





### Major Programme Milestones

#### 2017 **Challenges of Supply Chain:** Introduction of New Vaccines --1) 2016 **MR** campaign Increase in consumer inventory & require more cold chain space.. introduction 2) Switching from one vaccine to another --Phase in: Phase out challenges **MNTE** validated 3) Global Shortage - -Needs effective management for optimum - IPV intro utilization eg. Global shortage of IPV Missio Indradhanush India certified 2013 polio-free al policy; Last wild polio virus reported from India: Penta introduc

# **Seven-level Vaccine Supply Chain**





# Universal Immunization Programme (Quantum of Vaccines)



# INDIA IS A SELF PROCUREMENT COUNTRY FOR VACCINE LOGISTICS, COLD CHAIN EQUIPMENT etc.

S.No	Routine Immunization Vaccine	Quantity (in million doses)	S.no.	Routine Immunization Vaccine	Quantity (in million doses)
1	Нер-В	16	7	DPT	22
2	тт	72	8	BCG	25
3	b-OPV*	165	9	Measles	25
4	IPV	55	10	MR^	85
5	RVV	22	11	JE^	35
6	Pentavalent	65	12	PCV	09

In addition 650 million doses are procured for Polio NID

# Universal Immunization Programme Ensuring regular supplies



- Large Cohort Large Requirement
- Projections are done for 2 years of cycle
- Lead time of 1 years is taken into account while planning vaccine supplies.
  - Procurement orders are placed accordingly
  - Adequate Buffer is kept at the National level





# Immunization Supply Chain in India



# Vaccine supply mechanism in India



Supply chain equilibrium maintained through push pull Stock oscillates between 1-3 month





# Challenges in Immunisation Supply Chain Management

- Uninterrupted Supply of Vaccines & Logistics
- Events to Absorb Shock when there is low yield and Batch Failure
- Short Shelf life of vaccines compared to other drugs
- Requires Cold Chain throughout the Supply Chain & Storage.
- Equitable distribution based on Consumption

Hence, Real time visibility at all levels in efficient manner is important.









# **Real-time Visibility of Vaccine Data**



# USAGE & TRANSFORMATION

VIN Z

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### People, Information & Procedures

evina

Transformation



# evin Weekly timely Reporting Rate (of 2 Million Cold Chain Point) > 95% Transactions Cold Chain Point) > 95%



-National %



### **Reduction in Stock Out Events**







### **Stock Out Duration Reduced – Post eVIN**



## eVIN Transformation into Government System

### **eVIN Costing Elements**

	One Time Cost by GAVI HSS support	Annual Recurring Cost (Taken by entirely by Government)
Infrastructure	Software – development, license etc	Hosting, Software testing and maintenance
Mobile Phones	Handset and SIM card procurement	Data cost (SIM)
Temperature Loggers	Logger device, SIM card for loggers, Installation costs	SIM data, Logger maintenance
IT Infrastructure	Laptops, internet dongles	AMC, internet charges
Capacity Building	Training needs assessment, material development etc	Refresher trainings, upgrading of eVIN modules/material
Human Resources	Staff recruitment cost – includes costs outsourced HR agency	Salary for - State and Regional officers, District manager; travel and DSA



# Vaccine Logistics Management with eVIN

### eVIN States

- 1. Stock management is digitalized.
- 2. Visibility across all Vaccine Stores.
- **3.** Remote Temperature Monitoring ensuring potency of vaccines across all levels.
- 4. Auto Indentation based on Consumption.
- 5. Timely expiry alerts based on consumption.
- 6. Better optimization of pipelines
- 7. Consumption based equitable distribution

#### Non-eVIN States

- 1. Stock Management is Manual.
- 2. Visibility till National and State stores.
- 3. No Remote Temperature Monitoring.
- 4. Manual process of Indentation not necessarily based on consumption.
- 5. No expiry date alerts.
- 6. Improper optimization.
- 7. Uneven distribution

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## **Improved & Efficient Health System**

# **Thank You**

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