

Immunization Registry and Vaccine Tracking Application in Vietnam: From pilot to nationwide scale up Bright Spots Webinar Tuesday, December 14, 2021

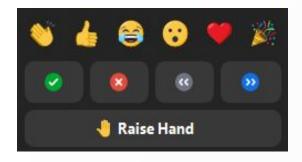
Sang Dao, MPH, Linh Nguyen, MPH, Tu Nguyen, MsM



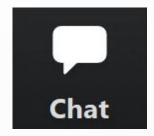
WELCOME & LOGISTICS



Please mute yourself (when not speaking) to limit background noise and feedback



Use the Reactions button at the bottom of your screen to Raise your hand during the session (if you want to speak).



You can engage in dialogue with your peers and workshop facilitators through the Chat button at the bottom of your screen



THE BOOST COMMUNITY

A global community where immunization professionals connect, learn and lead.



Connect

with fellow immunization peers and experts through virtual small groups or at face-to-face events



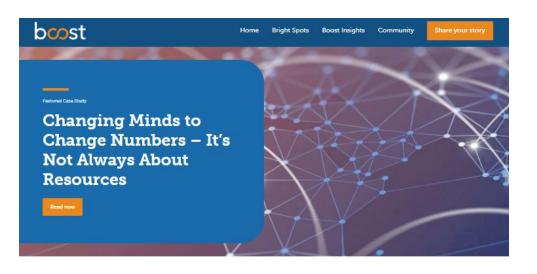
Learn

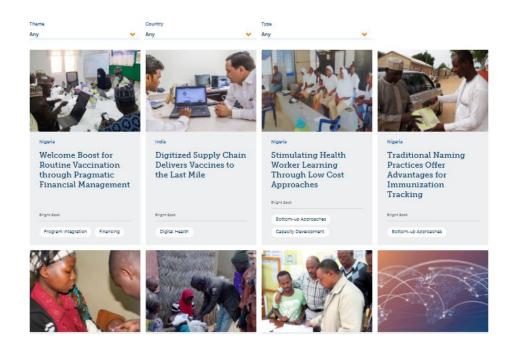
skills that build capacity and advance careers through Boost's peer and expert-led trainings and curated news section, sorted by topic



Lead

Immunization programs in any circumstance, including challenging contexts, with support from Boost's foundational practice of adaptive leadership





http://brightspots.boostcommunity.org

BRIGHT SPOTS

From engaging with religious leaders to improving supply chain to reach the last mile, there is innovation occurring at all levels of the system.

Bright Spots shine a light on the work that is happening on the ground and inspire immunization professionals everywhere to learn, adapt and take action in their own communities.

This second round of stories includes 10 stories from 6 countries (including Ethiopia, Nigeria, Tanzania, India, Pakistan and Cameroon) occurring at the regional, district or facility level.

Poll Questions

- 1. Has your country of work developed a national EIR system?
 - a. Yes
 - b. No
- 2. If yes, please state the current stage of your national EIR system
 - a. Design
 - b. Develop
 - c. Deploy
 - d. Scale-up nationwide



Content

- Vietnam National Expanded Program on Immunization
- Vietnam National Immunization Information System
- Challenges along the way
- Our approach



Vietnam National Expanded Program on Immunization

National Expanded Program on Immunization in Vietnam



Annual birth cohort: ~1.7 million.



Currently, there are 10 vaccines included in the program.



Most vaccines are given at commune health centers on fixed monthly immunization days



There are geographic inequalities, with lower coverage rates in hard-to-reach mountainous areas.

