Monitoring Vaccine Utilization and Wastage

	asted	Sacrificed for a good reason
Ō	 Losses of inventory, in unopened vials, for different reasons: expiry, damage from cold chain breakdowns, breaking, freezing. Losses due to failure of multi-dose vial policy, discarding opened vials of vaccines eligible for reuse because of misuse or ignorance of the multiple-dose vial policy: TT, DTP, HepB, etc. Losses of misuse include administration of incorrect doses, invalid doses at wrong intervals and ages. 	 vaccination session, in line with the multi-dose vial policy: BCG measles-containing vaccine, yellow fever. Unplanned administration of vaccine (non-target populations booster doses, other population groups).
Ke	y Considerations:	Key Considerations:
•	Effective Vaccine Management (EVM) limits at maximum ultraviolet wastage $w_i = 1\%$ per storage facility. For the entire supply chain: $\sum^n w_i$ ($n = No.$ of supply chain levels) Managers anticipate reasons leading to actions to avoid wastage. Establish a system to record and review vaccine losses.	
Tw	vo Types of Wastage (Unopened Vials v. Opened Via	ils)
Ur	nopened Vial Wastage	Opened Vial Wastage
•	Doses supplied X 100 Cold chain failure: × ⇒ Freeze-sensitive vaccines frozen ⇒ Poor stock inventory control Expiry from non compliance to breakages, damaged labels, missing inventories. Poor forecasting: ⇒ Expiry from over-supply	 Construction and a state of the termination of termination of the termination of termination