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The Need for Interoperable Vaccine-Related Information Systems

SECURE webinar series Asian Development Bank

Raymond Francis R. Sarmiento, MD

Director, National Telehealth Center National Institutes of Health, University of the Philippines Manila February 22, 2022





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- I declare no financial relationships with the manufacturer(s) of any commercial product(s) and/or

COMPETING INTERESTS

- Chair, IMIA Health Informatics for Development Working Group
- Clinical Lead and Digital Health Expert, Standards and Interoperability Lab – Asia
- Member, IAP International health data sharing working group
- Consultant on COVID-19 information systems, DICT





Enabling the COVID-19 Vaccination Journey









Processes

VIMS

systems

VIMS Immunization Registry (VIMS-IR)

Masterlisting

Inventory & Supply Chain

VIMS Supply Chain / Retool

Vaccine Administration

DICT Vaccine Administration System (DVAS) Linelist Upload

VAS Line List Upload Tool Vaccine Certification

VaxCertPH

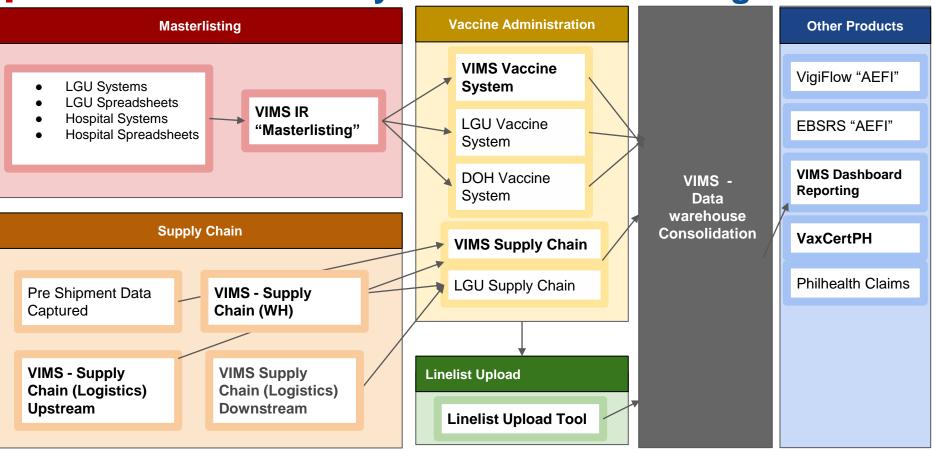
Support activities

- Training, contact center and regional support
- Data management → National, regional, and local
- Dashboard and reporting
- System governance and operations





