



African Vaccine Manufacturing - 2026 Supply Landscape

June 2026

Funded by:

Gates
Foundation

An updated landscape analysis was done through AVM engagements

27 AVMs and 5 TT originators were engaged; interviews focused on most advanced suppliers. Data collected across 3 areas:

1 Products

- Current antigen pipeline and tech transfer status
- Commercial ambitions and indicative timelines

2 Facility progress

- Existing commercial facilities and planned expansion/construction timelines

3 Key challenges affecting commercial plans

- Regulatory
- Market and demand
- Finance
- Access to products
- Workforce

The analysis was designed to address three objectives:



Track **progress** made since 2024 and validate expected commercialization timelines

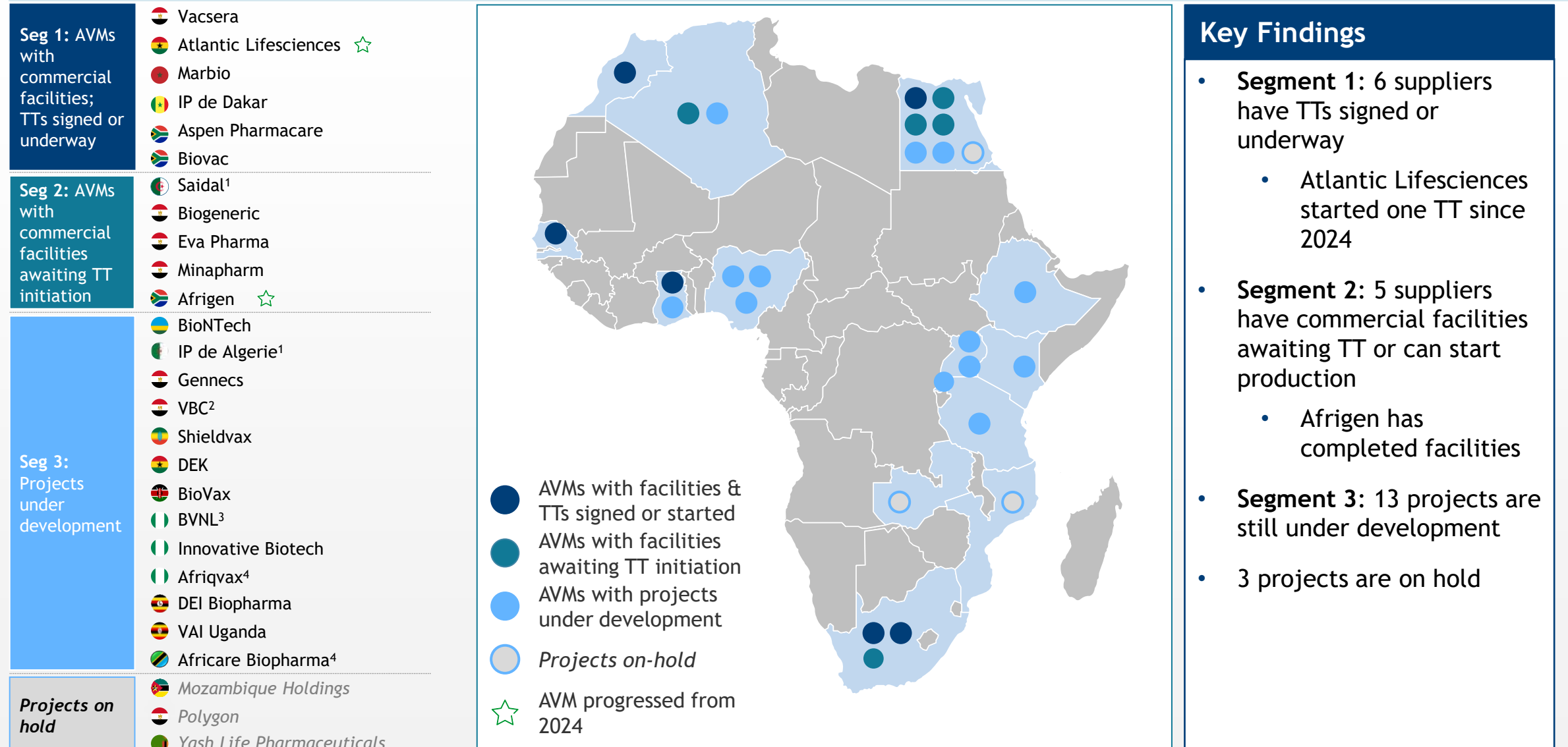


Identify key **challenges** faced by AVMs which pose risks to commercialization timelines



