



Precision Agriculture

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Overview

- Indian Agriculture-Issues & Challenges
- Definition & Need for Precision Agri (PA)
- Components of Trimble PA
- Challenges / Issues towards its Implementation
- Conclusion

Indian Agri – At Crossroads

- Increased Land degradation
- Soil/Wind/Chemical related environmental issues
- Depletion of Water resources.
- Urbanisation
- Reduced Labour force
- Increased Mechanisation
- But Low Skill levels & Literacy

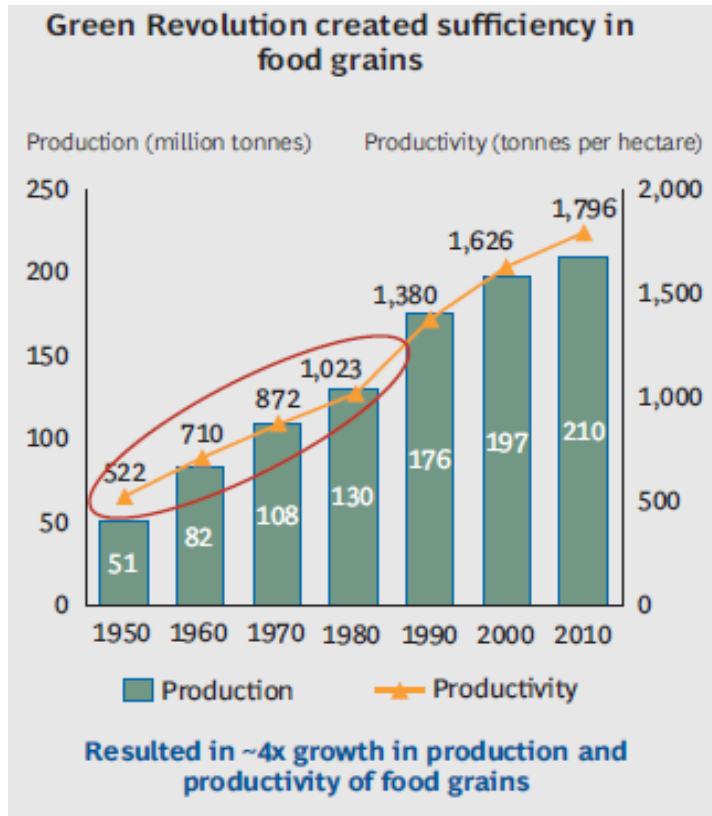
The Worried lot



Looking for a Solution...



The Need of the Hour is...PA

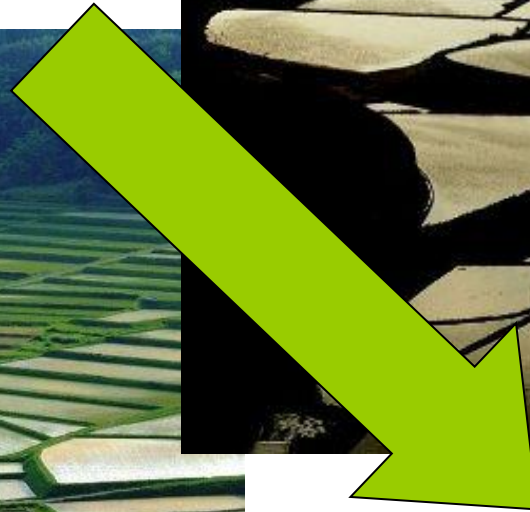


**Mechanization
& Precision
Agriculture**

**Ever Green
Revolution**

Precision Agriculture?

Treating small units within same field. Record variations in crop or soil properties to take management decisions.

