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The U.S. Government's Global Hunger & Food Security Initiative

USAID Feed the Future Asia Innovative Farmers Project



Photo credit: Bona Sam and Maksudur Rahman



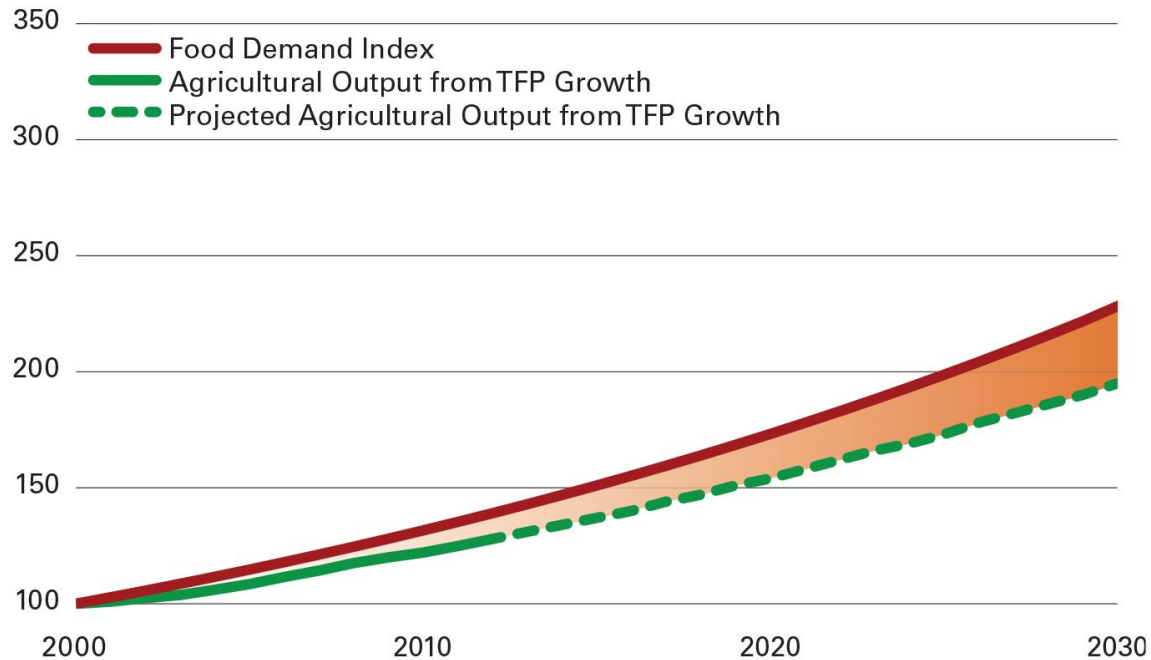
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74% of total South and Southeast Asia demand can be met by maintaining the current TFP growth rate.

Source: Food Demand Index is from Global Harvest Initiative (GHI 2015);
Agricultural Output from TFP Growth is from Economic Research Service (2015).



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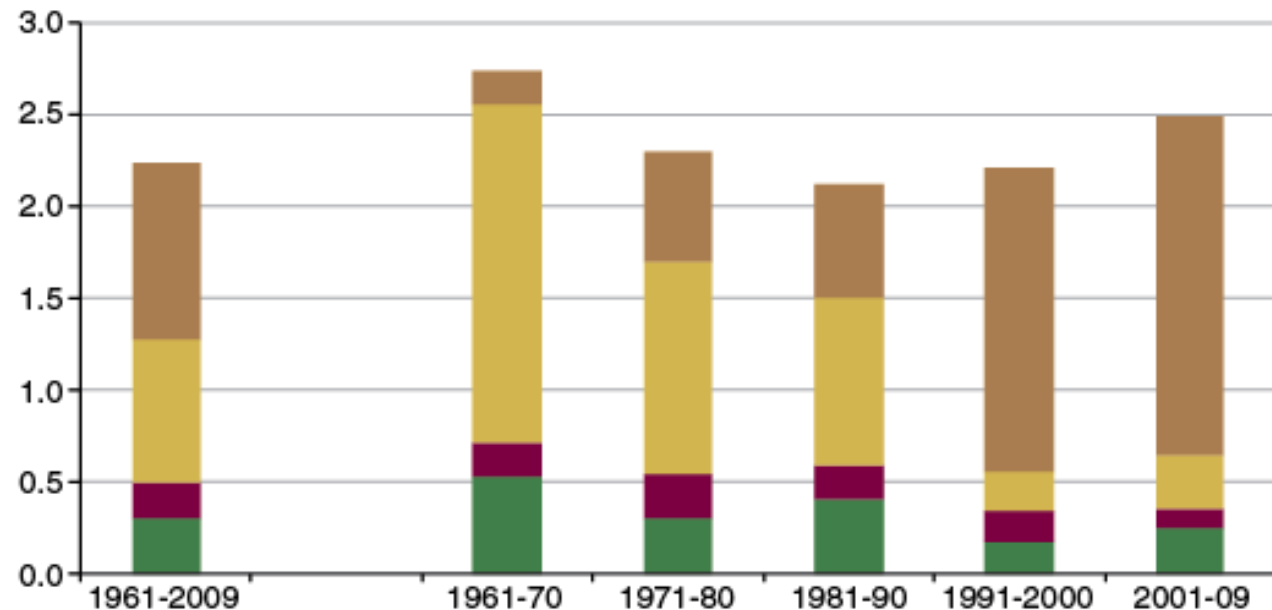