Identify key **enabling conditions** to support timely AVM commercialization

As of June 2026, 11 AVMs have commercial-scale facilities, including 6 with ongoing TTs; 13 additional projects remain under development



Key Findings

- **Segment 1:** 6 suppliers have TTs signed or underway
 - Atlantic Lifesciences started one TT since 2024
- **Segment 2:** 5 suppliers have commercial facilities awaiting TT or can start production
 - Afrigen has completed facilities
- **Segment 3:** 13 projects are still under development
- 3 projects are on hold

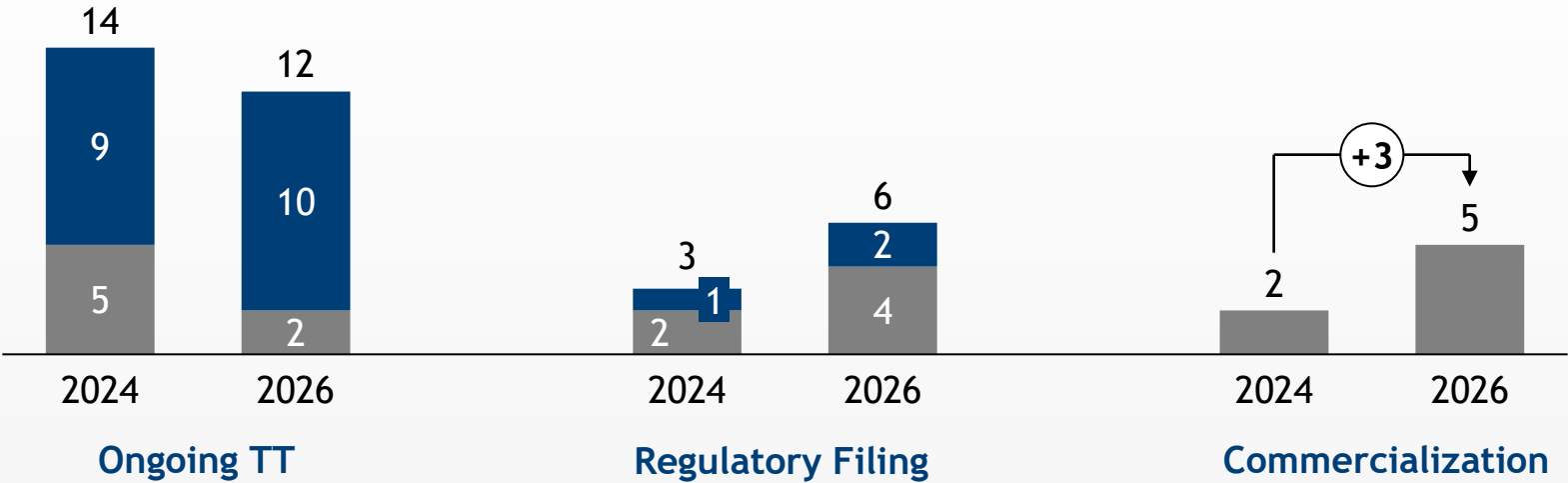
Since 2024, TT activity has progressed with new TTs initiated, new regulatory filings, and 3 new domestic products commercialized



Number of ongoing AVM technology transfers

Includes only DP/DS TTs; Excludes Covid, Packaging, MoUs and early-stage discussions

