

## INDONESIA

### OVERVIEW

#### Country Delegation

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#### Country Experiences in EIR

- Indonesia's MoH has developed the Satu Sehat platform to capture immunization data from EMR systems at healthcare facilities and ASIK, a mobile app for community outreach.
- Regular monitoring, mandatory data reporting regulations, and training programs have facilitated EIR adaptation.
- Challenges include potential data inaccuracies, digital literacy variations, and limited internet access in remote areas.
- The goal is to enhance data accuracy and coverage and to learn from other countries' EIR implementation strategies.

#### System Descriptions and Usage

- Satu Sehat develops the national standards using the FHIR HL7 format for data integration coming from EMR systems at healthcare facilities, including public health centres, hospitals, clinics, and GPs. The data will be integrated into the Satu Sehat platform.
- To accommodate data collection at outside healthcare facilities (such as community outreach/Posyandu/schools), the MoH also developed the ASIK (Sehat IndonesiaKu) mobile application for data collection.
- Details of the software used in Indonesia's EIR:
  - Flutter for Android & IOS in mobile application
  - Typescript with Framework Nutx 3 for website application
  - Golang for backend
  - Progressql and MongoDB for database

#### Data Management and Governance

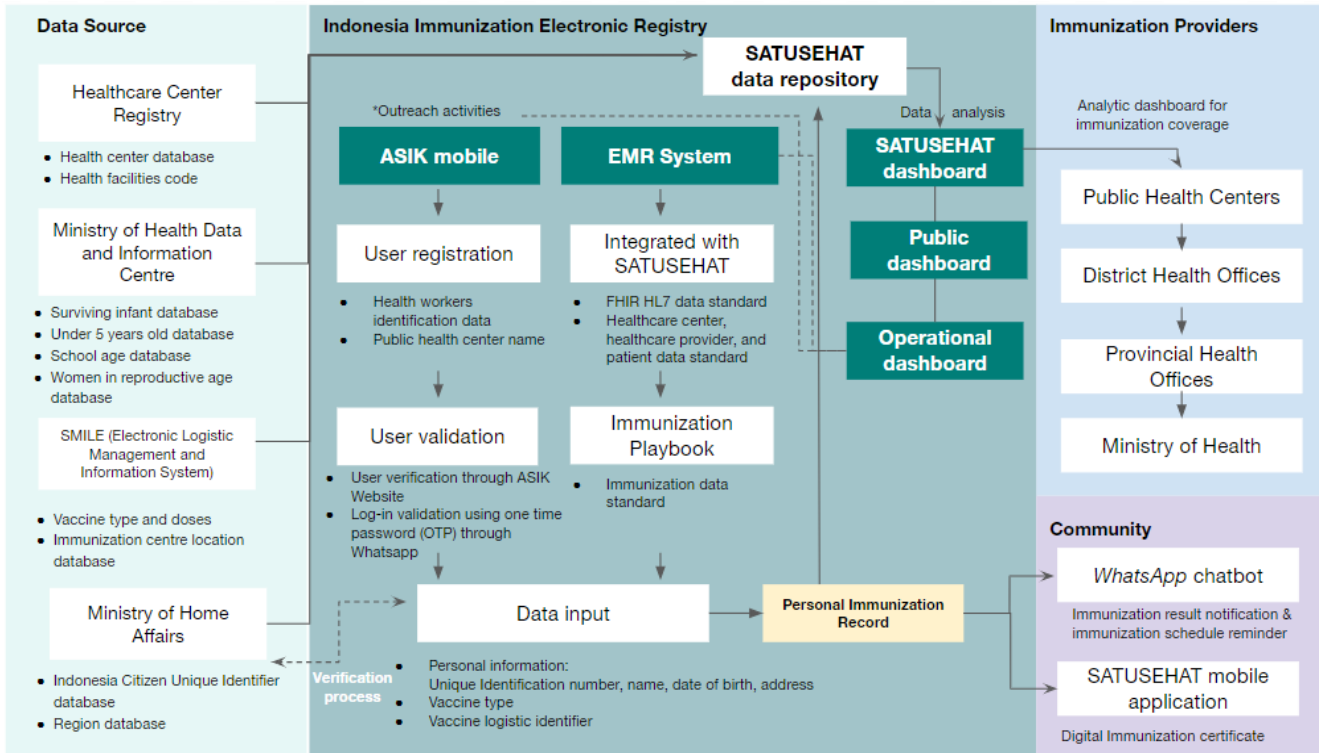
- EIR data is stored in a data centre that is managed by the Digital Transformation Office (DTO) MoH team directly. Data backup is done daily.
- Data analytics can be accessed through an integrated dashboard provided at the national, provincial, district/city, and Puskesmas (Public Health Centre) levels. Puskesmas can access individual data (by name by address), while district/city, provincial and national level data can only be accessed in aggregate format.
- DTO MoH has achieved and implemented ISO 27001 about information security management.

### Relevant Achievements and Learning Goals

- Strong commitment from the MoH. Within a year, MoH collected 70% of the targeted population's individual data.
- Supporting community access to data. Citizens can access digital immunization certificates and notifications through the Satu Sehat mobile application (one-stop citizen health application) and receive reminders through WhatsApp.
- Accelerated progress through collaboration and capacity building. EIR adoption was accelerated through clear guidance, regulation, monitoring, help desk support, training, national competitions, and rewards.

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## EIR DESIGN | ENTERPRISE ARCHITECTURE



### OVERVIEW OF ELECTRONIC IMMUNIZATION REGISTRY ARCHITECTURE

### USER INTERFACE OF ASIK MOBILE, SATU SEHAT MOBILE, WHATSAPP CHATBOT

#### ASIK mobile app

#### Immunization Playbook

#### Whatsapp Chatbot

#### SATUSEHAT Mobile