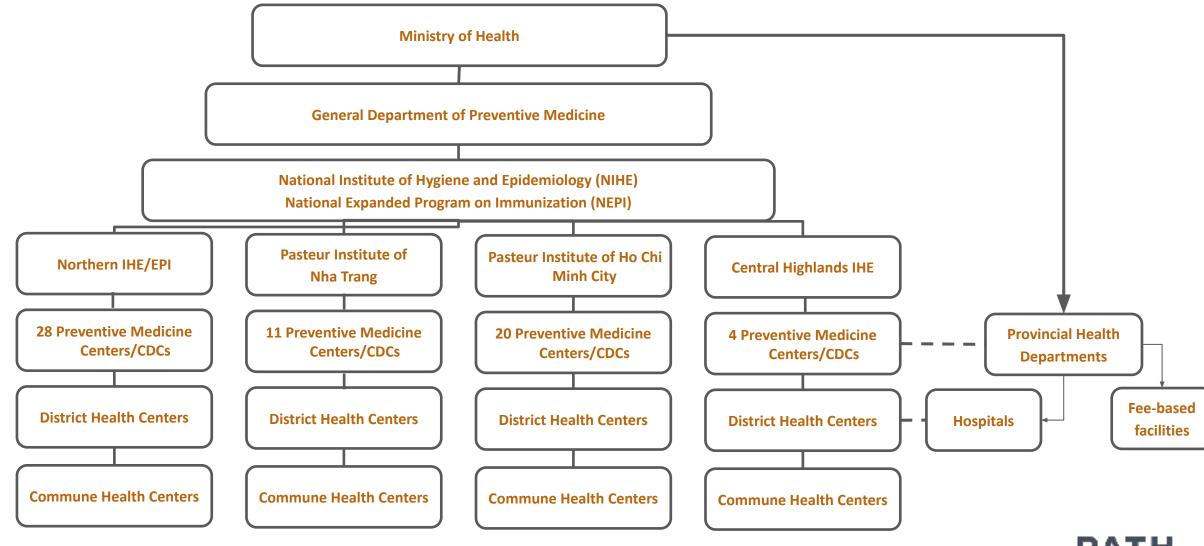


Before June 2017, immunization information systems were primarily paper-based systems, with some computer-based systems for reporting aggregated data.





EPI structure in Vietnam



Moving beyond paper-based systems for continued improvement

Current paper-based systems are:

- cause delays
- ☐ time-consuming
- prone to errors
- ☐ difficult to track clients and stock

They leave children and pregnant women at greater risk of contracting vaccine-preventable diseases.

They cause data inaccuracies which result in poor planning and management of both vaccination programs and vaccines and supplies.







Vietnam National Immunization Information System (NIIS)

Timeline of the electronic immunization registry introduction and scale-up in Vietnam

- Developed Vaxtrak and ImmReg
- Tested in small-scale, district-level pilots
- VaxTrak Scaled up nationwide by MOH

 Transferred ImmReg/VaxTrak technology towards the development of the NIIS

 NIIS launched nationwide in March 2017 ny MOH

2014-2015

2018-2021

2012-2013

2016-2017

- VaxTrak and ImmReg integrated into one system and scaled up
- Evaluation revealed the system increased on-time vaccination and reduced drop-out-rates

- Focus on increasing NIIS uptake and improving data quality and data use
- Transition to paperless immunization records

Vietnam National Immunization Information System





Đăng nhập

Tên đăng nhập

Mật khẩu

Nhớ tài khoản

Quên mật khẩu?

Đăng nhập

Điện thoại hỗ trợ: 1800 8000 (Nhánh 4)



