Appropriate small scale mechanization

2WT-based technologies (multi-purpose) – direct row planting, fertilizer, herbicides and pesticides application, irrigation, threshing/shelling, transport is viable and profitable business for individual service providers and smallholder farmers.

It increases yield, labor productivity, reduces production costs and associated farming drudgery especially in post harvesting for women.

Agriculture will attract youth if only appropriately mechanized and therefore has the potential to create thousands of jobs in machinery service provision and along the farming value chain.

Context
Farming systems in Ethiopia is characterized by low level of input utilization (improved seed, crop protection and nutrition and mechanization across the value chain) resulting in:
- low land and labor productivity
- food insecurity and
- Rural youth unemployment

Innovative ways of working

- Design, test and adapt technologies
- Farmer center design (re-engineering on farmers’ and Service Providers feedbacks) through field days and demonstrations
- Conduct promotional and training activities
- Establishment and scaling of supply chain processes (spare parts, training of local mechanics, demand creation and satisfactory machinery back stopping services)
- Establishment of innovative financing services
- Market-based solutions driven by private sectors for a holistic value chain delivery system

Future steps

- Scaling out and exploring the impact of small scale mechanization in food systems on productivity and employment
- Manufacturing and importing

Partners in Ethiopia

GIZ, MoANR, EIAR, AMIO, IDE, private importers and manufacturers, regional and line bureaus of agriculture and financial institutions.

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