

IICA's Agriculture, Natural Resources and Climate Change Program



IICA



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Inter-American Institute for Cooperation on Agriculture

IICA's Mandate

IICA is specialized agency of the Inter-American System that **provides technical cooperation, innovation and specialized knowledge** to contribute to the competitive and sustainable development of agriculture in the Americas and to improve the lives of rural dwellers in the member countries.



IICA's Strategic Objectives and Priority Activities

As the leading agency for agriculture in the hemisphere, IICA offers **technical cooperation** so that our 34 member countries can overcome challenges and take advantage of the opportunities to achieve the following strategic objectives:

*Improve the
**productivity and
competiveness** of
the agricultural
sector*

*Strengthen
agriculture's
contribution to the
**development of
territories and to
rural well-being***

*Improve the
**adaptation of
agriculture to
climate change, and
the use of natural
resources***

*Improve agriculture's
contribution to
food security*

New Medium Term Plan 2014-2018

Externally Funded Projects

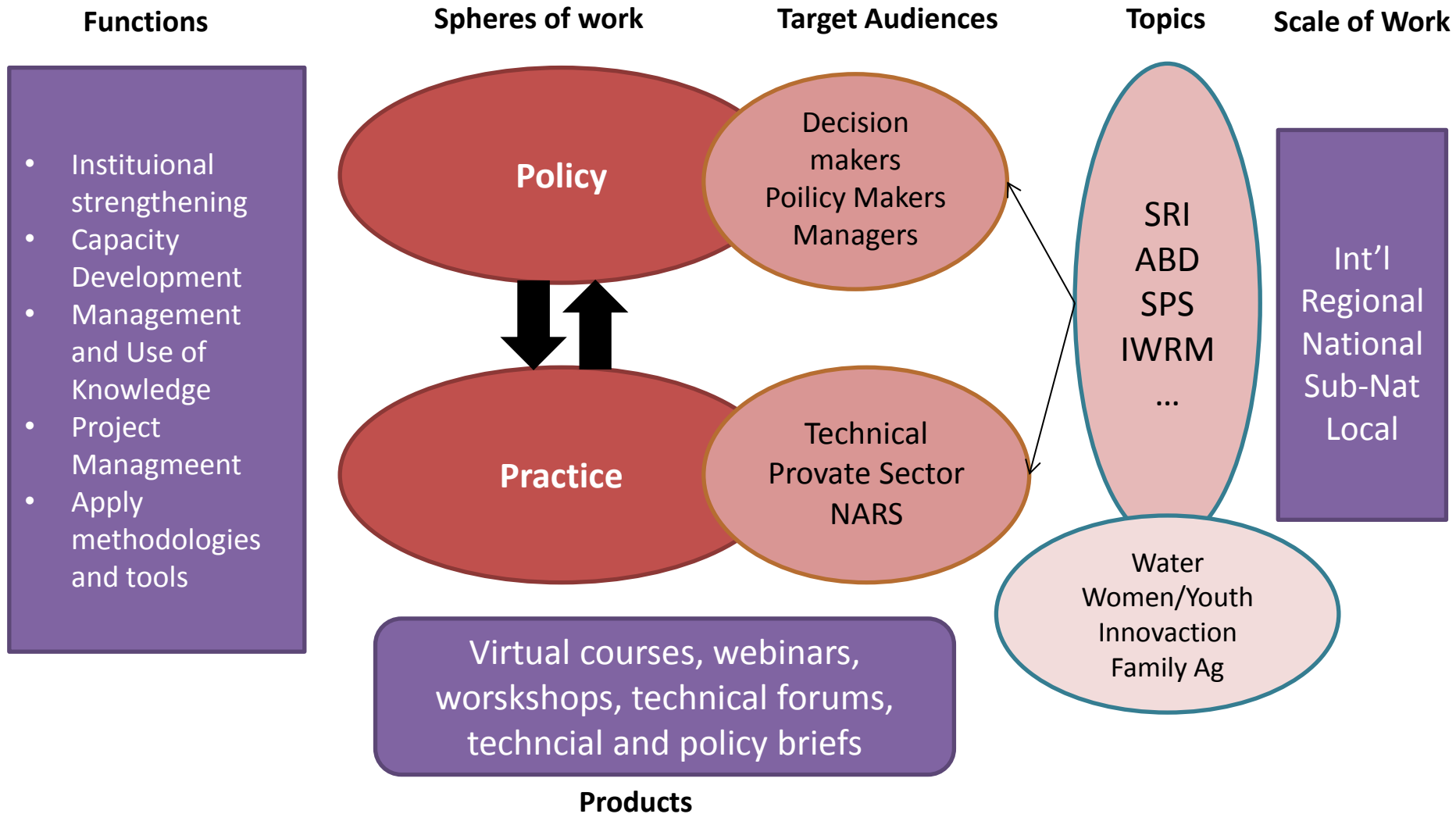
Rapid Response Projects

Technical Cooperation Fund

4 Flagship Projects

- Competitiveness and Sustainability of Value Chains
- **Resilience and Integrated Management of Risks to Production**
 - Integrated NRM under a Changing Climate
 - Risk management for extreme events
 - Prevention and Management of SFS Risks
- Productivity and Sustainability in Family Agriculture
- Inclusion in Agriculture and Rural Territories

