



Agriculture support Services



I- Major Challenges Before Schemes

Single Cropped areas

- Only paddy with small area under oilseeds & Vegetables

Low farm productivity

- Paddy 2.9 MT/ha
- Oilseeds 0.4 MT/ha

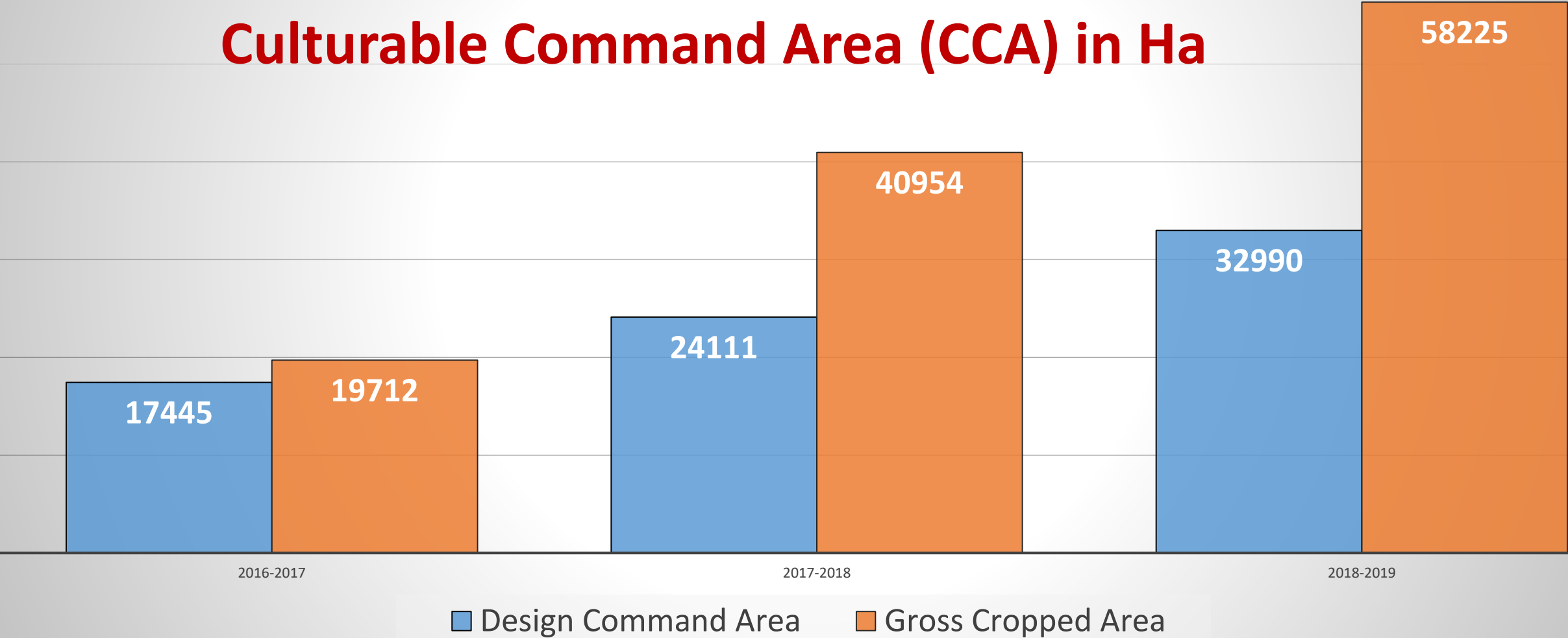
Technology deficient

- Knowledge gap leading traditional farming

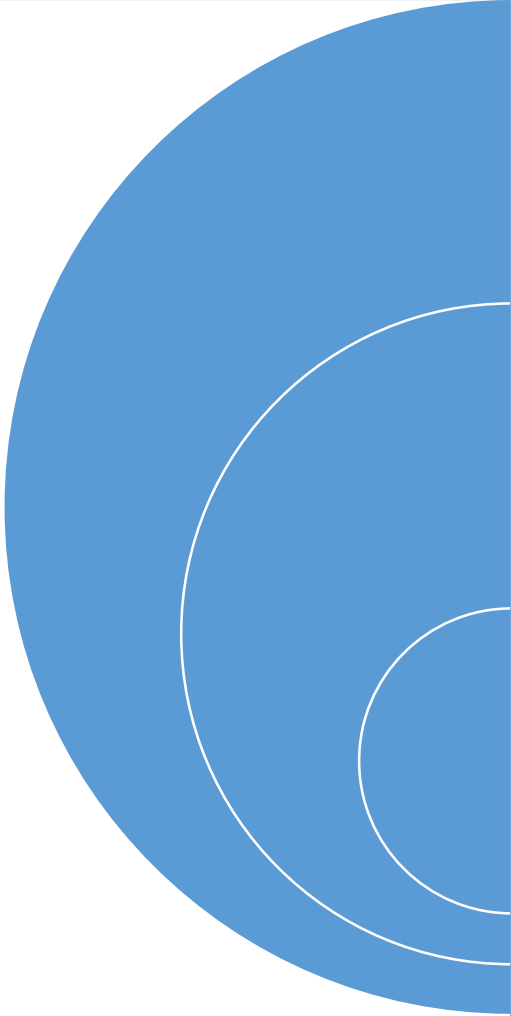
II-Area covered under different crop cycles

Cropping year	Total Designed CCA (Ha)	Pre-Kharif Area covered (Ha) vis-à-vis CCA (Percentage)	Kharif	Rabi	Remarks
2016-2017	17445	2093(11.9%)	13258 (75.9%)	4361 (24.9%)	<ul style="list-style-type: none">○ Less coverage during Kharif 2018 due to less rainfall.○ Command area coverage by surface irrigation structure (CD,WDS,SFMIS) was much less [25%-51% less] as per IWMI report in 2018-Kharif & Rabi
2017-2018	24111	6488 (26.9%)	20588(85.3%)	13878 (57.5%)	
