





Farm Machinery and postharvest Technology (FMPHT) Division

History of Division

- FMPHT Division has been started journey since 1973 as “Agricultural Engineering” Division and
- In 1990 the division renamed as Farm Machinery and Postharvest Technology Division.

Vision

- Transformation of traditional agriculture into commercial agriculture through mechanization

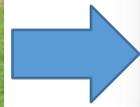
Mission

- Innovation, development and expansion of sustainable and environmental friendly appropriate agricultural machinery and processing technology

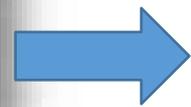
Transformation of Mechanization in Bangladesh



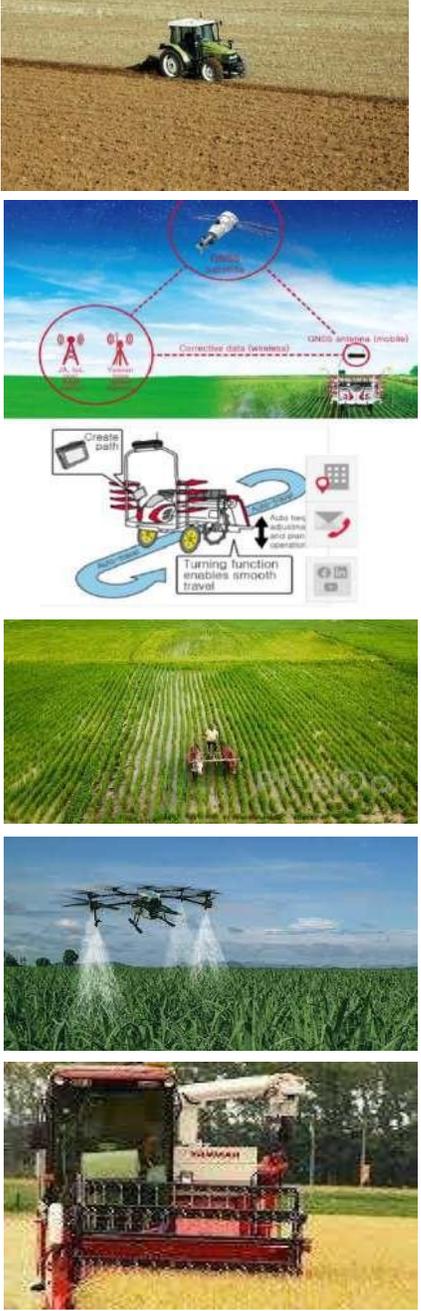
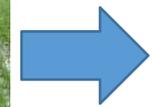
Before 1990



