



CABI in the Asia-Pacific

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Asian-Pacific Member Countries Consultation
4-6th November 2015, Putrajaya Malaysia

KNOWLEDGE FOR LIFE





Outline of presentation

- **CABI in Asia-Pacific- Dr Babar Bajwa**
- Progress against the priority areas identified in previous consultation meeting
- Going Forward (Dr. Feng Zhang)

Membership: 14 member countries in Asia-Pacific region



* Associate Member

Countries we are working in

Please refer to the
project dossier for
more details



A map of Asia and Oceania with countries highlighted in green. The green countries include Afghanistan, Australia, Bangladesh, Brunei Darussalam, Cambodia, China, DPR Korea, Fiji, India, Indonesia, Laos, Malaysia, Myanmar, Nepal, Pakistan, Papua New Guinea, Singapore, Solomon Islands, Sri Lanka, Thailand, and Vietnam. The Indian Ocean is labeled to the south of the Asian continent, and the Pacific Ocean is labeled to the east of Japan.

Afghanistan
Australia
Bangladesh
Brunei Darussalam
Cambodia
China
DPR Korea
Fiji
India
Indonesia
Laos
Malaysia
Myanmar
Nepal
Pakistan
Papua New Guinea
Singapore
Solomon Islands
Sri Lanka
Thailand
Vietnam

