An introduction to VIPS: outcomes of the prioritization process and next steps

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An introduction to VIPS: outcomes of the prioritization process and next steps.

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Objective of this presentation



- Communicate the outcomes of the prioritisation process to the immunisation community
- Propose next steps for VIPS and seek feedback
- and communicate the key assumptions related to the longer term vision for use of these innovations



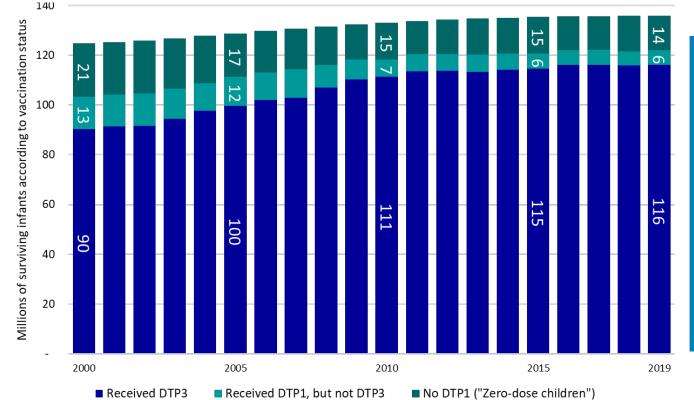






Vaccination coverage has plateaued and will decrease in the wake of Covid-19





Of the 20 million infants who are not fully vaccinated with DTP3, 14 million didn't receive an initial dose, pointing to a lack of access to immunization services.

A further 6 million are partially vaccinated, without completing the required 3 dose schedule in the first year of life.

In 2019, 116 million children completed vaccination with a basic set of vaccines, up from 90 million in 2000, representing nearly a 30% increase.

Source: WUENIC 2020

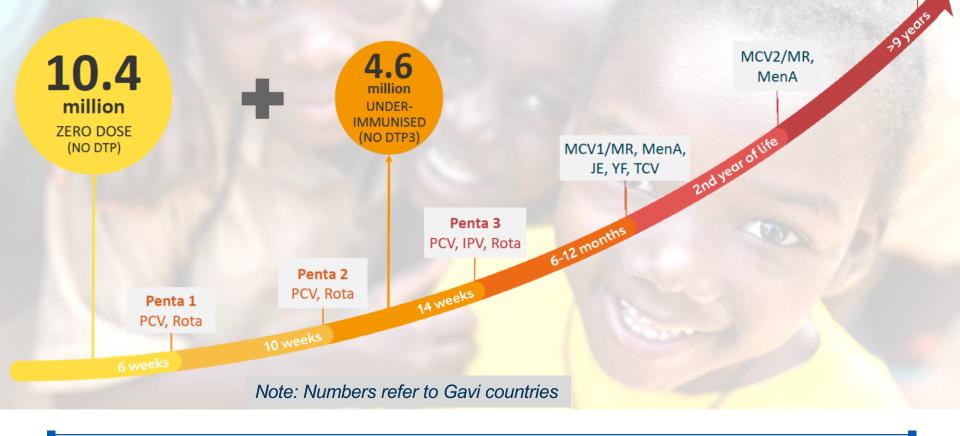








Ambition is to provide life course immunisation for all zero-dose and under-immunised children







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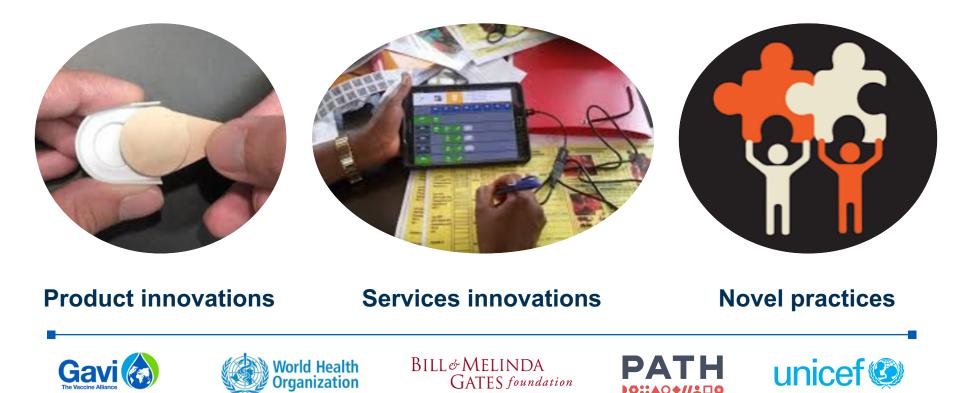


HPV

Innovative delivery approaches are thus critically needed

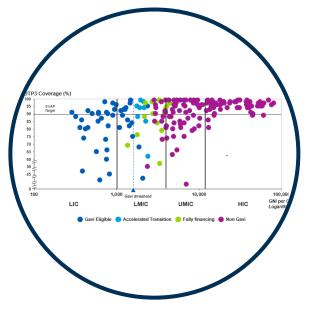


To increase coverage and equity and support the Alliance goals on: IA 2030 Reaching zero-dose children Missed communities



Why is VIPS needed?





