



AgriTek UDP – Doubling Farmers Income through DeepTech Platform



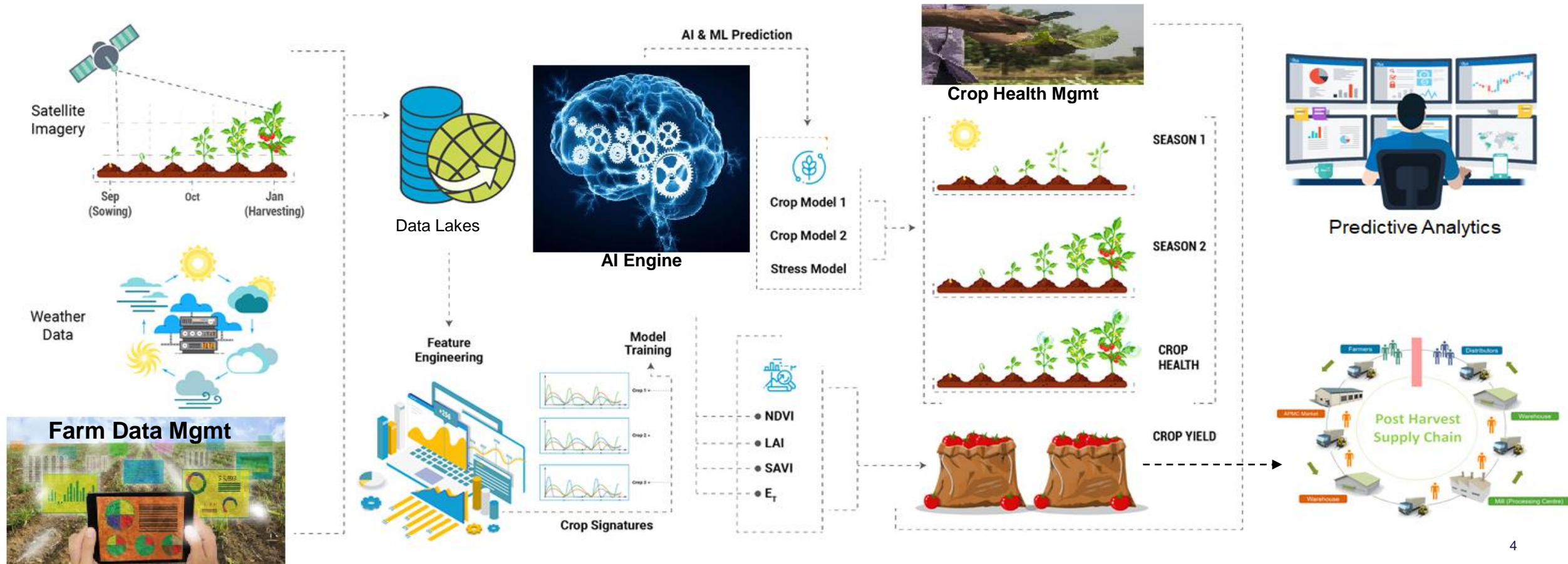
Proposed Solution

Digital Agritek Platform



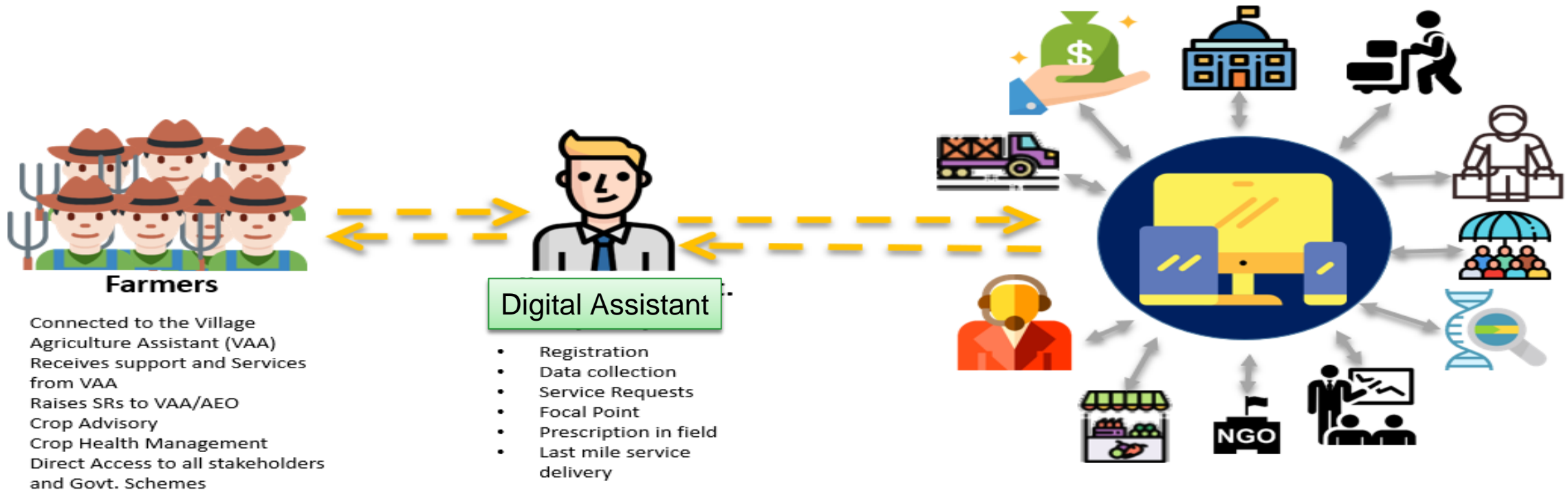
Agritek: Platform overview

Agritek Digital platform is built on the principles of Systems of engagement and innovation. All stakeholders across the sector access the same single source of truth which keeps building on the process driven data from soil preparation to produce marketing. It keeps on accumulating data from both fields, processes, frameworks, Good Agriculture Practices (GAP), Crop health management, Remote sensing, Weather and all other contextual data both from input sources and operational interventions thus amassing immense data analytics possibilities through the AI engine. This platform is capable of handling the complete post-harvest cycle to maximize the value realization based on demand driven predictive analytics. Comprehensive role-based decision dashboards helps the Authorities make right decisions based on right data in real-time.



Agritek: Operations overview

The mobile App of the DAs/Extension Staff provides context specific information based on the farmer, crop being grown, weather, soil condition and their geo-location. Digital Assistant (DA) App works in off-line mode also in order for the Extension Staff to be able to support the farmers during the field visits even if there is no internet connectivity and automatically synchronizes the data as soon as the network connectivity is available.