PARNCC Role: Ensure that the agricultural sector is capable of addressing climate change and managing natural resources in a sustainable and inclusive manner that contributes to productivity, food security, and rural development.



Mountains in LAC

Mountains in almost every country in the region

Millions of people are dependent on mountain ecosystems and ecosystem services (85 million in the Andes)

Critical for water management





www.journeylatinamerica.co.uk



www.techoserve.org



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jangoux.photoshelter.com



practicalaction.org

Over 60 million smallholder farmers in the region contributing 40% of production

Many of the poorest and most vulnerable are farming in mountain ecosystems.



EUROCLIMA Phase 2 -

Comp.3 Sustainable Agriculture, food security and climate change

3.a Strengthen the agricultural sector's capacity to mitigate the effects of and adapt to climate change

Start Date: *January 2014* **Duration:** *3 years*

Beneficiarios: *18 countries in Latin America*
36 focal points (MoE + MAG)



General Objective: *Facilitate the integration of **climate change adaptation and mitigation measures into public policies and development plans** at the national, subregional and regional levels in Latin America.*

Specific Objective: *Contribute to food security through the strengthening of the capacity of key actors to adapt the agricultural sector to climate change and mitigate its effects*



RESEARCH PROGRAM ON
**Climate Change,
Agriculture and
Food Security**



CATIE
Solutions for environment and development
Soluciones para el ambiente y desarrollo



EUROCLIMA – Methodology and Focal Areas

Modelling studies of climate change impacts

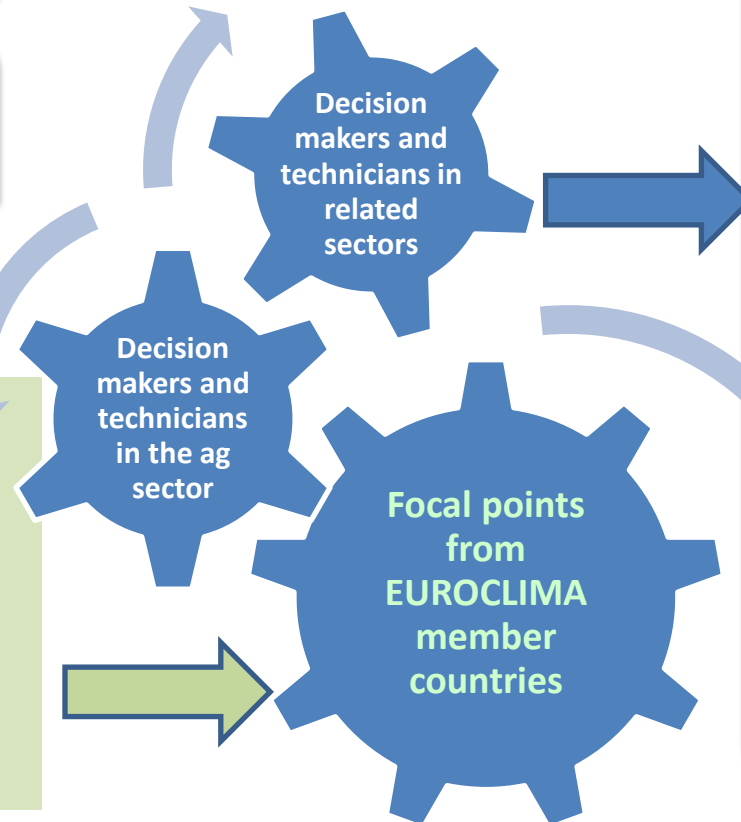
Good practices for both mitigation and adaptation in the agricultural sector

