

Vaccine Presentation and Packaging Advisory Group (VPPAG)

DCVMN, Hanoi 8 October 2012

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Outline

- A. Programme Context
- B. History
- C. Role in WHO advisory structures
- D. Composition
- E. Workplan
- F. DCVMN participation and inputs



In spite of our technical advances (including space travel)



The world is not on track to achieve its MDG commitment to a 67% reduction in child mortality by 2015



In many communities, more than one in ten children die before their fifth birthday, from preventable diseases



Simple interventions can shift the balance from death to life for millions of children each year like...



Clean water



Adequate Nutrition



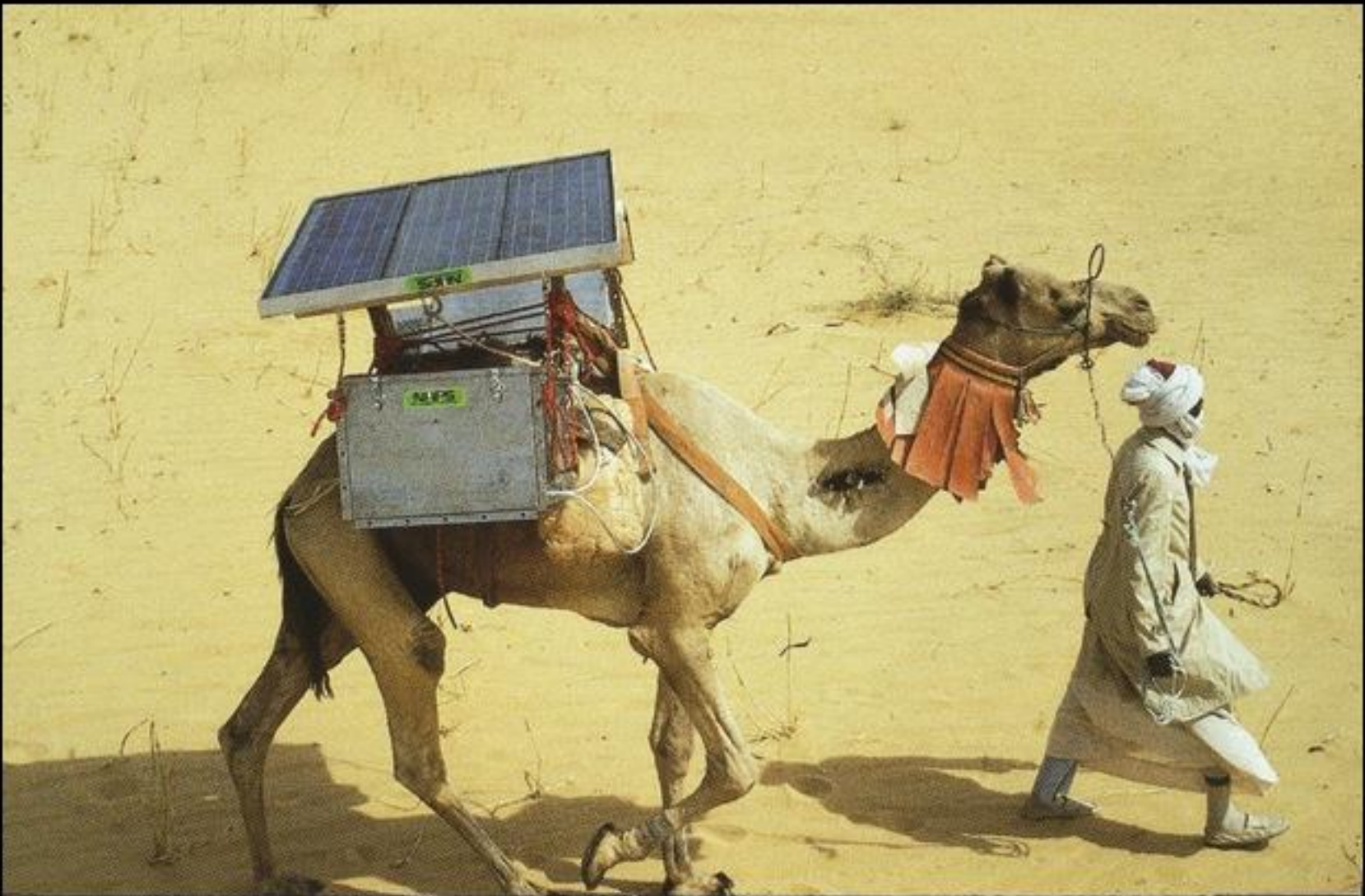
Immunization

New vaccines offer hope against the two leading child killers – pneumonia and diarrhoea