2018-2019	32990	9624 (29.1%)	29116 (88%)	19485 (59%)	

III-Year wise Gross Cropped Area Against Culturable Command Area (CCA) in Ha



IV-Crop Diversification

	Pulses	<ul style="list-style-type: none">• Lentil• Black Gram• Bengal Gram
	Oilseeds	<ul style="list-style-type: none">• Mustard• Sesame• Groundnut
	Others	<ul style="list-style-type: none">• Maize

Cropping Intensity (%)





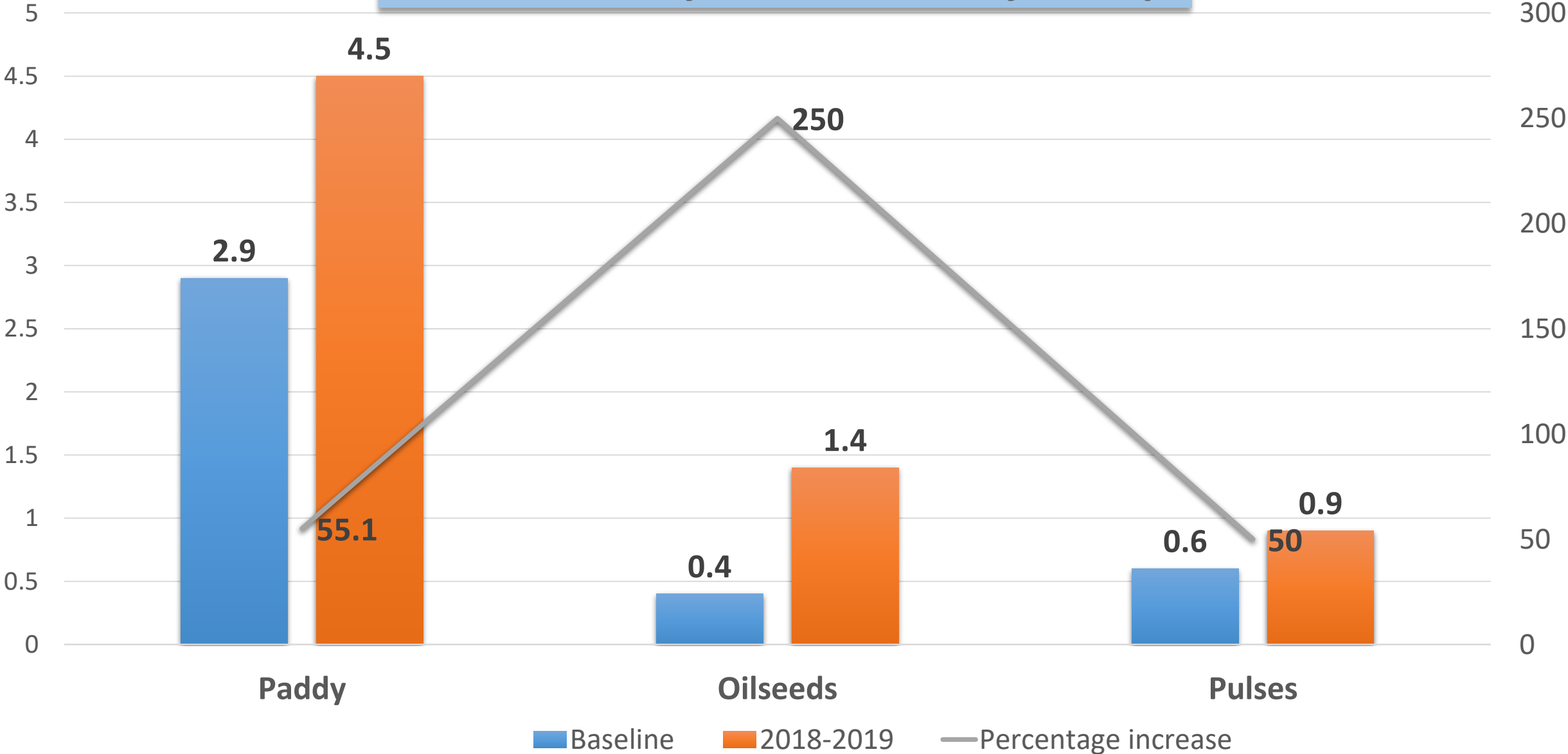
V- Season wise Area coverage (%) & Yield in MT/Ha											
Cropping year	Area coverage vis-à-vis CCA (%)								Yield MT /Ha		
	Pre- Kharif		Kharif			Rabi			Paddy	Pulse	Oilseed
	Oilseed	Pulse	Paddy	Pulse	Oilseed	Paddy	Pulse	Oilseed			
2016-2017	5	2	65.7	0.3	0	34.3	4	7.1	3.9	0.5	1
2017-2018	5.9	5.8	81	0.4	0	12.9	4.8	13.6	4.3	0.7	1.1
2018-2019	5.3	6.2	85.6	0.3	0.7	16.9	5.8	16.5	4.5	0.9	1.4