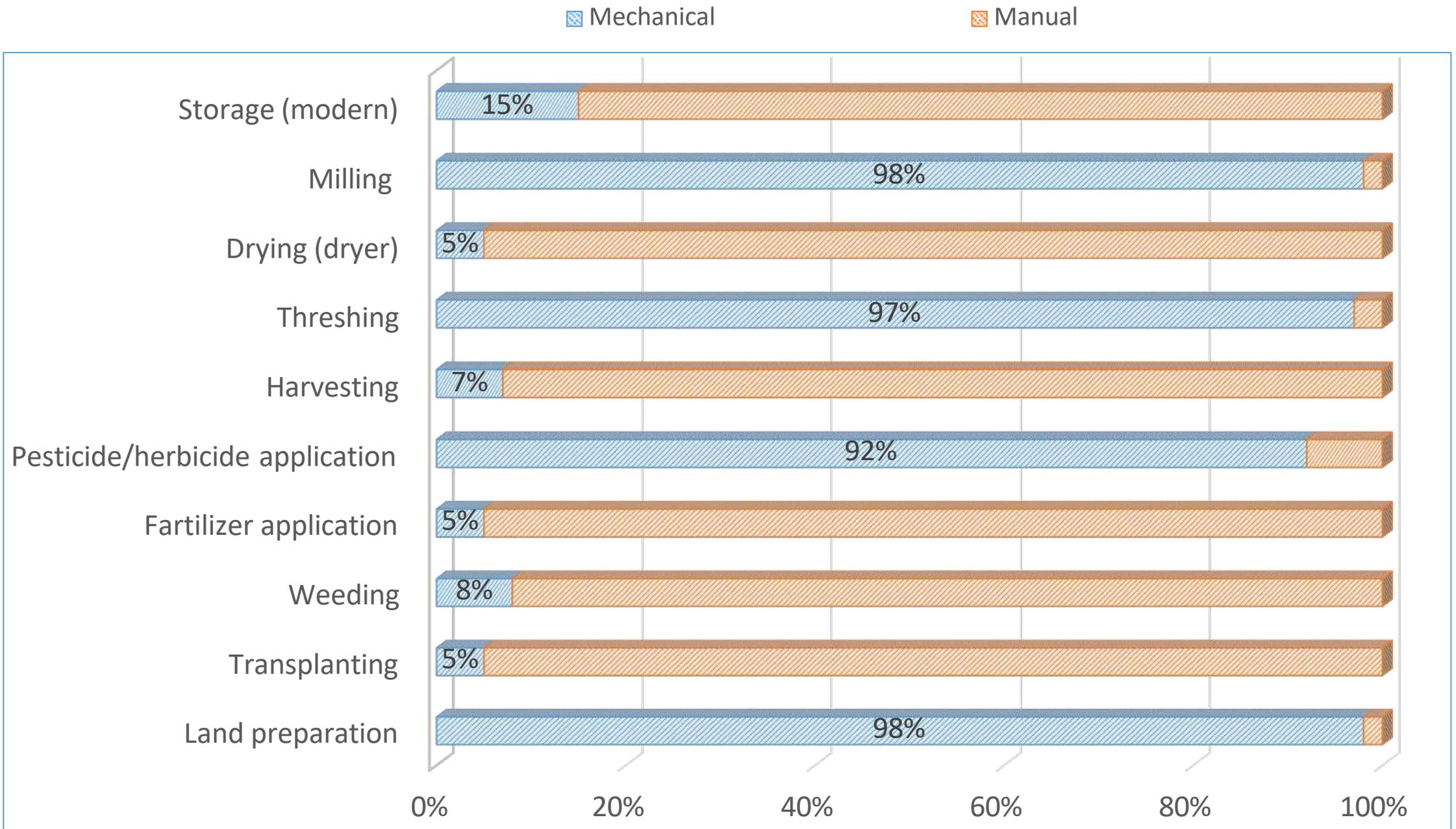
After 1990



Present



Future



(Anisur et al, 2020 and Hossen, 2019)

Tillage



Traditional Plowing



BRRRI Hydro Tiller (1993)



BRRRI Power Tiller (1985)

Seeding



BRRRI upland seeder (1993)



BRRRI multi-crop seeder (2000)



BRRRI drum seeder (1998)

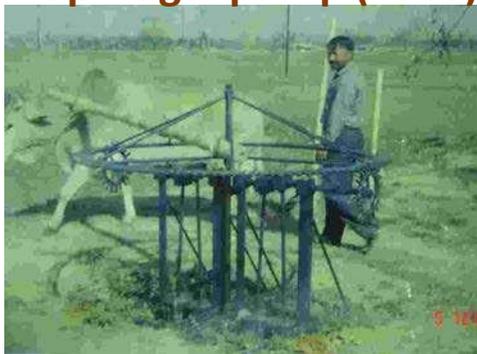
Irrigation System



Diaphragm pump (1980)



BRRRI Propeller pump (1995)



Animal driven pump (1993)

Transplanting



BRRRI Power RT (2021)



Manual RT (1991)



Modified Manual RT (2018)

Fertilizer Application



Traditional Technology



USG Applicator (2010)



RT cum FA (2020)



Prilled Urea Applicator (2015)

Weeding



Traditional Technology



Power Weeder (2018)



Manual Weeder (1985)



BRR Power Weeder (2013)

Light Trapping



Traditional Technology



Solar Light Trap (2019)



Harvesting



Whole feed combine (2019)



Head feed combine (2018)



Traditional Technology



Power tiller mounted reaper



Self-propelled reaper

Threshing



Traditional Technology



Paddle Thresher (2010)



Closed Drum Thresher (2020)



Open drum Thresher (2010)

Winnowing



Traditional Technology



Winnowing (1998)



Air Blow type Winnowing

Drying



Traditional Technology

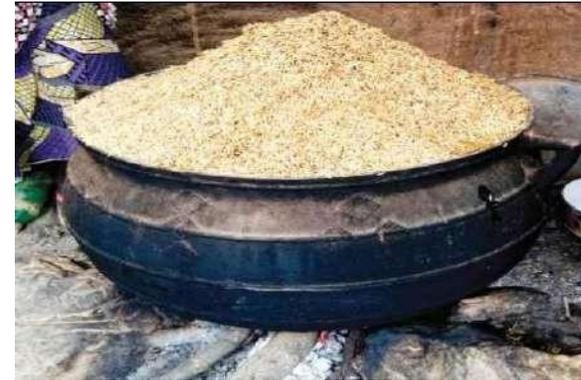


Seed Dryer (2002)



