

EU-CELAC SOM WORKING GROUP IN RENEWABLE ENERGIES

LAC participants:

Mexico (CONACYT)

Argentina (MINCYT), Bolivia (MINEDU), Brazil (CNPq), Costa Rica (Institute of Technology of Costa Rica), Chile (CONICYT), Nicaragua (Consejo Nicaragüense de Ciencia y Tecnología-CONICYT), Peru (CONCYTEC – UNI), Uruguay (Ministerio de Industria, Energía y Minería)

EU participants:

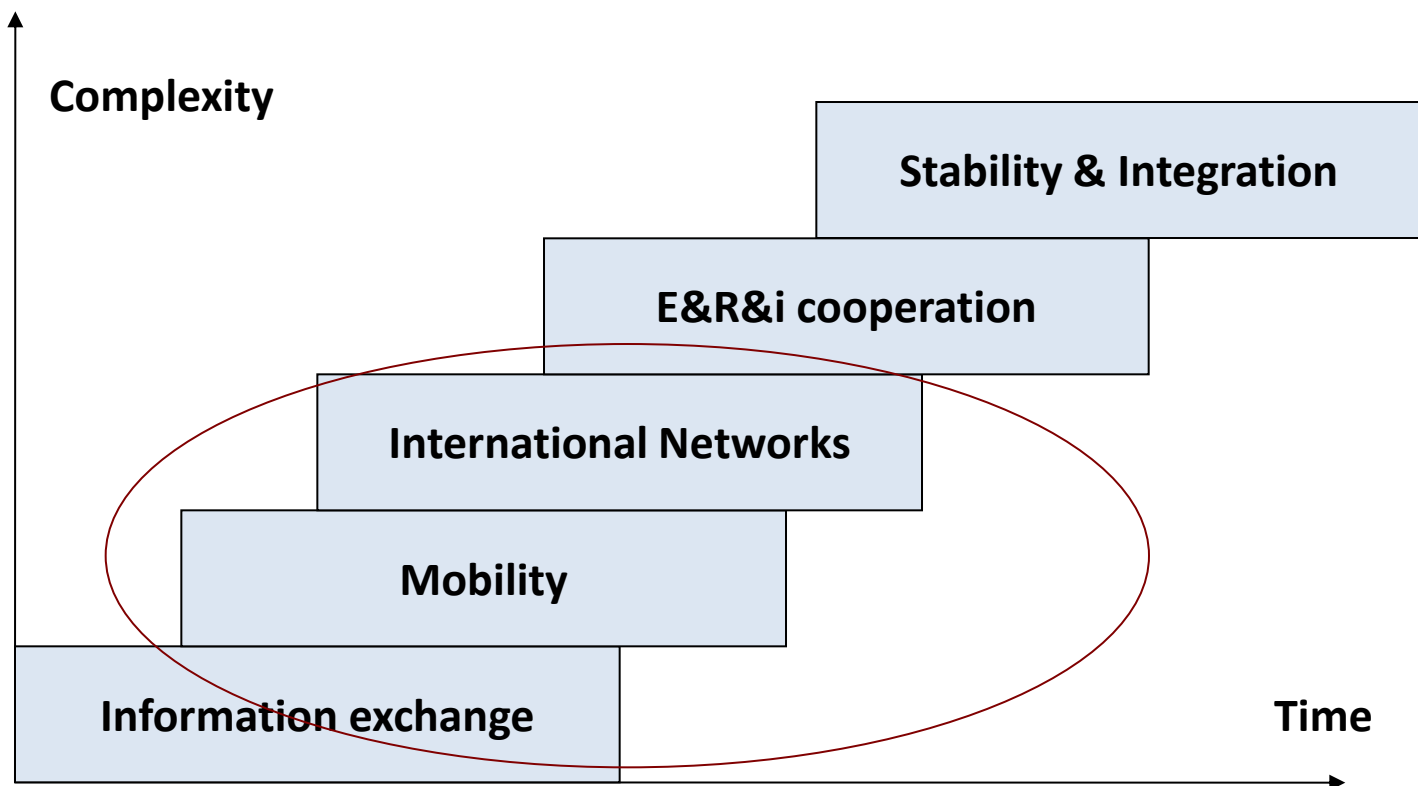
Spain (MEC)