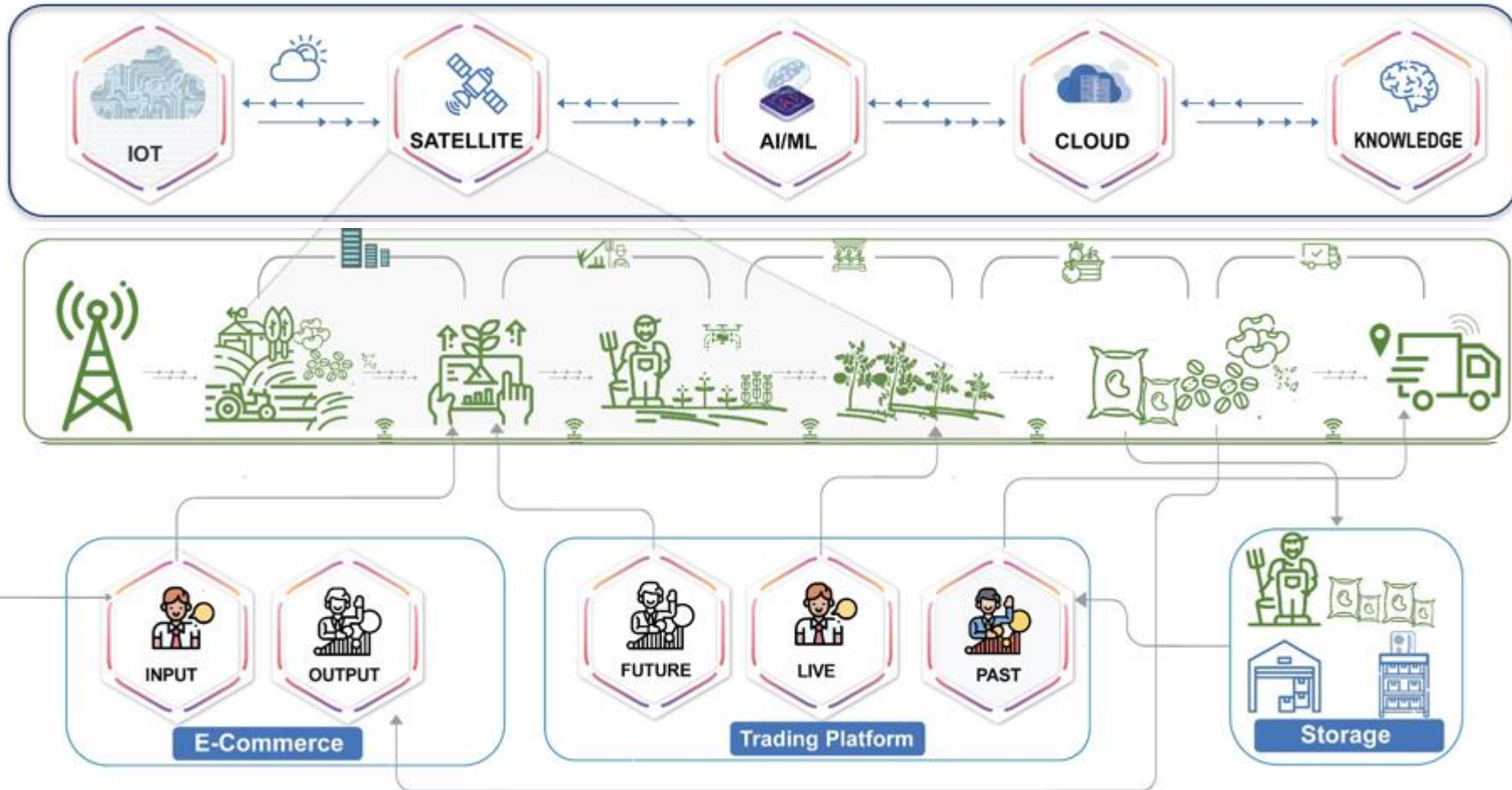

Agritek Digital Platform

The banner features a series of icons representing key platform features: a magnifying glass over a leaf (search), an information icon, a growing plant, a bar chart with a magnifying glass (data analysis), a checklist, a box labeled 'SLA', a box labeled 'RTG', a box labeled 'BEST PRACTICES', a chat bubble, a warning triangle, and a location pin.

AgriTek UDP - Landscape

Inputs

- R&D
- Bank
- Mandi
- Warehouse
- Insurance
- CHC
- Input suppliers



Doubling Farmers Income



Doubling Farm Income - 360° approach



Crop Planning

- Demand sourcing – Global & Local
- Demand-driven cultivation
- Input planning – Seeds, Agro-chemical, Credit
- Establish crop colonies
- Promote contract farming
- Create compelling proposition – “Seed-to-fork”
- Develop integrated Value Chain
- Quality Compulsions
- Develop Integrated Agribusiness Clusters