Innovative delivery approaches will be needed to help achieve the Alliance coverage and equity targets



oportion vaccinate

Nationa



Many innovation initiatives across the Alliance, but strategy and effort not coordinated or aligned









VIPS background and goal



2016 – 2020: Innovation as one of the Alliance priorities for shaping markets The Alliance aims to pursue a common agenda of driving vaccine product innovation to better meet country needs and support Alliance goals

Prioritise innovations in vaccine delivery attributes to provide greater clarity to manufacturers and immunisation partners to make investment decisions







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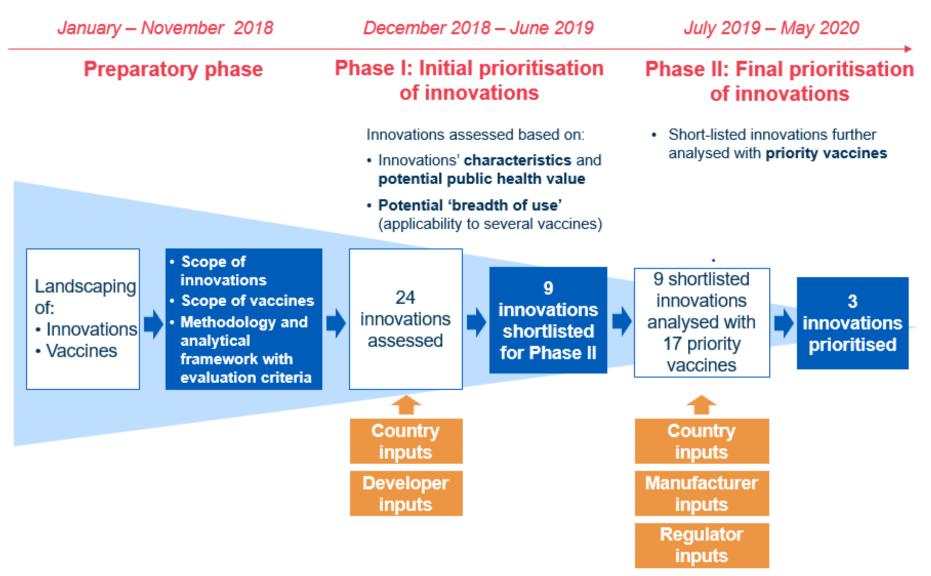




VIPS

Overview of VIPS methodology





VIPS innovations and COVID-19



- Primary goal of VIPS: prioritise innovations with the potential to help increase access and coverage for existing vaccines.
- Even more important in light of the **impact of COVID-19 on RI services and the likely future increase of supplemental and outreach immunisation activities** to catch-up millions of children who will miss out on essential services during this pandemic.
- COVID-19 pandemic creates potential funding opportunities for innovations relevant for both COVID and other priority vaccines.

 'Win-win' scenarios were sought to prioritise innovations that have the potential to both increase equitable coverage for existing vaccines, particularly post-COVID-19, and be valuable for COVID-19 vaccine delivery.









Three innovations have been prioritised, which could also facilitate RI catch up/ recovery from Covid-19





Microarray patches (MAPs)

Potential to **address most immunisation barriers** identified by countries and applicable to several use cases.

Broad applicability across life course and outbreak response.



Heat stable formulations, including CTC

Thermostability identified as the **top priority by countries**.

Synergies with other innovations, i.e. MAPs, VVM-Tis, dual chamber delivery devices, SDIs.

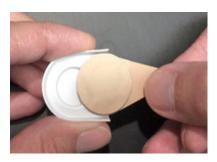


Barcodes on primary packaging

Greater accuracy in tracking at lower levels of distribution.

Accelerate transition to electronic record keeping.

These priority innovations could also be highly relevant for COVID-19 vaccines



Microarray patches (MAPs)

- Potential for easier and safer administration
- Potential for thermostability
- May enable dose sparing
- Reduced wastage
- Potentially increased acceptability



Heat stable formulations, including CTC

- Potential to improve coverage and equity by easing logistics for outreach (CTC)
- Reduce vaccine damage and wastage due to heat/freeze exposure
- Further reduce CTC training/logistics needs with the VVM-TI



VACCINF

Barcodes on primary packaging

- Track and trace to reduce stockouts and wastage
- Monitor coverage and AEFIs through more accurate patient recordkeeping

...however, they may not be available for first generation vaccines





Microarray patches

- Preclinical studies with various COVID-19 vaccines
- Not currently produced at commercial scale
- No licensed MAP vaccines
- Lack of familiarity with MAPs at programme level



Heat stable formulations

- Few of the vaccine candidates are currently thermostable above 2-8°C
- Current **priorities** for Covid-19 vaccines are **safety, efficacy and dose regimen**
- Heat stable formulations likely to be for next generation vaccines

