

# Role of Fast Growing Economy Countries Role in Global ARD

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A report  
from  
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and  
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# Outline

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- **Fast Growing Economies:**
  - Experiences in food production and agricultural development
  - Lessons learned in developing agricultural research
  - Contributions to ARD
- **Needs of Global ARD**
- **Role of Fast Growing Economies in Global ARD**
- **The Way Forward**
- **Key Messages at the Workshop**
- **Suggestions**

# Fast Growing Economy (FGE) Countries

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- **FGE Countries (annual GDP > 6 per cent over a period of last 5 years) with large National Agricultural Research Capacities e.g.:**
  - Brazil
  - China
  - India
- **Every FGE country has shown remarkable increase in food production and productivity**

# FGE Experiences in Food Production and Agricultural Development

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**Agricultural development has contributed not only to reducing hunger and alleviating rural poverty but also to overall economic and social development through:**

- cushioning economy and reducing food inflation**
- generating economic surplus and foreign exchange through export**
- providing economic and social stability**

# FGE Experiences in Food Production and Agricultural Development

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- **Now major exporters of food**
- **Have vast stores of agricultural knowledge and can contribute very significantly to generate agricultural knowledge, skills and technology**
- **Brazil, India and China emerging, among several other countries, as leading scientific and technical information in agricultural and environmental sciences generators**

# FGE Experiences in Food Production and Agricultural Development

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## **Agricultural development in FGE countries given:**

- Political recognition and support through policies,**
- Institutional and infrastructural, including markets, roads and communications development**
- Support for application of science and technology through agricultural research and innovation and delivery systems for new technologies**

# FGE Experiences in Food Production and Agricultural Development

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**Application of science and technology occurred not only through indigenous capabilities but also through collaboration and partnerships with foreign partners who contributed to:**

- Developing scientific institutions and infrastructure**
- Developing human capacities through training and education locally or in partnering country**
- Providing expertise**
- Financial support**
- Joint Research, extension and education projects and programs**

# FGE Experiences in Food Production and Agricultural Development

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- **FGE has gone through various stages of ARD Systems and Institutions development**
  - **Adopting**
  - **Adapting**
  - **Reengineering and restructuring**
  - **Inventing new approaches**

# FGE Experiences in Food Production and Agricultural Development

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- **They have a dichotomy in their agriculture and which also parallels their research systems.**
- **Agricultural research for resource rich farmers as good as the best in the developing world**
- **Still struggling with applying science and technology for the resource poor smallholder**

# Current FGE Role in Global ARD

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- **Current Contributions through**
  - **Bilateral, multi-lateral and global collaboration**
  - **Partnerships of various types, around several themes, including capacity development, and commodities and with differing intensities in engagement**
  - **Several new and innovative models and approaches in collaboration and partnerships are being developed and implemented**
  - **All countries stressed the need for even more increased collaboration and partnerships in ARD to meet their own national needs and emerging challenges as also contribute together to regional and global challenges**

# FGE Role in Global ARD

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- **Want to contribute not only to commodity and thematic research and innovations but also to:**
  - **Advocacy for agricultural development and application of science and technology for it**
  - **Reform and restructuring of research and innovation systems, education and extension systems and their management**
  - **Agricultural and ARD related information and knowledge management**
  - **Supporting market participation through research and innovation**

# The Regions' Perspective

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- **Complexity and asymmetries in all regions and between regions are key common themes and they are a cause of perplexity and limiting collaborative action in ARD in all regions.**
- **However there are commonalities among the needs such as in Institutional issues related to agricultural development and application of science and technology, managing research and innovation systems, capacity development and access to new information at various levels**

# The Regions' Perspective

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- **Despite all limitations and difficulties, networks have contributed significantly to mobilize capacities, to harmonize activities and to map limitations, risks and opportunities as also share information within the regions;**
- **There are many cases of success, productive interactions and cooperation within and between regions, but these are not well known, well mapped, documented and disseminated**

# The Regions' Perspective

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- **The challenge is how to take advantage of asymmetries to amplify access to capacities from countries and organizations that are better positioned within each region?**
- **To access, describe and use success cases as references and examples of what can be done would be a very productive way to disseminate and to promote best practices and successful strategies leading to better and more effective collaborations within and between regions.**

# The Way Forward

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- **Need for an initiative to create an group of FGE countries that have substantial investment, human capital and experiences in agricultural research such as Brazil, China and India so that they can participate together and jointly in global dialogues and decision making related to agricultural research for development**

# The Way Forward

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**Fast Growing Economies National Agricultural Research Systems (NARS) have an important role also in strengthening regional forums**

# The Way Forward

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- **FGE's also felt that the focus of their collaboration and partnerships in agricultural research should not be only their financial or funding contributions to agricultural research especially to international research organizations.**
- **The main focus should be on sharing and exchanging information, experiences, knowledge, skills and technology globally.**

# The Way Forward

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## **Partnerships and Collaboration around:**

- **Advocacy, sensitization and awareness building on the contribution agricultural research has for agricultural development and overall economic, social, environmental and technological development in developing countries**
- **Institutions and Systems development for agricultural research and innovation, education and extension**

# The Way Forward

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- **Sharing data, information, knowledge, skills and technology related to agricultural development, research and innovation**
- **Improving the architecture and governance of global agricultural research for development systems and the flow of information and technology globally.**
- **Contribute to the development of global programs of collaboration and partnerships such as the new Mega-programs of the reformed CGIAR**

# Key Messages

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**For a rapidly emerging, more knowledge intensive agriculture, a new knowledge revolution in agriculture and its development is needed.**

**This translates into change / reform / restructuring / reengineering agricultural research and innovation systems for development.**

# Key Messages

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**In an ever increasing inter-connected world, no one can meet their agricultural challenges alone and in isolation.**

**Cooperation, collaboration and partnership among all are a must.**

# Key Messages

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- **FGE's want to play a more active role in ARD globally and want:**
  - **contributions driven by shared interests and needs and not rhetoric**
  - **contributions judged not by their funding of international research organizations but the value they generate in sharing experiences, information, knowledge, skills and technology**
  - **change in systems, institutions, structures and processes of collaboration and partnerships so that their efforts have development impact**

# Suggestions for action

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- **To make full use of global platforms such as of GFAR to enable Fast Growing Economies play a now due and greater role in global ARD. GFAR may invite the large NARS of fast growing economies a direct participation in its governance and activities.**
- **The fast growing economies should be actively engaged in the development of databases, information systems and platforms initiated and/or organized by GFAR to improve information-sharing for global and common good of ARD stakeholders and partners**

# Suggestions for action

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- **GFAR should support and provide avenues for the fast growing economies to enhance their role in regional ARD networks and cooperation.**
- **Strengthen cooperation in areas of global common concerns, such as climate change, food safety, water resources utilization, trans-boundary disease, managing biodiversity, control of invasive species, agricultural products trade etc,.**

# Suggestions for action

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- **Reinforce coordination, through appropriate programs such as on genomic studies, among the fast growing economies, especially in the field of agriculture research as well as in policy-making of agricultural science and technology.**
- **GFAR should set up a Task Force for providing information, including historical, on the evolution and development of agricultural research, education and extension systems so that the information, experience, knowledge and skills acquired in fast growing economies in restructuring of ARD systems can be available to other NARS.**

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Thank you