COVID-19 VIMS Ecosystem: How It Ties Together

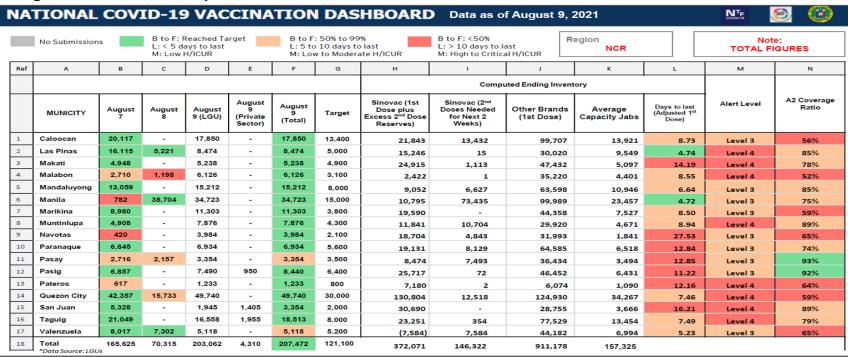






Vaccination Coverage Dashboard

Regional vaccination snapshot



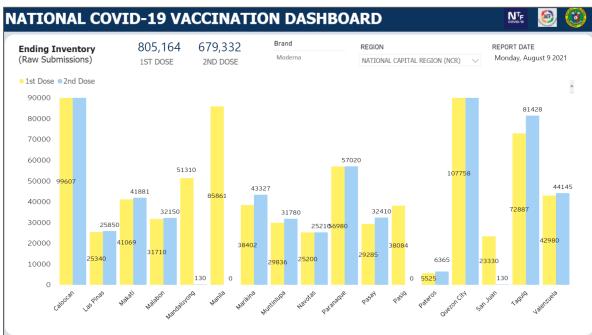




Vaccine Inventory & Supply Chain Mgt System





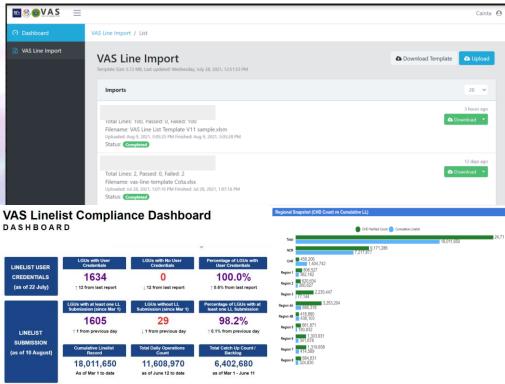






Vaccination Line List submission









Vaccine Administration System: LGU Impact







Shortened vaccination time

Improves vaccination journey from 20 minutes per person to 5-10 minutes*



Accuracy of data

Reduces spelling and detail errors



Faster reporting

Generates end of day report more efficiently from 3 hours to 30 minutes*



Paperless transactions

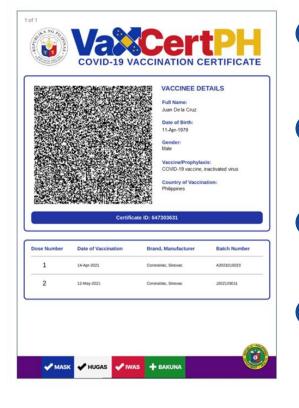
Minimizes errors, lessens risk of loss of physical data

*Data is from the time & motion Study conducted in San Juan.





Digital Vaccination Certificate: VaxCertPH



Development | Jun 28 – Jul 30, 2021

Developed for DOH as a self – service portal that can be accessed directly by the citizens

Developed a verification feature through QR code scanning for our BOQ or border authorities

Alpha Testing | Jul 31 - Aug 2, 2021

Experience and tested the portal by internal users (DICT)

Beta Testing | Aug 9 – 31, 2021

Started pilot testing experience for San Juan LGU employees

Select another LGU to conduct another round of beta testing

Public Launch | 1st week Sep 2021

Facilitate training to different stakeholders (LGUs, Contact Center, BOQ) Cascade to the different departments (DFA, DILG, LGUs, DOT)





Digital Vaccination Certificate: Mutual Recognition

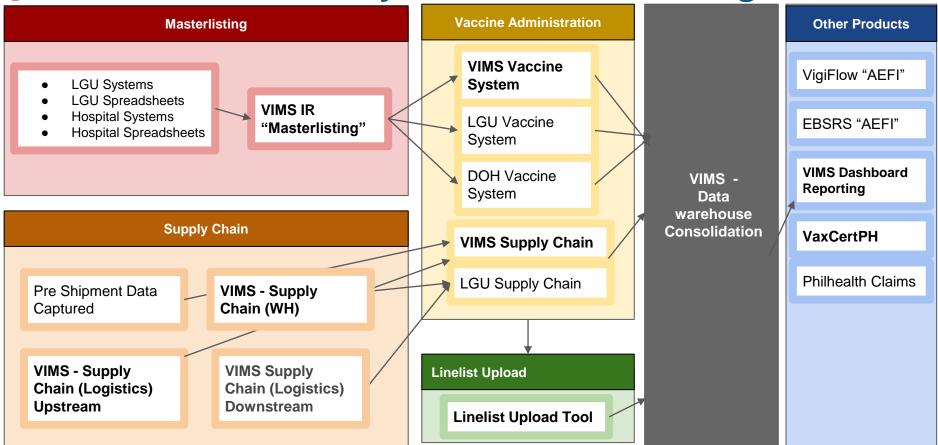


Armenia	Germany	Oman	Turkey
Australia	Hong Kong	Qatar	UAE
Austria	India	Samoa	United Kingdom
Bahrain	Iraq	Singapore	USA
Belgium	Italy	Slovenia	Viet Nam
Canada	Japan	Sri Lanka	Brazil
Colombia	Kazakhstan	Switzerland	Israel
Czech Republic	Kuwait	Thailand	Timor Leste
France	Monaco	The Netherlands	Republic of Korea
Georgia	New Zealand	Tunisia	





COVID-19 VIMS Ecosystem: How It Ties Together



THANK YOU!

Questions?

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