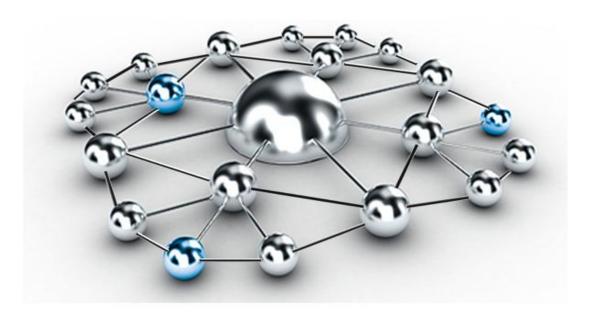






Responses to New Agricultural Challenges



Leticia Deschamps, June 2011



Outline



- 1. Global Changes and Challenges
- 2. Approaches: National Agricultural Innovation Systems
- 3. Innovation Management Network for the Agrifood Sector





Global Changes in Agri-food Sector

- Internationalization and Globalization
- Market as the primary incentive for change
- Climate change
- Growing concerns about food security
- Increased private sector participation
- Growth and Diffusion of ICTs
- Changes in the learning structure





Global Challenges in Agri-food Sector

- Increase in poverty
- Climate change
- Food Security
- Diminishing productivity
- Deceleration of investment
- Growth in knowledge gap
- New Investment priorities (diminishing investments for productivity enhancement)
- Limited R&D Manpower and Growth
- Long lags between investment and results
- Stronger international cooperation





Approaches to Innovation



Concepts	Approach	Players	Main Mechanism	Resources
National Agricultural Research Systems (NARS)	Technology Generation and technology transfers	Research Centers and Universities	Result Transfers	Infrastructure and human resources
Agricultural Knowledge and Information Systems (AKIS)	Knowledge and Technology Dissemination	Research Centers, Universities, extension services, NGOs	Knowledge Exchange	The Media
National Agricultural Innovation Systems (NAIS)	Technological and Institutional Innovation	Economic actors that generate and use knowledge	Interaction among the users	Interaction Platforms

Willem Janssen, World Bank





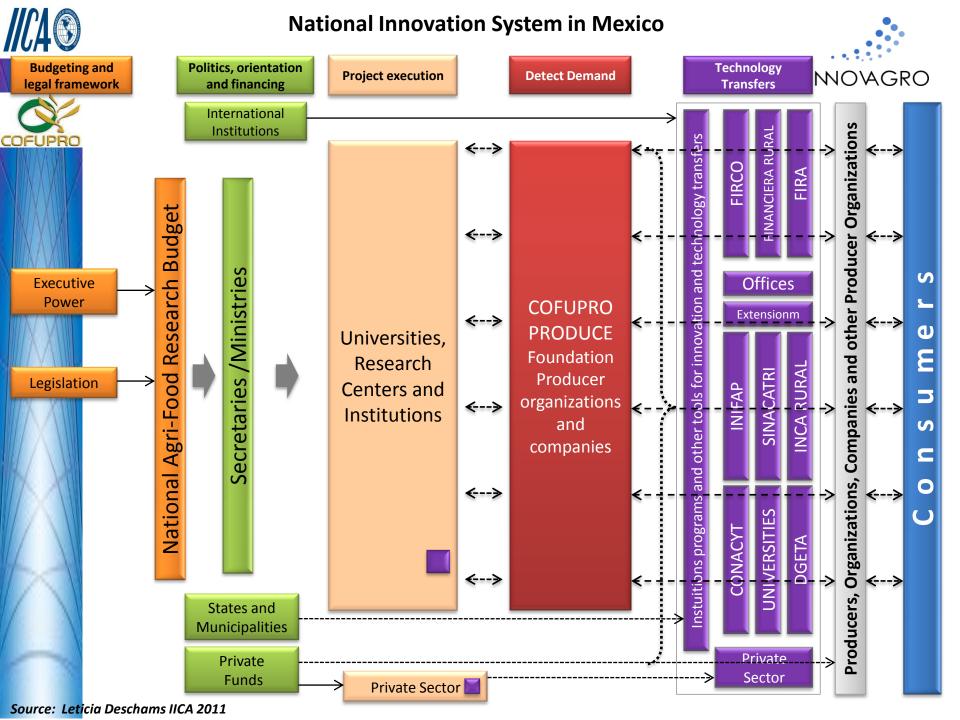
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Innovation systems can be defined as the set of actors, interactions and policies for the creation and dissemination of technologies and innovations that improve productivity, competitiveness, sustainability and equity in the agri-food sector

IICA 2011







How National Innovation System respond to new challenges?

- Aims to reduce poverty, decrease hunger and improve overall human health and nutrition
- Leads to environmental sustainability
- Involves changes in methods and practices
- Leads to improved yields in crop production
- Generates mechanisms to improve institutional cooperation





Innovation Managment Network for the Agrifood Sector



IICA's Role on Innovation



Mission

• IICA is the institution 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.