Batch Type Dryer (2007)

Parboiling



Traditional Parboiling



Improved Parboiling Systems



Traditional Technology

Rice Milling



Traditional Technology



Mobile Huller (2004)



Improved processing (2205)



Air Blow Type Rice Mill (2017)

WMM Division



Self-Propelled Mower



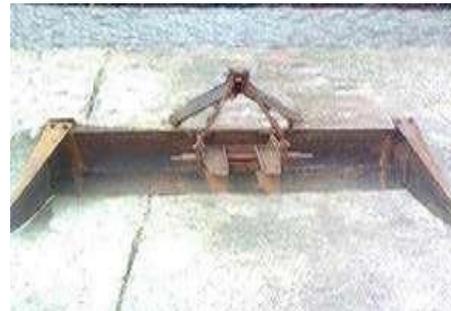
Solar Operated Winnower



Self-Propelled Reaper



Solar Operated ODT



Tractor mounted scrapper



PTO grain cleaner

Achievement

Technology Developed

- 48

Technology Disseminated

- 20

Popular Technology

- 12

Award Received

President Gold Medal (1980)

Bangabandhu National
Agriculture Award (2021)



Ongoing Activities

1. Combine Harvester (Head feed and Whole feed)

2. Rice Transplanter (25 and 30 cm line to line spacing)

3. Forward Motion Type Rice Transplanter

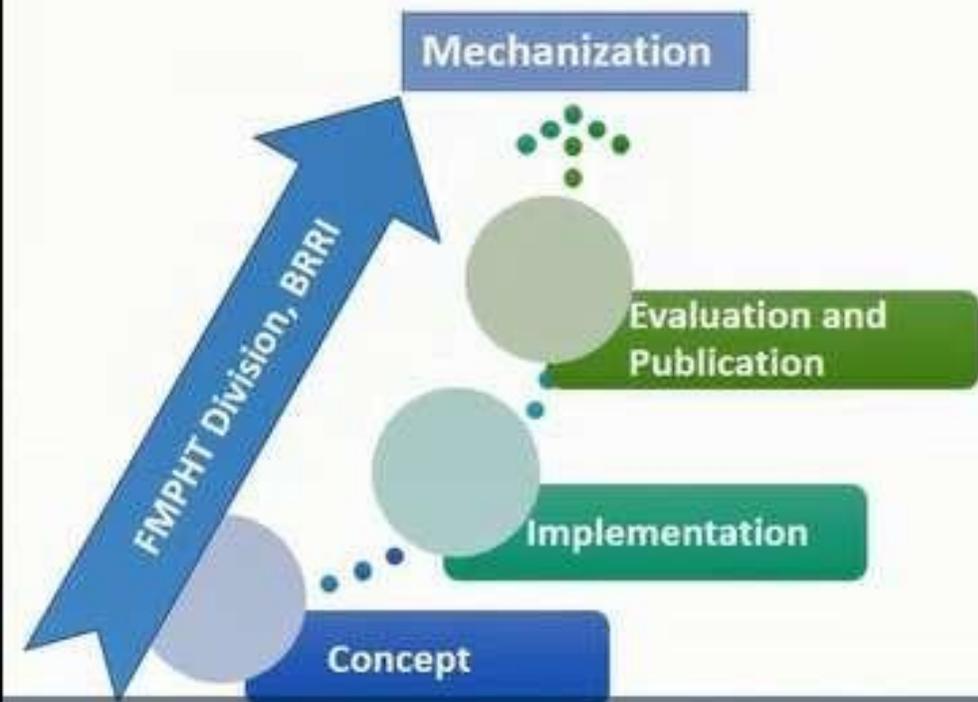
4. Semi-Auto Rice Transplanter

5. Walk Behind Type Power Weeder

6. Compact Rice Milling Technology

7. Rice-Husk Pellet Machine

BRRI Developed Technologies



Design and developed
by

Farm Machinery and Post Harvest Technology Division
Bangladesh Rice Research Institute

Video

BRI Hydro Triller

Feature

Suitable for muddy land

Capacity: 0.15-0.2 ha/h

Use of 10 hp petrol engine