France (Ministry of National Education/French Alternative Energies and Atomic Energy Commission), European Commission and Germany (as observer)

*EU-LAC Senior Officials Meeting
Brussels , April 16-17, 2013*

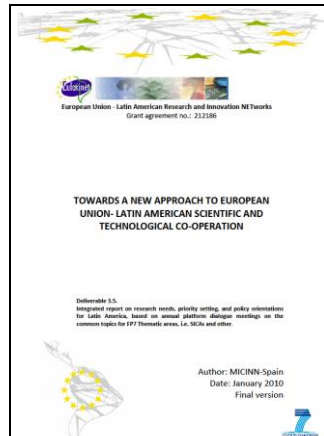
Former scenario

Lackness of a global vision



- Not only thematic topic definition
- Institutional compromise and priority
- Change of legal structures
- Adequate instruments
- Partnership

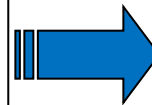
Moving on



Subregional Meetings 2009



Bi-regional Meeting 2010



S&T SOM

Buenos Aires, Argentina.
26/02/2010

- "White Paper" proposing a Joint Initiative for Research and Innovation (JIRI).
- Draft Roadmap

S&T Ministerial Forum

Madrid, Spain.
14/05/2010

- Adoption of JIRI
- Ministerial Recommendations: new S&T SOM before end 2010 to draw up the Roadmap.

