

# Entution Vesta Vaccine Information Management System (VIMS)

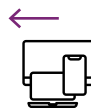
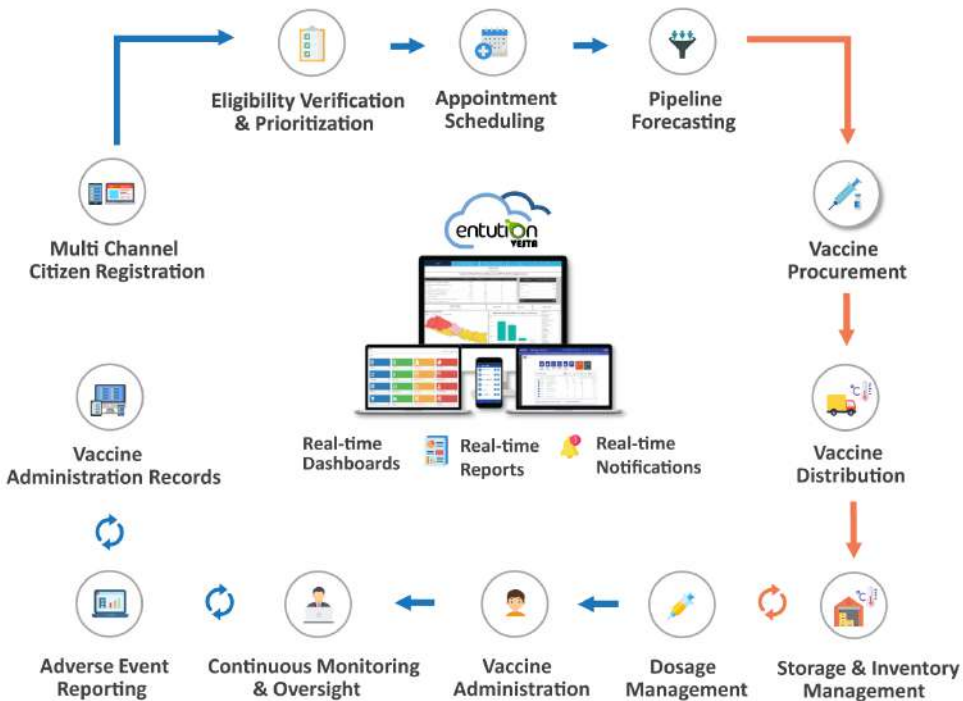


# Entution Vesta VIMS



**Entution Vesta VIMS** is a Vaccine Information Management System that digitizes the entire life cycle of immunization through vaccination in the public health sphere. The platform addresses the silos that exist in disparate institutions in both state and privately run healthcare systems and brings together all key information required for critical decision making. This is essential for smooth operation of a mass vaccination drive covering the entire population.

Core functionalities such as citizen registration, appointment scheduling, vaccine administration, vaccine logistics management and actionable intelligent reporting enabling vaccination drives to be carried out smoothly in a near paperless environment will ensure a vaccinated safe society with high public confidence in health authorities.



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● Citizen Registration ● Logistics Management

