UZBEKISTAN

OVERVIEW

Country Delegation

- **Tursunova Dilorom:** Head of the Vaccines and Immunoprophylaxis Department, Committee for Sanitary-Epidemiological Welfare and Public Health, Tashkent, Uzbekistan
- **Halilova Shoira:** Head of the Vaccines and Immunoprophylaxis Department, Committee for Sanitary-Epidemiological Welfare and Public Health, Samarkand, Uzbekistan
- **Karimov Abduvokhid:** Chief Specialist of the Vaccine and Immunoprophylaxis Department, Committee for Sanitary-Epidemiological Welfare and Public Health, Tashkent, Uzbekistan

Country Experiences in EIR

- **Implementation goals**
  - Ensure individualized and timely monitoring of immunization schedules.
  - Record all immunization activities, including data on individuals, vaccines administered, facilities, and vaccinators.
  - Provide decision-making support through statistical reports.
  - Assist government agencies in identifying unvaccinated persons.
  - Support the identification of required vaccines and supply needs.
  - Provide monitoring and evaluation support by accessing immunization history.
  - Facilitate communication with recipients for vaccination reminders.
  - Monitor vaccine stocks at health facilities.

- **Current initiatives**
  - Automating medical facilities of the Ministry of Health, private vaccination centres, secondary educational schools, and preschools.

- **Planned strategies**
  - Develop EIR 2.0 and integrate with other systems.
  - Create a platform for primary health care services to automate vaccination plans & coverage.

System Descriptions and Usage

- **Software systems**
  - The system was developed independently in the C# programming language.
  - All data is collected in the EIR database itself.
  - The EIR is integrated with the state system "State Personalization Center" (SPC) for citizen data through "PINFL" (Personal Identification Number of an Individual).

Data Management and Governance

- **Data collection and management**
  - All data is collected in the EIR database, integrated with State Personalization Centre (SPC).
  - Health workers and the public can access data through a single state portal (my.gov.uz) and individual health worker interfaces.
  - Data is entered in the national sanitary warehouse in VLMIS and is sent to the regional sanitary department (VLMIS), then the district sanitary department (VLMIS) and the polyclinic (EIR) receive vaccines and other goods through IS VLMIS.
  - Currently, private healthcare facilities do not have access to the EIR; however, EIR 2.0 will include access for private providers.
  - Data is entered in the national sanitary warehouse in VLMIS

- **Data reconciliation and management**
  - All data is collected in the EIR database itself. The EIR is integrated with the state system "State Personalization Centre" (SPC) where it receives all data on citizens of Uzbekistan through PINFL (Personal Identification Number of an Individual).

Overview of EIR design

- **ID generation**
  - "PINFL" (Personal Identification Number of an Individual). This is used for the identification of all citizens since 2017 and is integrated across systems. PINFL connects individual data about the citizen to the EIR (e.g., first name, family name, father's name/gender/date of birth/residence address) from the State Personalization Centre (SPC).

- **General interface**
  - The Republic of Uzbekistan has a single state portal my.gov.uz, which is integrated with the EIR, where citizens can get information about vaccination through their personal account.

Relevant Achievements and Learning Goals

- **Achievements:**
  - UNICEF trained young trainers from the Sanitary and Epidemiological Committee on the VLMIS, EIR, RTMS, AIMS programs. These trainers taught medical personnel of all levels, increasing the number of medical personnel users by more than 70%.
  - The Ministry of Health has a core system integrating various health-related systems for data exchange and management.
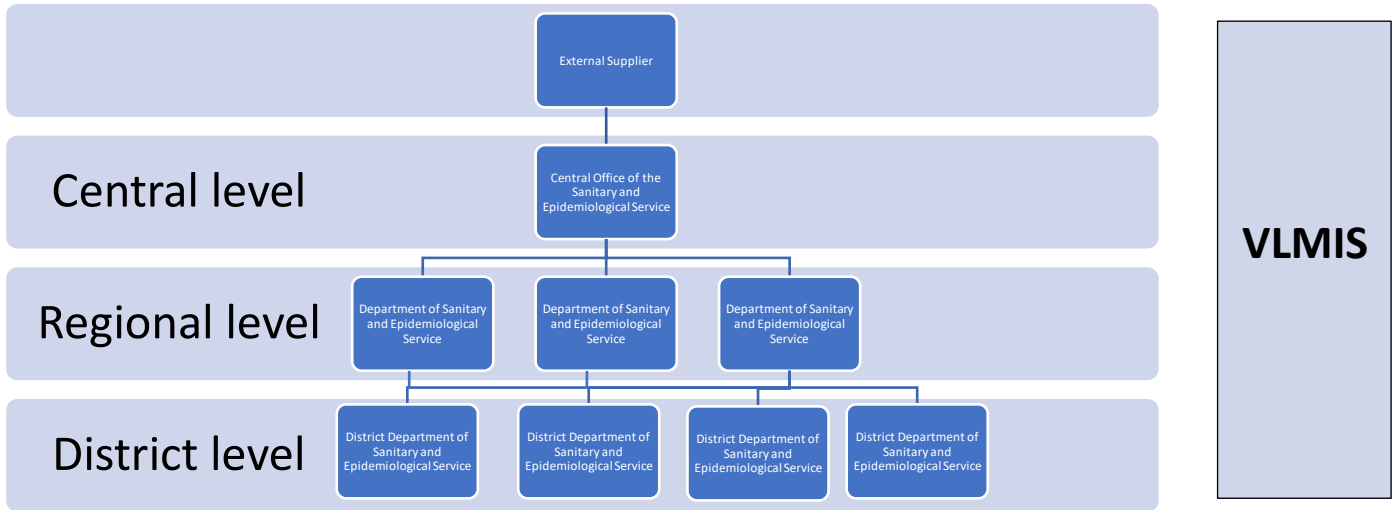
- **Learning goals:**
  - Understand the technical features available in other countries' EIRs.
  - Explore reports issued automatically without human intervention in other countries' EIRs.
  - Learn about BI modules and integration with other systems such as VMIS, VTMIS, RTMS, MIS

UZBEKISTAN

EIR DESIGN | ENTERPRISE ARCHITECTURE

OVERVIEW OF ELECTRONIC IMMUNIZATION REGISTRY ARCHITECTURE

VLMIS

Central level	External Supplier
	Central Office of the Sanitary and Epidemiological Service
Regional level	Department of Sanitary and Epidemiological Service · Department of Sanitary and Epidemiological Service · Department of Sanitary and Epidemiological Service
District level	District Department of Sanitary and Epidemiological Service · District Department of Sanitary and Epidemiological Service · District Department of Sanitary and Epidemiological Service · District Department of Sanitary and Epidemiological Service

Local level

District medical education	Family clinic	City Children's Hospital	City Maternity Center	Perinatal Center	Private vaccination center
Vaccination room at secondary education schools · Vaccination room in preschool educational institutions	Vaccination room in preschool educational institutions · Vaccination room in preschool educational institutions	Vaccination room	Vaccination room	Vaccination room	Vaccination room

EIR