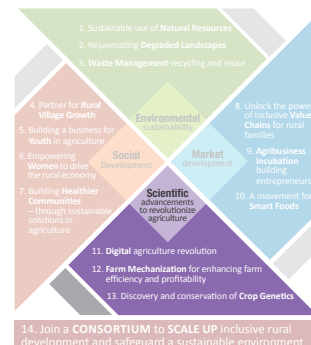


FARM MECHANIZATION

for Enhancing Farm Efficiency and Profitability

More **profitable agriculture**
Better livelihoods and **reduced poverty**
Global competitiveness

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Why mechanization in agriculture?

- Enhancing efficiency of smallholder farmers who are affected by increasing labor costs is needed to make agriculture more profitable
- Declining availability of animal power for agriculture
- Modernizing agriculture will attract youth back to agriculture
- Farm mechanization reduces crop production costs and post-harvest losses, and boosts crop output and farm income.



Mechanical paddy transplanting.

How it can be implemented?

- Build public private partnership to promote mechanization of small farms
- Incentivize small farm holders to adopt mechanization
- Establish custom hiring centers to enable small farm holders to adopt mechanization for increasing agricultural productivity
- Promote farm mechanization among stakeholders by way of on-field and off-field training and demonstrations.
- Develop and popularize models of science-led efficient agriculture through mechanization
- Enable policies and institutions to promote modernization of agriculture and mechanization.

What has been implemented?

- There has been a steady shift from animal power to electro-mechanical sources of power in some central and southern states – Maharashtra, Andhra Pradesh, Telangana, Karnataka, Madhya Pradesh etc
- Researchers have developed direct seeded rice to cope with the growing water scarcity
- Minimum tillage promoted as a conservation farming technique for sustainable development
- Farm mechanization is promoted in pilot sites of BhooSamrudhi in partnership with Government of Karnataka as well as “Rythu Kosam” with Government of Andhra Pradesh.



Bullock operated Tropicultor



Tractor operated Broad Bed Furrow Maker



**International Crops Research Institute
for the Semi-Arid Tropics**



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