EU-LAC Summit

Madrid, Spain.
18/05/2010

- Madrid Declaration
- Madrid Action Plan 2010-2012

S&T SOM

Brussels, Belgium.
28-29/03/2011

- Guidelines SOM
- JIRI Roadmap 2011-2012



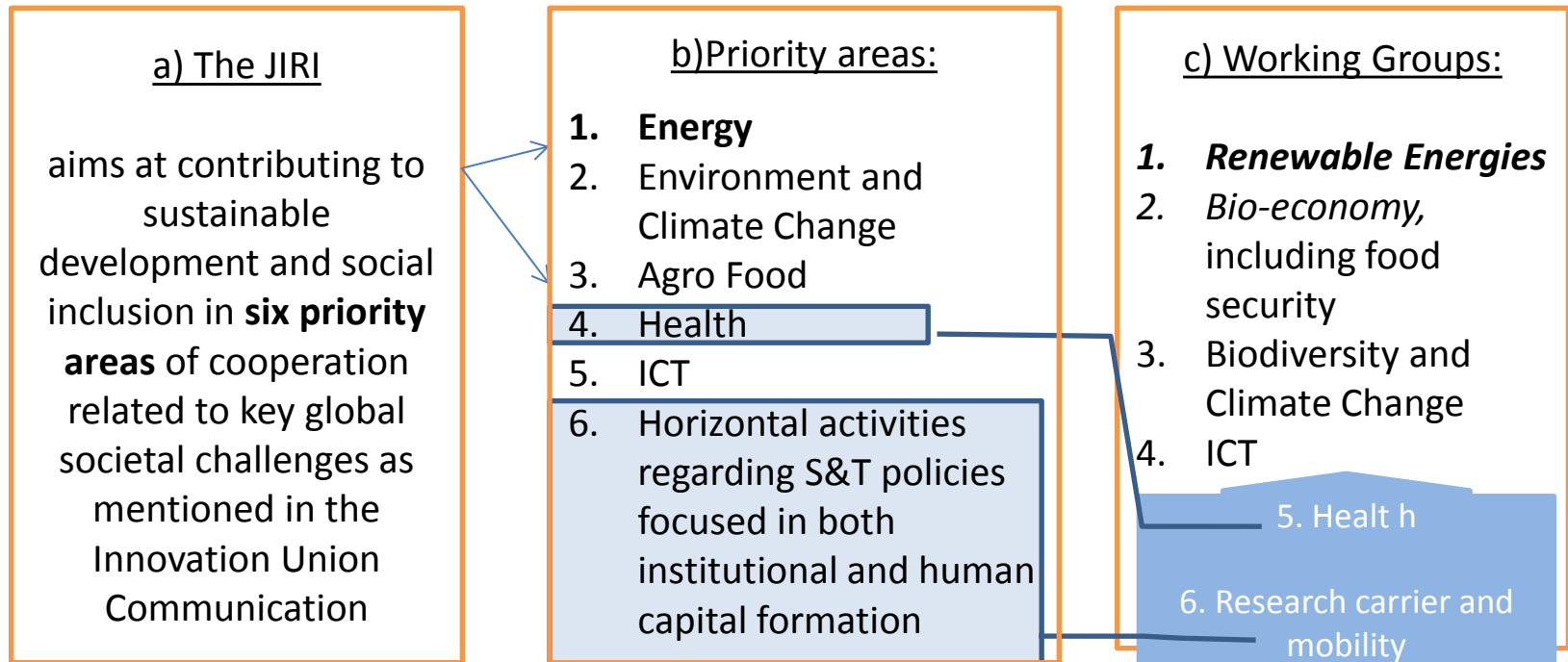
Working mechanism

EU-LAC Senior Officials Meeting (SOM) held in Brussels, March 2011

(a) the working mechanism & roadmap for **Joint Initiative for Research and Innovation (JIRI)**,

(b) specific areas for bi-regional pilot activities,

(c) four working groups were established to develop the pilots. *Now the proposal is extending it to 6*



Work Process

Objectives:

- Provide R&D background knowledge and strategic objectives in:
 - **bio energy,**
 - **solar–photovoltaic and thermal- energy**
 - **and wind energy.**
- Determine basic lines of **cooperation** between EU and LAC Institutions.
- Identify **research and innovation topics** for potential collaboration.
- Formulate **pilot activities** in renewable energies.
- Identification of funding instrument (s)

Key criteria:

- Establish a common energy framework (e. g. SETPLAN in Europe).
- Contribute to mobilize expertise and resources between EU and LAC countries and develop joint initiatives/programmes
- Promote an operative platform to implement joint initiatives in emerging technologies
- Foster cooperation and coordination among EU-LAC countries could impact on: smart regions development while assure a sustainable energy supply.

Work Process

EU-LAC stakeholders and experts from industry, academy and policy makers, European Commission and the EU-Technology platforms were identified, consulted and brought together for the identification of opportunities, possibilities for policy coordination, instruments for financing joint research, technology development and innovation activities

PHASE 1:

- a) Meetings for discussing the Background documents on EU-LAC joint priorities (Madrid, May 2011 and GENERA 2011)
- b) Series of videoconferences with EU-LAC experts on solar, photovoltaic, wind energies as well as bioenergy (documents in <http://www.eularinet.eu/site/events/language:eng>)

PHASE 2: Two workshops supported by the INCONet EULARINET focused in the definition of bi-regional pilot activities

- a) Rio de Janeiro, 31st August – 1st September 2011 (Wind Energy)
- b) Mexico, 21st -22nd September 2011 (Bio-energy and Solar Energy)

P1+P2 results:

- Basic lines of EU-LAC cooperation in bioenergy, solar energy and wind energy identified
- Working documents on EU-LAC joint priorities in the four areas were produced
- Subareas for potential collaboration and topics identified in line with the priorities of the SET Plan (UE Strategic Energy Technology Plan) and LAC

Research areas and subareas for potential collaboration:

BIOENERGY

- Biomass availability and supply
- Conversion processes
- Markets and regulatory framework
- Sustainability

SOLAR THERMAL

- Quality Assurance Procedures towards certified equipment, harmonization of equipment (and installers).
- Thermal energy storage mainly for distributed generation

WIND ENERGY

- Wind Resource Assessment and short term forecasting: computational tools
- Wind Turbines: technology for regional fabrication
- Removing barriers and promoting deployment.

PHOTOVOLTAIC

- Solar resources prediction and monitoring
- Quality Assurance Procedures
- Stand alone systems
- Advanced grid integration & large integration of PV in building areas
- Capacity building

Topics for potential collaboration

BIOENERGY

biomass availability and
conversion process as well as
sustainability of biomass.

SOLAR THERMAL

Development on components for
different existing experimental solar
plants, thermal storage, etc.

WIND ENERGY

wind resources
assessment, wind **turbines**
and **removing barriers**.

