

# BRAC Agriculture and Food Security Programme



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# Agriculture and Food Security Programme of BRAC

## Goal:

To contribute in achieving food security and reduction of hunger and malnutrition through increased environmentally sustainable and economically profitable agricultural production.





# Major Components of the Programme

- Research and Development
- Crop Technology Validation and Extension
- Aquaculture Technology Extension



# Objectives

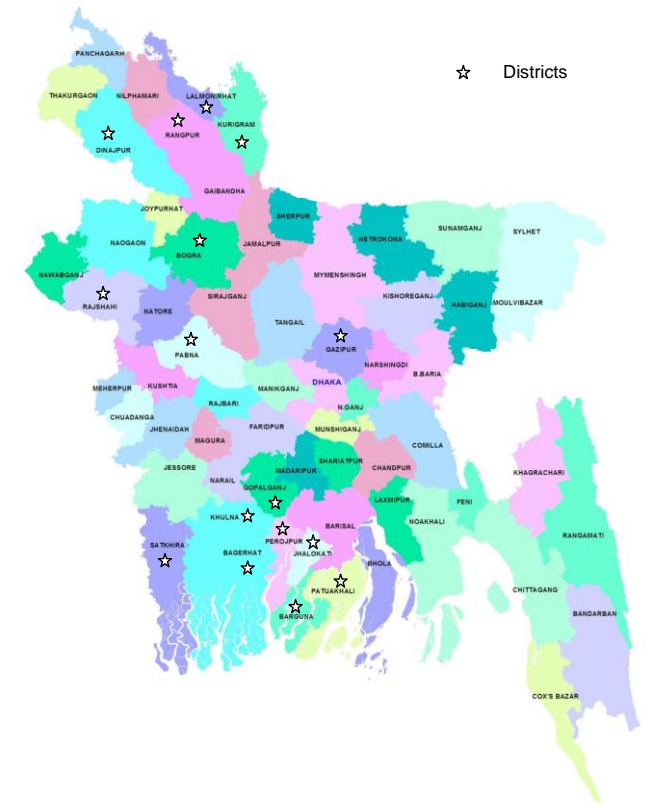
- ✓ Conducting applied and adaptive research for developing new crop varieties of shorter growth duration, high yield and stress tolerance.
- ✓ Promoting higher productive, cost effective and environmentally sustainable agricultural technologies through farmers participatory demonstration and validation.
- ✓ Reducing malnutrition through crop diversification and aquaculture intensification.
- ✓ Conserving biodiversity.