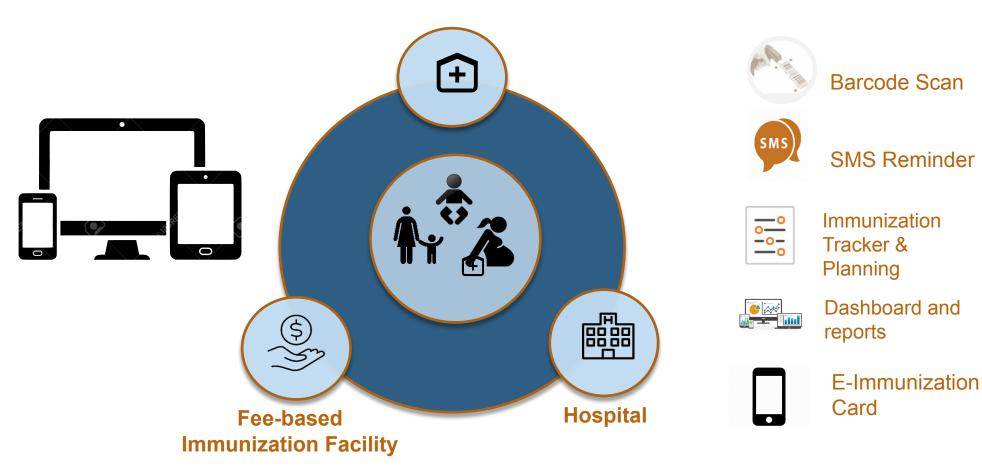




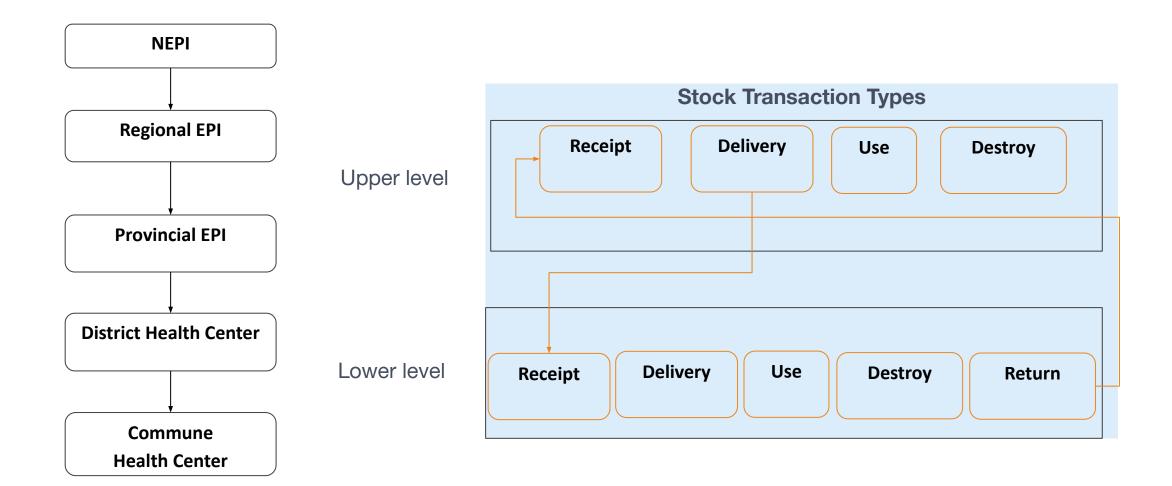


System main functions: Immunization Registry Module

Commune Health Center

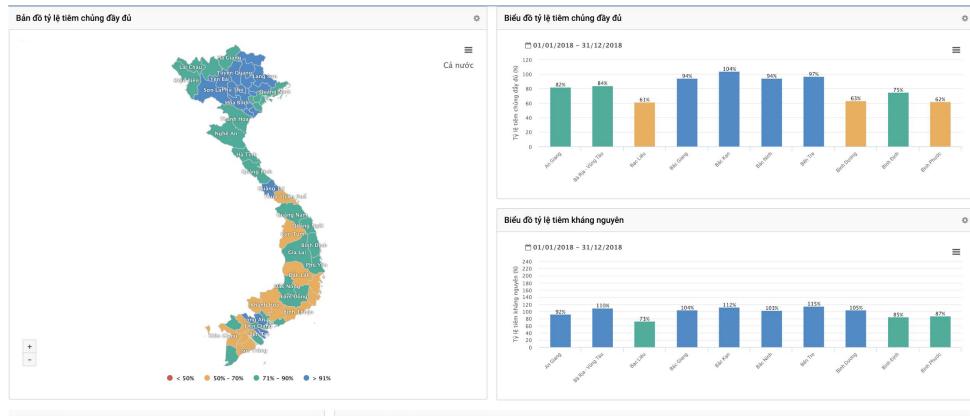


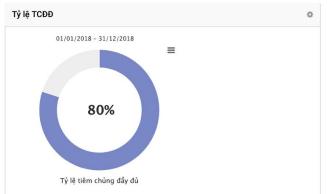
System functions: Stock Tracking Module

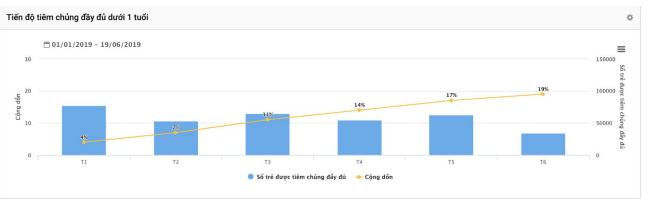




Dashboard









BENEFITS OF NATIONAL IMMUNIZATION INFORMATION SYSTEM (NIIS)

Automated



The system notifies caregivers of the next vaccination date via an SMS.

