

African Vaccine Manufacturing Mapping -AVM

- Supply and Demand Landscape

DCVMN AGM São Paulo, 18 October 2024

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Supply Landscape - cenário de fornecimento

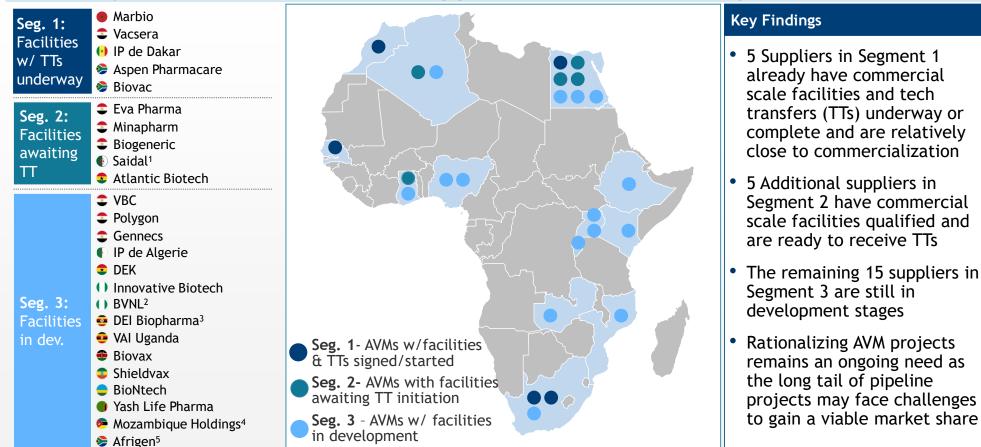
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In 2024, there are 25 active AVM projects which can be divided into three segments based on overall supplier maturities and capabilities

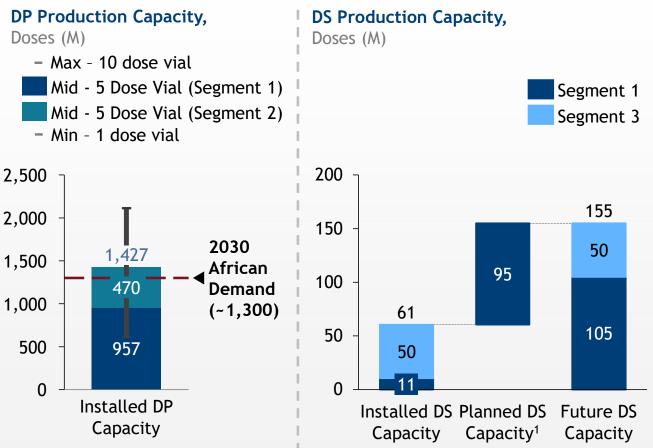




^{1.} Interview not yet held, but initial perspective is Saidal may also have a commercial scale facility ready to receive an influenza vaccine TT 2. As per an informal meeting with BVNL they do not have a facility yet 3. Construction of a modular Vxn facility has started in the US for shipment to Uganda in 2025 4. Unofficial reports indicates they have broken ground on a F/F facility 5. R&D facility complete, larger commercial facility built, expecting GMP inspection in 2025; Source: CHAI/PATH/PAVM Current State Vaccine Supply Mapping



Existing DP capacities are beyond African manufacturing targets; Overall DS capacities are not meeting pandemic preparedness goals