PHOTOVOLTAIC

Characterization of solar
components for concentration
systems, codes, standards and
regulations, grid impact of PV
systems, etc

Work- Process-Pilot activities

PHASE 3: The operation plan proposes three main lines for actions for implementing pilot activities

- 1. **Coordinated activities**, joint/coordinated calls and ‘twinning’.*
- 2. Actions to promote and support **networking and exchanges** between research organisations in on-going or planned projects, and for the establishment of thematic networks and strengthening capacity building and regulatory framework.*
- 3. The development of long term strategic proposals in order to better linking research and technological cooperation structures and nets as a first step towards what, in the medium or long term, could become LAC Technological Platforms on renewable energies.*

Formulation of **pilot activities** in the three lines for action in renewable energies

Line for action 1 Coordinated activities: Joint calls and project based proposals.

Activity	Work progress
<p>Joint calls:</p> <ul style="list-style-type: none"> • bioenergy (biomass availability and conversion process) w/KBBE WG; • solar – photovoltaic/thermal - and wind energy 	<p>Explore the ways to implement joint calls in biomass & conversion processes :</p> <p>a) CYTED - opening a pilot Public Private Partnership (PPP) scheme in the region based on a virtual common pot Initial talks on-going. (Roadmap b.2)</p> <p>b) Renew Energy EU CELAC ERANet call is planned by ERANET LAC proposal (if approved).</p> <p>Interest (and possible commitment) in bi- tri- or multilateral cooperation on identified areas/topics for mutual interest in solar energy, both photovoltaic and thermal, and wind energy areas to be expressed by EULAC representatives</p>
<p>Twinning /Further expansion of potential on-going national projects with focus on the research subareas identified</p>	<ul style="list-style-type: none"> • It is envisaged to advance on this through ALCUENet tasks • -Possible implementation through funding agencies like IADB as such or to include the activities as part of their initiatives - the size and complexity to reach the goals are 4 years.

Work Process: Moving forward

Line for action 2. Networking and exchanges *Actions to promote and support networking and exchanges between research organisations in on-going or planned projects*

Activity	Work progress
<p>Establishing thematic networks</p>	<p>The expert group bioenergy, solar and wind energies consulted and involved in several activities coordinated by diverse projects –EULARINET, ACCESS to MEXCYT, ALCUE-KBBE- has evolved into a network</p> <p>This network will be strengthened through the ALCUENet activities 2013-2014 and is expected to be linked to other regional thematic nets (Reembio, Mesoamerican nets, CYTED, BZ ES RE workshop. etc).</p> <ul style="list-style-type: none"> • Involvement of private sector as objective of EULARINET meeting linked to 6th International CSP Summit Seville 2012 can be attempted at CSP Today LATAM 2 1st LAT Summit of CSP 17-18 July Antofagasta, Chile • The bilateral workshop BR-ES on renewable energy for fostering PPP is planned in Rio de Janeiro 2-3 July is open to EU CELAC partners • October 2013 in Mexico a ALCUE-Net workshop focused in renewable energies will take place back to back with CYTED’s experts’ meeting to update/review the subareas identified by this WG considering also energy efficiency. <p>The products from these activities will provide inputs to the schemes under consideration for implementing joint calls in the areas identified for potential collaboration (bioenergy, solar and wind energies).</p>

Work Process: Moving forward

Line for action 2. Networking and exchanges *Actions to promote and support networking and exchanges between research organisations in on-going or planned projects*

Activity	Work progress
<p>Capacity building</p>	<p>Mobility programmes -EU-LAC research organizations, IRSES, Marie Curie and national programmes promoted seeking synergy with bilat-project activities (ej EU MEX Innova if approved)</p> <p>Opening of the research infrastructures (laboratories) with a view establish joint structures in the long-term and to keep an ‘open door’ policy, trying to reinforce EU and LAC researchers access to infrastructures (e.g. the ESFRI project EUSOLARIS) A coordinated n action for Promoting opening of infrastructures is included in ERANET LAC proposal (if approved).</p>
<p>Policy dialogue meetings and regulatory frameworks</p>	<p>A program of workshops on different policy and regulatory aspects, to promote common views and best practices on specific issues is included in the tasks of ALCUENet. The priority objective is to promote policy convergence between EU and LAC countries.</p>

Work Process: Moving forward

Line for action 3. Long-term strategic proposal . Establishment of EU CELAC Technological Platforms

Activity	Work progress
<p>Opening of each other's programmes.</p> <p>Establishment of EU CELAC Technological Platforms which could be linked to ETPs envisaged in the long-term strategic proposal.</p>	<p>The co-leaders of the WG are considering to invite other countries (Members of the WG initially) to evaluate their interest and capacities to join the actions.</p> <p>Contacts with organizations related to RE like OLADE and IRENA are included in the tasks of ALCUENet, towards developing synergies. (RoadMap d)</p>