Continental Domestic



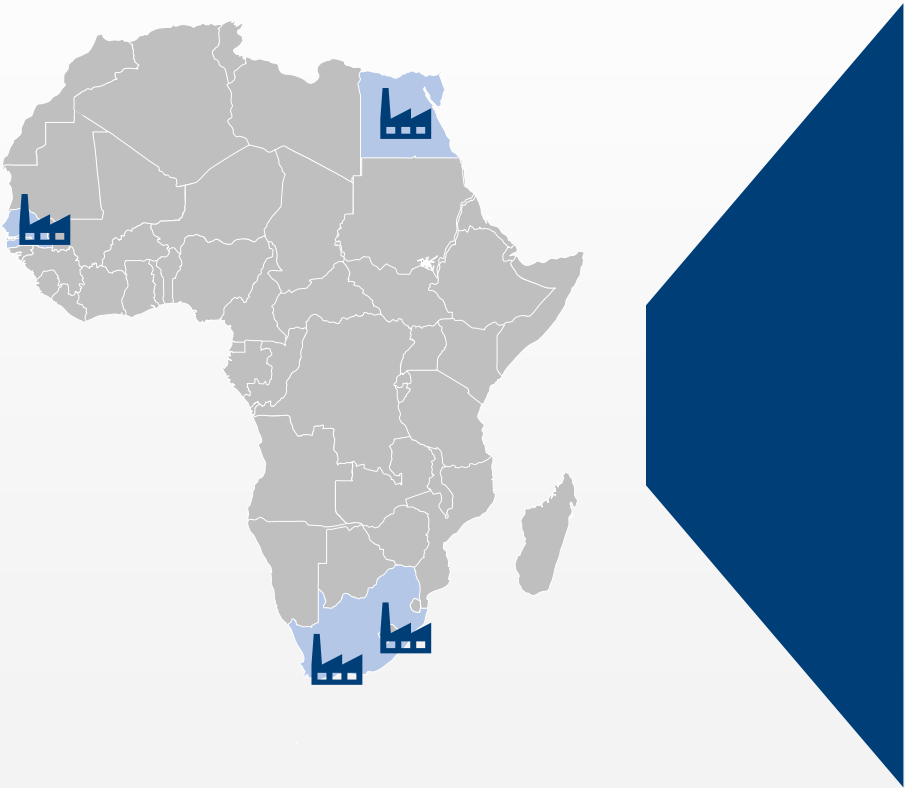
Notes	Continental (since 2024)	2 TT initiated 1 TT progressed	1 new filing submitted	n/a
	Domestic (since 2024)	2 TTs initiated 5 TTs progressed: 3 moved to regulatory filing 2 got NRA approval and moved to commercialization	3 new filings submitted 1 filing got NRA approval and moved to commercialization	3 new commercialization's

Note: TT = Technology Transfer
Source: CHAI 1-on-1 interviews with AVMs held throughout February 2026; CHAI/PATH 2024 Supply and Demand Landscape

There are 11 products across 8 antigens expected to achieve WHO PQ and enter the continental market in the next 5 years