Key Findings

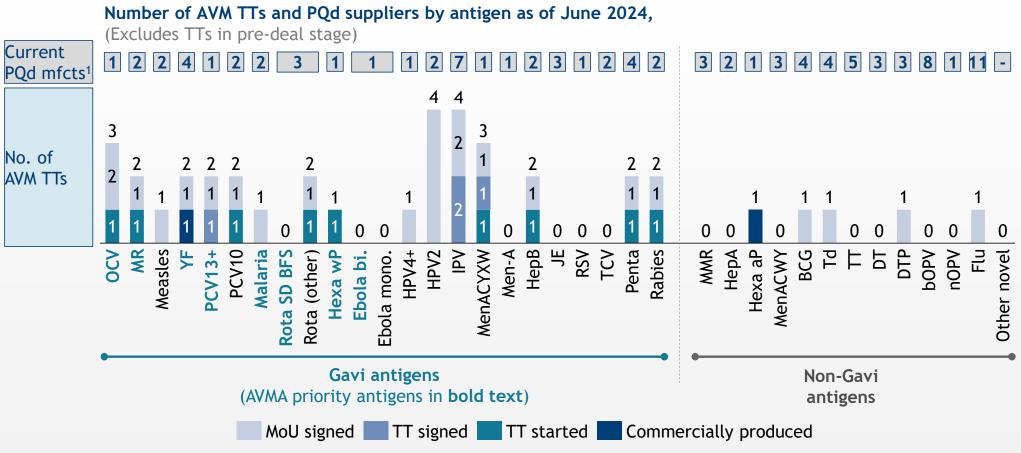
- Around 2/3 of installed DP capacity is from Seg. 1 suppliers with TT underway
- Already installed DP capacity exceeds current vaccine TTs, expected demand offtake, and Africa CDC's 60% target for AVM
- With segment 3 facilities to come online, the risk of DP over-capacitation may increase
- Most of the installed DS capacity is for mRNA DS which currently lacks a suitable vaccine for TT
- Market health & pandemic preparedness goals are not sufficiently met with DS capacity at ~10% of 2030 African demand

1. 11M of the current DS capacity will be closed down once it is replaced by the planned future capacity for the same product resulting in net of 95M additional dose capacity Source: CHAI/PATH/PAVM Current State Vaccine Supply Mapping



PATH

While AVM improves market health through supplier diversity, the long tail of MoUs and TTs risk fragmentation risk across many antigens

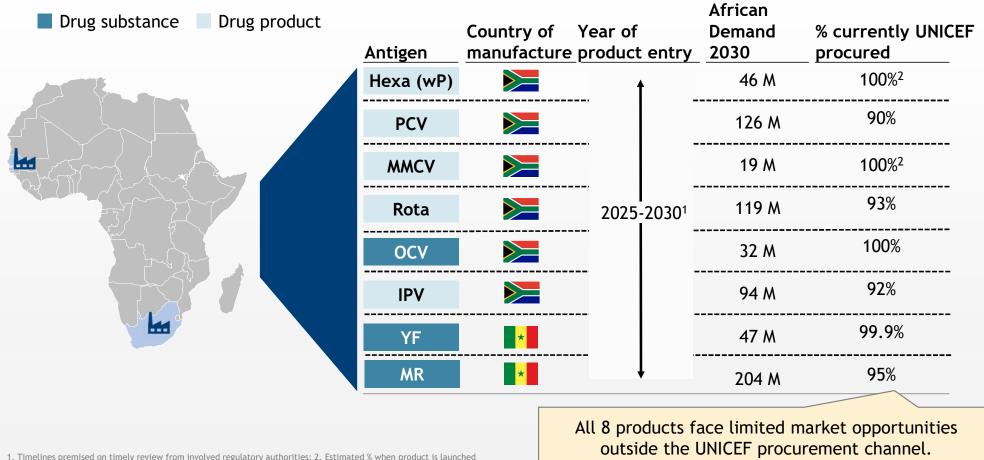


1. For Gavi antigens, only includes PQd suppliers on Gavi product menu

Source: Gavi detailed product profiles; Linksbridge; CHAI/PATH/PAVM Current State Vaccine Supply Mapping



8 Antigens are expected to achieve WHO PQ and enter the continental market between 2025 - 2030



1. Timelines premised on timely review from involved regulatory authorities; 2. Estimated % when product is launched Source: Africa CDC, CHAI, PATH analysis and landscaping activity, Demand and UNICEF data taken from Linksbridge 2024



