



Key immunization supply chain challenges

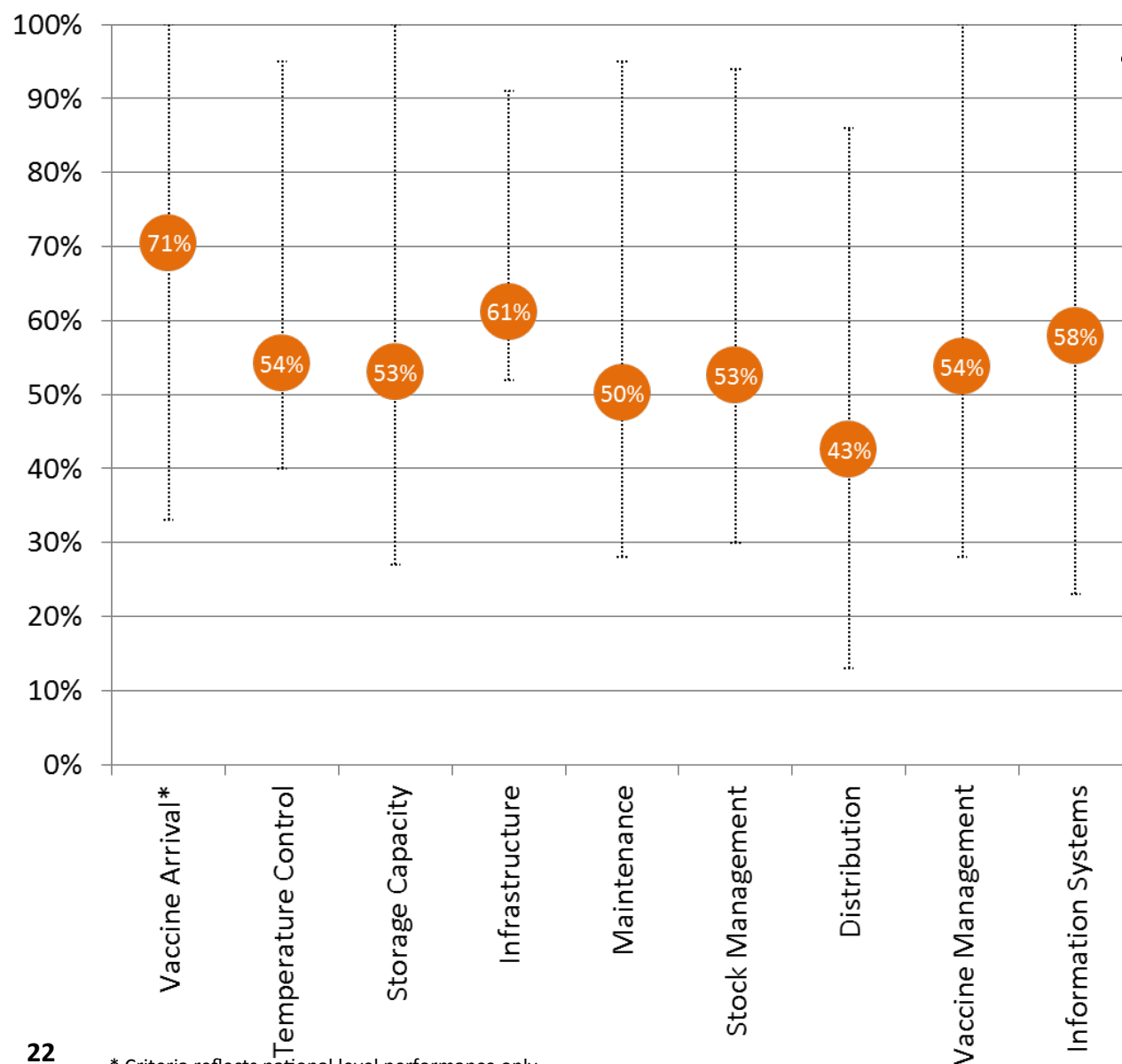
Jos Vandelaer (UNICEF)



