

# Metrics for tracking the health of Vaccination Ecosystem

# Which vaccine-preventable diseases should be targeted?

## How to set up priorities?

Possible indicators related to vaccines:

- # of antigens/vaccine candidates according to funded or unfunded status
- # of on going trials according to development stages:
  - % of total spend
  - % of on-going/planned activities

Criteria related to diseases & population:

Segmentation according to:

- Global medical needs
- Regional medical needs
- Special population such as:
  - 5<sup>th</sup> child
  - Militaries
  - Travelers
  - HCPs
  - Refugees
  - Immuno-compromised
  - Specific age groups
  - Pregnant women

Today and horizon scanning

# Innovation

## Topic

- R&D Activity
- Delivery technologies
- R&D Accelerators
- Tech Transfer

## Metric

- By phase, geography, vs. TPP, new, improved or “me-too”
- Prioritised & rewarded by Total Systems Cost Effectiveness.
- Adaptive Regulatory
- Adaptive Clinical
- Surrogate markers
- Translational Medicine
- Immunology
- To be defined

# Confidence

## Topic

- AEFIs
- Perception/Acceptance/Refusal surveillance
- Response system & Comms
- Effectiveness

## Metric

Establish min. & best practice

- GVSF – Blueprint – WHO
- Review SAGE/GVAP/Other proposals
- Compare to min & best practice
- See Impact Metric

# Second Level Analysis

- Root Cause Analysis – Five times “Why?”
  - Coverage
  - Un/Undervaccinated
  - Supply

# Coverage

**Acurate coverage data  
on ongoing basis  
generated within  
countries**

- Public/ private
- By vaccine

**Epidemiology of the  
unvaccinated**

- **Review methodology/  
technologies**
  - Agree minimum + preactices
  - Measure % vs Min & best practices
  - Electronic registry
- **Segmentation**
  - Globally, nationally, sub  
nationally
  - Population:
    - Age groups
    - 5th child
    - Religion
    - Ethnic
    - Migrants

# Health / Vaccine Systems and Reach

- Vaccinators
- Vaccine campaigns / sessions
- Information systems
- Linked to coverage, policy and funding indicators
- # / 100,000
- Scheduled vs. actual completed
- % of minimum and best practice (e.g., quality of admin data vs coverage surveys, % of facilities reporting)

# Policy / Funding

- Policies / legislative commitments for immunization program
- Policies / legislative commitment to universal access to vaccines
- Policies for regulatory harmonization
- Funding for immunization program implementation, surveillance, technical advisory group
- Linked to health systems, coverage, supply, innovation indicators
- % of minimum and best practice
- Total budget and as a % of total MOH budget and total public spending

# **Pricing of vaccines and cost of vaccination**

## **Metric**

- **Pricing of vaccines**
- **Cost of vaccination**

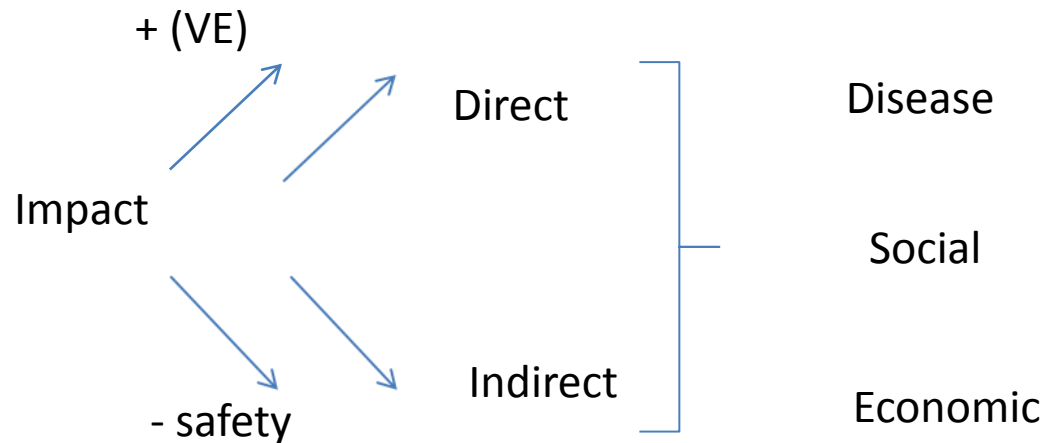
## **Details**

- **Procurement practice**
  - **Minimum and best %**
- **Total including wastage**
- **Segment by income level**
  - **Weighted Average Price to fully immunize child**
  - **Weighted Average Cost including delivery**

# Supply

Metrics	Comments
No. of PQed vaccines from producers	<u>Segmentation (Based of Ecosystem Goals)</u> <ul style="list-style-type: none"> <li>- «North vs. South» producers</li> <li>- R&amp;D vs. Non-R&amp;D producers</li> </ul>
Availability	
Security	
<b>No supply – what?</b>	
No. of supplier missing shipment plan	<ul style="list-style-type: none"> <li>+ Demand forecast</li> <li>+ Regulatory barriers</li> <li>+ Process problem</li> <li>+ Availability – quality – planning</li> </ul>
No. of country introduction delay	
No. of program introductions	
<b>No supply – why?</b>	
No. of suppliers	<ul style="list-style-type: none"> <li>+ Regulatory harmonization, capacity and capabilities</li> </ul>
No. of releasing NRAs	

# Impact



Stratified by Global, National, Subnational, Special population

Age

5th child

Religion

Minority

Ethnic

Migrant