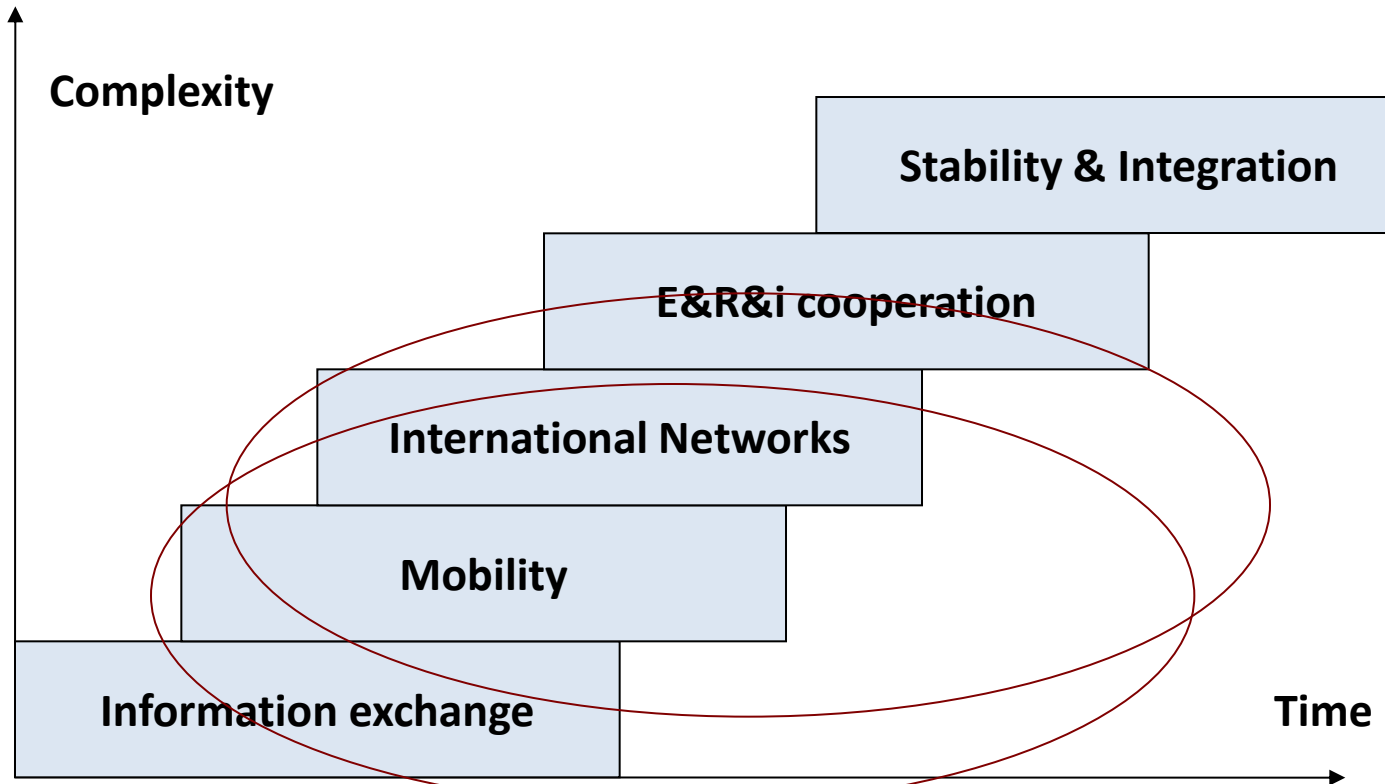
Moving forward

PHASE 4: Identification of funding instrument (s)