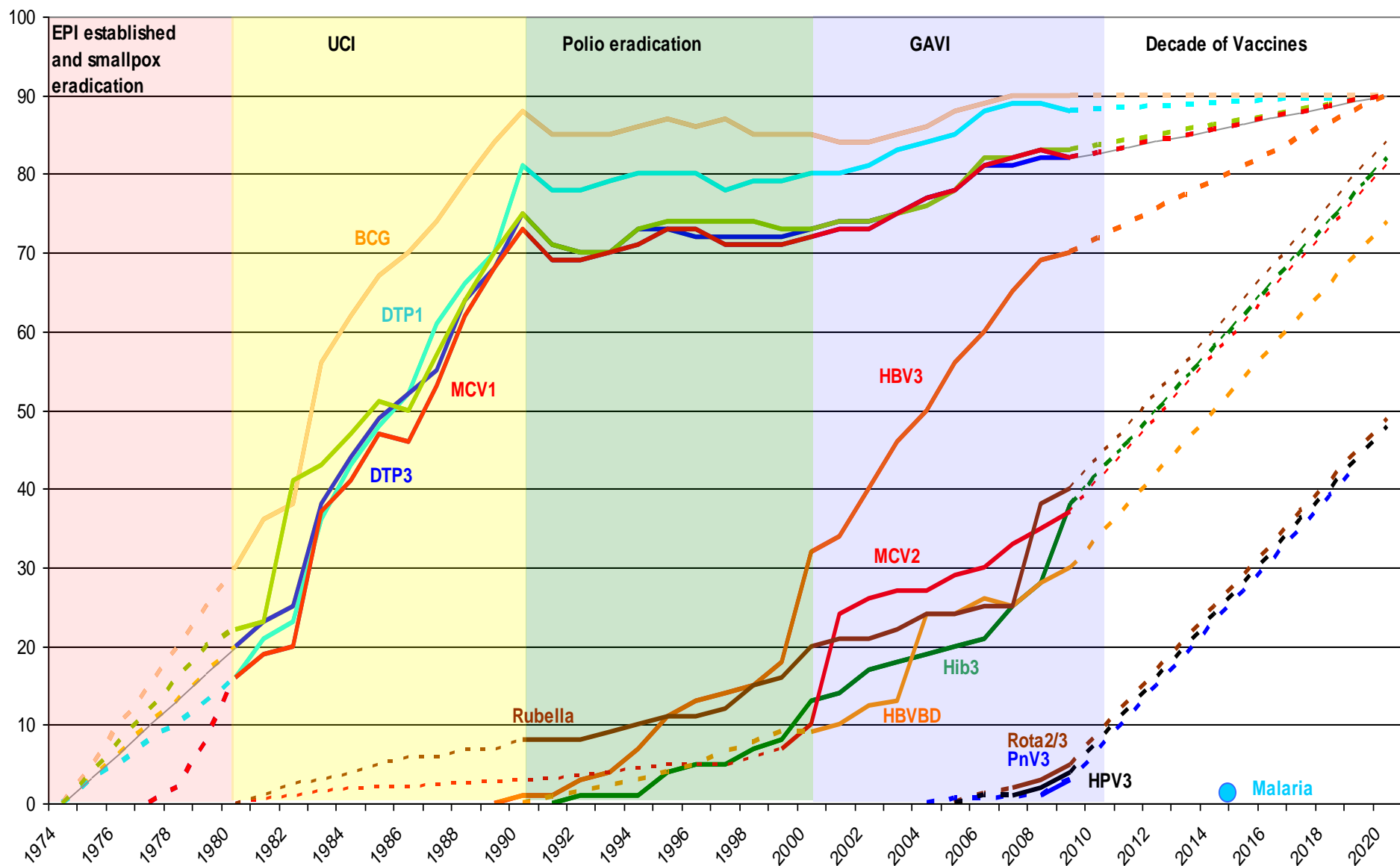


But vaccines are not reaching those most in need

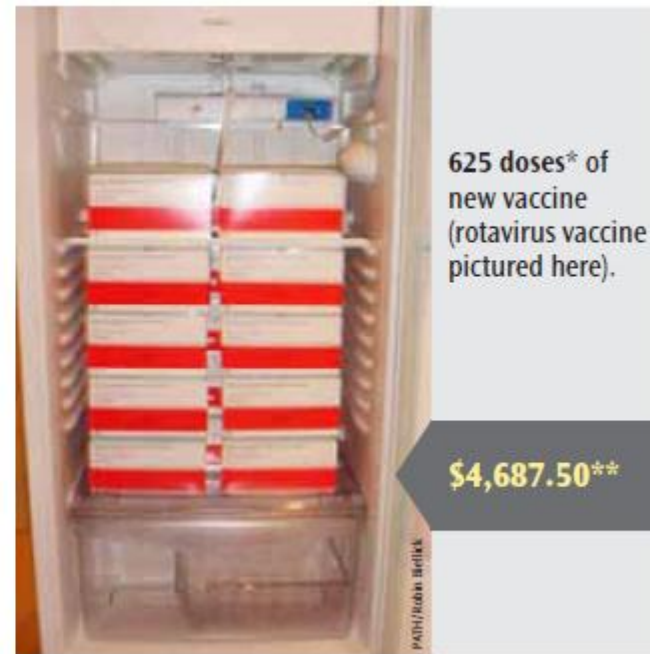


New technologies can help us...and this includes the presentation & packaging of vaccines

More and more vaccines to deliver



New vaccines: more money & space



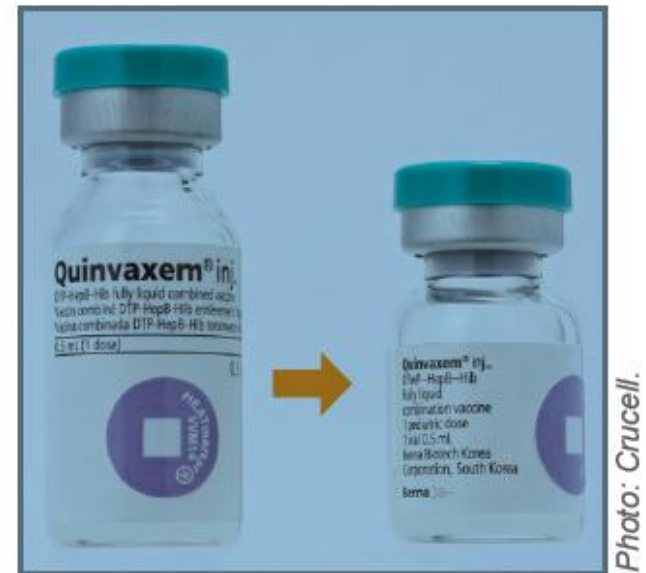
- A refrigerator full of 4,100 doses of traditional vaccine valued at US\$635.50 compared to a refrigerator full of 625 doses of a new vaccine valued at US\$4,687.50.
- The value of vaccines in the refrigerator on the right is worth more than the refrigerator itself.

*Source: World Health Organization (WHO). *Guidelines on the International Packaging and Shipping of Vaccines*. WHO/V&B/01.05. Geneva: WHO; 2001.