COFUPRO

COFUPRO (The National Coordinator for Produce Foundations)

Is a non gobernamental organization coordinating 32 institutions (one per state) working with public and private institutions nationally and internationally.

Created as a response to common needs and individual limitations in support of technological innovation.

The innovation management network was created to meet the expectations placed on IICA by COFUPRO

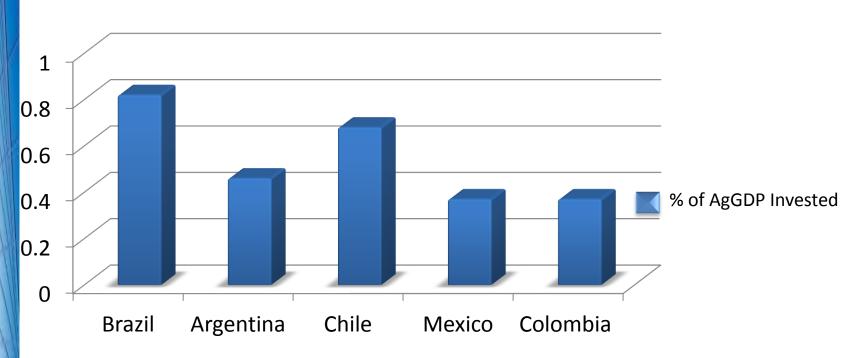




Agri-Food R& D + I in Latin America

% of AgGDP Invested

2004-2005



Source: IFPRI-ASTI 2004-2005





Innovation Management Network for the Agri-food Sector

It is therefore necessary for countries to participate in joint programs, which foster collaboration

- Impacts in food production
- Yields new products, services, methodologies and processes.
- Generates several opportunities towards development in:
 - Productivity
 - competitiveness
 - Sustanability
 - Equity







It was created to:

- Encourage communication between Countries
- Maximize the use of whatever limited resources might be available
- Focus on developing research, technology transferal and innovation management on the Agri-Food Sector.





Network Members































Types of Institution



Types of Institutions	#
Innovation and Research Institutions	9
Higher Education Institutions	7
Foundations	7
Public Sector	8
International Organizations	1
National Systems	1
Financial Institutions	1

Institutions: 34 Countries: 12 Argentina **Bolivia** Brazil Chile Colombia Costa Rica El Salvador Spain Guatemala México Nicaragua Dominican Republic



Network: Main Goals



Empowerment of all innovation management processes in the agrifood sector.

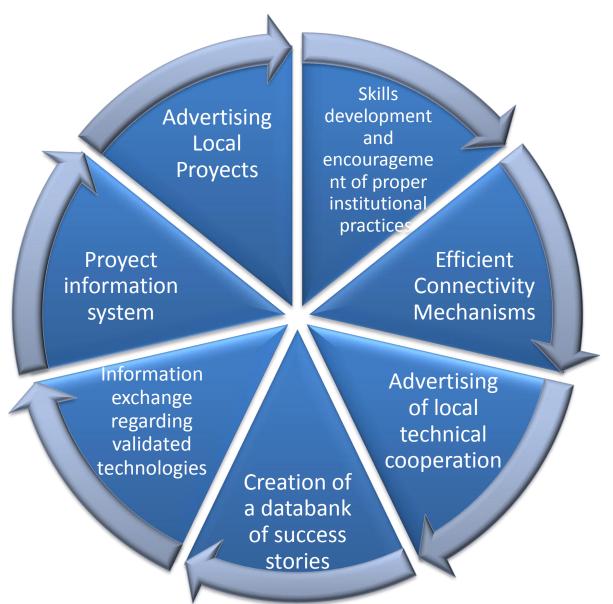
Exchange of knowledge, information, technical cooperation and expertise.



COFUPRO

Key Elements









International Seminar for Innovation Management INVOAGRO in the Agrifood Sector

- International Seminar on the 26th and 27th of May
- The seminar was broadcasted via web
- This is part of an interactive process
- Viewers could participate with questions and comments





Conclusions



Agricultural Knowledge and Innovation Systems are a reaction to changes in the global context. AKIS are different between countries and regions. They are in a transition phase to emphasize the processes needed to make knowledge useful and applicable.

The challenges in the agri-food sector show us very clearly that innovation and AKIS are key in generating value and wealth.

Investment priorities will have to change in order to face these challenges. Private and public institutions must work together.

Cooperation between different agents involved in innovation systems is essential to overcome the current challenges, hence, working in nets should be increased. These agents are: higher education institutions; research centers, producers, institutions specialized in technology transfer, etc.

INNOVAGRO's, Innovation Management Network for the Agrifood Sector seeks

- to transcend borders and continents
- to collaborate internationally





"If we sow innovation today, we can surely reap prosperity tomorrow"

Víctor Villalobos A.
Director General del IICA