GOVERNANCE SOLUTIONS FOR AGRICULTURE

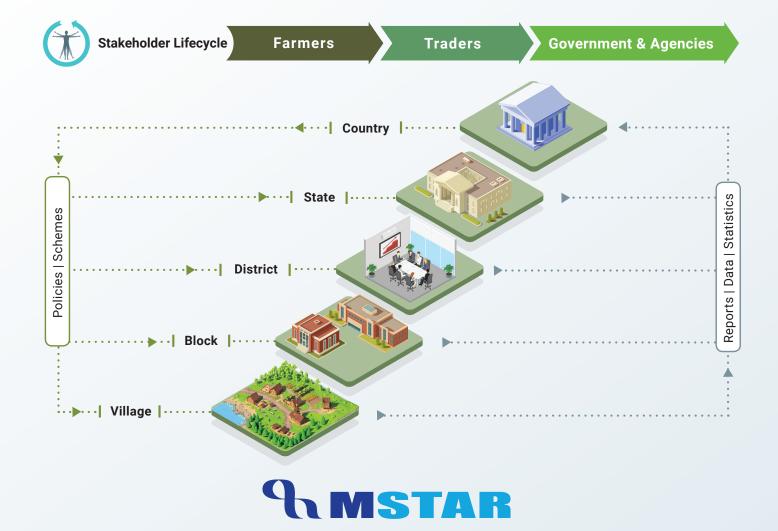
With advances in sciences - biotechnology, genetics, soil study, pest control, fertilizers, and machinery, agriculture and livestock food production increased dramatically in the 20th century to meet the global demand. Food scientists believe that next jump in food production and its supply chain will be enabled by the new technologies of Sensors, IoT, Drones, Big Data analytics, Machine to Machine learning and Block-chain

It is also important to connect the Agricultural Sector through E-Governance solutions which simply means using Information and Communication Technology (ICT) for delivering government services, exchange of information, electronic transactions, and integration of stand-alone systems to bring the agrarian community closer!



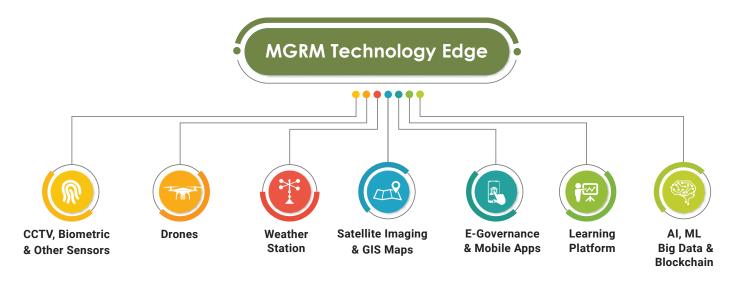
Multi-Completeness Solutions





APPLICATION & USES				
Precision Farming	Yield Prediction	Yield Monitoring	Produce Supply & Demand Management	Irrigation Management
Disease & Pest Management	E-Governance	Education,Awarness & Training	Seeds & Fertilizer	Waste Reduction & Management

... and more



Applications & Use Cases





Agriculture E-governance

- Farming training and awareness
- **Build farmer communities**
- Empowerment to farms
- Data consolidation & statistics
- Common framework acoss states
- Monitoring of government schemes
- Agricultural Informatics and Communication
- Improving access of farmers to information and services throughout crop-cycle



E-Learning

- Student Learning Management
- Live virtual classrooms
- Online courseware
- Focussed & interactive content
- Multimedia integration
- Competency based learning
- Online assessments
- Auto-Gradebook generation
- Learner's analysis





Harvesting & Markets

- Identify best time to harvest
- Yield measurement & Crop insurance
- Agriculture machinery resevervation
- Track transport location
- Track market prices with supply & demand analysis
- e-Mandi online marketplaces
- Warehouse management & security
- Food processing factories automation
- Control pilferage during transport and warehousing



- Integrated University Governance
- Standardisation of institutes' processes
- Management of processes & procedures
- Data digitization
- Scheduling of resources and time
- Tracking workflows
- Roles based secure access controls
- Real time data updates
- Reporting and Analysis



- Seed, fertilizer, pesticide selection & procurement
- Identify best crop based on analytics of soil, weather
- Soil health analysis using soil nutrient sensors
- Locate trouble spots in field with aerial images
- Spot spraying of pesticides
- Yield monitoring crop health status check
- Weather and yield prediction
- Irrigation supply & demand management
- Ground water availability using remote sensing
- Labour management





Livestock, Diary, Poultry Farms & Fisheries

- Health monitoring, behaviour analysis
- Prevention & treatment of diseases
- Livestock counting and tagging
- Feed management
- Waste management
- Climate control, salinity control
- Yield management: e.g., milk, eggs, meat, prawns, fish produce
- Track market prices with supply & demand analysis

Benefits

Farmers

Select crop, seeds,feeds as per market requirements and weather conditions

Avoid losses due to diseases, pesticides, bad weather and storage issues

Awareness on Government information for farmers e.g., crop insurance

Crop growth monitoring, yield prediction and actual measurements

Maximize yield based on technology input measurements

Traders

Monitor timely supply & demand to avoid wastage and storage costs

Ease of doing business by following Govt Policies

Focus on R&D in agrochemical and pesticides to maximize yield and healthy citizens

Bridge the farmers and end consumers by providing best prices to both

Avoid pilferage during transport & storage

Government & Agencies

National and regional yield monitoring, prediction and actuals measurement

Timely policies based on stakeholders feedback

Approvals of new agrochemicals, pesticides & seed varieties

National & regional announcements on subsidies and weather forecasts

Control hoarding and preferred markets

Life-Cycle Approach

Land Preparation

Seed Selection

Irrigation

Harvesting

Warehousing

Market













ONE WORLD, ONE SOLUTION



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