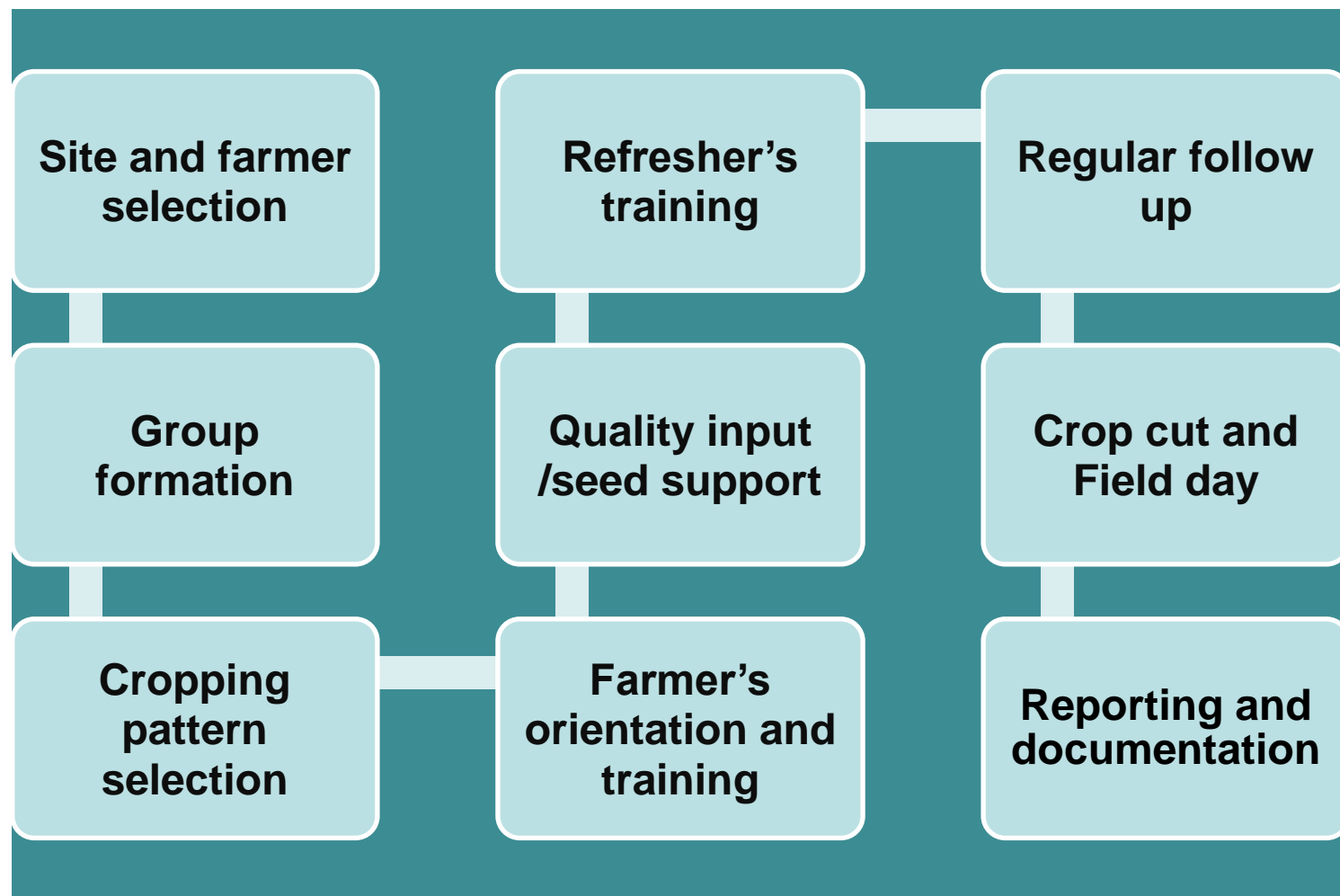
# Farmer's Participatory Validation and Extension

## Technology Dissemination Strategy

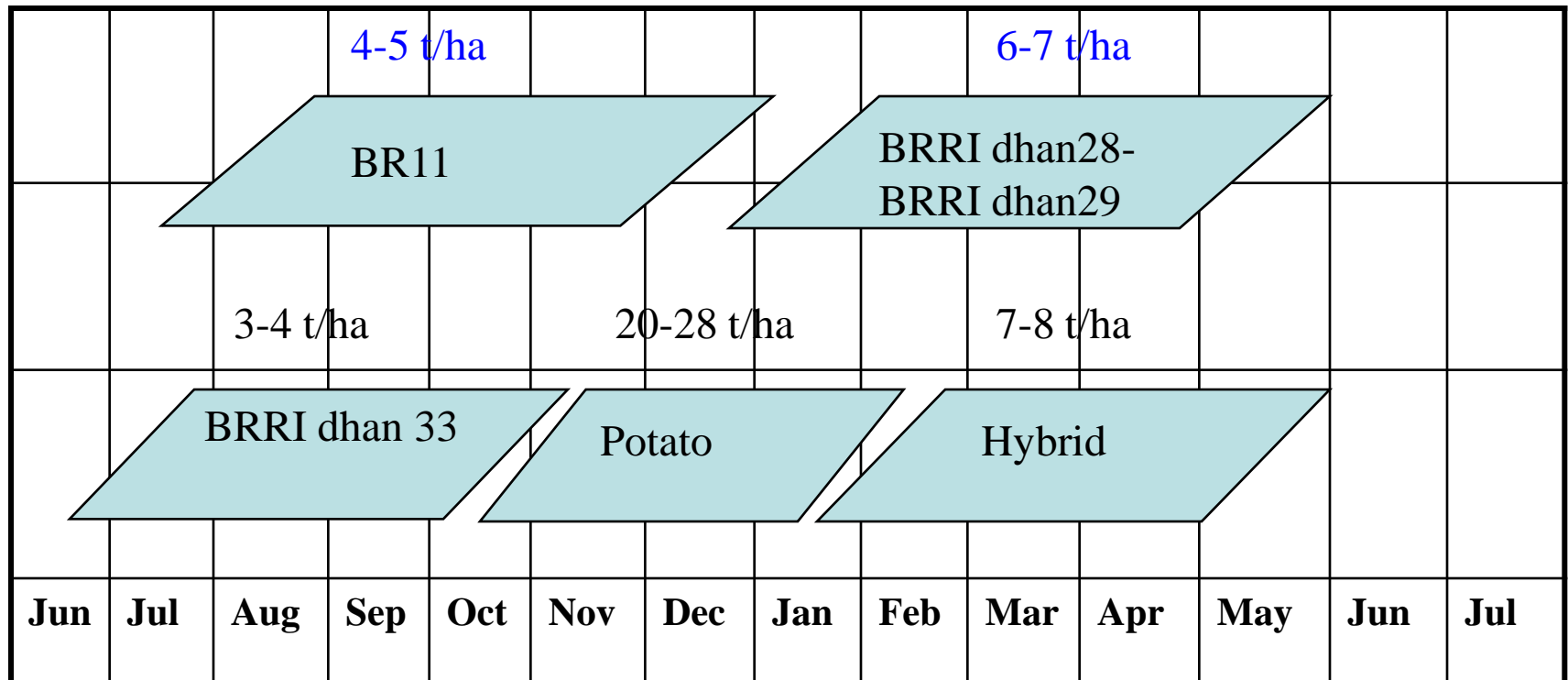
- ✓ Converting single cropping area to double or triple cropping area to enhance food security
- ✓ Introducing short-duration HYV rice to accommodate high-value non-rice crop in the popular rice-rice pattern
- ✓ Introduction of stress tolerant rice varieties (submergence, salinity, drought, cold) to combat the adverse effect of climate change
- ✓ Increasing productivity through integrated agricultural and aquaculture practices in gher and seasonal floodplains