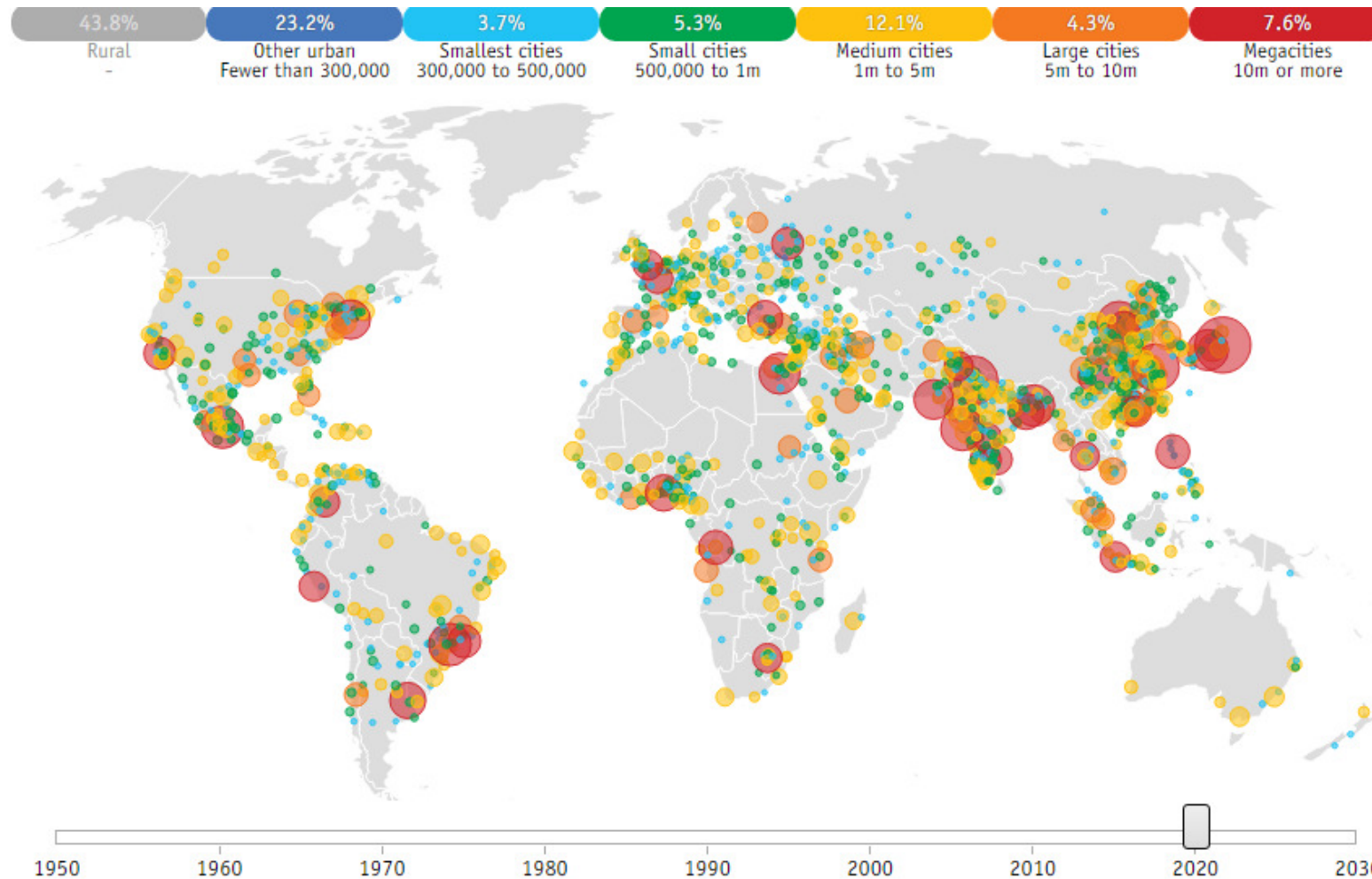


Key facts about the Asia-Pacific region

- Vast physical expanse
- Climate, topography – great variation
- Great historical, cultural and ethnic diversity
- Mega biological diversity
- Diverse social, political and economic development
- ~ 60% global population, ~ 50% world's poor
- Significant economic growth rates
(31 LICs & 13 HICs)

Growing Population / Appetite

Population dynamics - 2020



Source: UN

*Dataset comprises urban agglomerations with 300,000 inhabitants or more in 2014. Data are for countries existing in 2014, mapped on modern borders. Projections from 2014.