Crop Protection

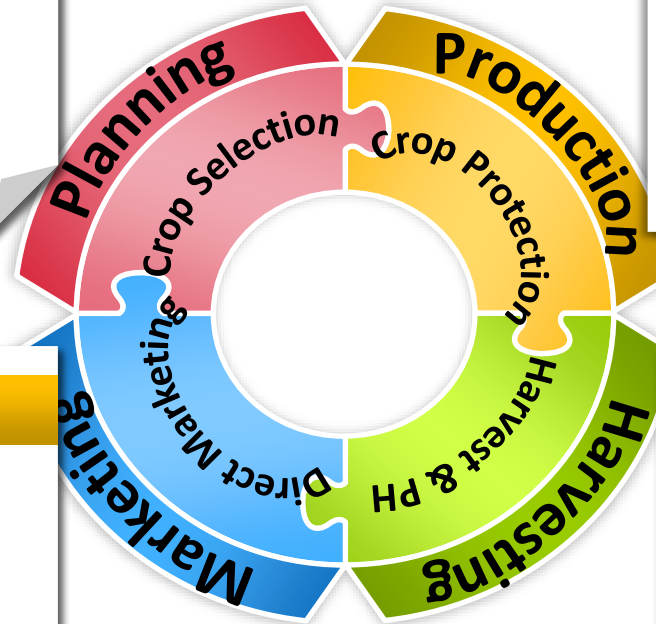
- Input selection & Quality of Inputs
- Farm data capture – On-field & Remote
- Context specific Crop advisory
- Uberization of CHCs
- Crop Health Management (Prescription-in-Field)
- Input Quality assessment – Lab & Field
- Credit Linkages & Insurance management
- Resource optimization - Precision & Smart Agri
- Disaster Management

Marketing

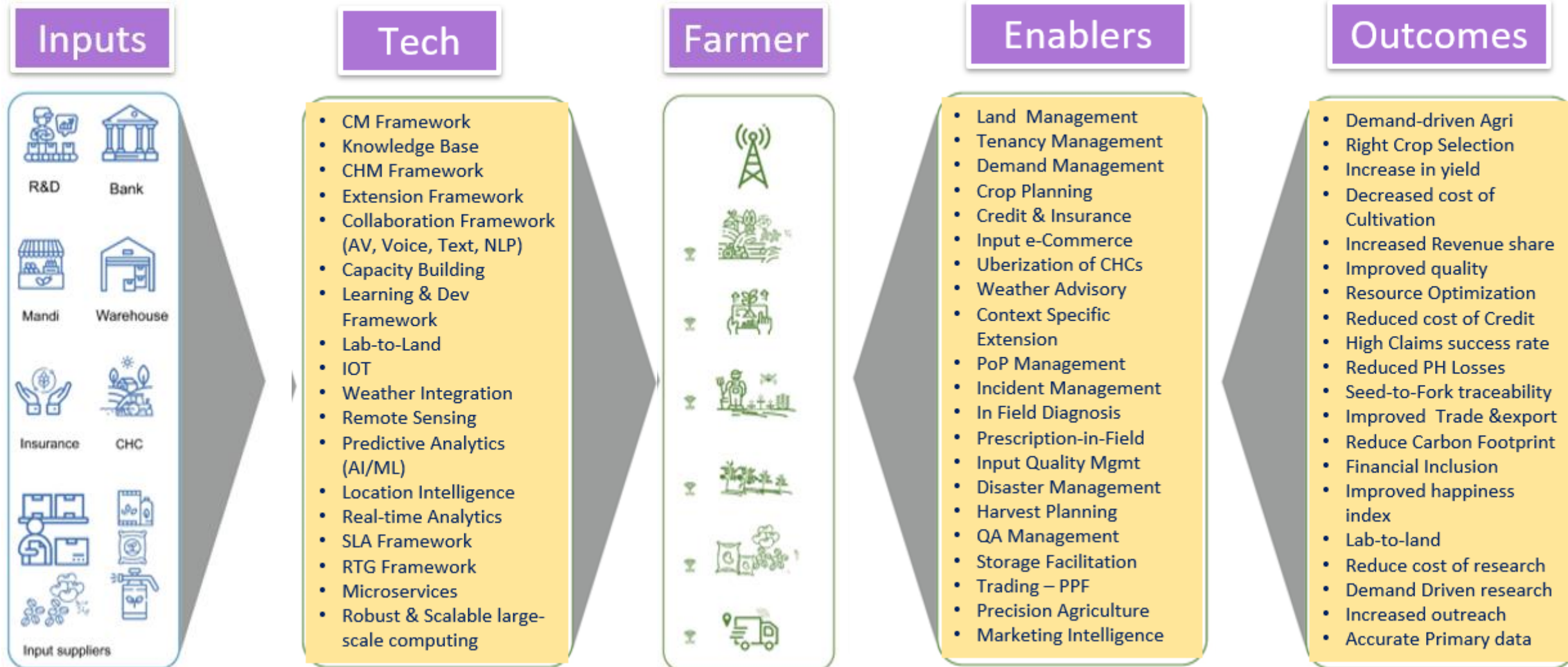
- Context specific market rates
- Direct Marketing
- Market Intelligence – Local and Global
- Demand Sourcing
- Matching Demand and Supply
- Demand fulfilment & Reconciliation
- On-line Trading – Bidding & Live Auctions
- 360° Marketing – Past, Present & Future
- Trade financing
- Trade Settlement