**Based on US\$0.155 per dose for polio and measles and US\$7.50/dose for Rotarix.

History

- Established by GAVI in 2007
 - “How many doses per vial?”
- WHO convened from 2008
 - No formal standing
 - Link to policy through WHO Immunization Practices Advisory Committee (IPAC)
- History of VPPAG described in January 2013 edition of the WHO Bulletin: www.who.int/bulletin/volumes/91/1/12-110700.pdf
- Impact of work described in Sep 2013 Optimize newsletter available at <http://www.path.org/projects/project-optimize-newsletter>



Before and after: Crucell's Quinvaxem® vaccine presentations.

Photo: Crucell.

Composition

- Industry
 - DCVMN
 - IFPMA
- Public Sector
 - CDC
 - GAVI Secretariat
 - JSI/MCHIP
 - WHO (EPI + QSS)
 - UNICEF (PD +SD)
- Donor
 - BMGF

Chair: Michel Zaffran
zafranm@who.int

Secretary: Dmitri Davydov
ddavydov@unicef.org

Monthly calls: 2nd Tuesday

Active subgroups:

- Barcodes
- Harmonization

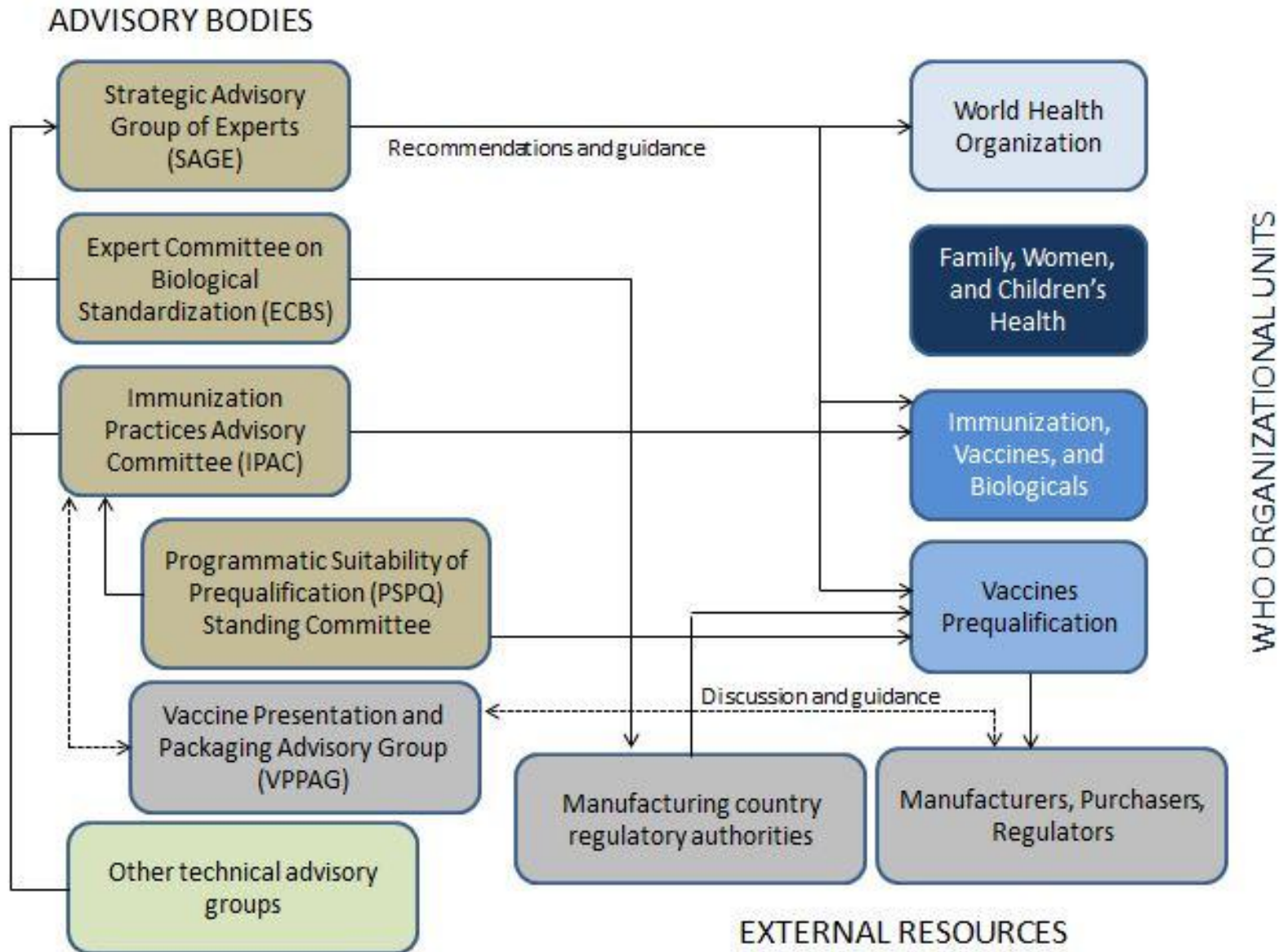
Role of VPPAG (TORs)