# Collaborating to Help Mankind



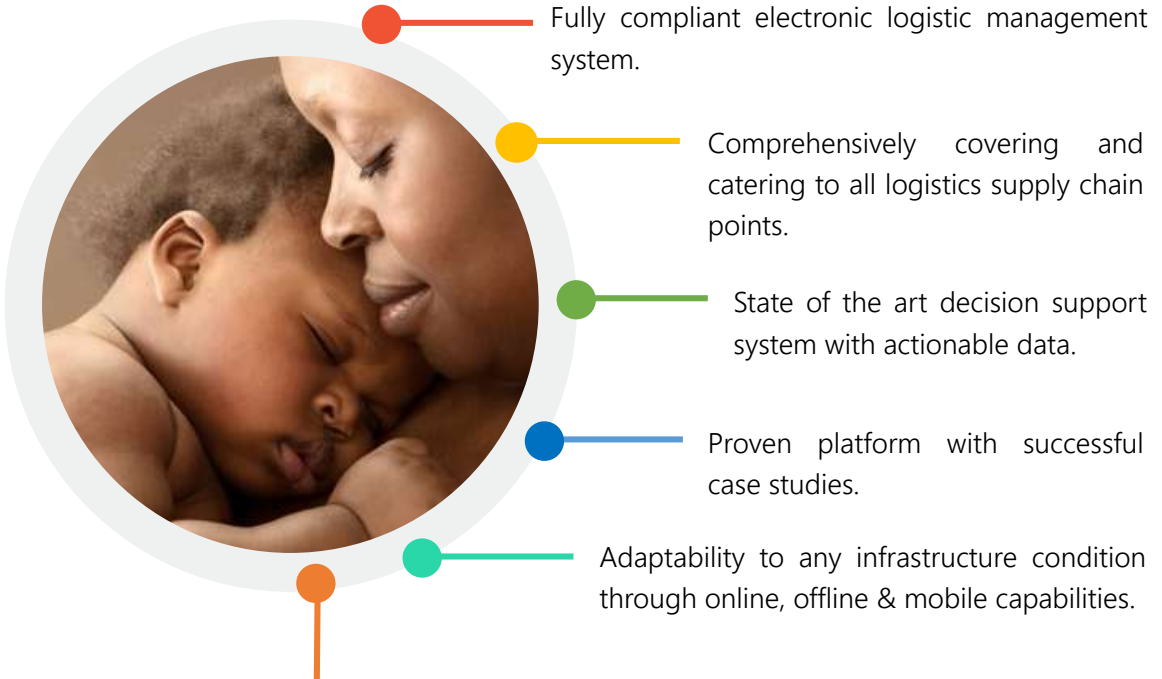
**USAID**  
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**The Global Fund**  
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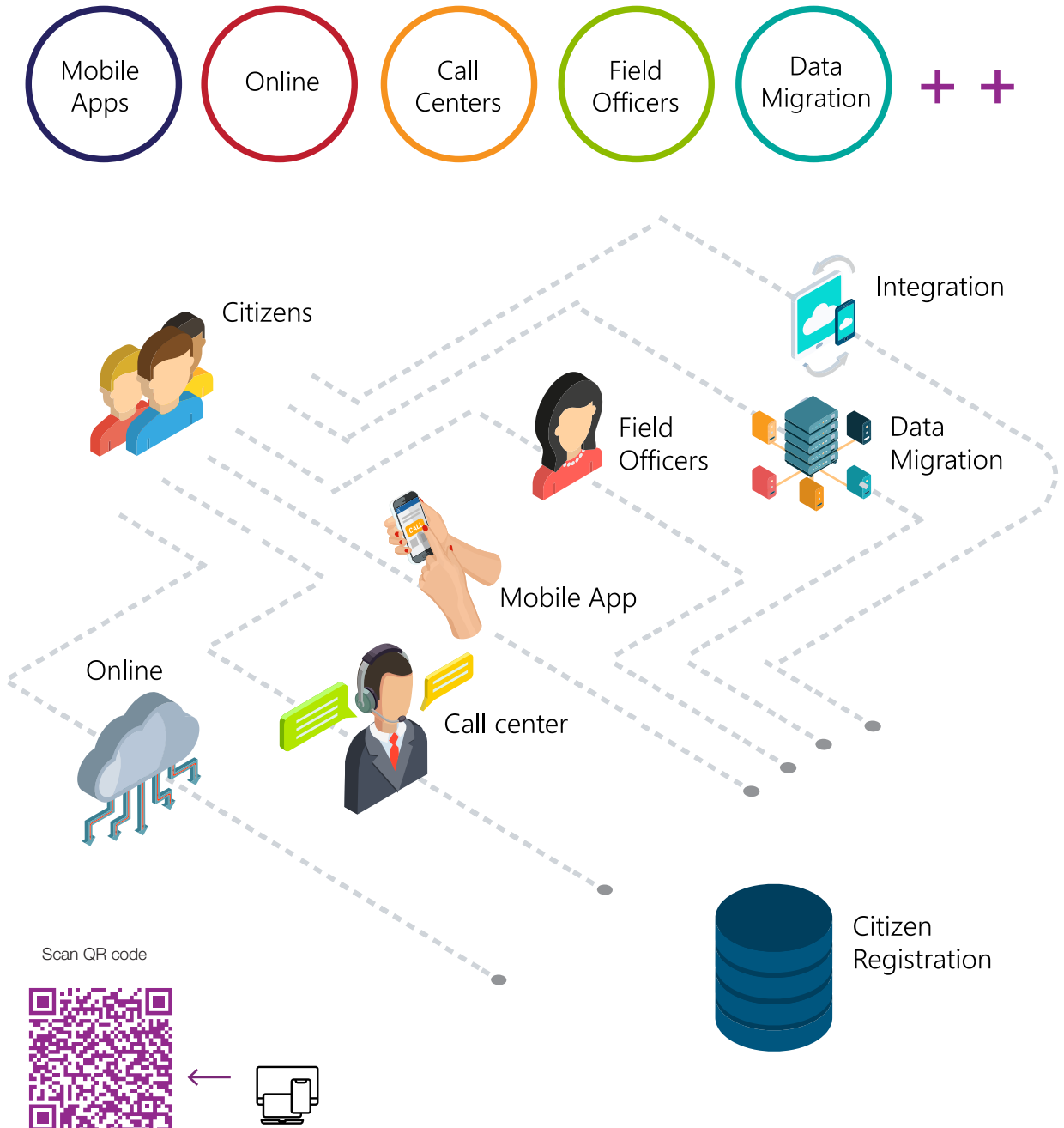
**Chemonics**  
Development works here.