Setting a standard for the in-country immunization supply chain

- In 2010, WHO developed a diagnostics tool to assess the health of in-country supply chain system: *national, regional, district and health center level*
- The assessment evaluates the system according to 9 effective vaccine management (EVM) criterion: *Vaccine arrival, Temperature control, Storage capacity, Infrastructure, Maintenance, Stock Management, Distribution, Vaccine Management, Information Systems*
- For each level, each criterion will get a **score between 0-100%**. An 80% score is the minimum standard recommended by WHO for a criteria
- Sampling of sites in the country is done to ensure a **90-95% confidence interval** in the scores estimated
- Of the 70+ countries having conducted an EVM assessment between 2010-2012. The data from 57 countries has been analysed

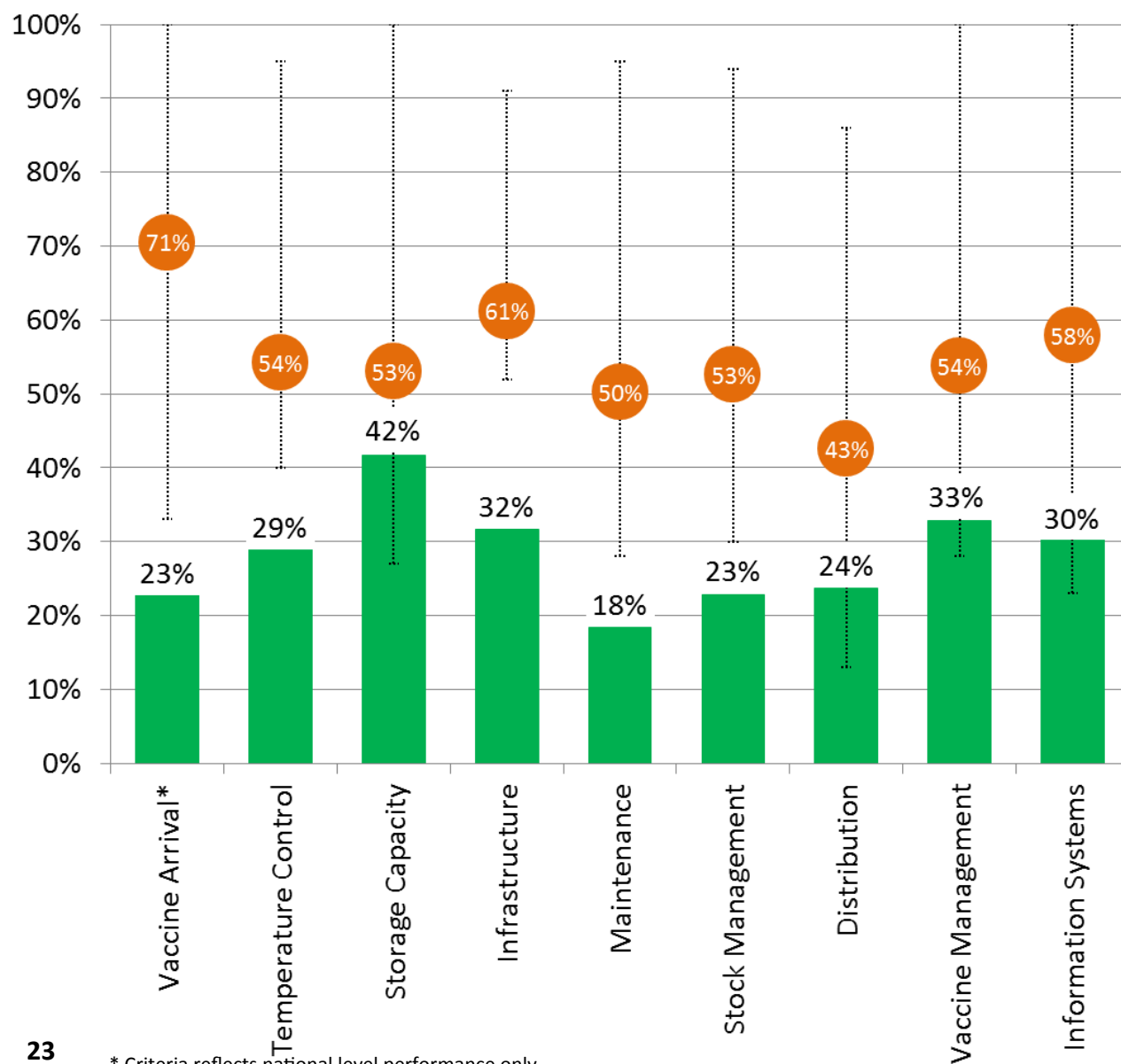
Ongoing challenge: Reaching effective vaccine management standards