Dissemination and exchange of experiences and knowledge

- Levantamiento y sistematización de información
- 3 regional workshops
- 4 virtual courses
- Administration and Management of a Technical Platform

Expected results for participating countries:

- **Validated adaptation and mitigation measures validated** based on climate change scenarios, and relevant biophysical and socio-economic conditions.
- Strengthened technical capacity of knowledge and **implementation of good practices and appropriate technological innovations**
- **Utilize** an interactive database on agriculture, food security and climate change and **exchange information with other institutions**



Capacity Development Activities

Training of Trainers Courses *“Inegrating Climate Change Adaptation into Development Planning”*



Strengthening Capacities to Develop NAMAs



Knowledge Management Activities

13 de Junio, 2013 Main Page Español Login

Agriculture Natural Resources Climate Change
IICA InfoAgro.net

Start Page Digital Library Projects Climate Change Reference Frameworks Links of Interest

THEMATIC AREAS

- Adaptation of agriculture to climate change
- Mitigation of greenhouse gases in agriculture
- Agriculture and Natural Resources

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NEWS

- Brazil reports sharp drop in greenhouse emissions
- Reducing the carbon footprint in foreign trade will be discussed at the ECLAC 12345678910...

EVENTS

- Curso Modular Intensivo "Domesticación, Manejo y Conservación in situ de Recursos Genéticos"
- EFITA2013 Conference: "Sustainable agriculture through ICT innovation" 12345

Agriculture and Natural Resources

The objective of the Program for the Cross-cutting Coordination of Agriculture.


Infoagro.net

- Tools, case studies and reference documents, organized by theme
- Regional mapping of institutional frameworks related to climate change
- Geo-referencing of projects

Organization and systematization of technical Forums and case studies; dissemination of countries' experiences



Cooperation Projects to Strengthen Technical Capacities

 **Bioversity International**

Los recursos fitogenéticos de Mesoamérica como herramienta clave para la adaptación al cambio climático

Formulación científica y participativa de un Plan de Acción Estratégico (PAE) para Fortalecer la Conservación y el Uso de los Recursos Fitogenéticos de Mesoamérica, como Alternativa de Adaptación al Cambio Climático

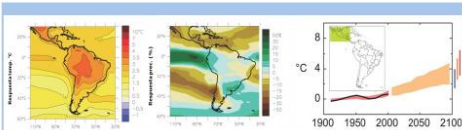
Que es el PAE para los recursos fitogenéticos de Mesoamérica?

El PAE es un plan a diez años para potenciar los recursos fitogenéticos nativos de Mesoamérica, como elemento estratégico regional para la adaptación al cambio climático. El Plan se concentra en 10 cultivos mesoamericanos importantes para la seguridad alimentaria local y mundial, con potencial para generar ingresos (ver Recuadro 1). El Plan se construirá mediante la sistematización de información existente, una consulta amplia con representantes de los actores mesoamericanos relevantes y la identificación de un conjunto clave de actividades a realizarse en la próxima década.

Por qué un Plan para Mesoamérica?

Mesoamérica, la región que comprende el sur de México y los siete países de América Central, es una de las áreas más afectadas por el cambio climático en el mundo y será una de las más afectadas por el cambio climático en los próximos años, según los pronósticos del Grupo Intergubernamental de Expertos sobre el Cambio Climático (IPCC) (ver Figura 1). La región es frágil económica y socialmente dada su alta dependencia de la agricultura y sobre explotación de recursos naturales, pero rica en diversidad genética de cultivos importantes, con lo cual podrá contrarrestar los efectos que el cambio climático ejerza en su producción agrícola y en la seguridad alimentaria de su población.

Adaptar los actuales sistemas agrícolas de Mesoamérica al cambio climático es posible si se aprovecha mejor la riqueza de sus recursos fitogenéticos para alimentación y agricultura (RFGAA; ver Recuadro 2). Esto a su vez requiere conocer la distribución y disponibilidad *in situ* y *ex situ* de los RFGAA con mayor potencial de adaptación al cambio climático, e identificar las características más adecuadas para responder a los cambios anticipados.



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Project of the International Treaty on Plant Genetic Resources for Food and Agriculture, Bioversity International, and REMERFI member countries:

Participatory and scientific formulation of a **Strategic Action Plan (SAP)** to strengthen the conservation and use of plant genetic resources of Mesoamerica, as a tool for climate change adaptation.