Successful solution deployments aligning with globally accepted implementation practices.

# Citizen Registration

Entution Vesta VIMS facilitates general public to enroll in vaccination programs through multiple channels at their own convenience.



## Citizen Registration via **Web**



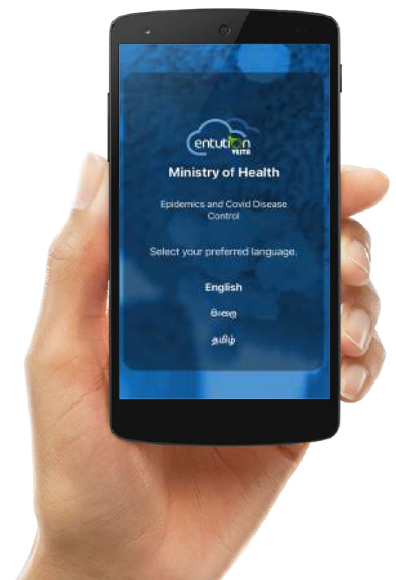
- ✓ Facilitates the general public to register for the vaccination programs.
- ✓ The system Provides Up-to-date notifications on upcoming vaccination sessions via SMS & Emails.
- ✓ Generates a unique QR code for every citizen upon registration and is shown at the vaccination session.

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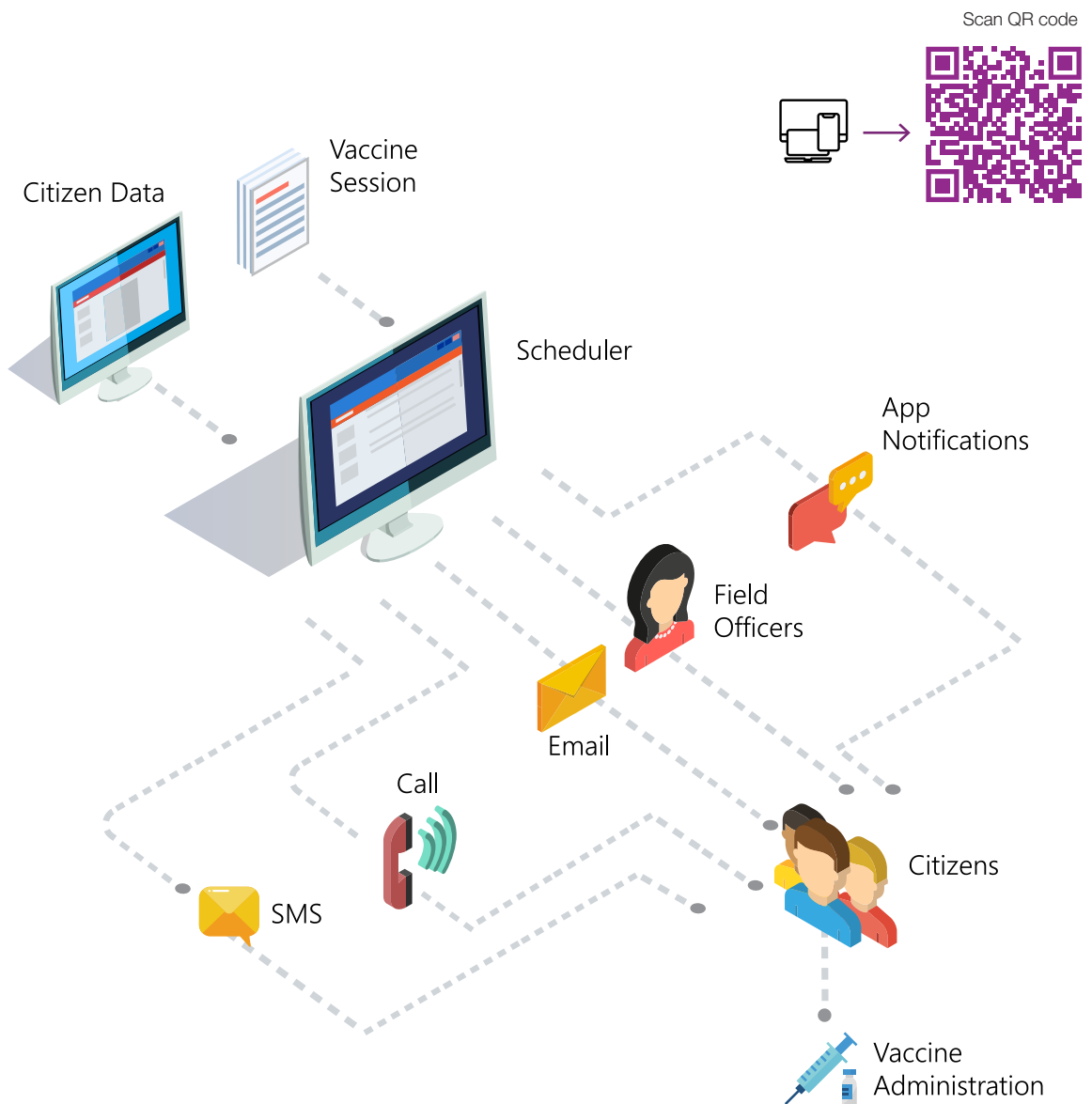
## Citizen Registration via the **Mobile App**