# Farmer's Participatory Validation and Extension



# Aman-Boro vs. Aman-Potato-Boro



Aman-Boro = 10-12 t/ha (R)

Aman-Potato-Boro = 10-12 t/ha (R) + 20-28 t/ha (P)



# Initiatives taken during July 2012 – December 2015 in AFSP

- **Demonstration of intensive and diversified farming systems**

(more than 2400 blocks reaching 88,000 participants)

- **Extending quality seed to farmers field**

(Hybrid rice 170 ton, HYV rice 560 ton, Maize 85 ton, Sunflower 24 ton, Mustard 6 ton, vegetables 7 ton)

- **Introducing sunflower as edible oil crop in coastal areas**

(reached 25,000 farmers covering 6,500 hectares of land)





# Initiatives taken during July 2012 – December 2015 in AFSP

- **Promoting System of Rice Intensification (SRI)**  
(113 location covering 1332 ha land and 6700 farmers)
- **Diffusion of climate resilient crop varieties**  
(Salinity, submergence, drought tolerant crop varieties at the stress prone areas)
- **Extending maize in fallow char areas at northern region**  
(5700 ha of land involving 22,400 famers)



# Initiatives taken during July 2012 – December 2015 in AFSP

- **Addressing nutrition through homestead vegetables and dyke farming**  
(more than 19000 households covering 4,700 hectares of land)
- **Disseminating high zinc rice in farmer's field**  
(65 locations in different regions at 2014-15)





# Homestead Vegetables



# Aquaculture Technology Package

- Household based aquaculture (Introducing nutrient rich small fish with carp and/or tilapia) and high value horticulture system.
- Improved shrimp farming by stocking virus free fish.
- Improved carp poly culture in pond and horticulture on dyke.





# Aquaculture in Gher and Seasonal Floodplains

- **Integration of fish/prawn-rice-vegetables in *gher* fishery**  
(More than 1000 gher in southern region)



- **Community based fisheries in seasonal floodplains**  
(1200 participants covering 200 ha of land)



# Field Based Training on Aquaculture

20 % participants are women





# Successful Gher Activity



# BRAC Linkage with other Organizations

## National Agricultural Systems

- BIRRI
- BARI
- BINA
- BADDC
- DAE
- DoF

## International Research Systems

- IRRI, Philippines
- CYMMIT, Mexico
- WorldFish, Penang
- CIP, Peru
- AVRDC, Taiwan



# Media Coverage and Programme Brochure



## Newspaper Coverage

JANUARY 2014 TO APRIL 2015



Agriculture and Food Security Programme



Agriculture and food security

# Thank You

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With over 120,000 research and extension workers around the world, BRAC has touched the lives of an estimated 150 million people. Its programs in agriculture alone have directly affected more than 500,000 farmers and their families.

 [WWW.WORLDFOODPRIZE.ORG](http://WWW.WORLDFOODPRIZE.ORG)