Time-Saving



Notifies the healthcare worker of the quantity of vaccines each month



Accurate

Less prone to data errors

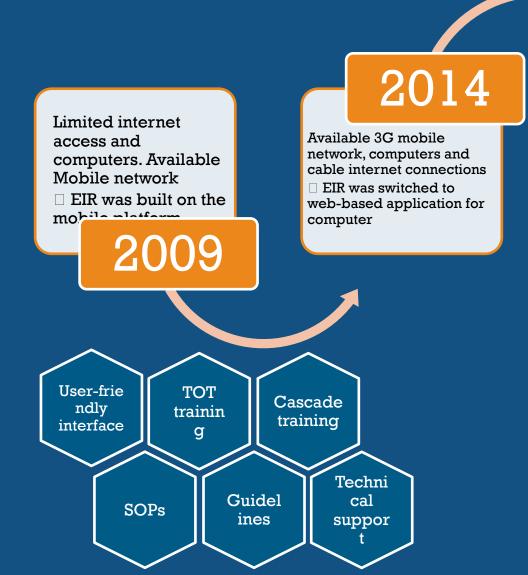


Challenges along the way

Challenges at the Facility level (1/2)







•Improved internet and computer accessibility all over Vietnam (even the

hard-to-reach area)

•□ NIIS was upgraded and launched nationwide

2017

Challenges at the Facility level (2/2)



Training



Back Data Entry



Dual System



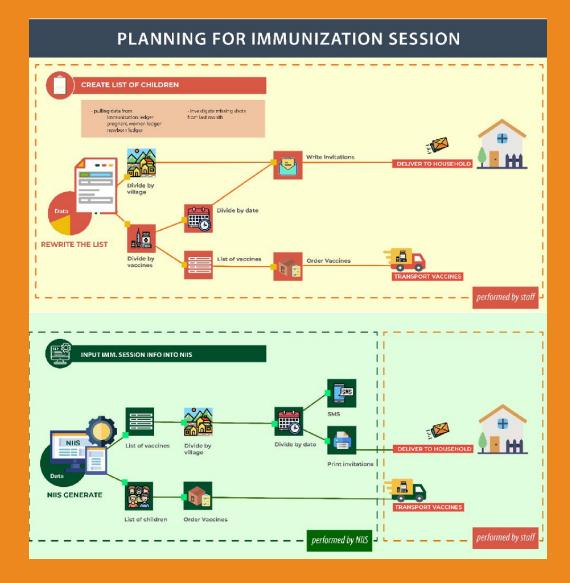
System frequent Update



Inter-operability



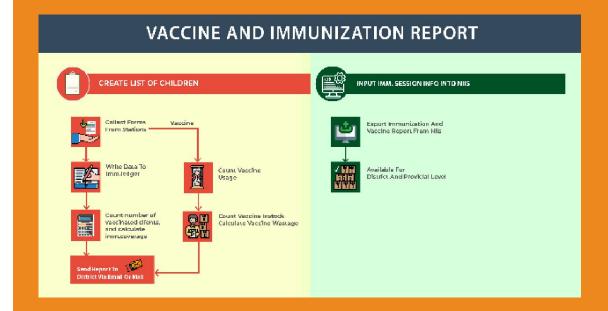
"The job has become so much simpler with the assistance of [a] computer. However, automatically generated list[s] and reports still have some errors, [so] that I still have to call the parents to double-check on their information as it might not be updated in a timely manner, especially if they got vaccinated at the private clinic. I also have to edit the automatically generated reports as some new vaccines are not updated. So, it saved us time and effort but at the same time added other kind[s] of work, especially with our limited computer **skill[s].** We are hoping for a more seamless system."







