



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

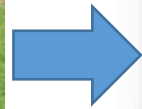
Mission

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

Transformation of Mechanization in Bangladesh



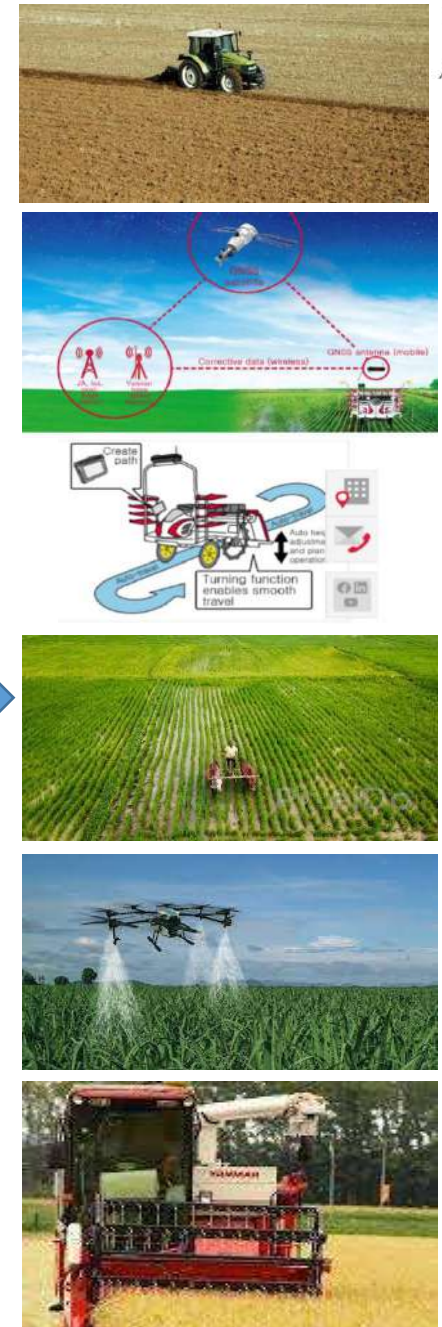
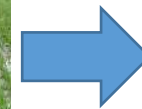
Before 1990



