI & Belmont Forum

International call on Food Security and Land Use Change

(July 16th, 2013).

Countries: Cyprus, Ireland, Israel, the Netherlands, Switzerland, Romania, France, the UK, Australia, **Brazil**, India, Japan, South Africa and the USA.



<https://www.faccejpi.com/Press-Events/Belmont-call-press-release>

THANKS FOR YOUR ATTENTION



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