- **EVM assessment findings in 57 countries from 2010 to 2012**

● Median EVM score and range (Sub-national level)

Ongoing challenge: Reaching effective vaccine management standards



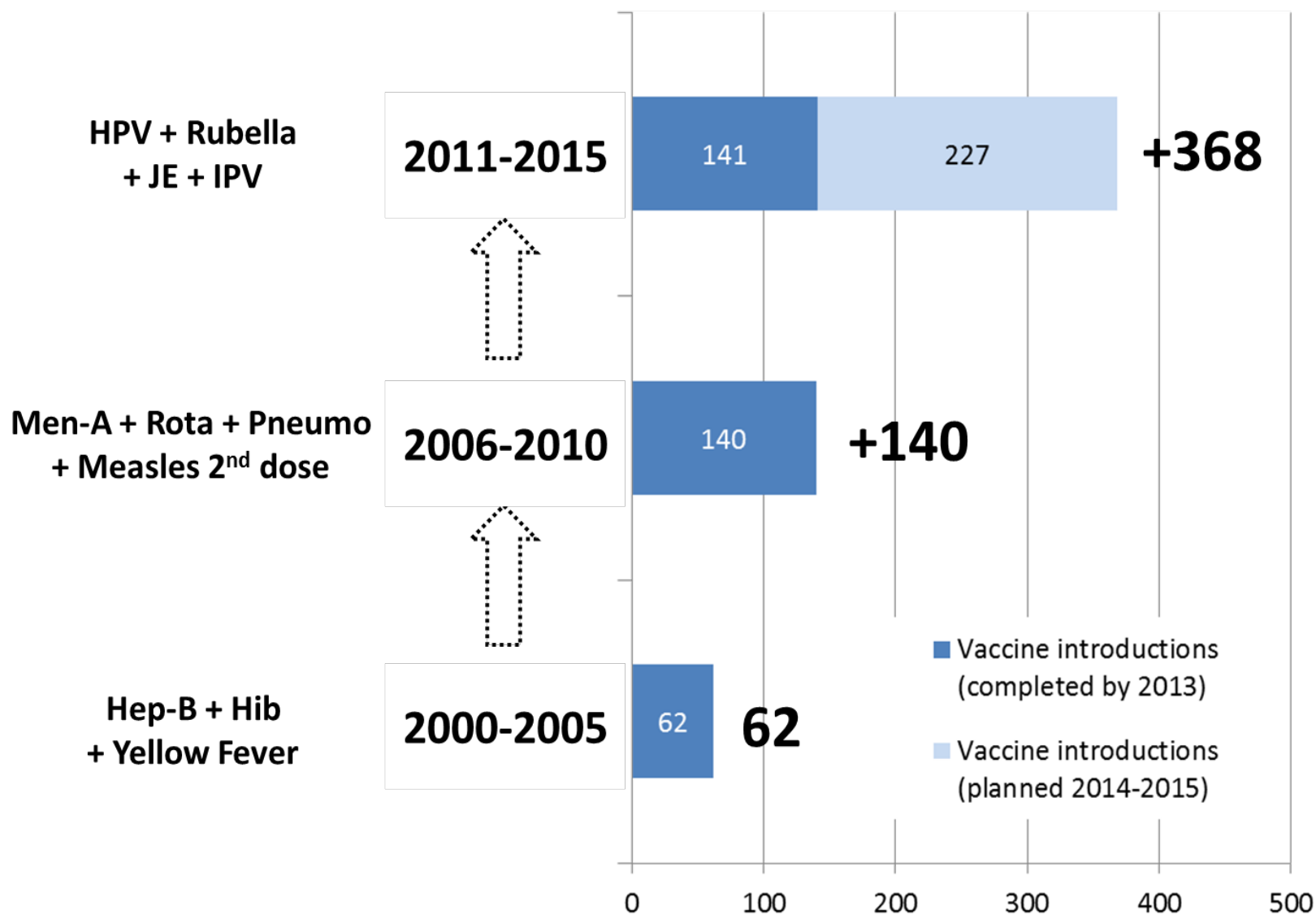
- No country meets all minimum standards for all criteria, at all levels of the supply chain

