

# Supply Chain Agro Logistics Ecosystem (SCALE)



# Background



## FOOD WASTE IS A GLOBAL CHALLENGE

# 1.3 BILLION TONS

of edible food – equivalent to a third of global production of food wasted annually by the world. According to a report by the Food and Agriculture Organization of the United Nations, which is enough to feed 3 billion people, and the value of this wasted amount of food is about 680 billion dollars.

Agriculture value chain stake holder such as farmers, distributors, sales outlets and food processing companies are facing a major challenge due to lack of digitalized supply chain management with accurate, comprehensive time timely insights of post-harvest, causing:



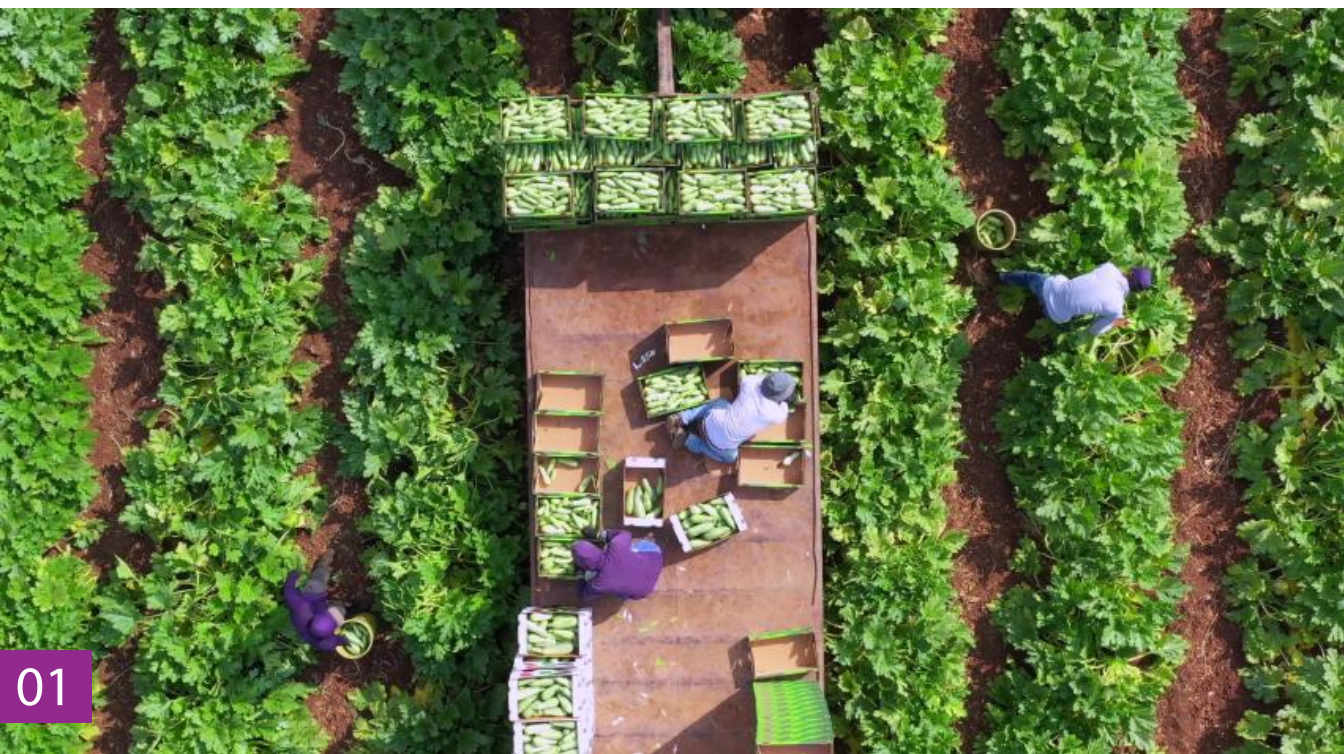
Wastage of Crops



Food Scarcities



Price Fluctuations

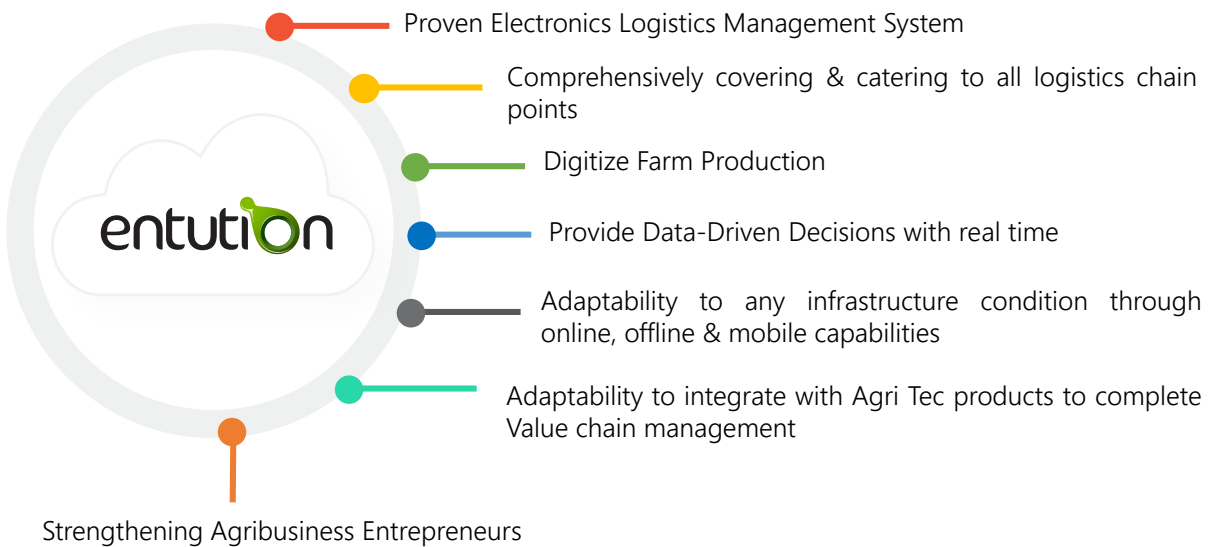


# SCALE

## ( Supply Chain Agro Logistics Ecosystem )

**Entution SCALE** can ease agricultural supply chain management by automating entire operational processes seamlessly, connecting Farmers, Field officers, distribution, and decision support systems.

The system is built on the Entution platform leveraging the innovative architecture and state of the art technology. Embedded with features such as procurement management, Inventory & Warehouse Management, Asset Management, Fleet management, workflow approval & task management and BI decision support system for authorities to take necessary decisions in advance and secure sustainable and efficient supply chain.