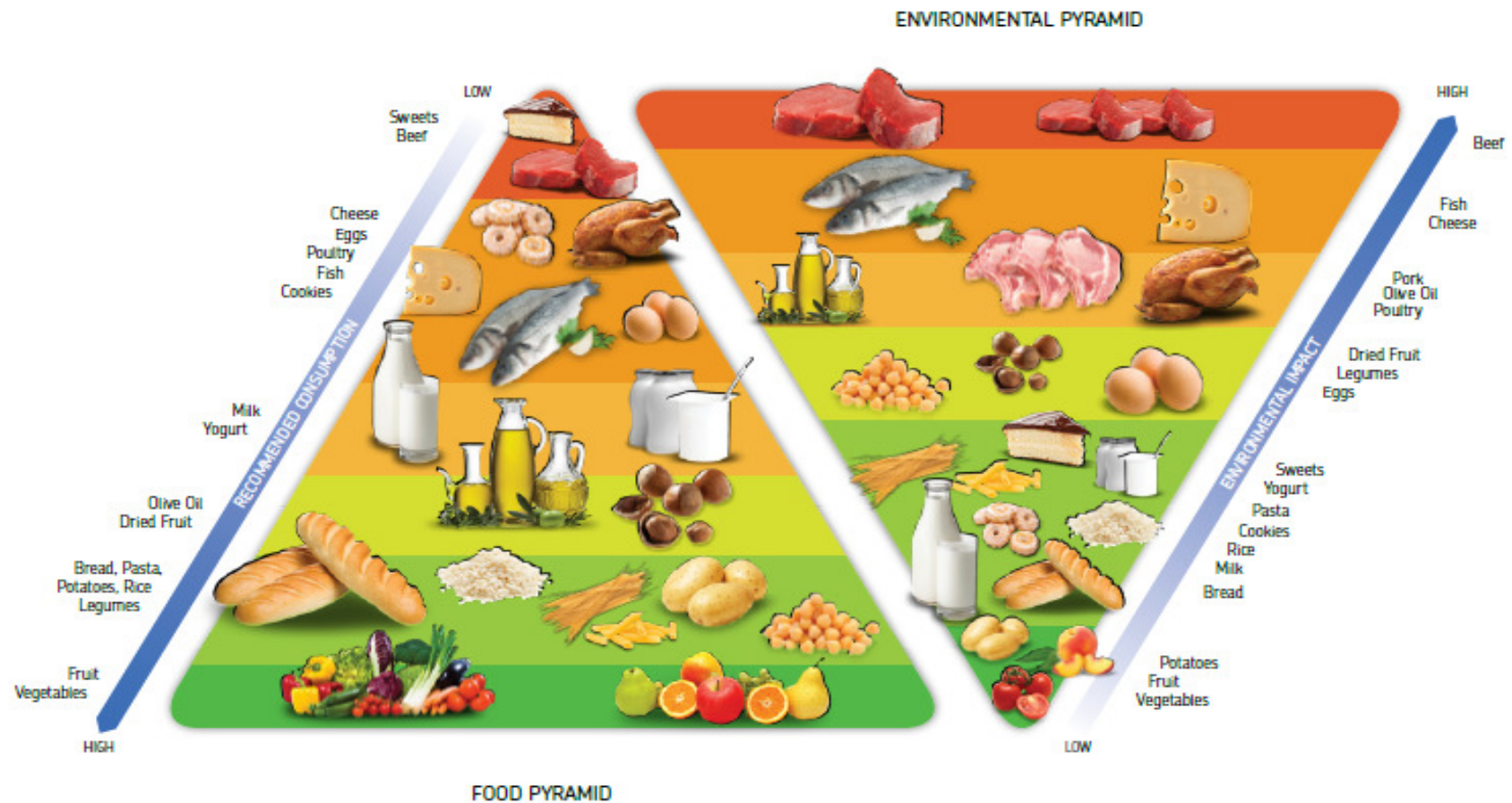


Happening...

- *Rapid urbanization*
- *Scarcity of land, water and youth talent*
- *Consumer engagement/activism*
- *Producing more food with less land and favourable conditions. Feed ~ 7 Billion People*
- *Digitally connected People (1.2 B mobile phones, 618 M internet users)*
- *Investments to Stimulate Agri-food production*

Mary Shelman, Global Trends in Agriculture, Fresh Connections PMA Conference, 12-13 August 2015, South Africa.

Food vs Environmental Pyramid



The Barilla Center for Food and Nutrition Double Pyramid

©BCFN Foundation 2015

Source: Barilla Centre for Food and Nutrition, BCFN Foundation 2015. Presented by Mary Shelman, Global Trends in Agriculture, Fresh Connections PMA Conference, 12-13 August 2015, South Africa.