Demand Landscape

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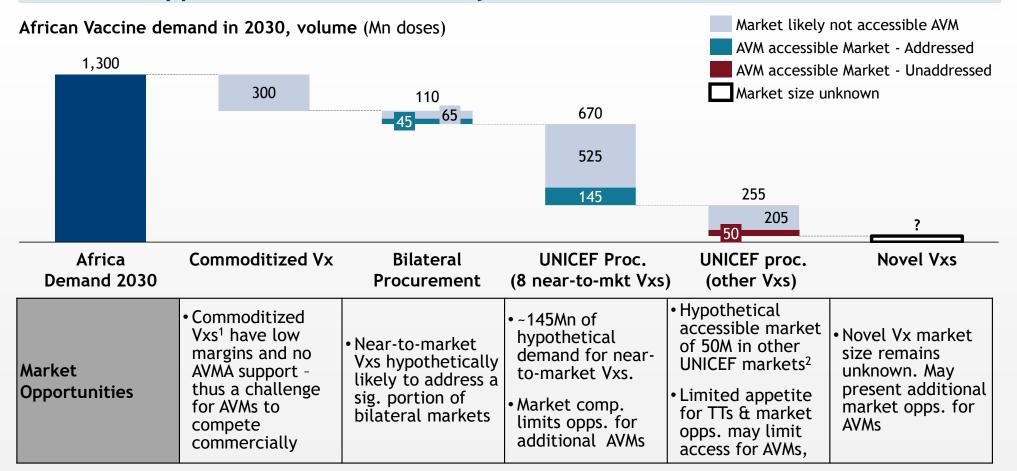
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CHAI have mapped hypothetical demand offtake in 2030 for each nearto-market antigen to inform discussions on offtake for these antigens



Notes: 1. This analysis focuses only on TTs that have been signed by AVMs and are already underway. Additional AVM products may come to market in addition. 2. Where Linksbridge forecast not available (OCV / Hexa) have developed CHAI forecasts based on product roadmaps shared by global partners. 3. Political will is measured using the commitment countries have shown to join the Africa CDC PPM and Regional mfct support TWG.

There are market opportunities for the existing near-to-market Vxs; additional opportunities are relatively limited



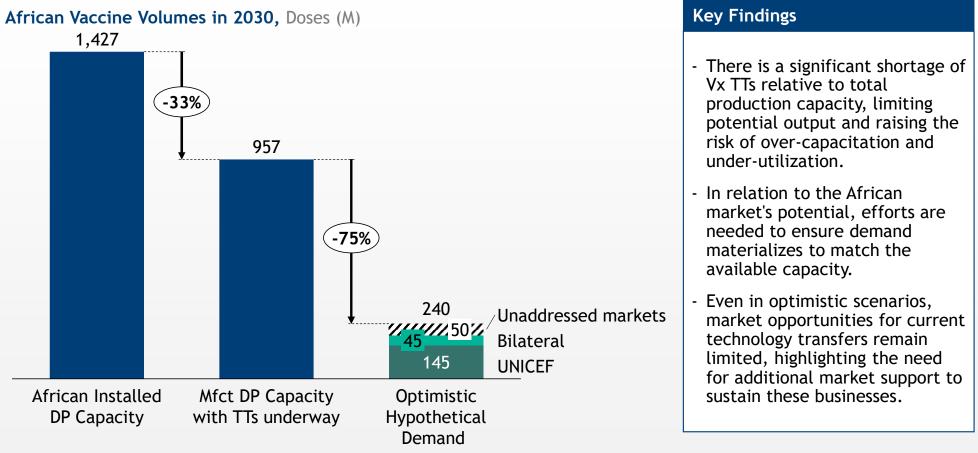
Notes: 1. Vaccines less than \$0.25 per dose i.e., BCG, DTP, Hep B & Td 2. Potential markets (200Mn doses): HPV, Malaria, RSV, TCV. Markets with minimal AVM potential (150Mn doses): Penta, Measles, MMR Sources: CHAI analysis, Linksbridge



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Presently there is overcapacity of DP & underutilisation of the capacity that is built on the continent compared to expected demand



Sources: CHAI analysis, Linksbridge

African Govts. have pledged to support AVM, incl. through offtake decisions - this support needs to be better understood & actualized



- At WHA 2024, AU Member States committed to consider demand offtake for African-made vaccines in their Vx selection decisions.
- Africa CDC, CHAI, & Gavi are working in collaboration to **engage with AU member states** in the coming months to better understand country-level commitment to procuring African-made vaccines



Project with kind support through the Africa Trade and Investment Program funded by USAID as well as by the Bill & Melinda Gates Foundation



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