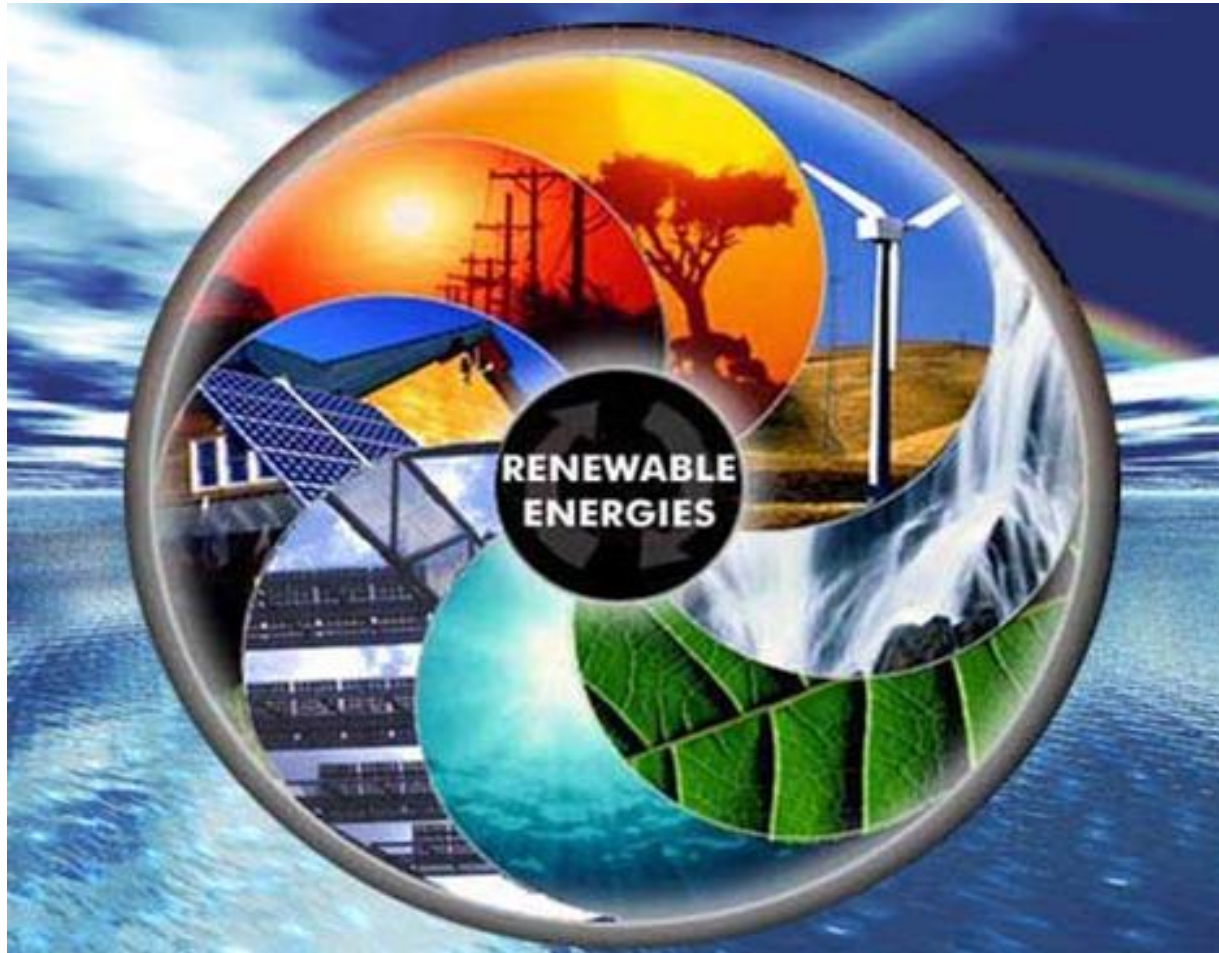
- Funding agencies were approached (BID, LAIF, AECID, FAI)
- Funding schemes in Mexico and Spain explored
- Meeting of senior representatives of research funding agencies of countries in the European Union, Latin American and Caribbean (November 2012) - aimed at mobilizing senior officials of EU and LAC funding agencies for the funding of actions and pilot activities under the *EU-LAC Joint Initiative for Research and Innovation ("JIRI")*
- CYTED as actual instrument outside EC funding. Possibilities for a pilot LAC call in the Energy area in talks with representatives.

Scenario II

Building a strategy for a global vision



- Moving from thematic topic definition to JIRI
- Institutional compromise and priorities, R& D into the agenda, SOM
- Change of legal structures
- Building on existing initiatives - CYTED
- Building new instruments- ERANET
- Partnership- Madrid & Santiago Action Plans



THANK YOU

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MÉXICO
PRESIDENCIA DE LA REPÚBLICA