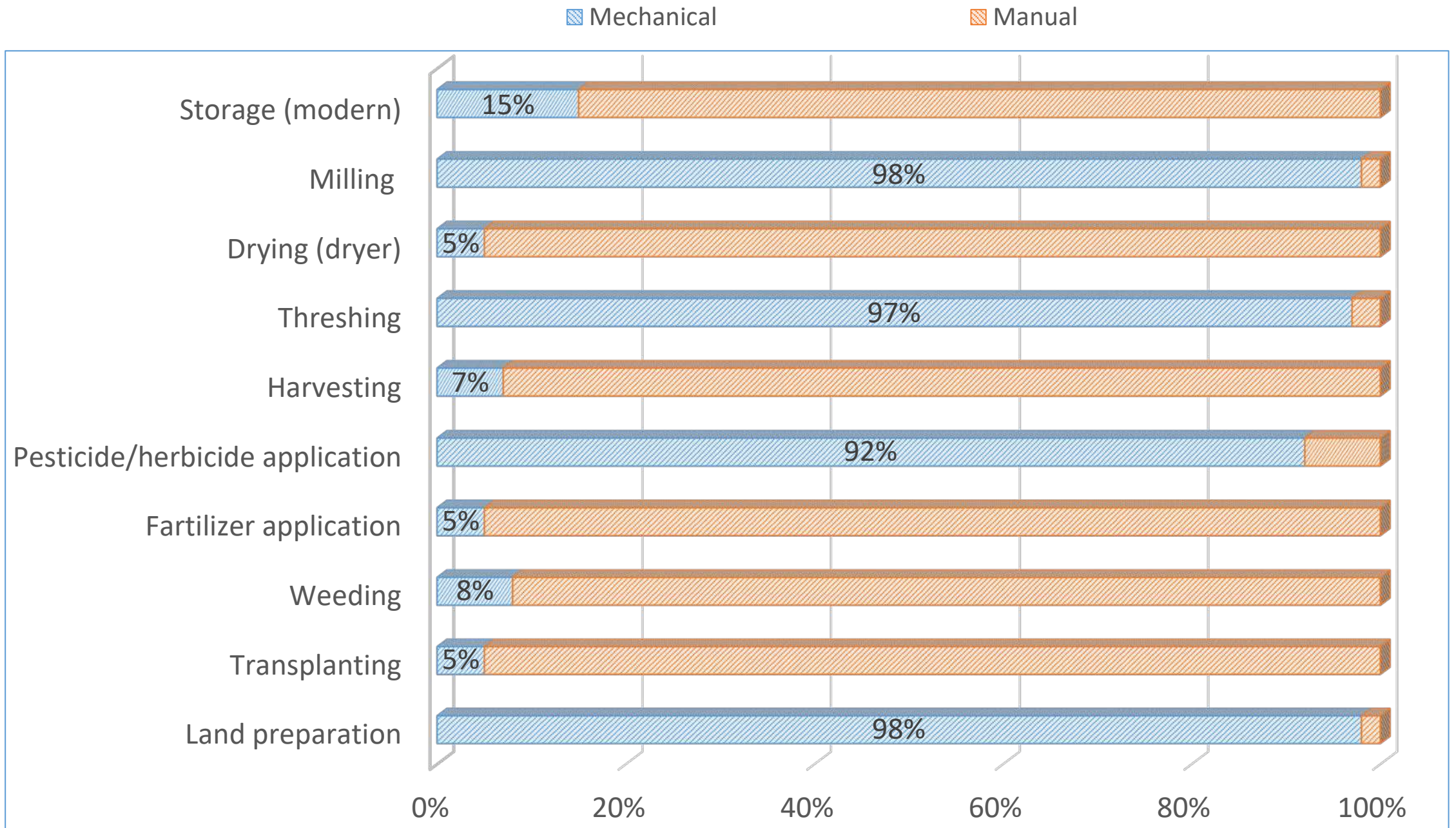
After 1990



Present



Future



(Anisur et al, 2020 and Hossen, 2019)

Tillage



Traditional Plowing



BRRI Hydro Tiller (1993)



BRRI Power Tiller (1985)

Seeding



BRRI upland seeder (1993)



BRRI multi-crop seeder (2000)



BRRI drum seeder (1998)

Irrigation System



Diaphragm pump (1980)



BRRI Propeller pump (1995)



Animal driven pump (1993)

Transplanting



Manual RT (1991)



BRRI Power RT (2021)



Modified Manual RT (2018)

Fertilizer Application



Traditional Technology



USG Applicator (2010)



Prilled Urea Applicator (2015)



RT cum FA (2020)

Weeding



Traditional Technology



Power Weeder (2018)



Manual Weeder (1985)



BRRI 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



Winnower (1998)



Air Blow type Winnower

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

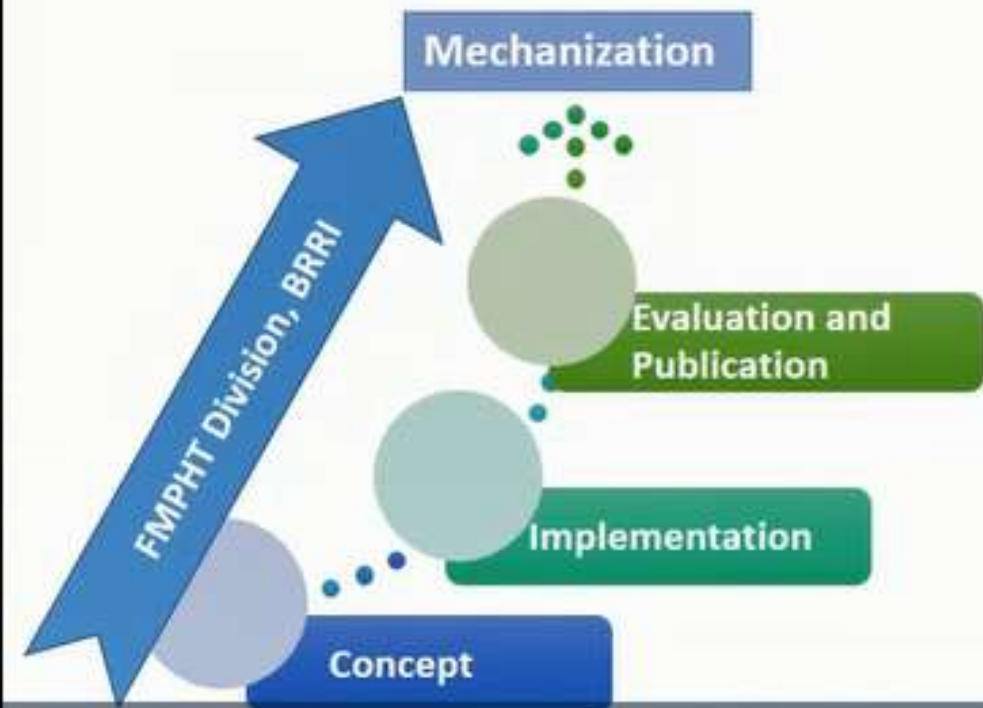
4. Semi-Auto Rice Transplanter

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

BRRI Hydro Triller

Feature

Suitable for muddy land

Capacity: 0.15-0.2 ha/h

Use of 10 hp petrol engine