■ % Countries that meet WHO minimum recommended standard

● Median EVM score and range (Sub-national level)

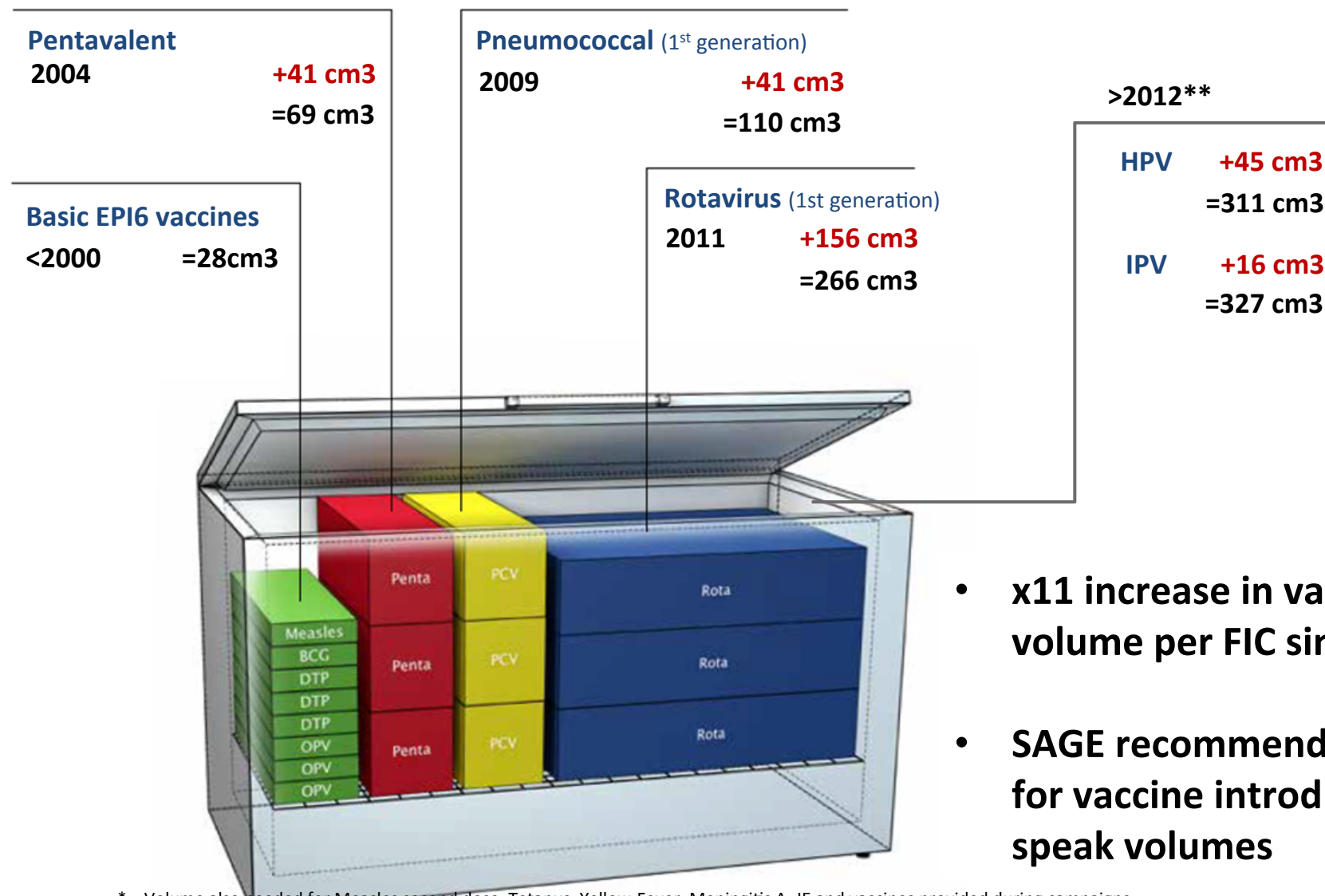
Acceleration of supply chain challenges and readiness

