

United Nations Framework Convention on Climate Change

Side event

"What are the technology needs of developing countries?
An update on technology needs assessments"

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TNA in Argentina

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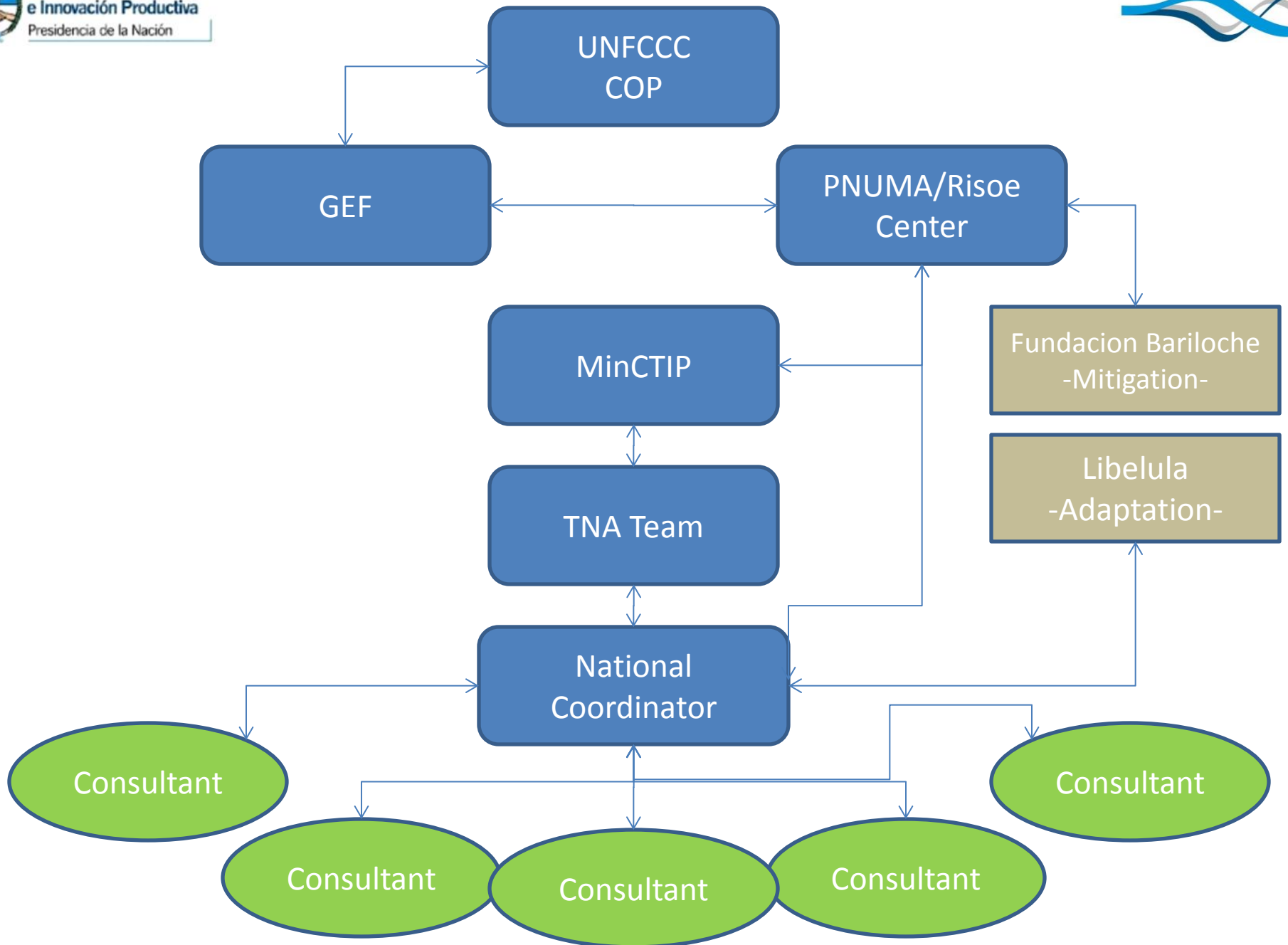
TNA National Coordinator

Main objectives of the project

- Identification and assessment of technology needs for mitigation of and adaptation to climate change
- Analysis of barriers and proposal of measures that could lead to facilitate the implementation of the technologies identify

Specific objectives

- Identify and assess technologies to address climate change suitable to be introduced in the Argentinean production system (transfer from abroad or local development)
- Identify the barriers that hinder the development or implementation of technologies
- Identify and propose measures to overcome barriers
- Prepare a Technology Plan of Action that pursues the implementation of measures and eventually technologies



Institutional arrangement

- TNA Team: representatives from national ministries and agencies, scientific and technological institutions
 - Definition of priority sectors and specific subsectors
 - Review of the preliminary and final reports from consultants
- TNA National Coordinator
 - Liason and coordination between MinCTIP, TNA Team, UNEP/Risoe Center, consultants

Prioritizing sectors and technologies

- Criteria for:
 - Optimize resources available for TNA
 - Assure the usefulness of the results

Criteria for prioritizing sectors and technology clusters

- Cross-cut two or more sectors
- Potential linkages with existing plans and programs
- Potential synergies between mitigation and adaptation
- Emissions reduction potential
- Potential for the local development of technologies
- Potential for co-benefits
- Areas of vacancy in relation to available information and financial resources
- Resources available for the TNA project

Prioritized sectors

- Based on:
 - the criteria established
 - the outcomes of the workshops with external experts and the TNA Team and
 - the internal discussions within the TNA Team,
 - the following sectors were prioritized:
- Energy and industry
- Transport, agriculture and waste
- Waste and energy
- Agriculture
- Observation of climatic and hydrological variables

Prioritized technology clusters

- Cogeneration of heat and power for the small and medium size industries
- Multimodal transport system for agricultural products
- Waste to energy technologies for urban and agro-industrial waste
- New fertilizers and application technologies for optimization of Nitrogen use in agriculture
- Technologies for observation and measurement of climatic and hydrological variables

Elements of studies

- Overview of the state of the art at the global level
- Overview of the current situation of the sector at the national level
- Identification of existing and underdevelopment technologies for their implementation at the local level
- Assessment of the mitigation potential of the technologies and their possible contribution to adaptation
- Identification and analysis of technical, institutional, social and environmental barriers
- Market analysis and mapping of actors
- Multicriteria analysis of the technologies
- Analysis of the results
- Recommendations to establish an enabling environment for the development/ transfer and implementation of technologies

Multicriteria Analysis

- Most important piece of analysis and information for policy makers
- All dimensions of sustainability analyzed in an integrated fashion
- Criteria for assessment were chosen for technical, economic, social and environmental aspects
- All technologies identified were analyzed under the same criteria
- Criteria values (quantitative and qualitative) were normalized for aggregation
- Multicriteria matrices were created for each cluster of technologies

Results of the MCA

When all dimensions of sustainability were integrated:

- Decentralized energy technologies were pondered higher than concentrated technologies (e.g. small scale- cogeneration)
- Minimized use of fertilizers and maximized rotation in the use of soil
- Integration of different transport modes

Main problems and lessons learned

- Lack of a clear and successful ending of the process!!!! i.e. implementation of actions
 - Difficulties to attract the attention of authorities as well as other stakeholders
- Importance of linking with other process oriented to the implementation of actions
NAMAs NAPs, etc.

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