



FOOD SECURITY AND TECHNICAL INNOVATION IN LATIN AMERICA

Edwin Price, Director

Norman Borlaug Institute for International Agriculture

Texas A&M University





Power of Farm Level Innovation

- Technical innovation ignited the Green Revolution.
- Macro policies and national programs were driven by farm–level technology.
- Food security should include emphasis on for innovation in the production sector.
- What are the prospects for technological breakthroughs in Latin America?





National research and production programs supported by IICA and CGIAR research centers.

- International Potato Center
 - High yielding, disease resistant cultivars
- International Center for Tropical Agriculture
 - High yielding , disease resistant cassava
- International Center for Maize and Wheat Improvement
 - Quality Protein Maize
 - Disease resistant wheat
 - Conservation agriculture
- IICA: Technical leadership and Knowledge Management





Collaborative Research Support Programs (LA Institutions and US Universities)

- Improved peanut cultivars and aflatoxin remediation.
- White sorghum grain for human consumption.
- Land and water rights and governance.
- Improved dairy practices.
- Disease resistant animal breeds.





Impediments to Technical Innovation

- Weak infrastructure.
- Weak protection of intellectual property.
- Weak technology transfer.
- Fragmented micro environments.
- Little regional integration/cooperation.
- Land and water access.
- Comparative disadvantage in staple foods.
- Infrequent national production programs.





Key elements of Technical Innovation for Food Security Plan

- Education and training.
- Regional cooperative research.
- National/Regional production programs.





Thank You.