- Serves as a forum for **industry and public-sector dialogue** and **consensus-building** on presentation and packaging of vaccine products.
- Responds to **industry requests for guidance** on specific product presentation issues.
- Facilitates improvements in presentation and packaging of vaccine products through development of **preferred product profiles**.

VPPAG documents including Terms of Reference (TORs) available at

http://www.who.int/immunization_delivery/systems_policy/vppag/en/index2.html

VPPAG relation to WHO advice



Vial label: VPPAG advice

New recommendations being presented to WHO ECBS this year, based on VPPAG advice (through IPAC):

- Generic names for vaccines
- Standard expiry date format (mm-yyyy).
- Minimum font size and type.
- Minimum viewing area.
- Consistent layout
- (barcode)



Finger on new-style label

Workplan 2013

Continuation of 2012 work:

- Barcode
- Updating the gPPP
- Harmonization
- Responding to requests

Barcode Group

- Multiple partners – work in Tanzania
- Opportunity to join group for all DCVM members
- Recent survey of industry.
- GS1 supporting this group



Photo credit: CNW Group/SANOFI PASTEUR.

Sanofi Pasteur vaccine
with GS1 2D DataMatrix
bar code.

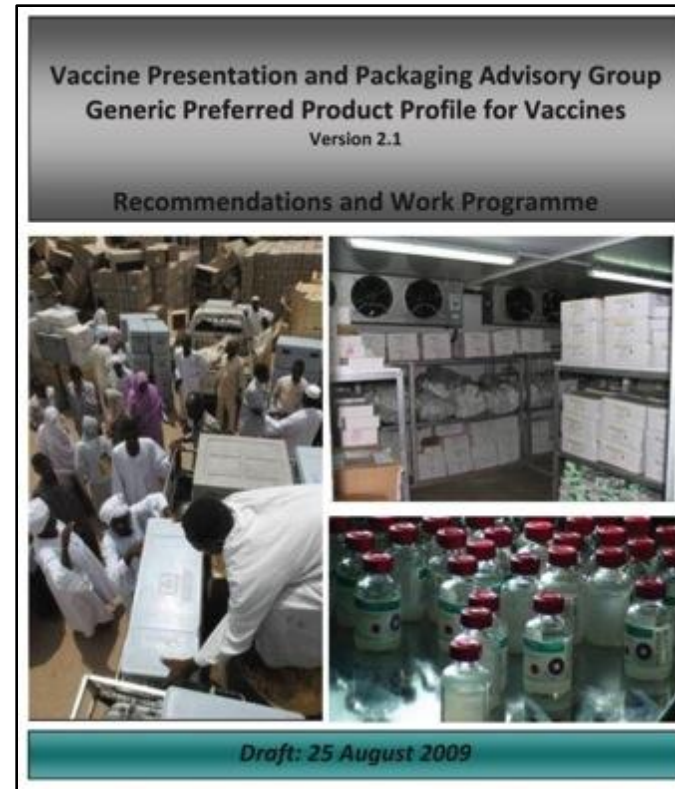
Updating Generic Preferred Product Profile for Vaccines

Topics include:

- Vaccine container dimensions and volumes.
- Bundling multicomponent vaccines.
- Doses per container.
- Labeling for higher-temperature storage.