Reduce Excess Supplies



Avoid Stock Outages



Minimize Price Fluctuations

# Strengthening Agricultural Supply Chain

**Entution SCALE** is a fully-fledged digitized agricultural logistics management information system built on a unique architecture using state of the art technologies. The system will cover all the aspects of the agricultural value chain management, including crop management, field visits and scheduling crop cycles, logistics management and decision support system.





# Strengthening Supply Chain Ecosystem



Farmers



Field Officer



Procurement

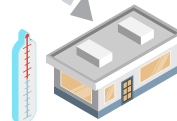


Buyer

Collection Center



Regional Stores



Cold Storage



Inventory Management



Fleet Management



Asset Management



# Farmer Empowerment

Facilitating to manage national level farming programs to meet food demand and supply on agricultural products.

- ✓ Facilitates farmers to register their farming crop detail and capacities
- ✓ Analytics on food demand & support to right product to harvest in right quantities
- ✓ Connection with field officer and support to best product to harvest
- ✓ Provides analytics on post harvesting information and pricing pattern

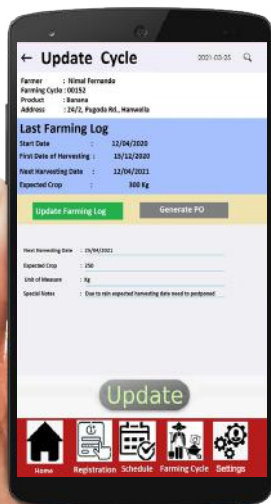


# Field Officer Enablement

- ✓ Scheduling field officer visits and update crop status
- ✓ Update field officer visits and update farming cycle
- ✓ Provides historical farming records and demand pattern
- ✓ Route planning and event calendar