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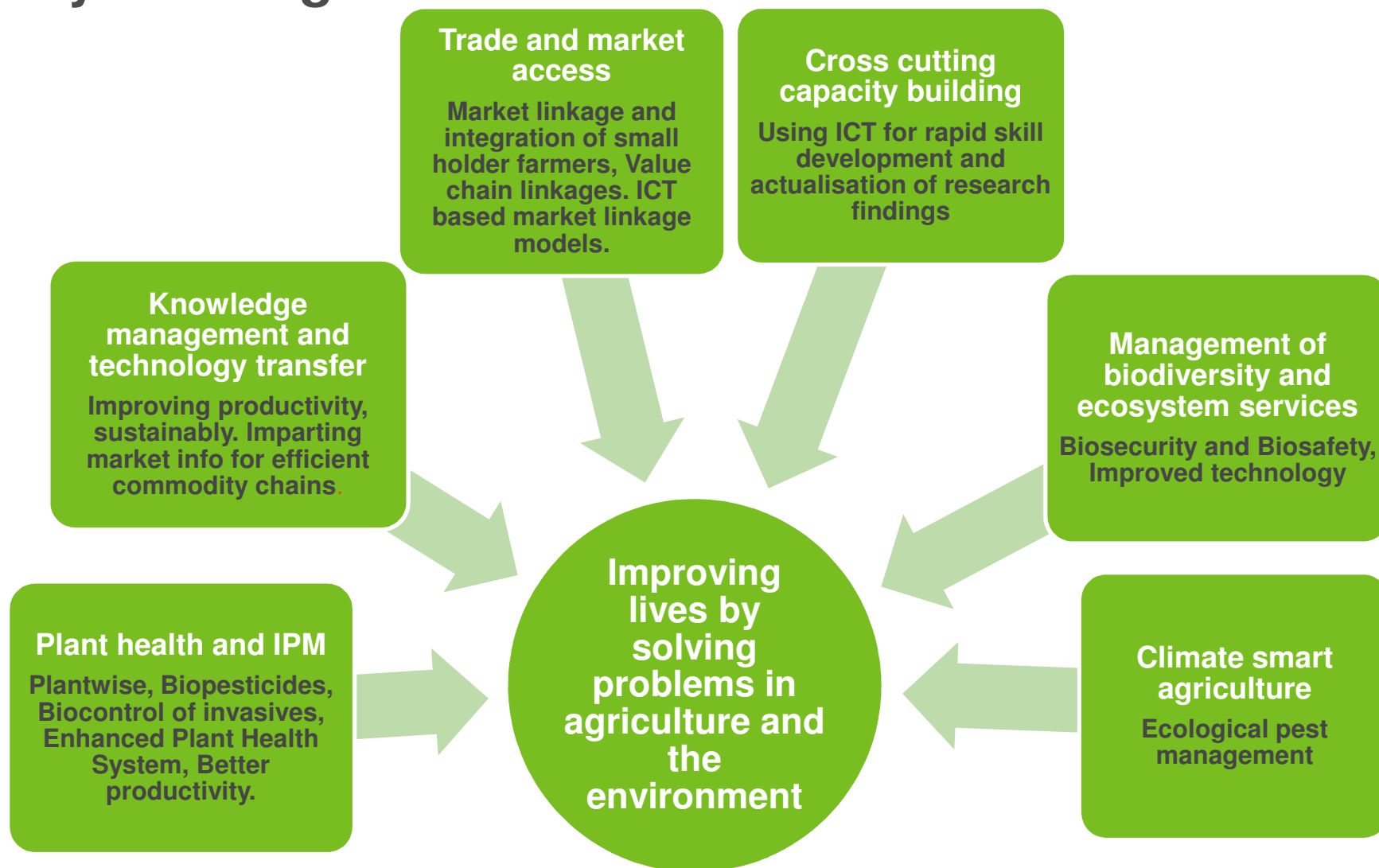
Priority areas identified at last consultation meeting

- Trade and market access
- Knowledge management and technology transfer
- Plant health and IPM
- Management of biodiversity and ecosystem services
- Climate smart agriculture

Cross cutting

- Capacity building and using ICT for rapid skill enhancement

Key Working Areas





Trade and market access

Market access / value chain support

- ✓ SPS constraints in ginger value chain in Nepal identified.
- ✓ Supply chain improvement, Skills for market, Cotton farmers linked to top retailers, Pakistan
- ✓ Farmer-aggregation and ICT based market linkages. Farmer-linkages with forward and futures markets, multiple countries.

SPS compliance and capacity building

- ✓ Phytosanitary risk management program, Pakistan
- ✓ Ensuring agricultural trade is healthy
- ✓ SPS capacity development in ASEAN.

GAP capacity building

- ✓ Implementation of GAP and SPS in commodities like Cocoa, Fruits and Vegetables, Multiple countries



Knowledge management and Capacity Building

Ecological pest management

- ✓ Toolkit for sustainable practices in reducing the use of chemical pesticides in tea in Assam.