No. of vaccine introductions
(not cumulative)



New challenges: More storage space is required

Volume of vaccine per fully immunized child*

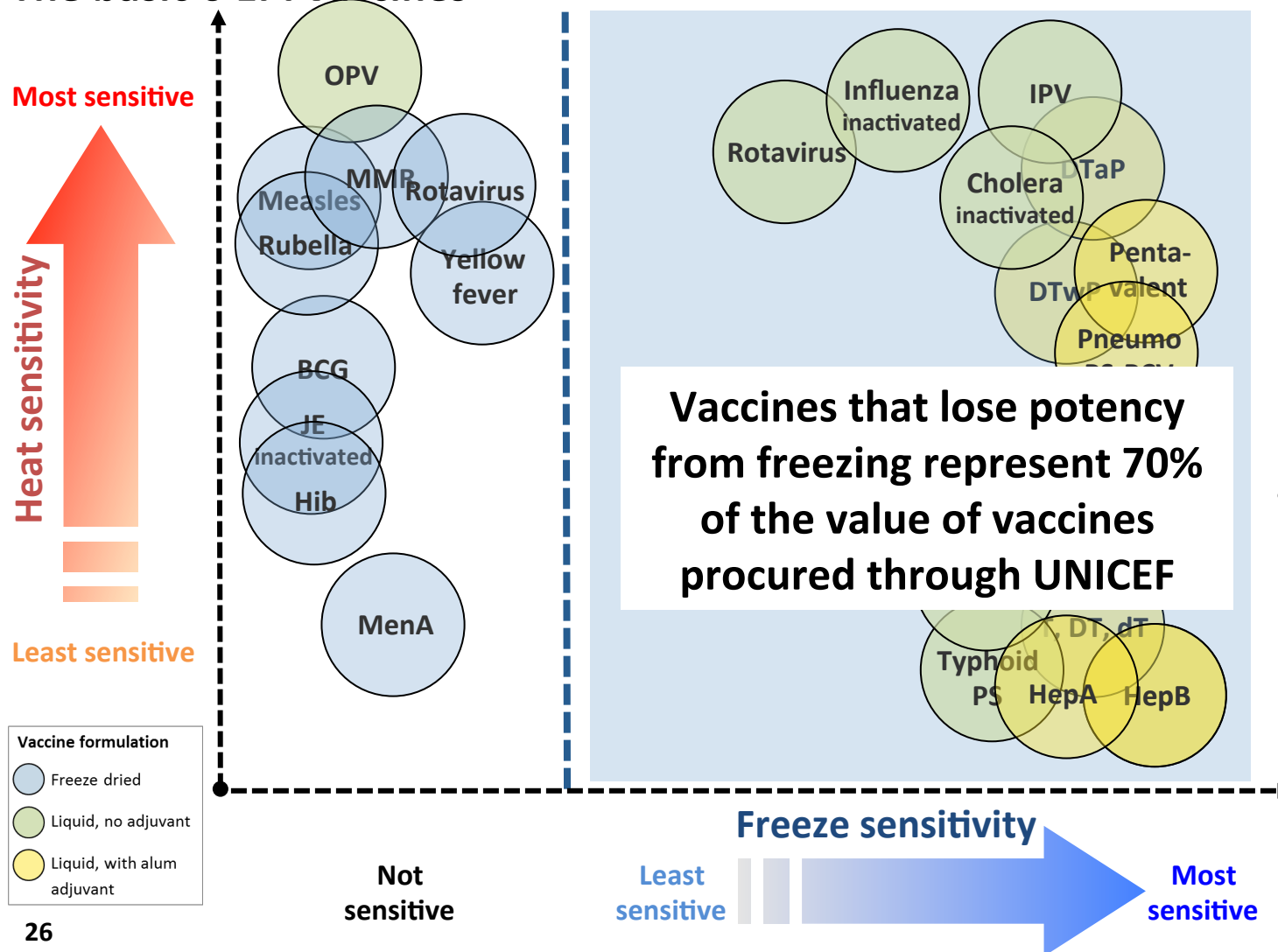


- x11 increase in vaccine volume per FIC since 2000
- SAGE recommendations for vaccine introduction speak volumes

The quality of storage is a greater concern

Protecting vaccines against heat exposure will continue to be a challenge!