Harvesting

- Harvest Planning
- Decrease cost of harvesting - Uberization
- Farm gate Procurement
- Storage Facilitation – Warehouses & Cold Storage
- Warehouse Receipts Management Platform
- Credit & Insurance management
- Integrated Procurement Planning
- Logistics Management
- Reduce Post-harvest losses

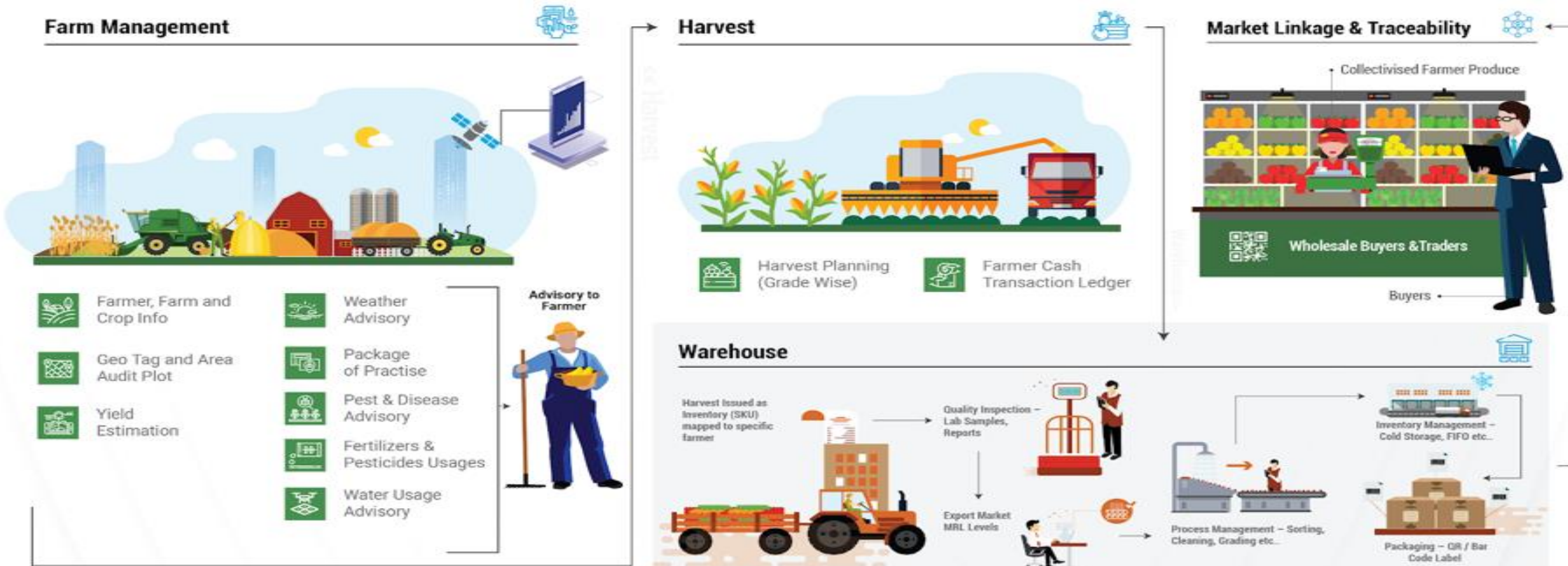


Towards Doubling Farm Income



USP - Seed to Fork Solutions

AgriTek Digital platform offers complete traceability of the produce from “Seed to Fork” with complete data on the full life cycle of all events and interventions. Integrated Crop health Management and prescription management helps enhance the food quality and food safety. Harvest and post-harvest management processes can be completely mapped and managed on the system seamlessly thus extending the platform to encompass the full 360 degree and there by harnessing enormous data points for comprehensive predictive and prescriptive analytics. This offers an unparalleled opportunity for the Government to turn around the Agriculture sector and to make it self sustainable.

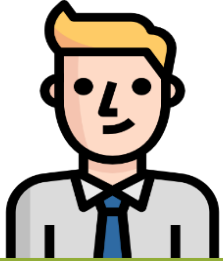


Agritek UDP – Summary of Key Features



- Complete and up-to-date database of Farmers in line with the National Farmer Registry
- Unified extension platform for seamless interaction of farmers with all stakeholders
- RTG and Administration of Field Operations management
- Context specific Good Agriculture Practices (GAP) Advisory to farmers delivered directly
- Disease diagnosis and “Prescription in the field” functionality
- Judicious use of Agrochemicals reduces cost of cultivation and environmental risk
- Crop Loans and Crop insurance can be effectively managed
- Subsidies, MSP interventions and other Govt initiatives can be directly communicated and delivered to farmers
- Uberization of Custom hiring centers reduces cost of cultivation and increases rural employment
- Context specific weather advisory delivered to the farmers directly
- Storage facility information and booking management
- Full “Line-of-Sight” to monitor input, actions and output (produce) – “Seed-to-Fork” ultimate USP
- Direct market access and real-time market data access to farmers and Trading management
