



Agriculture and Water Resources



Presentation by District Collectors



Objectives of the exercise

**Doubling
Farmers Income**

Innovations

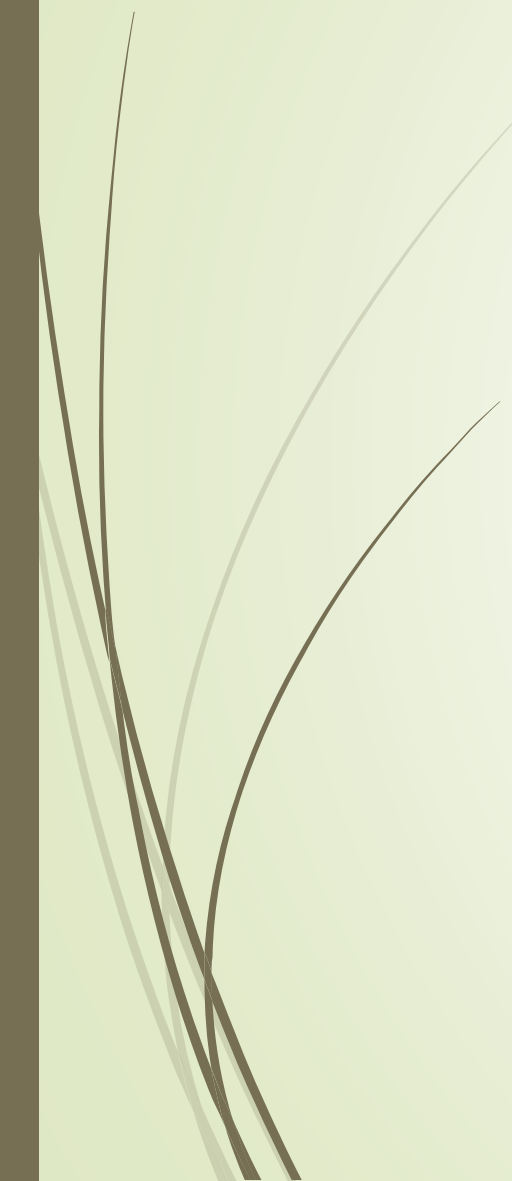
**Leveraging
Technology**

Mass Movement

**Per Drop, More
Crop**



Issue: High input costs

- Costs of seeds, fertilizers, and pre-sowing preparation/labour cost
 - **Solution:** Direct Benefit Transfer of subsidies to farmers
 - **Best Practice:** Telangana, Uttar Pradesh
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Issue: Adverse Soil Health

- Inefficient use of chemical fertilizers; lack of extension of latest organic farming techniques, high subsidy on Nitrogenous fertilizers
- ***Solution:***
 - Customised recommendations based on Soil Health Cards (Micro area approach) by trained local soil health experts
 - Promotion of organic farming on one village, one crop basis (as being done in SIKKIM)
 - Incentive for soil enriching crops and residue management
 - Subsidy on organic fertilizers by Direct Benefit Transfer



Issue: Poor credit linkage and insurance

- Scale of financing not commensurate with the requirement; non availability of branches and poor priority sector lending; cumbersome documentation and processes
- ***Solution:***
 - Efficient NPA management policy
 - Automatic Weather based insurance claim with automatic payouts in place of CCE under PMFBY
 - Extensive use of Remote Sensing Technology
 - Empowering District Collectors to enforce the decisions taken in DLCC



Issue : Inefficient use of irrigation water

- Over-Exploitation of water resources, lack of protective irrigation, inadequate conservation and preservation of soil moisture content
- **Solution:**
 - Micro-Irrigation, subsidy to cluster/FPO/co-operatives
 - mandatory roof-water harvesting and recharging/reviving old water bodies/aquifers/farm ponds
 - ensuring timely completion of ongoing irrigation projects under PMKSY
- **Best Practice:** Jal Yukt Shivaar in Maharashtra



