

Improving the efficiency of vaccinations systems in multiple states

Improving efficiency of vaccination systems through operationalization of web-based vaccine management systems in all districts of select states



Photo: UNDP India

In partnership with the Ministry of Health and Family Welfare, Government of India, UNDP aims to support the Universal Immunization Programme through designing and implementing the Electronic Vaccine Intelligence Network (eVIN), a unique innovation that brings together technology, people and processes to strengthen the vaccine supply chain by digitising information on vaccine stocks and storage temperatures. Supported by GAVI-the Vaccine Alliance, the health systems strengthening project aims to streamline and regularize the vaccine flow network by ensuring data-driven and efficient management of the immunization supply chain. The goal is to ensure equity in easy and timely availability of vaccines to all children. eVIN is digitising vaccine stocks at all 28,000 vaccine storage centres across all districts of 28 states and 8 union territories of India; facilitating real-time monitoring of storage temperatures by installation of nearly 50,000 temperature loggers, building capacity of nearly 49,000 government personnel for vaccine and cold chain logistic management on eVIN; deploying vaccine and cold chain managers in every district for constant supportive supervision.

Achievements

- Assessed the preparedness of states for adopting eVIN through a survey of the entire immunization cold chain network, enlisting details of personnel and processes.
- Designed and implemented eVIN in all 731 districts, across 36 states and union territories.
- Achieved over 80% reduction in instances of vaccine stock-outs and ensured improved availability of adequate and potent UIP vaccines to all targeted children and pregnant women.
- Achieved reduction in utilization of vaccines from 3,053 lakh doses in pre-eVIN period to 2,149 lakh doses in post-eVIN period across the initial 12 eVIN states, mostly on account of wastage and mismanagement, resulting into savings of approximately 900 lakh (90 million) doses of vaccines.
- Supported a vaccine availability rate of over 99% at all cold chain points.
- Systemized processes by initiating corrective action to revise target population for cold chain points that were earlier out-of-sync, improve vaccine storage infrastructure and encourage effective planning and distribution.
- eVIN won the GSMA Asia Mobile Award 2017 (AMO) for Outstanding Mobile Contribution to Sustainable Development Goals in Asia.
- eVIN won the Public Health Initiative Silver Award at the India Health and Wellness Summit 2017.
- eVIN from Madhya Pradesh was awarded as one of the Best Innovations at the Third National Summit on Good & Replicable Practices & Innovations in Public Health Care Systems in India held at Tirupati in August 2016.
- Vaccine and Cold Chain Managers (VCCMs) deputed at the district levels and eVIN project staff have been recognised and awarded by the respective district and state administration for their outstanding effort and contribution to health care in various states.



Photo: UNDP India

Looking to the future

- Maintain efficiency of vaccine cold chain by ensuring timely and effective use of eVIN across all cold chain points in India.
- Automate the process of indenting and supplying vaccine using order management module based on historic actual consumption of vaccines and forecasting.
- Complete the process of temperature logger installation across the remaining states for accurate remote temperature monitoring.
- Continue to support health officers and healthcare workers at the last mile with capacity building and supportive supervision.



Photo: UNDP India

Status:

Ongoing

Project start date:

January 2017

Estimated end date:

December 2022

Focus area:

- accelerate structural transformations

Project office:

[UNDP in India](#)

Implementing partner:

United Nations Development Programme

Full project information

Funding Support by

Donor name

- United Nations Development Pro
- The Gavi Alliance

Amount contributed

\$40,003,781

Delivery in previous fiscal year

2021 \$713,090

2020 \$9,182,470

2019 \$8,989,307

2018 \$7,634,589

2017 \$1,241,548

<https://www.in.undp.org/content/india/en/home/projects/gavi1.html.html>