

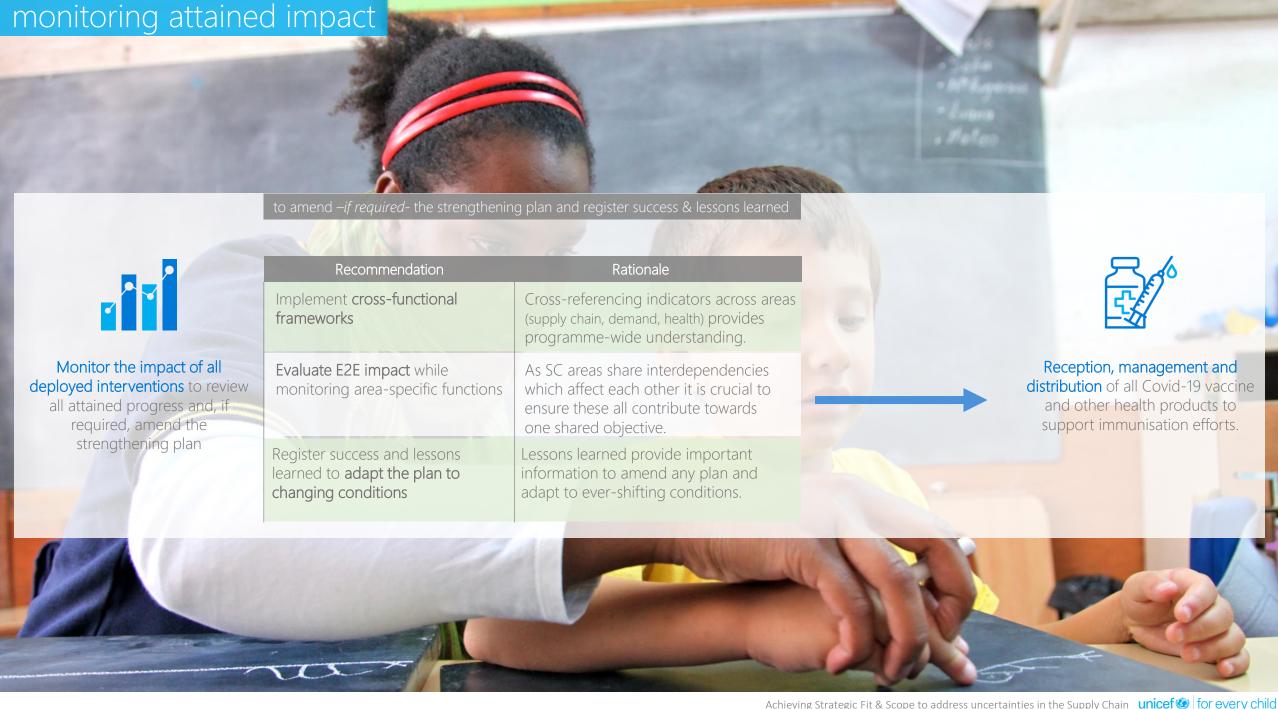




Develop a strengthening roadmap to lead the efforts towards preparing the supply chain for vaccine deployment based on the outcomes of the previous stage.

	Activity	Objective	Link to VIRAT & NDVP	Recommended tool(s)
	Strengthening the Human Resources to fulfil updated or new roles & responsibilities.	Ensure that staff across all areas of the supply chain and levels of the system are properly trained.	VIRAT – F1 – Training plan NDVP –Strengthen supply chain human resource capacity.	HR for Supply Chain Management     Training needs assessment.     Workforce Optimisation Tool.
ne h.	Reinforcing supply and stock management practices.	Ensure proactive stock management practices that prevent stock-risky situations and enable accurate and timely reporting.	VIRAT – H7 – update stock management tools and SOPs NDVP –Assess vaccine, logistics and CC capacity needs and reverse logistics.	Preventing in-country stock-risky situations through prescriptive analytics
	Improve supply chain track and trace capability.	Where feasible, establish a traceability system for health products	VIRAT – H7 – Update stock management tools. NDVP – Manage and track vaccines effectively.	1. <u>Guidance on traceability</u>
	Private sector engagement to complement logistical capacity.	When required, engage 3PLs to increase operational capacity	VIRAT – H5 – Contracting. NDVP – UCC preparation.	1. <u>Private sector engagement</u>
	Strengthen waste management capacity.	Plan the appropriate mechanisms to address all created wastage	VIRAT – H6 – Disposal of wastage. NDVP – Manage healthcare waste	1. <u>Guidance on traceability</u>