- ✓ Facilitates the general public to register for the vaccination programs.
- ✓ Generate a unique QR code for every citizen upon registration and which can be shown at the vaccination session.
- ✓ Higher availability and accessibility power more registrations.



# Appointment Scheduling

- ✓ The system allows the control centre to systematically structure the vaccination programs and sessions the code into the stock and here the work availability.
- ✓ Based on which the scheduler will provide appointments to register citizens and conduct immunization based on different priorities for cohort groups.
- ✓ The scheduled appointments will be notified via SMS and email to the respective citizens.



# Vaccine Administration

The vaccine administration operations of the vaccination centers are powered through the state-of-art mobile application, where are the uses of vaccination centers can effectively maneuver the mobile application to;

- ✓ Verify and validate with the citizens who got the appointments present themselves to the vaccination centers.
- ✓ For the doctors and health officials to exam examine the health profile of the citizens who register for the vaccination programs.
- ✓ Update the system once the citizen gets the vaccination and which will be supported via QR code for validation.
- ✓ Reschedule the next round of vaccination for vaccinated citizens.

## Mobile

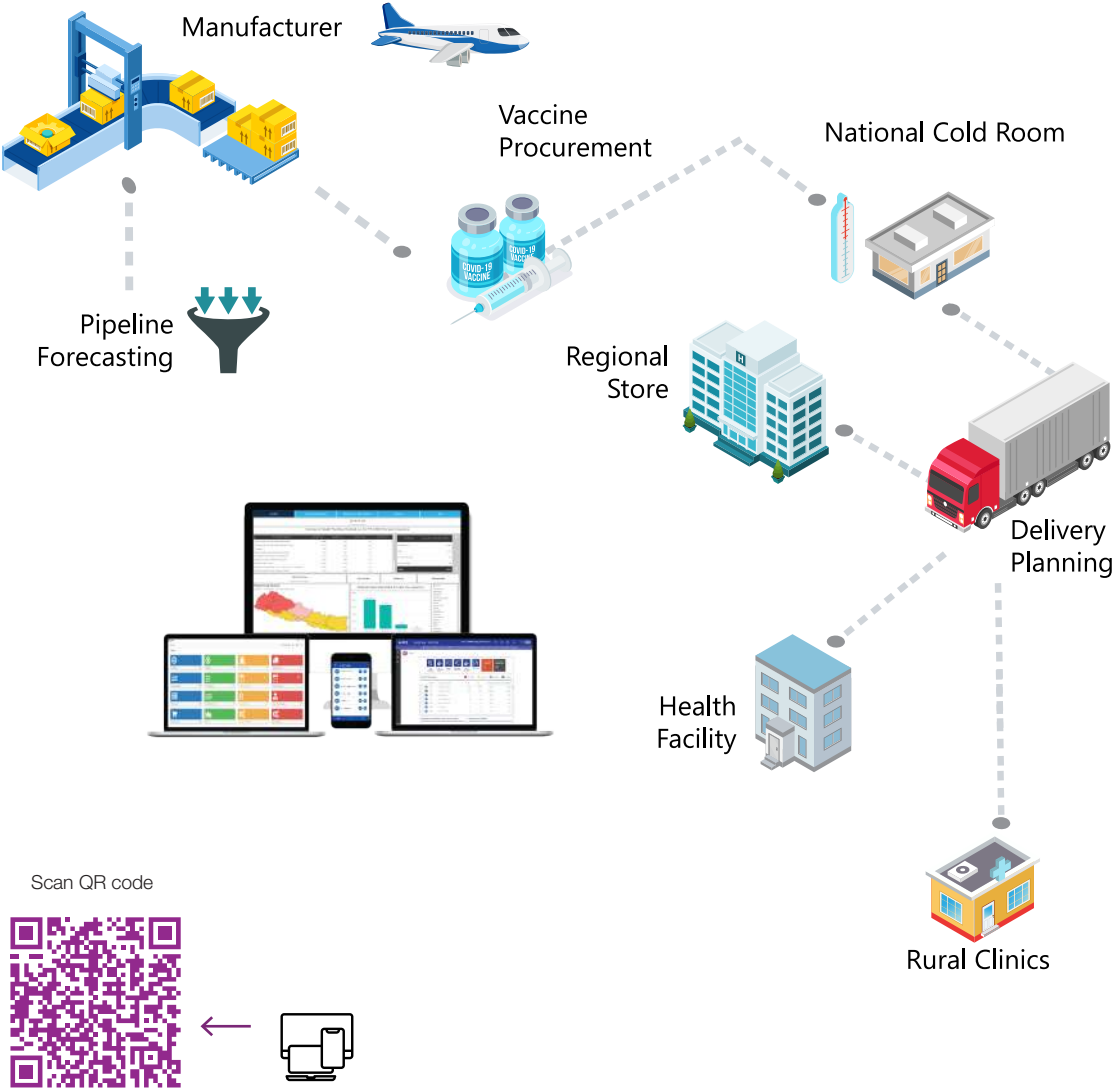
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# Logistic Management