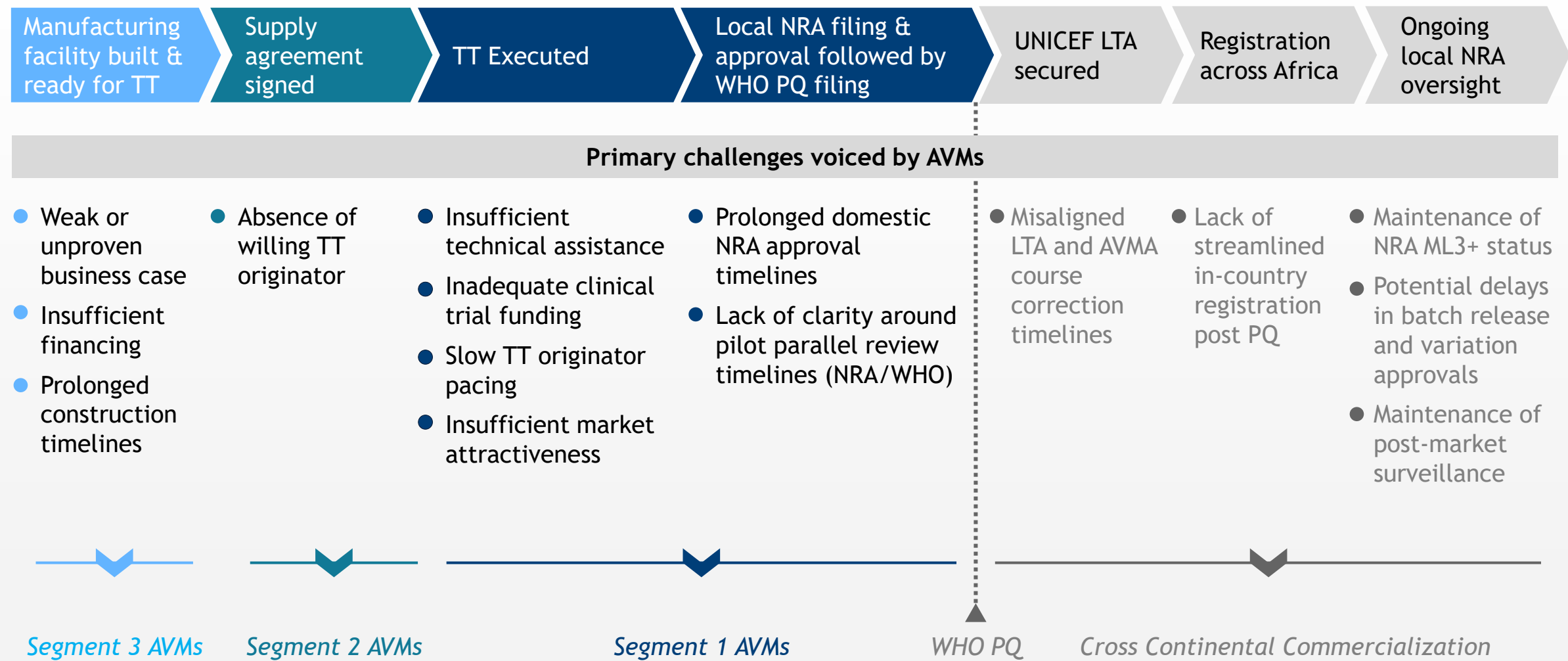
Drug substance
 Drug product



Antigen	Country & manufacturer	Year of product entry	Africa demand 2030
Hexa (wP)	 Aspen	2026-2031²	57 M
PCV ¹	 Aspen, Biovac		110 M
MMCV	 Aspen, Biovac		5 M
Rota	 Aspen		97 M
OCV	 Biovac		30 M
IPV	 Biovac  Vacsera		34 M
YF	 IPD		39 M
MR	 IPD		128 M

Aspen is making a PCV-10 and Biovac is making PCV-14; 2. Estimated timelines premised on current trajectories
 Source: CHAI 1-on-1 interviews with AVMs held throughout February 2026; Linksbridge GVMM 2026 (accessed 7 Apr 2026)

The path to commercialization is long and AVMs face challenges at each step; WHO PQ is a key milestone but not the finish line



Continental | Key challenges have already slowed continental AVM commercialization, with further risks ahead



Challenge	Factors which have caused delays	Factors that might add further delays	Non-exhaustive
 Regulatory	○ Prolonged NRA approval time (up to 3 yrs)	○ NRA certification as ML3 for vaccine production ● Speed of WHO PQ target timelines for DP and AVM products ● Uncertain & fragmented country registration pathways post WHO PQ ● Producing country NRA maintain ML3+ and rapidly approve batch releases and variations with rapid recipient country NRAs approvals	
 Market & Demand	○ TT and commercialization decisions slowed pending clarity on Gavi 6.0 demand and AVMA course correction	○ Demand Shift - Gavi 6.0 policy creating demand uncertainty ● Price Viability - Increased price competition due to GAVI 6.0 policy ○ Misaligned UNICEF LTA tender and AVMA Course Correction ○ Uncertainty of market opportunity before next UNICEF LTA starts	
 Finance	○ Funding disbursement delays impacting facility readiness and product commercialization ○ Funding for clinical trials and production readiness	○ Approved funding remaining undisbursed, delaying facility build and product launch ○ Mobilization of new funding for things such as clinical trial and general production readiness	
 Access to Products	○ Originator pacing delays	○ TT execution delays based on originator	
 Workforce	n/a	● Gaps in technical assistance and skilled workforce constrain scale-up, regulatory readiness, and operational execution	

Affected AVMs ○ Some ● Most ● All

Domestic | AVMs with domestic-only focus, will need to clear current challenges before entering the continental market



Non-exhaustive

Challenge	Factors causing delays
 Regulatory	● NRA timelines and ML3+ certification requirements remain outstanding for manufacturers ● Product registration often takes 1-2 years with ability to reduce them uncertain
 Market & Demand	● Domestic demand provides some anchor, but bilateral, pooled, and export demand signals remain weak or unclear ● Products often not aligned with the current pooled procurement mechanisms' needs or prices
 Finance	● Concessional financing, offtake guarantees, and upfront cost coverage are recurring requirements ● Forex constraints, tax/trade policies, and facility investment needs add to financing complexity
 Access to Products	● TT progression is contingent on stronger demand certainty and commercially viable production economics ● Export pricing below domestic market levels constrains continental expansion
 Workforce	● Technical assistance needs center on validation, quality assurance, and lot-release capabilities ● Originator partners offer some support but often not all that is required to fill these gaps

Affected AVMs  Some  Most  All

Source: CHAI 1-on-1 interviews with AVMs held throughout February 2026; CHAI analysis

Addressing these challenges will require action across three enabling conditions supported by stakeholder coordination



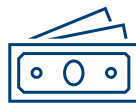
Non-exhaustive



Regulatory Approval



Market & Demand



Supply Finance & Execution

Enabling conditions

- Predictable NRA review timelines
- Clarity around accelerated WHO PQ pathways
- Efficient post-PQ regulatory pathways
- Sustained NRA readiness and ML3 capacity

- Predictable demand signals
- Clear procurement pathways, with processes aligned with commercialization timelines
- Commercially viable market conditions

- Timely access to committed financing
- Sustainable financing for product scale-up and development
- Technical and workforce readiness

Stakeholder Coordination:

- As no single actor can do this alone, coordinated stakeholder action will be essential

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