Update will cover:

- Pack volumes and harmonization
- Bundling of multi-component containers
- Environmental packaging
- Compact, prefilled auto-disable syringes
- Labeling for higher temperature storage



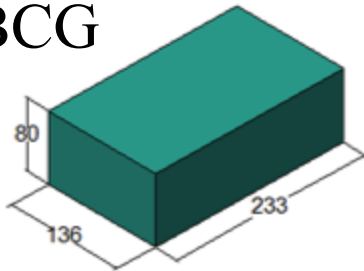
Harmonization Group

- To make best use of the limited storage space by having harmonized packs & appropriate pack sizes for different levels of supply chain
- Group includes packaging experts from several companies (more welcome!)
- Led by Andrew Garnett who did comprehensive review of current vial and pack sizes

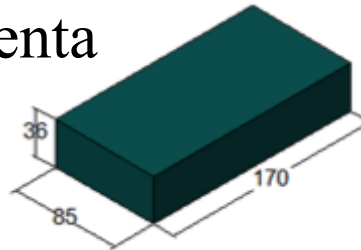
Volume utilization: RCW 25 cold box with five vaccines

Vaccine	Mfr	Presentation (doses)	Doses per carton	Carton orientation		
				Z	YZ	XYZ
BCG	Japan BCG	20	2000	42%	49%	63%
BOPV	GSK	20	2000	47%	66%	75%
Penta	Crucell	1	50	50%	76%	78%
Measles	SII	10	500	61%	82%	87%
TT	Biofarma	10	100	82%	82%	82%
Min				42%	49%	63%
Max				82%	82%	87%

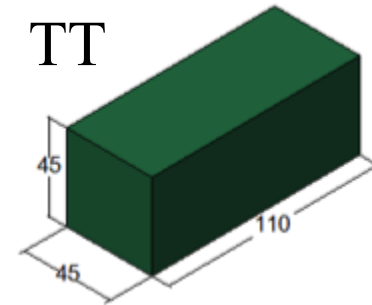
BCG



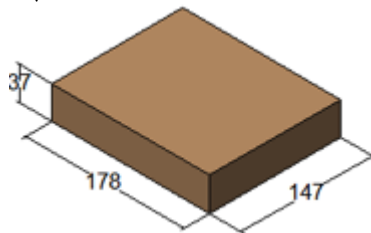
Penta



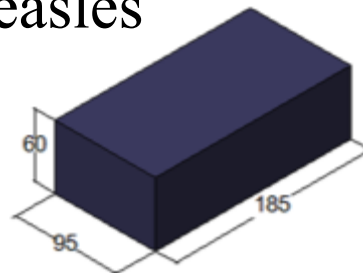
TT



bOPV



Measles



**Five secondary
cartons from five
manufacturers.**

***No common
dimensions!***

What happens at the national store?

Problem:

Secondary cartons too *small* an SKU

Result: Stock control failures

Solution: Tertiary cartons the correct SKU at this level

But: Not universally offered



Problem: Secondary cartons often too large an SKU

Consequences:

