

Workshop 3: Total Systems Effectiveness

Panel members:

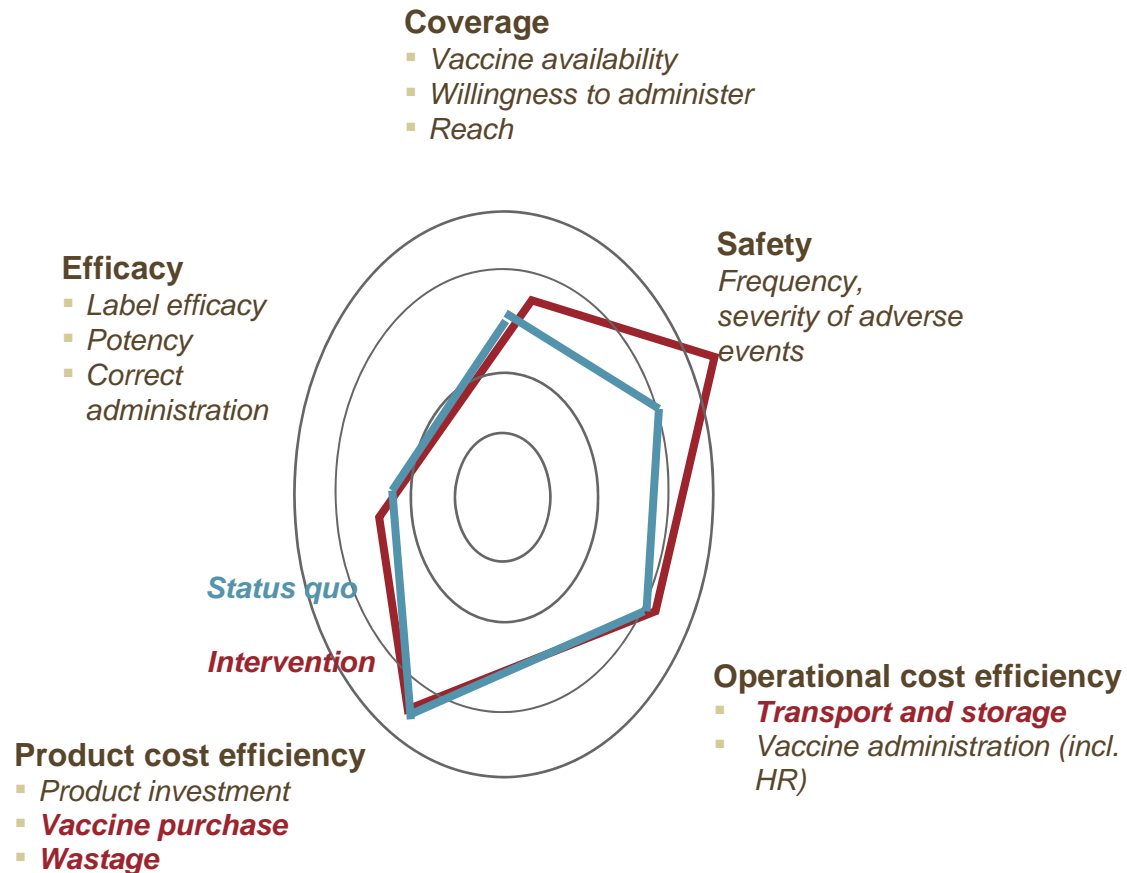
- Jean-Pierre Amorij (*R&D, manufacturers perspective*)
- Messeret Shibeshi (WHO AFRO) (*Country perspective*)
- Jim Goodson (CDC) (*Epidemiology, health impact*)
- Melissa Malhame (Gavi) (*Vaccine supply and financing*)

Presenters:

- Tina Lorenson (BMGF)
- Darin Zehrung (PATH)
- Mercy Mvundura (PATH)

REASSESSING PRODUCT DECISION MAKING

The Total System Effectiveness (TSE) approach provides a framework for evaluating trade-offs of a vaccine or intervention.



Illustrative output
Improvement radiates outward

PROGRAMMATIC CHALLENGES

Immunization Factors

Underlying Challenges

Coverage

% of children vaccinated

- Reaching every district
- Adherence rate

Efficacy

% of children vaccinated receiving target outcome

- Potency (thermostability, freeze prevention, vial condition)
- Correct, timely administration

Safety

Frequency and severity of adverse events

- Correct reconstitution
- Potential for contamination
- Needlestick safety and correct administration

Product cost efficiency

Total cost per administered dose

- Vaccine/device COGS including development costs
- Supplies: syringes, safety box
- Wastage

Operations cost efficiency

Total cost per administered dose

- Supply chain: transport, storage, cold chain capacity
- National program management / training
- Time required to administration vaccine

Outcomes:

- Imperfect but long overdue framework to support a conversation across broad stakeholders
- Facilitates common language and helps to converge on needs and assumptions
- Analytical tool to inform evidence based decision making
- Establishing country perspective is critical
- Key to informing business case and investment decisions, by better understanding potential impact, and risks
- Imperfect, long overdue – ‘we should have had this 10 years ago’
- Will this be a useful tool to decision making? “YES”

Next steps:

- Continue to solicit feedback, including through the VPPAG delivery working group
- Refine framework
- Present to WHO IPAC for endorsement