Our product fully supports the six logistics rights which can streamline COVID-19 vaccine distribution by automating the entire process of vaccine management, from forecasting the optimum quantities required for the targeted citizen groups, procuring and distributing the vaccine across a large number of supply chain points with cold chain management by integrating with remote temperature monitoring devices. The solution further strengthens the supply chain operations by fitting the functionalities such as Warehouse Management, Inventory Management, and Asset Management.





**Entution Vesta VIMS** is a fully fledged solution which caters to all the relevant supply chain points covering, Central, Regional and to 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 for the sites with poor infrastructure and internet connectivity to ensure uninterrupted operations. The state of art mobile application is designed purely for the vaccination center operations ensuring mobility, accessibility and availability.

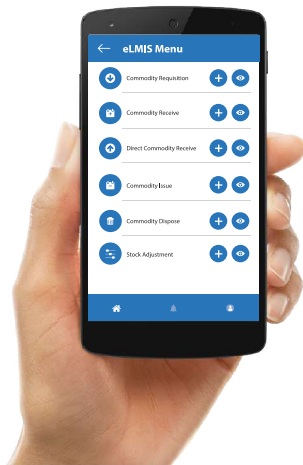
## Online



- ✓ 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.

## Offline / Desktop Apps

- ✓ The offline application supports the supply chain operations of the district and rural locations.
- ✓ The application can work without the internet, where data will be stored locally and synchronized when the internet is available.

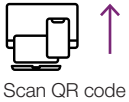


## Mobile

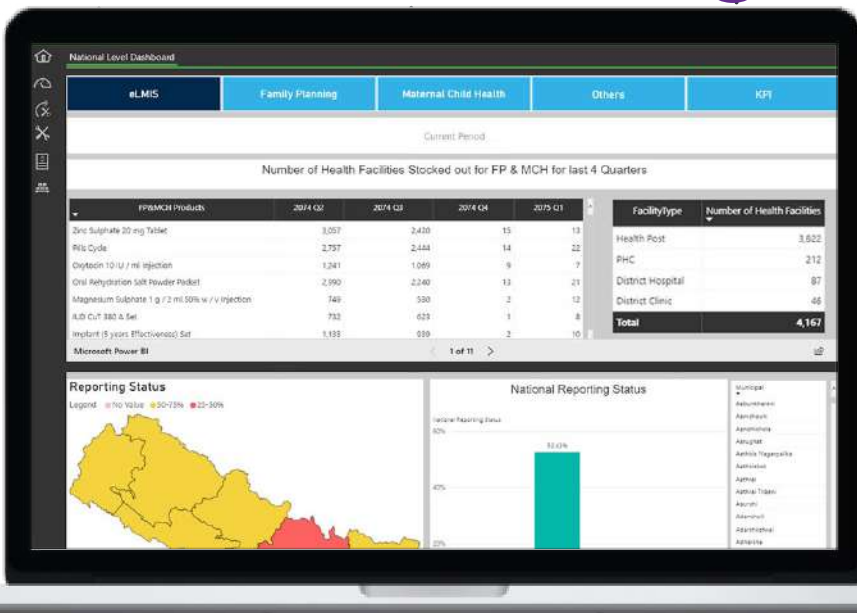
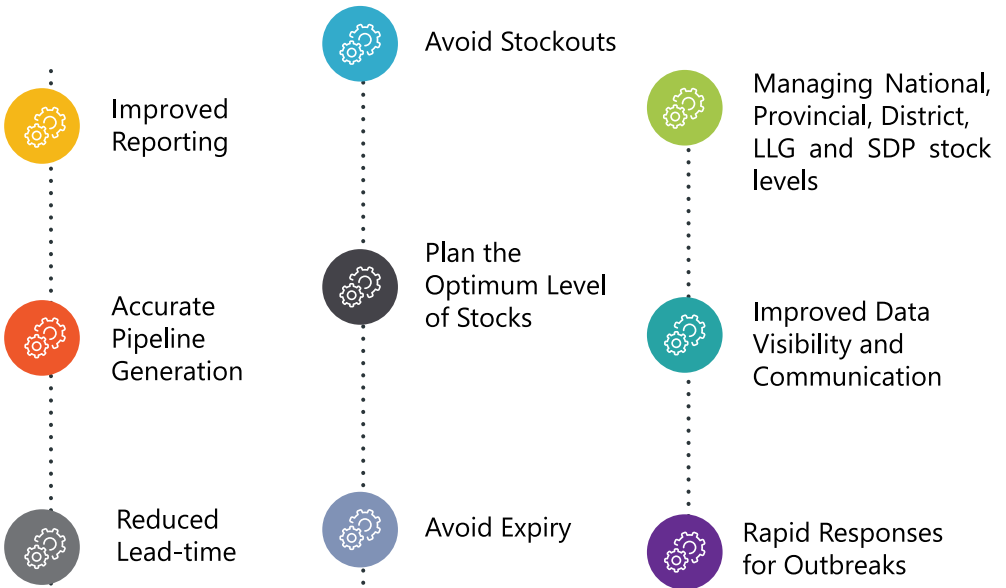
- ✓ Mobile application is a subset of offline applications that can be used at the Health Centre / Health Posts level.
- ✓ The application can work with interrupted internet connectivity and synchronize data based on internet availability.