Mouza- Tasarara Block-Midnapore Sadar
GCA-0.5 Ha

Tasar-Ara MWS PDW(Drip solar)
22.49743, 87.37267, -21.0m, 25°
13/09/2018 12:54:20

VI- Productivity Increase of Major Crops



VII- Strategic interventions

- Induction of improved variety: *Short duration Paddy like Sahabhagi, GB1 , PDM 539 for Green Gram, Subrata for Lentil , Sarada for Black Gram , K-6 for Groundnut etc.*
- Seed treatment: *with fungicides & with Nitrogen fixing bacteria Rhizobium culture for all Pulses & Groundnut*
- Timely sowing
- Recommended spacing : *for optimum plant population per unit area*
- Optimum seeding density: *for healthy seedling*
- Recommended doses of fertilizer : *INM*
- Selective farm mechanization : *using Drum seeder for direct soeing , Paddy transplanter, Paddy reaper, Weeder, etc.*

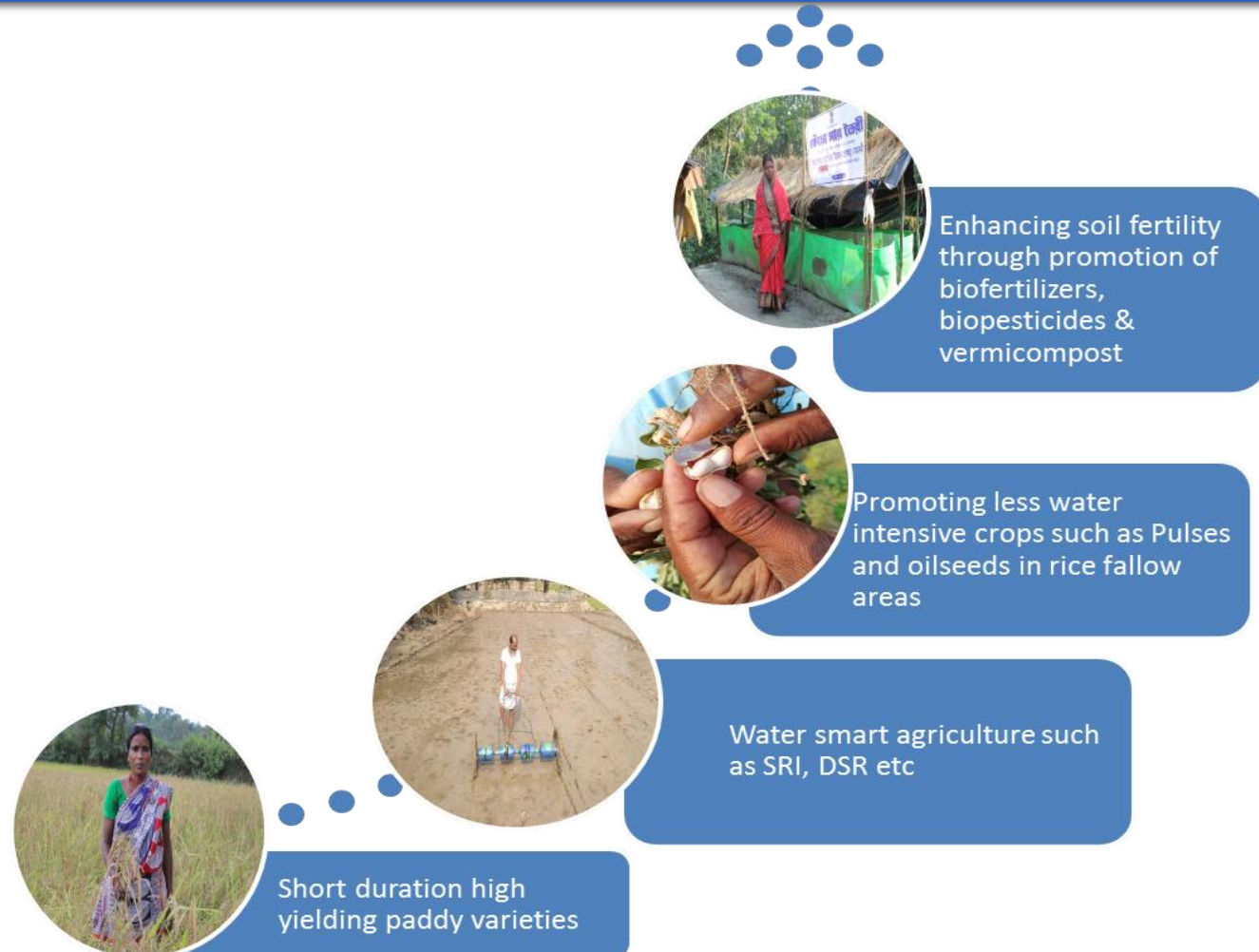


*Introduction of agriculture
machineries reduced cost &
drudgery - Motorized Paddy
weeder one among others*

Drum Seeder



VIII. Climate Smart Agriculture



IX-Major challenges

- Surface irrigation structure (WDS,CD,SFMIS) comparatively covering less designed command area. vis-a –vis sub-surface water schemes (TW,PDW & RLI)
- As per IWMI report surface irrigation structure are less efficient in covering designed command area; CD -26.9 % gap, WDS -34.2% gap, & SFMIS-51% gap than designed command area
- Centralised irrigation system (lifting device & distribution system) for surface irrigation structures (CD,WDS,SFMIS)