Mobile Infomediary

- ✓ Specialized tools (e.g. mobile apps) for high value agriculture, Multiple countries

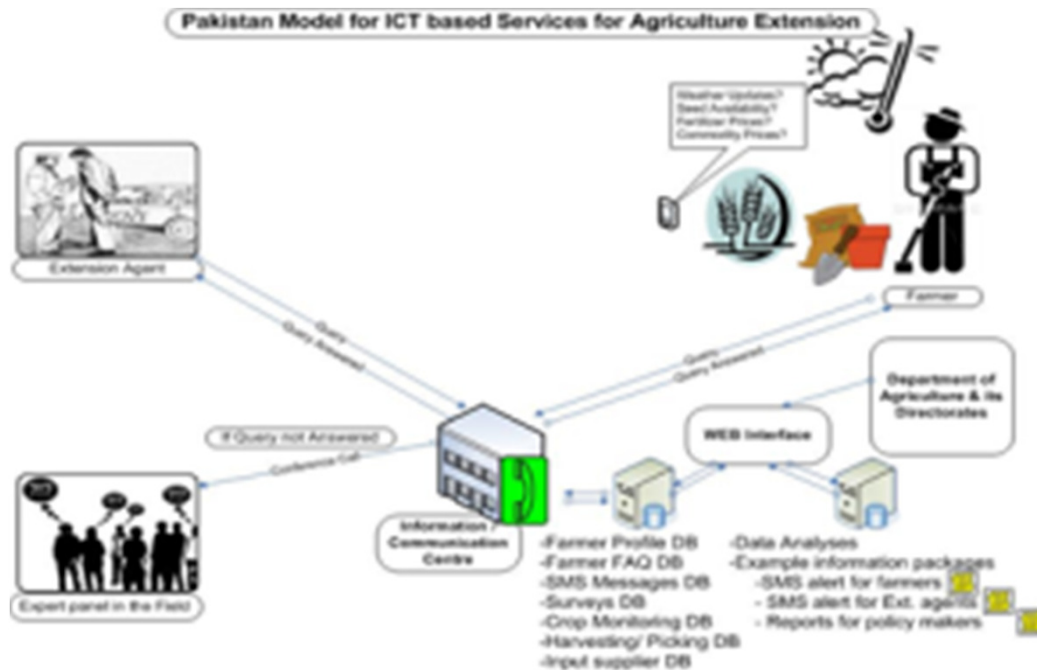
Open access to information resources and platforms/Open data initiatives

- ✓ Global invasive alien species information partnership.

Transfer of biologically-based crop protection technology from China to other developing countries

- ✓ EuropeAid funded rice and maize IPM in Greater Mekong Sub-region.
- ✓ EuropeAid funded soil pest management in DPR Korea.

Technology Transfer and Nutrition Agriculture



Development communications

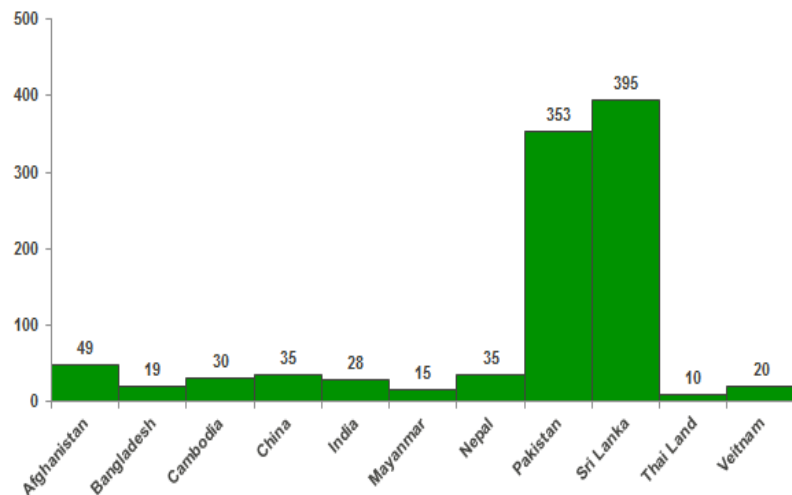
- ✓ TOMFs and manual development for cocoa in Malaysia, Indonesia and PNG.