Issue: Weak Extension Services

- Lack of timely advisories due to lack of manpower in field, poor awareness/trainings to the farmers, real-time database management
- ***Solution:***
 - Put in place performance based incentives to extension workers on line of ASHAs
 - Strengthening of KVKs and more such institutions
 - integrated mobile app at district level for monitoring of performance



Issue: Post Harvest Management

- Price discovery failure, fluctuating prices(MSP), cartelization
- **Solution:**
 - Pan India e-NAM
 - Price assurance to farmers by timely procurement by districts
 - Creation of better storage & value chain management by PPP
 - Technology intervention in assaying/grading as developed by IITs
 - Marketing of farm products by FPOs like Sahyadri in Nashik and in West Sikkim for exports



Issue: Technology and mechanisation

- Low mechanisation hindering productivity & profits

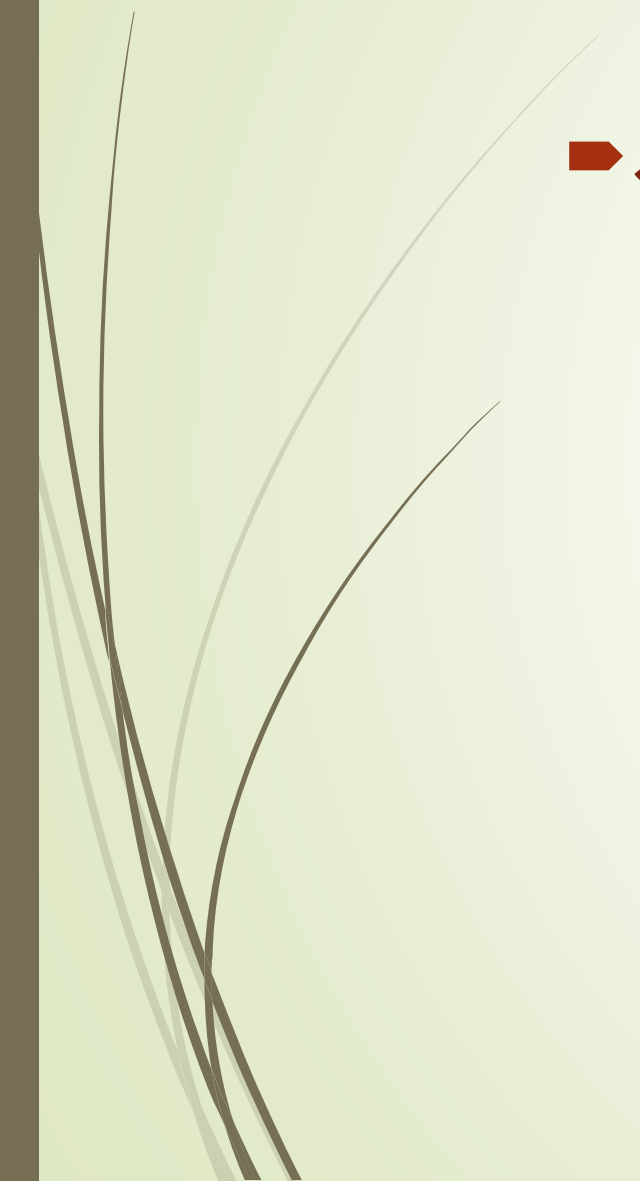
- ***Solution:***

- Promotion of Group farming/Cooperative farming/FPOs/Contract Farming by incentivizing them
- Promotion of customized small farm machineries
- Promotion of Agripreneurs and Agriculture incubation centers



Issue: Cropping Patterns

➤ ***Solution:***

- Paradigm shift in cropping practices – multiple cropping, inter-cropping, climate resilient crops promotion
 - Adoption of area specific allied activities/diversification such as Horticulture, Dairy Farming, Fisheries, Sericulture, Bee-keeping, cash crops
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THANK YOU