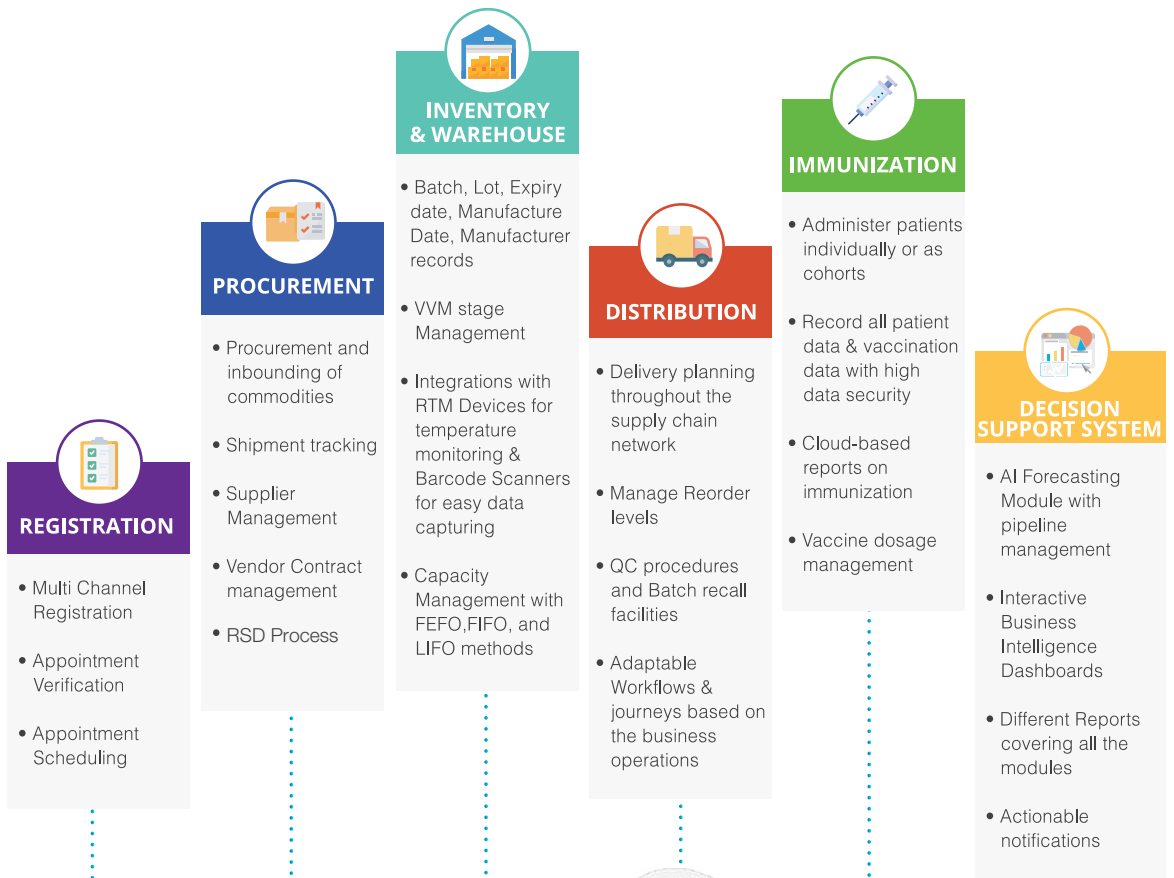
# Decision Support System

Entution Vesta tracks every vaccine dose, from receipt to patient administration with real-time inventory management and reporting for Expiry, near expiry alerts, Near Stock Out Notifications to avoid stock-outs & quickly reallocate stock to high demand areas with a site-to-site transfer. With procurement functions and receipt, the system provides, Shipment Notifications, Reminder Facilities, Approval Notifications, Reject Notifications, and GS 1 Barcode scanning to confirm the correct batch, lot, manufacturer, and expiration.