High-level readiness assessments				
#	Name	Description	Link	
1	WHO/UNICEF Vaccine Readiness Assessment Tool.	This tool provides a roadmap for countries to plan for COVID-19 vaccine introduction and a structured framework for countries to self-monitor their readiness progress against key milestones. Countries can use the VIRAT to identify area where support may be needed.	<u>Tool</u>	

## Enhancing in-country readiness



## Stage 1 – Assessing the national immunisation supply chain

#	Name	Description	Link
1	Cold Chain Equipment Inventory and Gap Analysis tool.	This tool provides support for vaccine inventory management.	Tool
2	Immunization supply chain sizing tool.	This tool provides information on equipment, supply and budget requirements needed to support deployment and vaccination operations based on the size of the population to be vaccinated.	Tool
3	Supply Chain Maturity Model.	This model identifies gaps and priorities across all areas of the supply chain which serves as the foundation to develop context-specific strengthening roadmaps, informs government response plans and serves as an M&E framework to measure attained progress from all deployed interventions.	Training site Assessment site
4	Supply Chain Analysis and Intelligence Tool (SCANIT).	This tool analyses in-country supply chain design and operational capacity (storage, distribution capability and network design) to provide national and sub-national decision-makers with an understanding of trade-offs between different supply chain scenarios.	Tool Time-limited access
5	Guideline to strengthen national data systems.	This guideline provides a methodology to review national information system across all of its components, these are Environment (i.e., policies), Capability (i.e., data analytics capacity) and Enablers (i.e., technology). The results of this assessment will inform an improvement plan to increase the government's capacity to mine and exploit data to inform decision-making processes.	Guideline
6	Pre & post-service delivery checklist.	Operational checklist for monitoring availability of service delivery needs.	Checklist



# Stage 2 – Developing the strengthening roadmap

#### Human Resources

#	Name	Description	Link
1	Human Resources for Supply Chain Management.	Assessment tool for estimating HR-related needs for health supply chains across four pathways. The tool estimates staff gaps and needs for each SC level and function.	Tool
2	Training needs assessment.	This tool provides a set of resources for country-driven and low cost SCM training mapping, analysis and planning. to identify training based on defined SCM competencies.	Tool
3	Workforce Optimisation Tool.	This tools creates staffing scenarios using storage locations, demand data and distribution processes of products across supply chain network.	Tool

#### Data Analytics & Information systems

#	Name	Description	Link
1	Data triangulation methodology to inform programme- wide strategic and tactical decisions.	This document provides a detailed explanation on how to match supply chain and health-related data to provide programme-wide management and increased capacity to exploit available operational and programmatic data to inform decisions.	Guideline Example Tool
2	High-level roadmap for developing in-country track and trace through GS1 standards	This document provides an overview on how countries can implement GS1 compliant track and trace systems to further increase their capacity to address sub-standard products, falsification and diversion.	<u>Guidance</u>

#### System Design & Logistics Operations

#	Name	Description	Link
1	Route Optimisation Tool (ROOT)	This tool identifies optimal routes for the distribution of health products based on transit times and risks to health products due to poor road conditions.	<u>Tool</u>
2	Private Sector Engagement	This document provides an overview on how the private sector can be approached to enhance operational capacity through hiring third party logistic vendors.	Guideline
3	Vaccine Management and Logistics Support	This document provides guidance on management and logistics support for deploying vaccines.	Guideline
4	Appropriate disposal of Immunisation waste	This tool provides a detailed description on how to implement waste management processes in the country to address all immunisation-related waste.	<u>Tool</u>



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