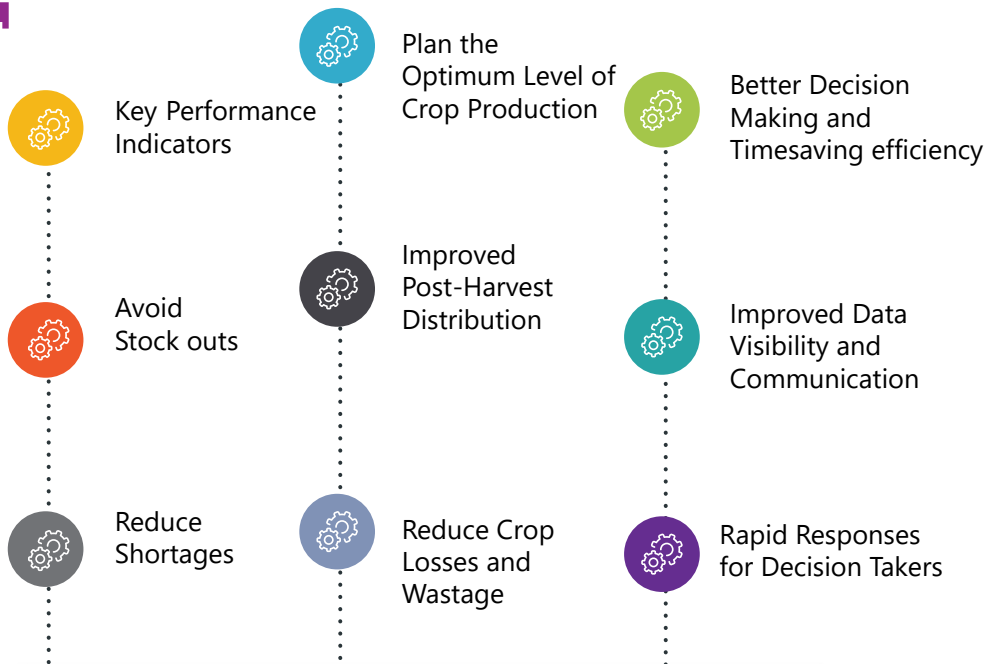


Field Officer



# Decision Support System

**Entution SCALE** comprehensively delivers decision driven analytical information by comparing the farmer's farming cycle and the buyer's periodical demand, which synchronizes demand and supply of the harvest without shortage or waste of production.





# Logistics Management

**Entution SCALE** fully supports the six logistics rights that can streamline crop production distribution by automating the entire value chain management process, from analyzing the optimum quantities required for the targeted market.

The system supports procuring and distributing crop production across many supply chain points with remote temperature monitoring devices. The solution further strengthens the supply chain by providing warehouse management, inventory management, asset management, and fleet management to ensure the best utilization of crop production.



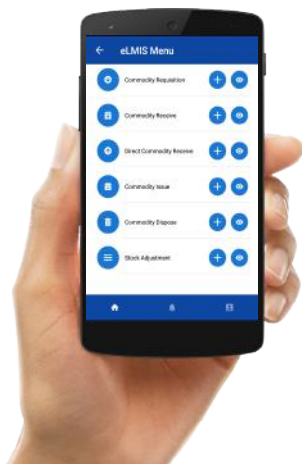
# SCALE Core Applications

**Entution SCALE** is a fully-fledged solution that caters to all the relevant supply chain points covering, Central, Regional and Remote Supply Chain points. The cloud-based online application is deployed at the sites with proper infrastructure and internet connectivity. The solution stack also includes offline desktop Apps to cater areas with poor infrastructure and internet connectivity to ensure uninterrupted operations. The state of art Mobile Application is designed purely for farming operations, ensuring mobility, accessibility and availability.

## Online



- ✓ Cloud Based Solution with extensive functionalities
- ✓ Real time data synchronizations and validations.
- ✓ Best suit for the sites / locations with proper infrastructure and internet connectivity.
- ✓ Mainly supports central and regional level supply chain operations.