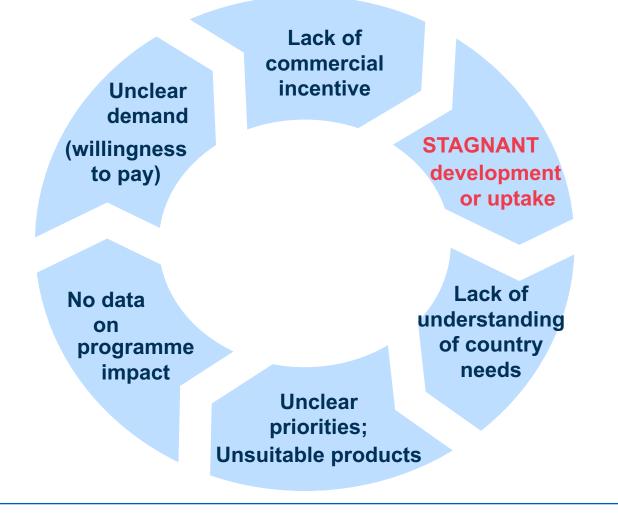


Barcodes on 1° packaging

- No global mandatory policy in place
- Several initiatives underway to implement the use of barcodes on 2° and 1° packaging
- Opportunity to leverage momentum for policy generation and to build country capacity

So what next? The innovation conundrum













VIPS vision and mission





The VIPS Alliance aims to create the environment needed to position vaccine product innovations to be fundamental transformation drivers of the coverage and equity agenda, in LMICs.



To achieve this, the VIPS Alliance initiative will:

- Create alignment on priority vaccine product innovations that have the potential to overcome country immunisation barriers and transform immunisation delivery and practices;
- 2. Seek to accelerate their development and uptake.









VIPS is now creating 5-year action plans to advance the prioritised innovations

Assessment and landscaping:

- Key challenges, bottlenecks and needs related to product innovations' development and uptake
- Existing initiatives
- Gaps

Defining end-to-end strategies to accelerate development and uptake:

- Priority activities for the next 5 years per innovation and cross-cutting
- Roles and responsibilities
- Funding
- Timelines

VIPS partners are best placed to undertake these activities and will assess what each organisation can deliver and potentially engage beyond VIPS partners to ensure appropriate resources.





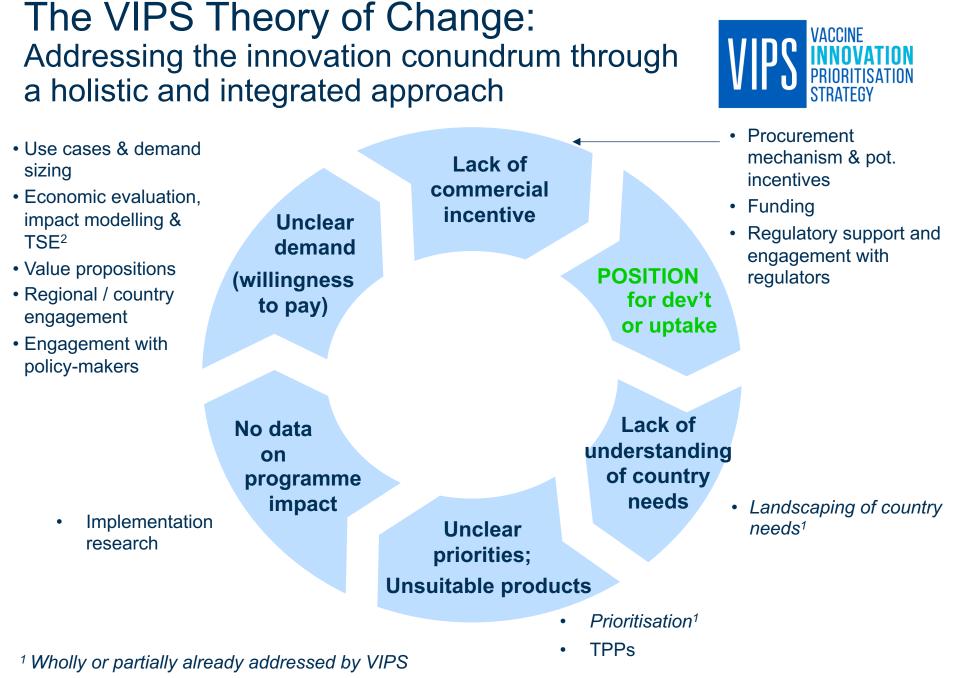
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VIPS VACCINE INNOVATION PRIORITISATION STRATEGY

- Interviews with manufacturers, developers and implementation partners
- Joint VIPS Alliance action plan



² Total Systems Effectiveness

Key principles and assumptions behind VIPS



- Novel vaccine product innovations and approaches are needed to support the Alliance's coverage and equity goals.
- These innovations will have **higher commodity costs** than current presentations. The beneficial **trade-offs** in terms of increased vaccine reach and delivery savings will need to be quantified.
- To support the uptake of these innovations, the policy, procurement and delivery environment will need to evolve to support:
 - Differentiated presentations within e.g. a single country or region
 - Procurement of products with a **price premium**
 - Country **selection and implementation** of differentiated products.
- **Co-ordinated and end-to end strategies** will be needed to advance those innovations and support country uptake.
- Innovations without a potential dual market in HICs may require strong incentives.











Let us know if you have comments or questions!