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# Solution Recognitions

**Entution Vesta VIMS** has been developed on top of Bileeta's State of the art Entution Technology Platform, seamlessly integrating with the Entution Vesta eLMIS ( Electronic Logistics Management Information System ) that supports vaccine distribution across all the relevant supply chain points, effectively ensuring the six logistics rights.


Our eLMIS Entution Vesta is a fully-fledged eLMIS built on a unique architecture and has been recognized as the only fully compliant eLMIS solution on the latest research conducted by The Global Fund & Gavi. We have implemented our solution in countries such as Nepal with the support of USAID & GHSC-PSM and Zimbabwe with the help of TGF & UNDP. Further, we were adjudged by "Accenture" as one of the leading DSS providers in the Health Supply Chain Industry. The key reason for our successful track record is the experience of our team in conceptualizing and developing state of the art solutions that are easy to adopt, use, and sustain.

## Country Guidance on Selecting LMIS Results of Request for Information Conducted Jointly by GAVI & The Global Fund

Qualified Software Solutions for Logistics Management Information Systems (LMIS)

Only Fully Compliant eLMIS

Software Solution	Requisition/ Allocation	Inventory Control	Performance Dashboard	Mobile App Option	Software as a Service	Business Intelligence	Cloud Hosting Only	Warehouse Management	Asset Management
Open LMIS	✓	✓	*	✓	✓	*	*	*	*
Field Supply	✓	✓	*	*	✓	*	✓	✓	✓
mSupply	✓	✓	✓	*	✓	*	✓	✓	✓
Entution Vesta	✓	✓	✓	✓	✓	✓	✓	✓	✓
e-LMIS Medexis	✓	✓	*	*	*	✓	✓	✓	✓
Logistimo	✓	✓	*	✓	✓	✓	✓	✓	*
Vitalliance LMIS	✓	✓	✓	✓	✓	✓	✓	✓	*



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Table 1 : Comparative Attributes of the Qualified LMIS Solutions

Reviewed by  
a Technical Evaluation Committee (TEC) comprising experts from



**The Global Fund** BILL & MELINDA GATES foundation  
To Fight AIDS, Tuberculosis and Malaria



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**Bileeta's recent revolutionary invention, "Entution Vesta VIMS Vaccine Information Management System",** has been awarded and recognized in the Public Sector – Government & Citizen Services Category with the merit award at APICTA 2020 – 21 Gala Awards held on 15<sup>th</sup> December 2021.

## Bileeta's Achievements in Health and Well Being sphere

**WINNER**  
E-Logistics & Supply Chain Management (NBQSA) 2011

**WINNER**  
Health & Wellbeing (NBQSA) 2017

**WINNER**  
In house Application (NBQSA) 2017

**WINNER**  
E-Logistics & Supply Chain Management (NBQSA) 2014

**OVERALL WINNER**  
16<sup>th</sup> National Best Quality Software Awards (NBQSA) 2014

**WINNER**  
Pharmacy Informatics Commonwealth Digital Health Conference & Awards (NBQSA) 2017

**WINNER**  
The Citizen Services & Digital Government in Public Sector & Government Category (NBQSA) 2020

**WINNER**  
The Most Outstanding ICT Innovation Addressing National Calamities (NBQSA) 2020

## Entution Vesta Electronic Logistics Management Solution Special Recognitions

Report: Opportunities to Transform Public Health Supply Chains in Developing Countries using Decision Support Systems Prepared by USAID, PATH and Bill & Melinda Gates Foundation.

It's an honour to have Digital Square, a PATH-led initiative by the USAID, and Accenture, to bring Bileeta Entution VESTA solution into the limelight in their Research Report as an investment-ready promising application of DSS in Public Health Supply Chains in the developing countries.