- Centralized unified database of all Agriculture operations for real-time intelligent analytics
- Manage, Monitor, control and optimize - actions, inputs and output real time

Stakeholder Benefits



Village Agri Asst.(VAA)

- Effective and efficient service delivery
- Focal point for all Farmer interaction
- VAA Diary to maintain all day to day activities
- Unified platform for seamless data capture
- Minimal data entry
- Personal Development
- Farmers data and crop data at finger tips
- Access to context specific knowledge
- Task automation engine to guide performance
- Potential for self-actualization
- Conduct Surveys



Government

- Accurate primary data
- Employment generation
- Rural Development
- Improved Economy
- Increased Trade and Export
- Reduced carbon footprint
- Demand driven agriculture
- Reduced financial support burden
- Extended outreach
- Good governance
- Financial inclusion
- Rural Tourism
- Improved living conditions and happiness index
- Reduced stress on cities/towns
- Performance monitoring of all stakeholders



Farmers

- Increased farm yield
- Reduce cost
- Direct access to market
- Increased earnings
- Farm Economics
- Direct access to Govt, facilities, etc.
- Direct access to research
- Community development and support
- Better bargaining power
- Enhanced product value
- Equal opportunity platform



Input Suppliers

- Increased Market
- Reduce cost of Marketing
- Direct access to Customers
- Accurate Feedback
- Opportunity to develop close customer bonding
- Customer loyalty
- Control of counterfeit goods
- R&D support
- Showcasing opportunity
- Enhanced product value
- Direct CSR opportunity



Customers

- Quality produce
- Reduced cost of procurement
- Direct access to farmers
- Influence positive outcomes
- Opportunity to develop close bonding
- Farmer loyalty
- Proper and direct utilization possibilities of CSR providing extended benefits and reach
- Showcasing opportunity



R&D

- Direct access to field trials and extended trials
- Reduces cost of research
- Expedites adaption
- Demand Driven research possibilities
- Enables more with less
- Unbiased selection based on agro climatic suitability
- Instantaneous dissemination of research findings
- Immediate notification of UDMs and Epidemics

Thank you