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Total factor productivity has replaced resource expansion and input intensification as the primary source of growth in world agriculture

Rate of output growth (percent per year)



Sources of output growth:

■ Total factor productivity ■ Input intensification ■ Irrigation ■ Area expansion



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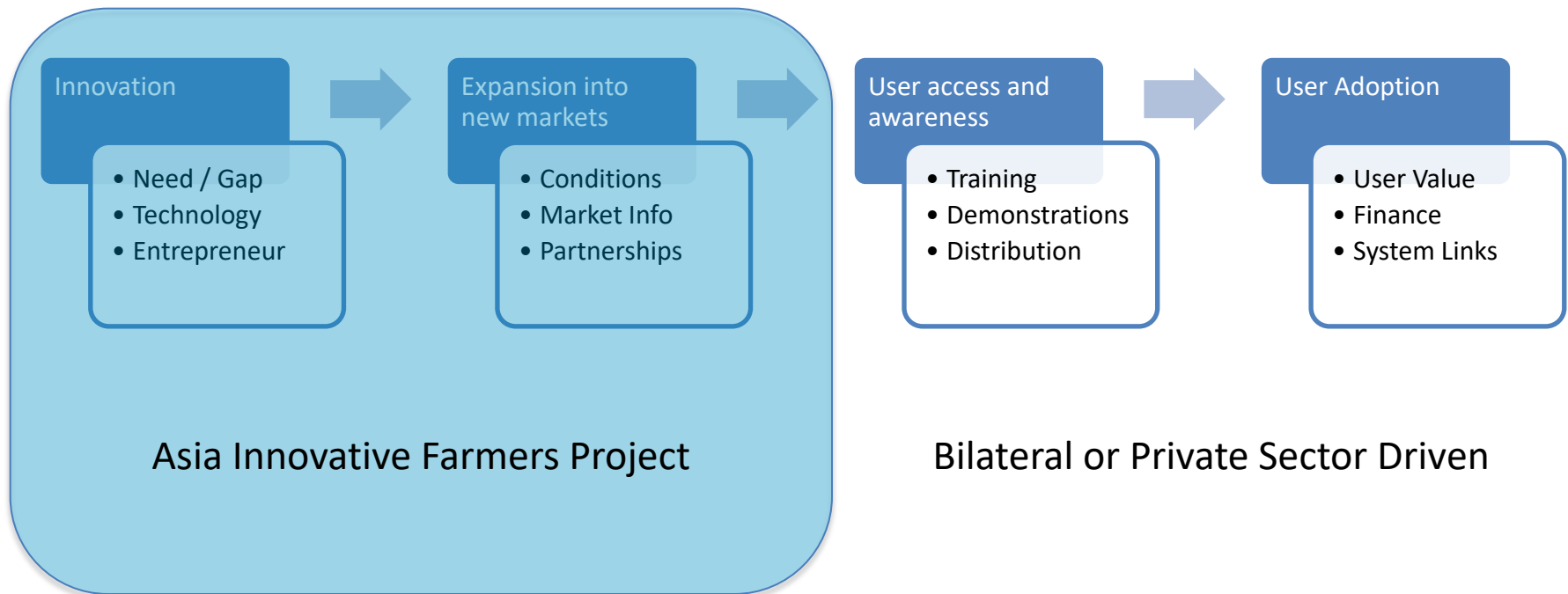
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Technology Transfer Chain



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Innovation Challenge



<https://tech4farmerschallenge.wordpress.com/>



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Testing Services

Technology

- Does it work locally?
- What is the cost/benefit?

Market

- Who is the market?
- How segmented?
- What is driving their decisions?

Model

- Do systems exist to carry the tech?
- Can regional companies partner?



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Supported Technologies

Pest Exclusion Netting

- Cost-effective means for safe vegetables – row cover allows scaled Investment
- High growth rates in Thailand and Vietnam
- Collaboration with USAID funded KISAN, WEA and AVC projects
- Mutually supportive of traceability / safe food market technologies





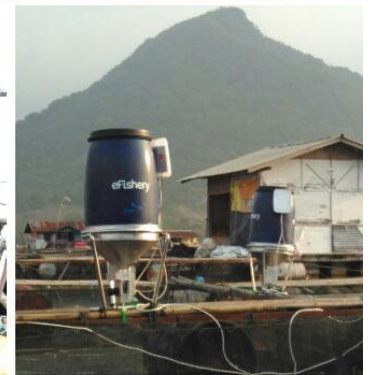
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Supported Technologies

e-Fishery

- Sensor enabled auto feeder – up to 20% FCR improvement
- Hardware and subscription pricing for different scales
- Real-time information / data can enable greater finance
- Distribution through 2 Bangladesh companies
- Initial purchase of 20 machines for commercial testing



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Submitted Technologies

Digital Soil Tester

- Based on colorimetric soil testing technology
- Innovation is use of an optical scanner to read results
- Provides a digital result and links to suite of software to provide recommendations by crop
- Can be completed in ~20 minutes
- Will be expanded through country distribution agreements



Grameen Intel
Social Business Ltd.



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Submitted Technologies

M-Green Lite

- App-based tool for production documentation
- Time stamped photos, GPS marking, inputs, etc.
- Can generate unique QR code
- Buyer / Consumer scannable
- \$2.50 / producer – paid by buyer





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Regional Innovation Community

- Regional Agriculture Innovation Hub at Kasetsart University
- National Ag Innovation Groups in 3 countries
- Challenge is a focal point for engagement – beyond FTF countries
- Focus on youth – Syngenta – USAID Ag Student Connections



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