"Looking back, the paper-based system for immunization was a nightmare; besides the official ledgers that we had to store and the reports that we had [to] submit to the district health center and [try] to keep clean, we had to write and re-write the lists of children and vaccines in our draft notebook, using all kinds of [stationery] available (different colored pens, pencils, markers, marking stickers, etc..) to differentiate groups of children and vaccines—that way, we could ensure to count correctly. Our notebooks were like colorful children's books."





Challenges at the Management level

Resources

Mobilize and allocate resources appropriately

Important
liaison between
the end-users
and technical
team

Data

Data quality

Data use

Data Management





"Our work would be more focused and efficient. There are more I think we can do with the data on the system that I have yet to learn."

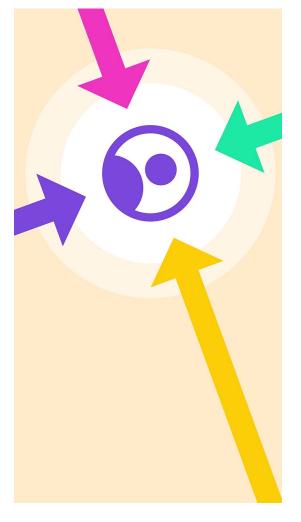
Provincial EPI staff





Our approach

User-centered approach in NIIS implementation















- 1. Develop a system with a user-friendly interface
- 2. Developing guidelines and SOPs for immunization on NIIS functionalities.
- 3. Training, technical support, supportive supervision
- 4. Allocate appropriate support during initial and transition phase
- 5. Identify champions of the system to share knowledge, skill and create influence to other colleagues to promote the acceptance
- 6. E-learning
- 7. Develop API guideline and SOPs to exchange data among system to reduce double data entry



"EIR is inevitable in this age of information technology. It is the obvious next step in data management. I can clearly [en]vision the benefit of NIIS and fully support the system."

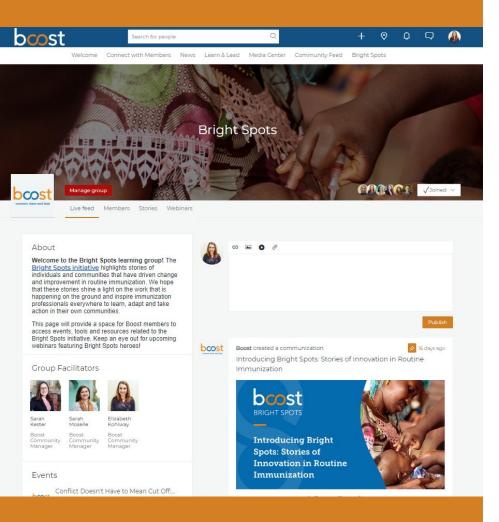
—Provincial EPI manager



Q & A

If you have any questions or comments you would like to share, please type them in the chat or raise your hand

WHAT'S NEXT?



Join or Visit the Boost Community

The Boost Community enables immunization professionals to connect with peers and experts, learn skills that build capacity. Take advantage of our online platform, including online courses, live workshops, webinars, resources and more!

Join Boost's Telegram Channel

Connect with other immunization professionals and get live updates on new courses, webinars and other Boost offerings!

Join Boost's Bright Spots Learning Group

Continue sharing your comments, questions and challenges with your peers and experts in the special *Bright Spots Learning Group*.

Take Our Survey

We want to hear from you! Please share your thoughts with us.

Share Your Spark

Have a story you want to be featured as part of this new series? Share your experience and insigths with the Boost team today!

GMVSC EVENT: GLOBAL MASS VACCINATION SITE SETUP & IMPLEMENTATION

The Boost Community, in partnership with <u>Ariadne Labs</u>, a joint center for health systems innovation at <u>Brigham & Women's Hospital</u> and the <u>Harvard T.H. Chan School of Public Health</u>, is excited to present a live engagement, *Global Mass Vaccination Site Setup & Implementation*, on <u>Friday, December 17 at 1:00 PM GMT</u>

The event will feature <u>VillageReach</u> mass vaccination site operators from the Democratic Republic of Congo (DRC) sharing their experiences and lessons learned in setting up and implementing a site.

During this interactive session, you will have the opportunity to:

- Get an overview on how to setup and implement a mass vaccination site
- Hear current challenges and lessons learned from mass vaccination site operators
- Share your questions and receive real-time feedback on current site operations within your country









THANKYOU