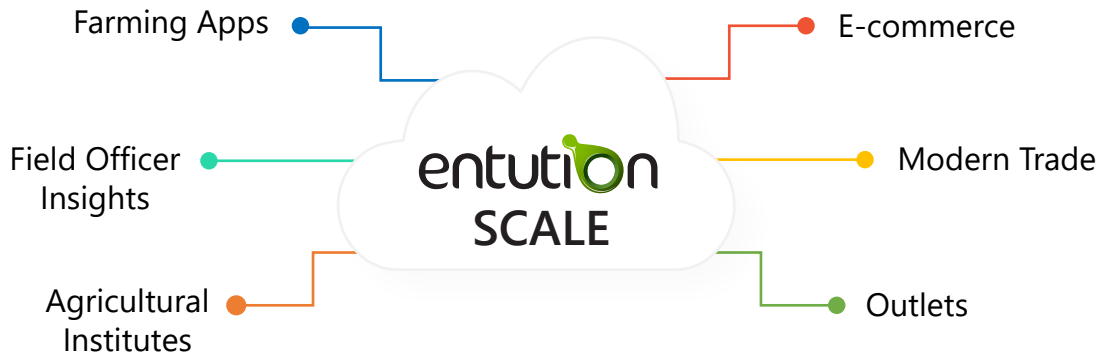


## Mobile

Mobile application is a subset of the offline application. This can be used at the Health Centre / Health Posts level. Application can work with interrupted internet connectivity and synchronize data based on the internet availability.


# Interoperability

## Seed to Plate





### CROP MANAGEMENT

- Farming Capacity
- Crop Cycle Monitoring
- Field Officer Visit Scheduling




### INVENTORY & WAREHOUSE

- Batch, Lot, Expiry date, Manufacture Date, Manufacturer records
- VVM stage Management
- Integration with RTM devices for temperature monitoring.




### DISTRIBUTION

- Delivery Pickup throughout the supply chain networks
- Manage Reorder level QC procedures and batch recall facilities
- Adaptable workflows & Journeys based on the business operation



### PROCUREMENT

- Procurement and inbounding of commodities
- Farmer Management
- Farmer Contract Management



### DECISION SUPPORT SYSTEM

- Demand & Supply forecasting with pipeline management
- Interactive business intelligence dashboards
- Different reports covering all the modules
- Actionable Notification



# Solution Recognitions

**Entution SCALE** is built on the well renowned Entution platform, rated as one of the best solutions for logistics management in health commodities, effectively transformed and utilized to enable agricultural post-harvest supply chain management.

Bileeta's flagship solution Entution Vesta eLMIS, also built on the Entution technology platform, is recognized as the most compliant eLMIS solution among all the leading eLMIS solutions globally with the full stack of features. Those inherent features seamlessly support the value generation of SCALE to support the communities across the nations.



## Entution Platform Recognitions



Contributed to the development of ICT. The competition for the above award is among 150+ other IT companies under the stringent judgment of highly skilled professionals from the IT fraternity.

- 2011 - Silver Award E- Logistics & SCM 12th NBQSA
- 2014 - OVERALL WINNER 16th National Best Quality Software Awards (NBQSA)
- 2014 - WINNERE-Logistics & Supply Chain Management 16th NBQSA
- 2014 - ICT Entrepreneur of the year 17th NBQSA
- 2015 - Emerging Entrepreneur Asia Pacific Entrepreneurship Awards
- 2016 - Winner E-Business and Commerce e-Swabhimani
- 2016 - Peoples Leader - ICT People Leaders Award
- 2017 - Winner Pharmacy Informatics Commonwealth Digital Health Conference & Awards
- 2017 - Winner Health & Wellbeing NBQSA
- 2017 - Winner In house Application NBQSA
- 2020 - Winner Citizen Services & Digital Government in Public Sector & Government Category
- 2020 - The Most Outstanding ICT Innovation Addressing National Calamities

# Ready to Deploy

**Entution SCALE** is ready to engage in both developed & developing countries with minimal configuration, structured training sessions, video and user manuals. The unique architecture of the Entution platform allows accommodating complex user requirements and localization, improving user acceptance of the solution. Based on our proven fully automated, semi-automated and manual implementation model. Bileeta is capable of carrying out the implementation and ensure the long-term sustainability of the solution via local capacity building.

One of the critical reasons for the successful track record is the experience of Bileeta's team in conceptualizing and deploying state of the art solutions that are easy to adopt, use and sustain. The subject matter experts are highly experienced and proficient in the supply chain management industry and deploying software solutions in various geographies. The technology team is a power-packed unit of masters in specific areas of technological expertise. They are bound to the ever-changing trends in information systems solutions and create cutting-edge solutions that harness the power of tomorrow's technology for today.





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