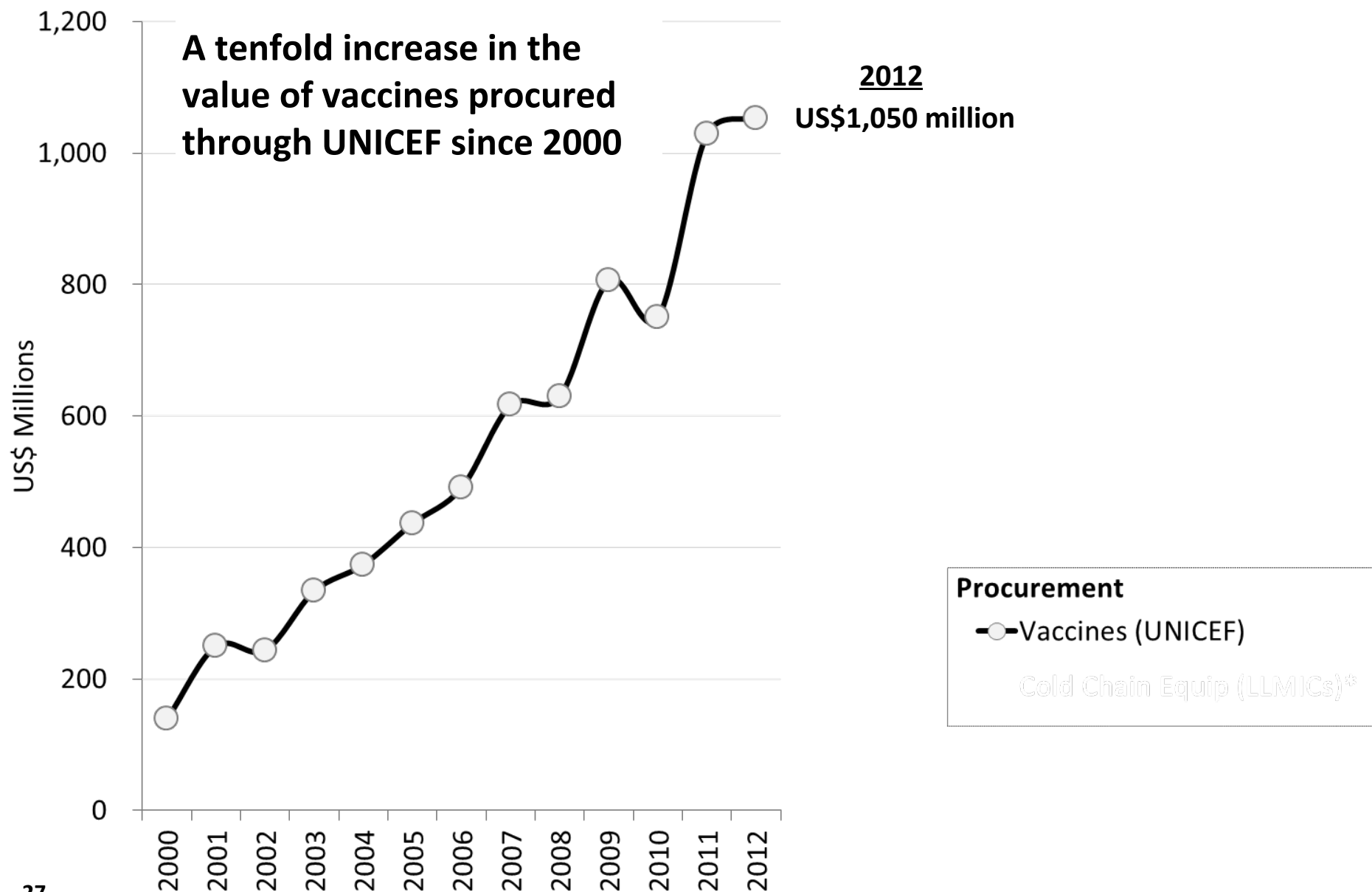
The basic 6 EPI vaccines



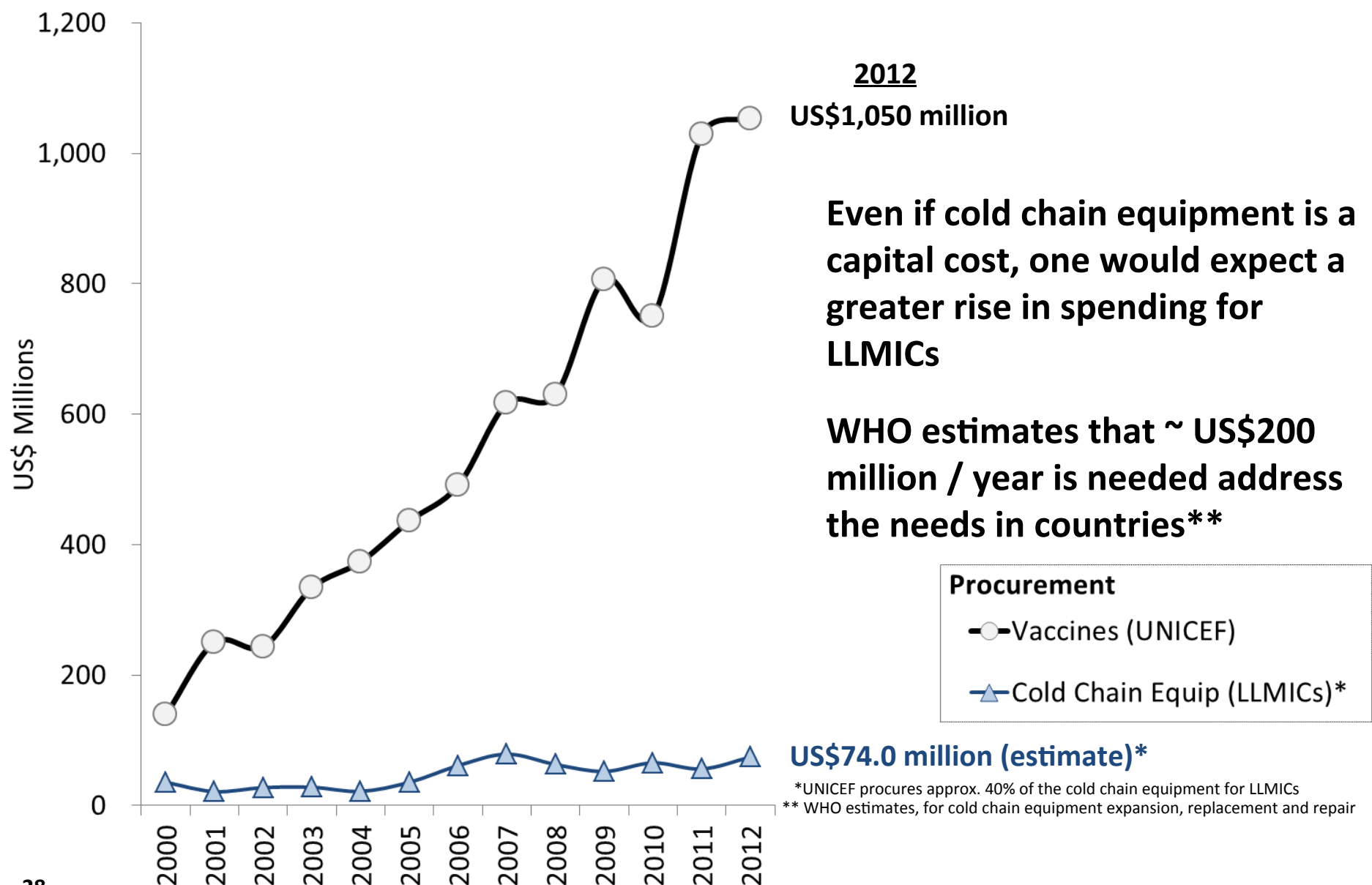
Studies show that 35% of vaccines are exposed to extended periods of freezing in the cold chain!