Diagnostic of the Conservation and Use of Plant Genetic Resources in Mesoamerica (Phase 1: Panamá, Costa Rica, Nicaragua)

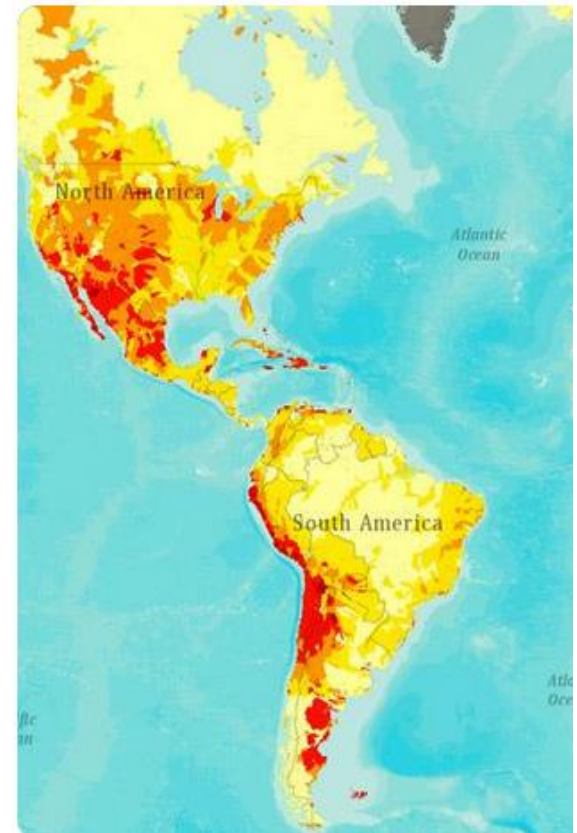
Identify, systematize and document the occurrence, distribution and state of conservation (*in situ* and *ex situ*) of Mesoamerican agrobiodiversity

Water Risks for the Agricultural Sector

Provide MAGs and other relevant actors with information about current and projected water stress for the agricultural sector to inform national climate change adaptation plans

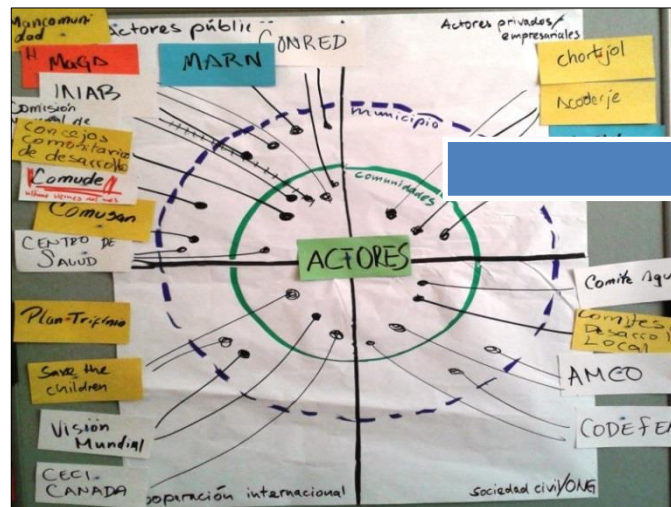
(maps, technical notes, trainings)

<http://www.wri.org/our-work/project/aqueduct>



TRIFINIO: Local CC Adaptation Strategies

- ❖ Elaborate local climate change adaptation strategies at the municipal level
- ❖ Strengthen existing networks and incorporate priority sectors
 - ❖ Coffee, livestock, basic grains, water



System of Rice Intensification (SRI)

- Principles that help address the challenges of climate change (adaptation and mitigation) and that promote efficient use of natural resources
- Applicable for other crops (wheat, corn, sugar cane, etc)
- Partnering with SRI-Rice of Cornell Uni.
 - Promote the piloting, demonstration and adaptation of SRI to LAC

“A new opportunity to improve and diversify food production in Latin America”



In Summary....

IICA's technical cooperation related to climate change and NRM consists of:

- Tangible, practical and appropriate products
- Access to relevant information
- Training and Institutional Strengthening
- Supporting processes, strategies and policies
- Facilitating inter-sectoral and inter-ministerial synergies
- Catalyzing cooperation at the regional level



Thank you!

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<http://infoagro.net/programas/Ambiente/default.aspx>