- Water demand based management system for various major crops
- Market linkage
- Shift from Paddy to Pulses, Oilseeds , Maize & Vegetables
- Field level extension network
- Proper orientation of farmers & project personnel

X. Planning for the future

- Developing model for efficient water management ,water demand management system & techniques
- Training & orientation of Agriculture Specialist , Agriculture Field Assistants/CWs/CSPs/SO/SP
- Targeted approach for grounding the water management & water demand management system (each AFA-5 WUA)
- Increase in coverage of Pulses and Oilseed
- Targeted increase in SRI coverage
- Targeted approach for Seed treatment, Seed preservation, INM & IPM (7 WUAs for each AFA)
- Efficient use of farm implements/ popularising selective use of machineries in farming
- Coverage of 15000 farmers with mobile based crop advisory service along with zone wise weather information system
- More convergence with line Departments for Pradhan Mantri Krishi Sinchai Yojana ,ATMA with Agriculture Department
- Market linkages

Intercropping with Groundnut in Orchard

Black Gram –Line sown



Water Management through partitioning



110 day Hybrid Paddy (Narmada)



BLACK GRAM SEED TREATMENT WITH RHIZOBIUM CULTURE



SRI vs NON-SRI PANICLES

SRI PANICLES



NON-SRI PANICLES



LOW COST SEED PRESERVATION



Mobile based advisory services to 10000 farmers



THANK YOU

