



A story about the supply chain challenges in country Benjamin Schreiber (UNICEF)



Thailand, May 2015 – adapted from WHO SAGE November 2013



## Immunization supply chain system Backbone of national immunization programmes

Supply chains developed over 30 years ago!

Taken for granted that these systems run smoothly today

Recent evidence indicate that systems are stretched

And will be a bottleneck to new vaccine introduction if we continue with "business as usual" approaches to addressing current and future challenges!

## **Vaccine Arrival**

## **Frequency and quantities are increasing**

One of 20+ vaccine shipments arriving per year

Source: Dereje Haile (UNICEF)

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### Vaccine Arrival

## Vaccine volume beginning to exceed management capacity



## **Storage Capacity** More and new vaccines fill limited space



## **Temperature Control**

## Temperature monitoring essential but costly and not prioritized



#### Maintenance

**Cold chain equipment requires regular maintenance** 



In Nigeria, 40% of the cold chain equipment is non-functional

lack of spare parts and technical ability to maintain equipment

Source: Serge Ganivet (WHO)

### **Distribution**

## In-country transport is the weakest link in the supply chain

In-country transport of vaccine often lead to temperature excursion

## Distribution

Getting more vaccines to remote communities is difficult

Reaching the last mile with more vaccines is a challenge

#### Infrastructure

Ancient and inefficient equipment is still used at health center level



#### Human resources

## The supply chain extends all the way to service delivery

New vaccines means health workers need to carry more and more supplies

# Vaccine Management

## Avoidable wastage is widespread



## **Vaccine Management**

### Use of expired and poorly stored vaccines is a concern



## Waste Management More and more syringes to dispose of safely



## **Information Systems**

Point of service data could help improve forecasts

Challenge of getting timely information of vaccine stocks at lower levels to improve forecasting of needs Paper based system is time-consuming and error prone

Source: Aya Kouame (Independent)

# Thank You