Nutrition

- ✓ mNutrition initiative in Myanmar.
- ✓ mNutrition in Pakistan
- ✓ Promoting nutrition sensitive content

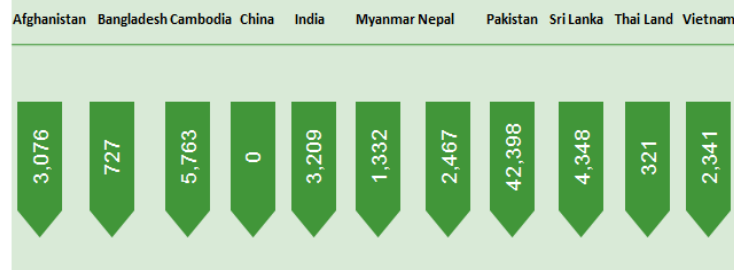
Plantwise

1000 Plant Clinics



65,982

Farmers' Queries Recorded



11 Public/Private Partnerships

83 Plant doctors trained as master trainers

1,265 extension staff trained as plant doctors

10

Data Sharing Agreements

274

Pest Management Decision Guides

473

Facts sheets Produced

122 stakeholders involved in 05 workshops



369 farmers reached in 05 plant health rallies



05 Programme Evaluations Studies



Management of biodiversity and ecosystem services

Invasive species management

- ✓ IS management for production and protected forests in SEA
- ✓ Oil Palm Biosecurity Plan for Malaysia
- ✓ Stink bug and Olive Fruit fly management in Pakistan

Microbial resources

- ✓ Microbiology training (Afghanistan, Malaysia, Brunei).
- ✓ Linkage of microbial ID service with Plantwise diagnostic clinic
- ✓ Establishment of biocontrol laboratory in Badam Bagh Afghanistan
- ✓ Preliminary Bioresource Centre development for Brunei and Malaysia

Insects as sustainable sources of protein

- ✓ EU funded PROteINSECT project.



Climate smart agriculture

Climate change

- ✓ Development of capacities of BKP's pilot communities for eco-system based adaptation to climate change with a focus on the conservation and management of biodiversity and agro-biodiversity.
- ✓ Pest Smart-Strengthening ecosystem health and building resilience of Climate Smart Villages (CSVs).

A system to improve the rational use of pesticides

- ✓ Using appropriate Earth Observation data, weather and climate data to develop pest forecasting model and myco-insecticides development model to improve the timing and efficacy of applying myco-insecticides to control locusts.



Cross cutting capacity building

Gender:

- ✓ Gender Relations in key Wheat Target Regions of South Asia and Development of Guidelines for Gender Responsive Agricultural Innovations in Wheat Based Systems.
- ✓ Publication of, and access to, authoritative information resources
- ✓ Gender disaggregated data of 400K farmers in India
- ✓ Tailor-made and stylised content for women farmers
- ✓ Institutional capacity building through Ecological Engineering and Plantwise-based initiatives
- ✓ Capacity building on conducting state-of-the-art research at the MoA-CABI Joint Laboratory in China



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Going forward in Asia-Pacific

Think Global Act Local with a Regional Focus

Strategic level:

- Work in close **partnership with MCs**, responding to MC needs
- Make **Sustainable Project Development Plan** through wider stakeholder consultation, focusing Medium Term (3-5 years)
 - Regional **Business Plans** (West Asia; Central Asia)
 - Regional **Science Policy** in South Asia
 - **One Belt and One Road** Plant Protection International Collaboration Initiative for East Asia
 - ASEAN+ **South-South** Collaboration for SE Asia