- Loose vials
- No package insert



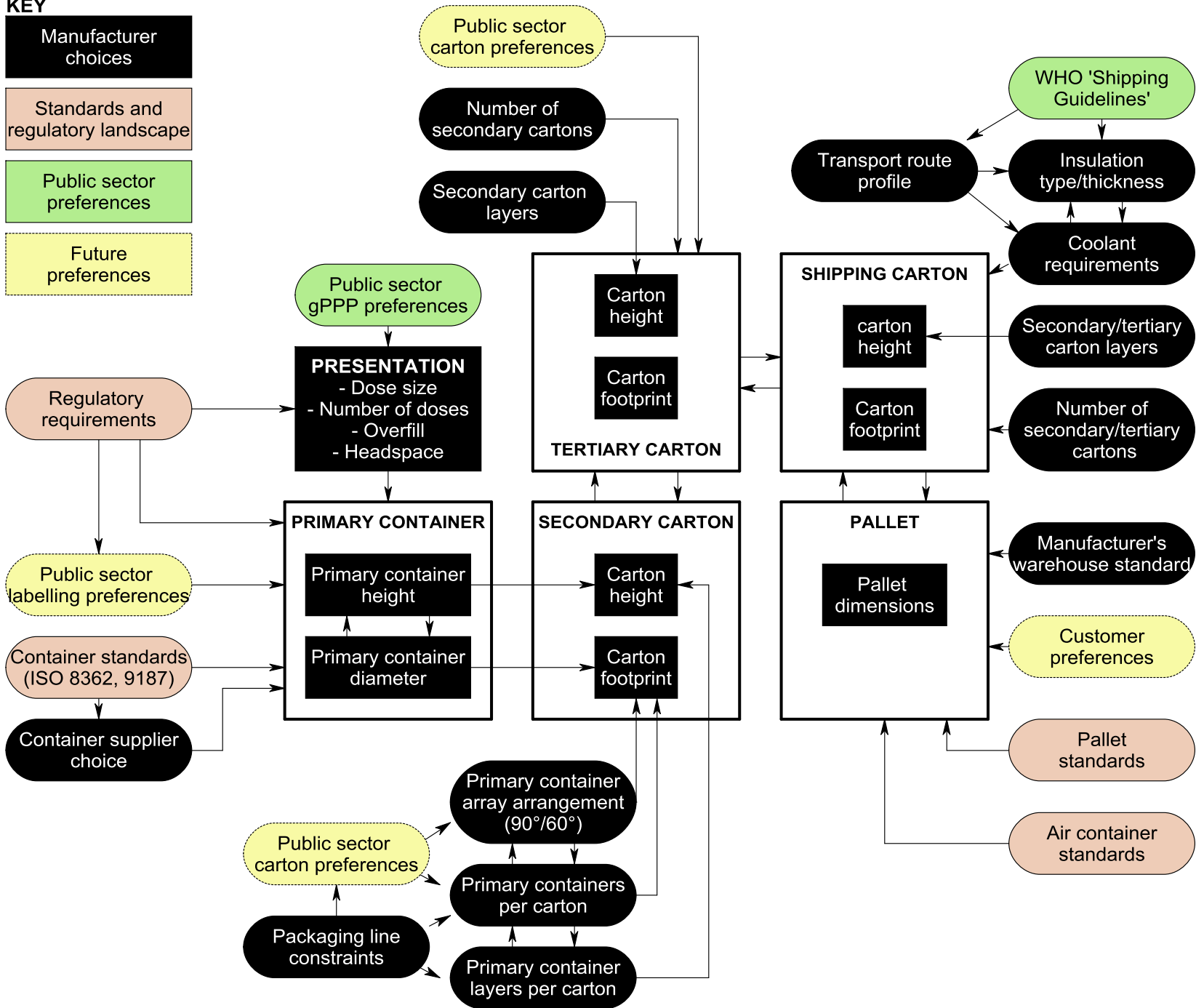
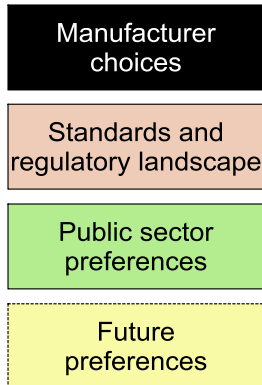
Anthony Battersby

Problem: Loose vials leading to damaged labels and discarded vials



Interrelationships driving packaging choices

KEY



DCVMN participation

- DCVMN members encouraged to join VPPAG dialogue and groups through their representatives:
 - Inderjit Sharma inderjit.sharma@seruminstitute.com or
 - Gisele Corrêa Miranda Gisa@bio.fiocruz.br
- The public-sector members of the VPPAG are available for consultations with industry about product profile issues.
- Contact Chair zaffranm@who.int , Secretary ddavydov@unicef.org, or me omansoor@unicef.org