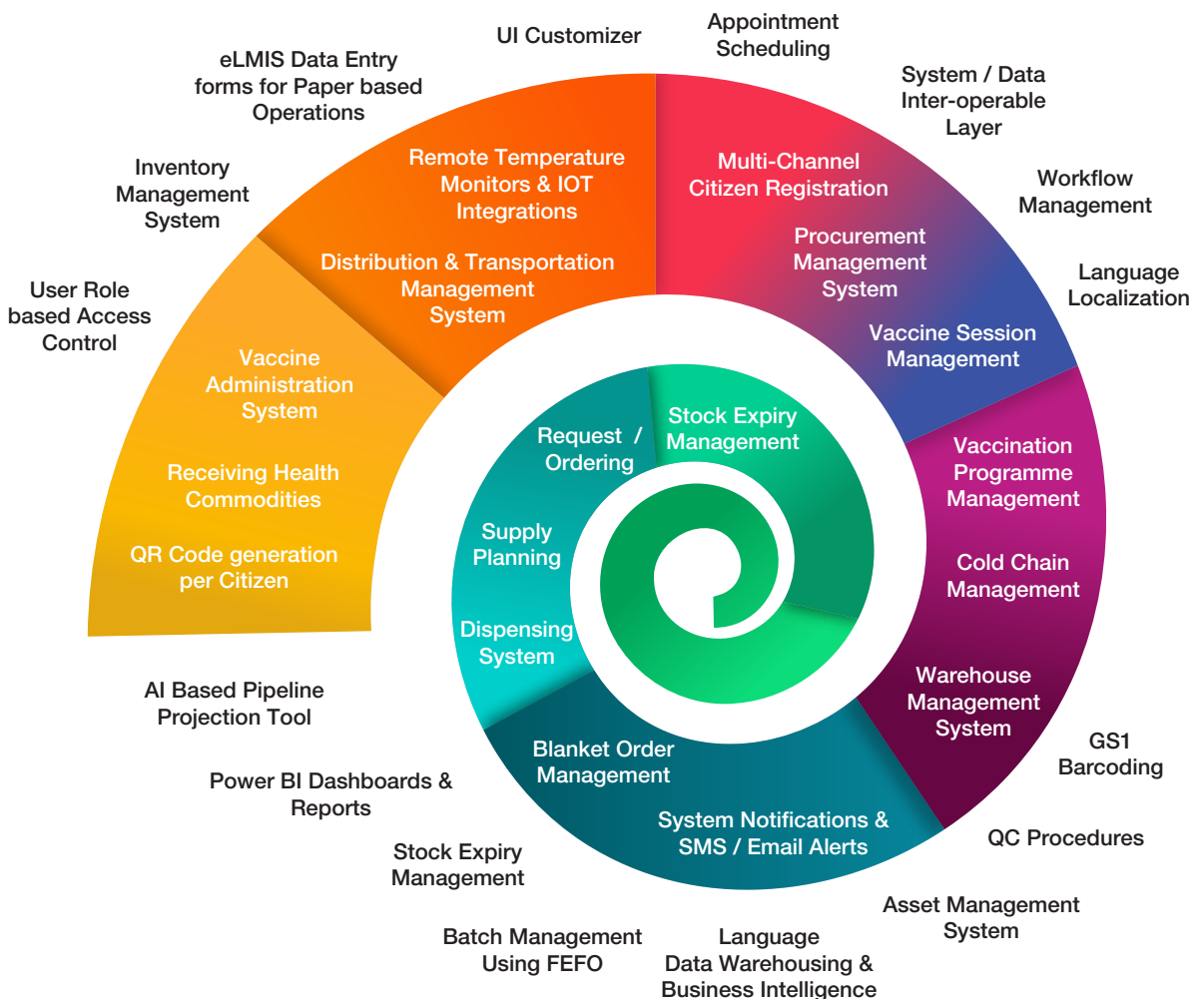


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# Strengthening Vaccine Supply Chain

Our product can ease the COVID-19 vaccine distribution by automating the entire process of vaccine management from Multi-Channel Citizen Registration, Eligibility Verification & Prioritization, Appointment Scheduling, Pipeline Forecasting, Purchasing, Distribution, Warehouse Management, Inventory Management, and Asset Management to ensure the best practices of the vaccines from Receipt to Patient Administration. The solution is equipped with AI Forecasting Capacity and BI Decision Support System for authorities to take necessary decisions in advance. The system is equipped with different workflows and journeys, capturing valuable information such as Batch numbers, Lot Numbers, Expiration dates, Manufacture days, Manufacturer, VVM stage, and Dosage.





# Ready to Deploy

Entution Vesta is ready to deploy in both developed & developing countries with minimal configurations, structured training sessions, video and user manuals. The unique architecture of Entution platform accommodates complex user requirements and localization, which improves user acceptance of the solution. Based on the proven fully automated, semi-automated and manual implementation model, Bileeta can carry 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 developing state of the art solutions which are easy to adopt, use and sustain. The subject matter experts are highly experienced and proficient in the Health Logistics 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 the IT sector and create cutting-edge solutions that harness the power of tomorrow's technology for today.

Bileeta is ready to deploy a fully compliant COVID 19 Vaccine Distribution and Administration solution in counties rapidly and successfully.





# bileeta

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