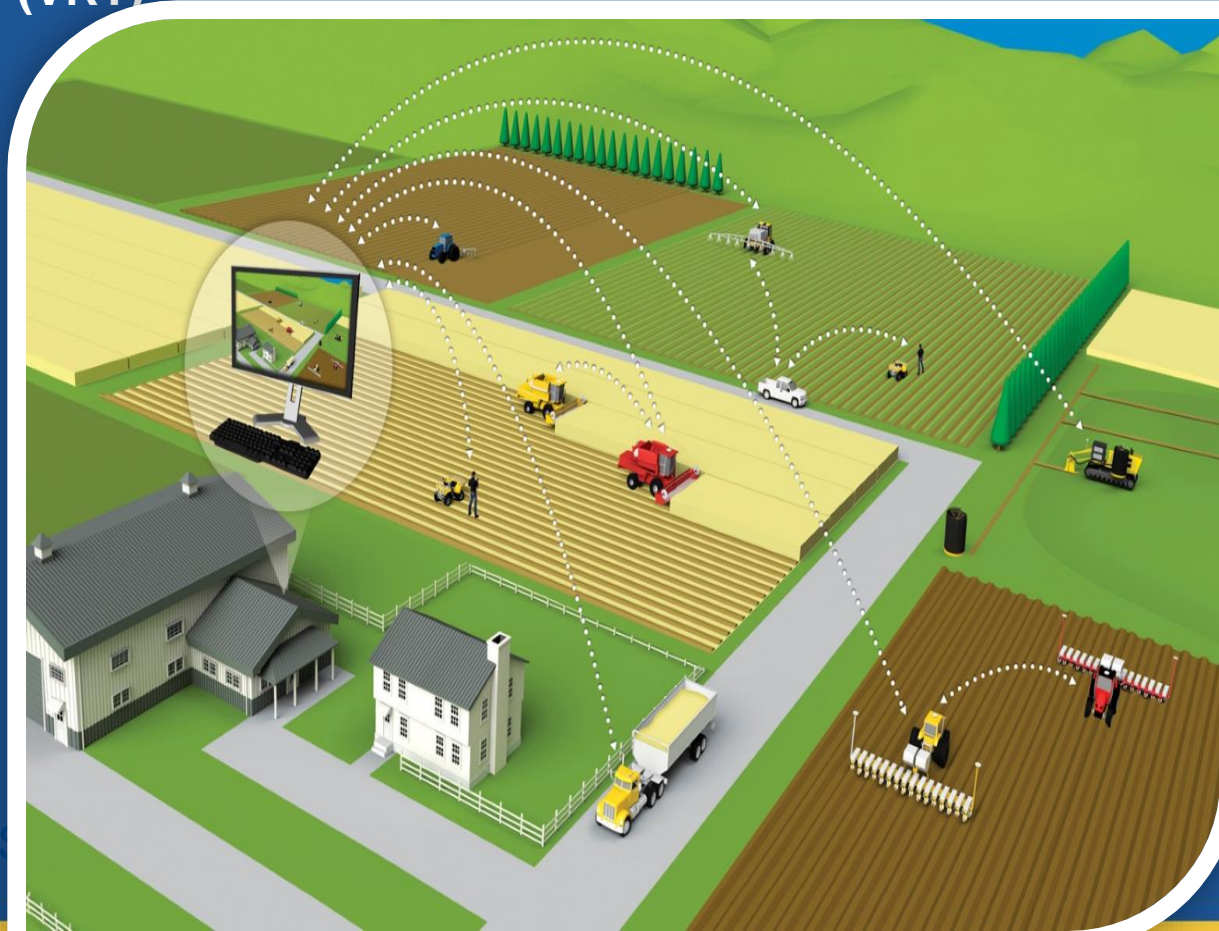


- Right Input
- Right Quantity
- Right Time

Trimble Precision Agriculture

Components of PA – CONNECTED FARM

- Geographic Information Systems (GIS)
- Global Positioning Systems (GNSS)
- Variable Rate Technology (VRT)
- Yield Monitor
- Remote Sensing etc.
- Connectivity