Temperature monitoring can protect vaccine potency but not prioritized

Vaccine and cold chain spending: A growing gap?



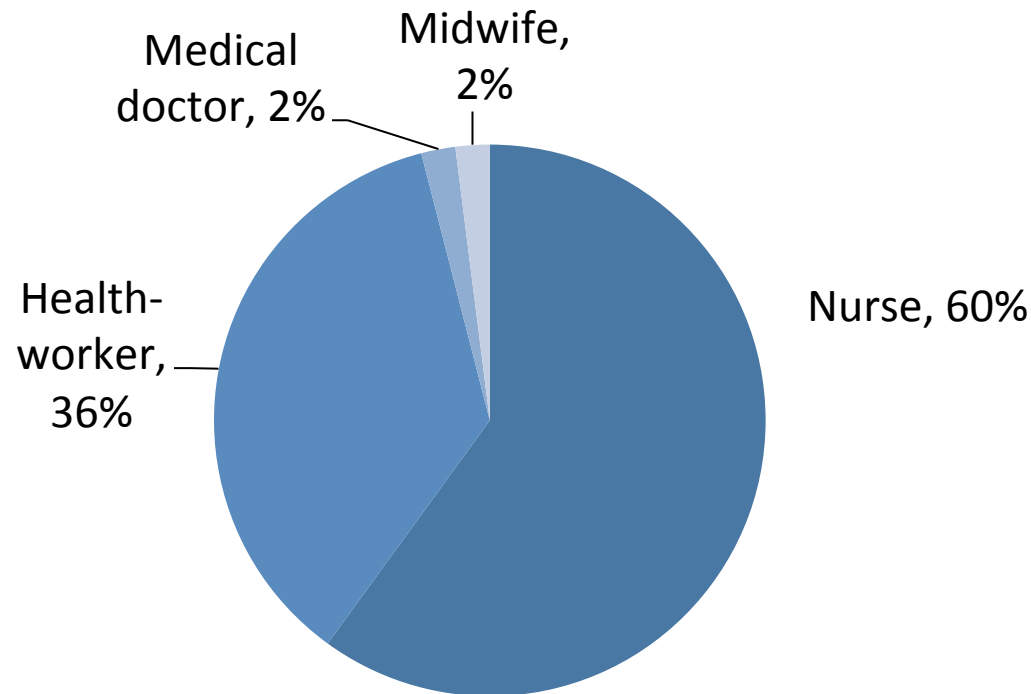
Vaccine and cold chain spending: A growing gap?



The human resources challenge

Human resource challenge for immunization supply chains:

Example at country level (Benin, 2012)



“When you use a nurse or a physician as a logistician, you lose the nurse or physician and you don't get a good logistician!”

Dr. Saracino, former Minister of Health, Côte d'Ivoire
TFI members briefing, Harare, Oct.2006.

This is today's new reality and paradigm shift