Going forward in Asia-Pacific

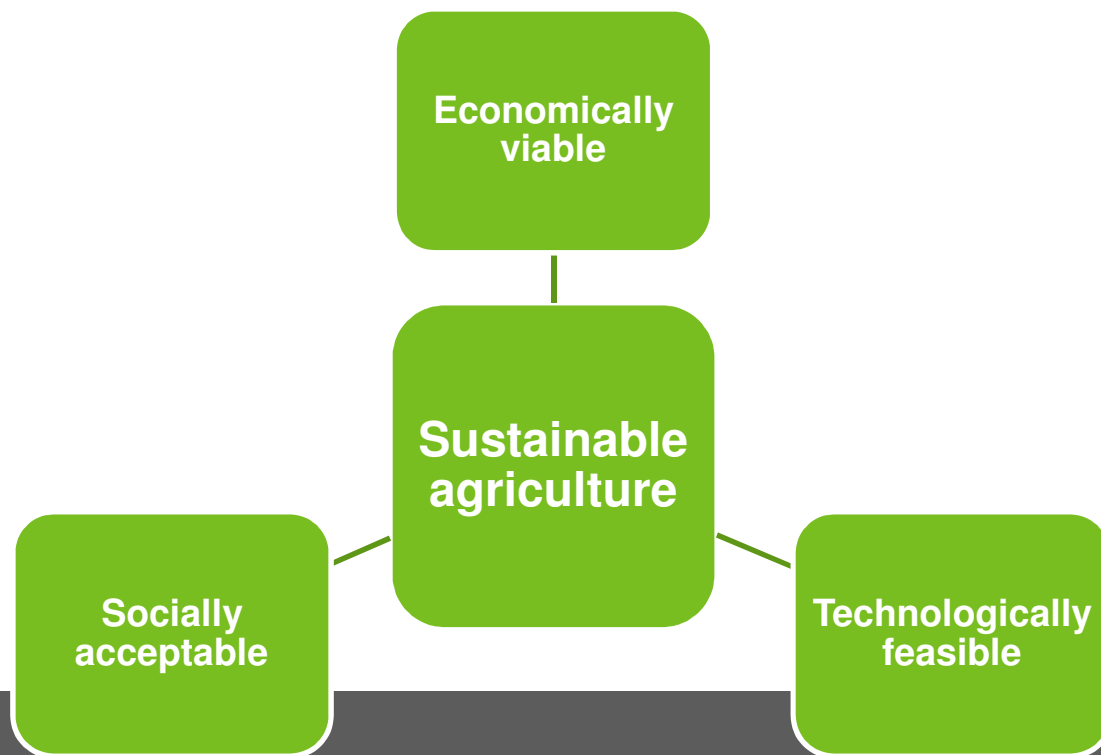
Think Global Act Local with a Regional Focus

Operational level:

- Enhance **cross-centre collaboration**
 - Improved communication and coordination
 - using ICT and across CABI tools
- Build smart **Partnerships, Client and Customer Management**, improving Trust and Confidence
- Develop more bilateral, tripartite and multilateral collaboration, e.g. **Joint Lab** (China, India)
- Adopt **value chain** approach, working with small and medium agribusinesses for close farmer-market linkage
- Invest & Develop **human capital**
 - Develop staff skills (Business + Management)
 - Widen Associate Expertise pool

Our Commitment

Sustainable agricultural solutions to lose less and feed more



'We must always base our commitment in the centre of our own being, or else no commitment will be ultimately authentic'.

Rollo May, The Courage to Create



Assalamualikum शुक्रिया xie-xie efharistó
mercí zikomo
ありがとう
kiitos
urakoze
danke
thank you
tak
gracias
ke iturnetse
zikomo
terima kasih
dhanyawaad
asante

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