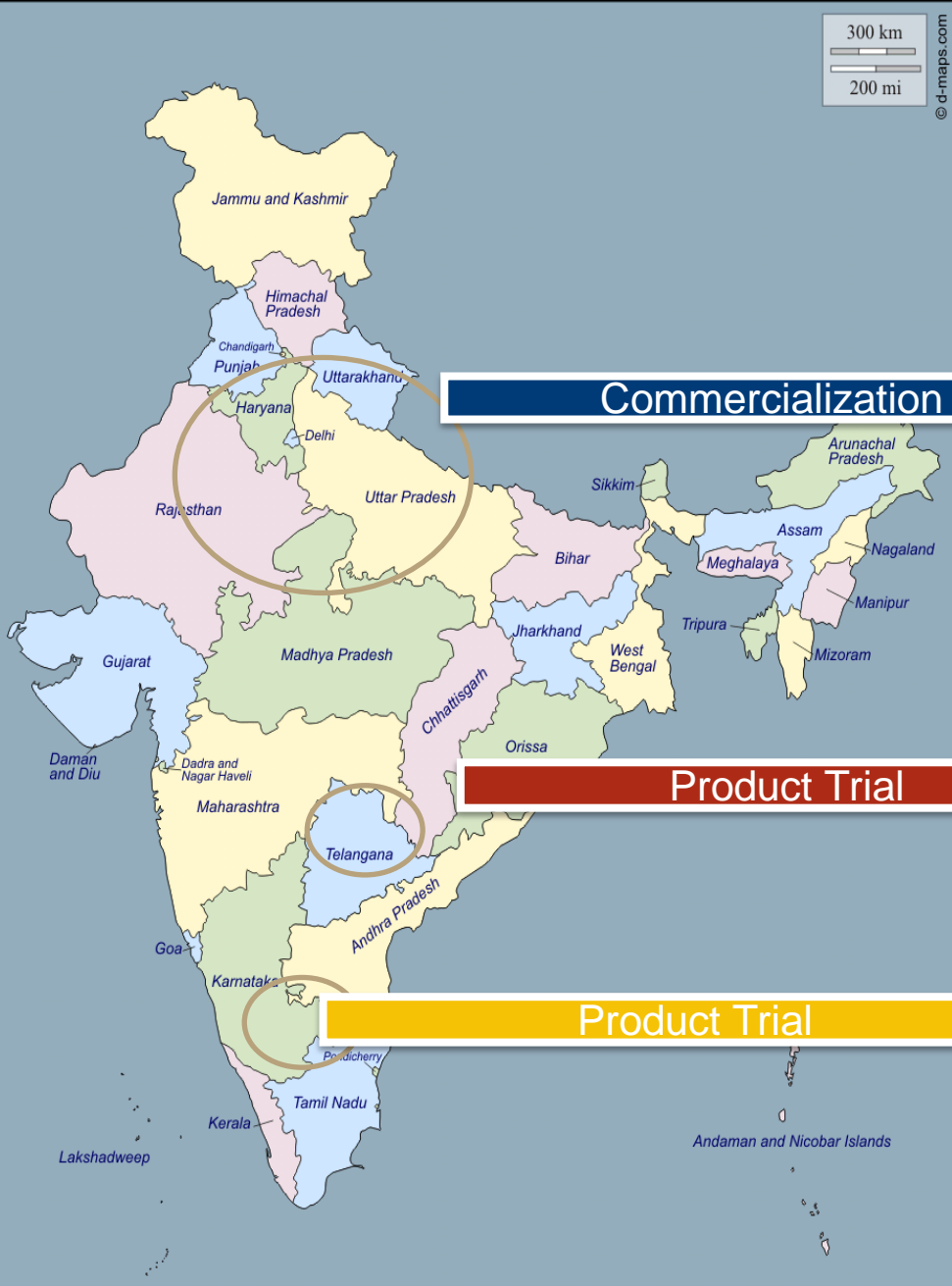


Challenges / Issues towards Implementation of PA

- Lack of Technical Expertise knowledge & Technology
 - Small land holdings
 - High - cost technology of PA systems
 - Internet Access
 - Low Literacy
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- **KEY is LOCALISATION**



Crop/Geography using Precision Ag



Commercialization



Laser Levelers

Product Trial



Product Trial

Guidance & Display



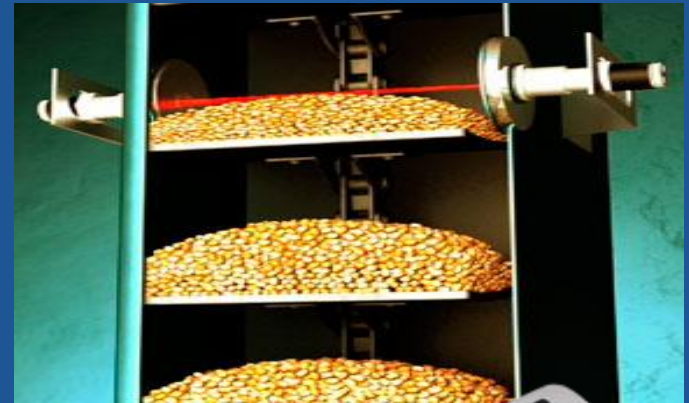
Soil Information System

PA-Key Benefits Govt. of India

- Trimble Soil Info System :- Soil Health Card for all farmers



- Trimble Yield Monitor :- Crop yield monitoring and Crop planning



- Trimble Green Seeker :- Decision on Fertilizer Subsidy



Conclusion

- Precision Farming will help farmers produce more with less – less land, less water, less chemicals!
- The PF will trigger a techno-green revolution in India which is the need of the hour.