

Smart Tech in Future Indian Agriculture.

Six data slides Only.

Smart Tech in Future Indian Agriculture.

Looking back

Focus

- Agri Productivity only

Focus

- Agri Productivity

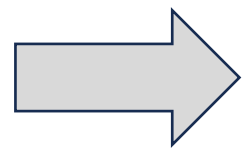
Concern

- Sustainability & Future

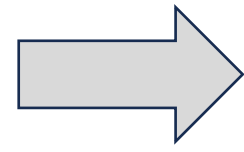
Focus

- Sustainable Agriculture
- Waste reduction
- Environment protection
- Value addition
- Technology as the enabler

1950 – 1980 Post independence



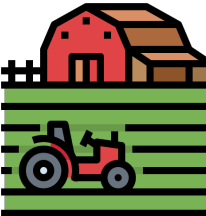
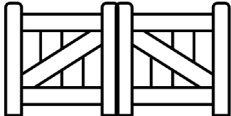

1980 – 2010 Immediate Past



2010 – & After >>>>>>>>>>

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- Focus
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<p>At the Farm (inputs)</p> 	<ul style="list-style-type: none"> • Seeds • Power & • Pesticide 	<ul style="list-style-type: none"> • Water • Soil • Fertilizer
<p>Farm gate & Beyond (preservation)</p> 	<ul style="list-style-type: none"> • Storage, • Aggregation • Transportation 	<ul style="list-style-type: none"> • Sorting , Grading • Market linkage • Future trading
<p>Logistic to market.</p> 	<ul style="list-style-type: none"> • Market Pricing • Traceability 	<ul style="list-style-type: none"> • Market connect • Response / Legal

2015 – & After >>>>>

Technology cuts across all these

Farming as example also true for Animal Husbandry, Fishery Etc.

Smart Tech in Future Indian Agriculture.

- Focus
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 - Value addition
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- Seeds
- Power
- Pesticide
- Water
- Soil
- Fertilizer

- Precision Agriculture
 - Sensors
 - Robotics
 - Drones & Nozzle Designs
 - Photometry, Spectrometry, Infrared
 - AI / MI
 - DATA to Solutions
 - Swarm Technology
- Agronomic study redefined.

2020 – & After >>>>>

Technology cuts across all these






Application of Knowledge – Change in Syllabi

Smart Tech in Future Indian Agriculture.

Focus

- Sustainable Agriculture
- Waste reduction
- Environment protection
- Value addition
- Technology as the enabler

- Storage
- Aggregation
- Transportation
- Sorting
- Grading
- Market linkage
- Future trading

- Preservation & Value add
 - Identification with AI 
 - Sensors 
 - Mechanics / kinematics 
 - DATA storage & Fast retrieval 
 - Monetizing Commodity
- Logistics
 - Hub & spoke – Farm Head till Market 
 - Block Chain 
 - Traceability 

2020 – & After >>>>>

Technology cuts across all these

Farmer / End User as two pivots

Smart Tech in Future Indian Agriculture.

Focus

- Sustainable Agriculture
- Waste reduction
- Environment protection
- Value addition
- Technology as the enabler

- Market Pricing
- Traceability
- Market Connect
- Legality
- Response time

- Big Data
- Block Chain
- A 'SWIFT' for Agri
- AI / MI based decisions
- Robotic solutions in IT
- Doing to overseeing
- Processing – Hub and Spoke
- Branding and TOM recall
- Free Trade
- Breaking Barriers
- Optimized Logistics



2020 – & After >>>>>

Technology cuts across all these

Market and Sustainability drives Production.

Smart Tech in Future Indian Agriculture.

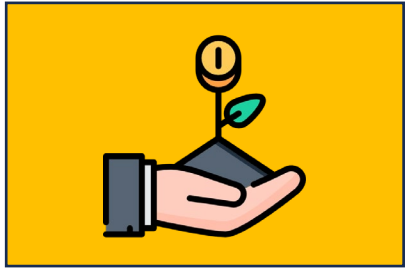
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 - Value addition
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GOI

Data, with data protection
 Bottom up - Village, District, State
 Land, Crop, etc. Real time.
 Data access for use.

Examples only



Startups
 Tech Cos

Interpretation of data
 Farmers specific solutions
 Prescriptions
 Usage fee model or >>>>>AGASS

Examples only



Farmers
 FPO's

Agronomic advice
 Pest and other solutions
 Sustainability
 Optimal use of inputs etc.

Examples only

2020 – & After >>>>>

Technology cuts across all these

Market and Sustainability drives Production.

Smart Tech in Future Indian Agriculture.

The End.