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Critical Path Analysis for New TB diagnostics in Kenya

July 2025



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Population

55 million

Total TB incidence , 2023: MDR/RR-TB incidence, 2023:

223 per 100 000 (124 000)
2.2 per 100 000 (1200)

Notified cases of TB, 2023: % tested with a WRD:

94 653
54 %

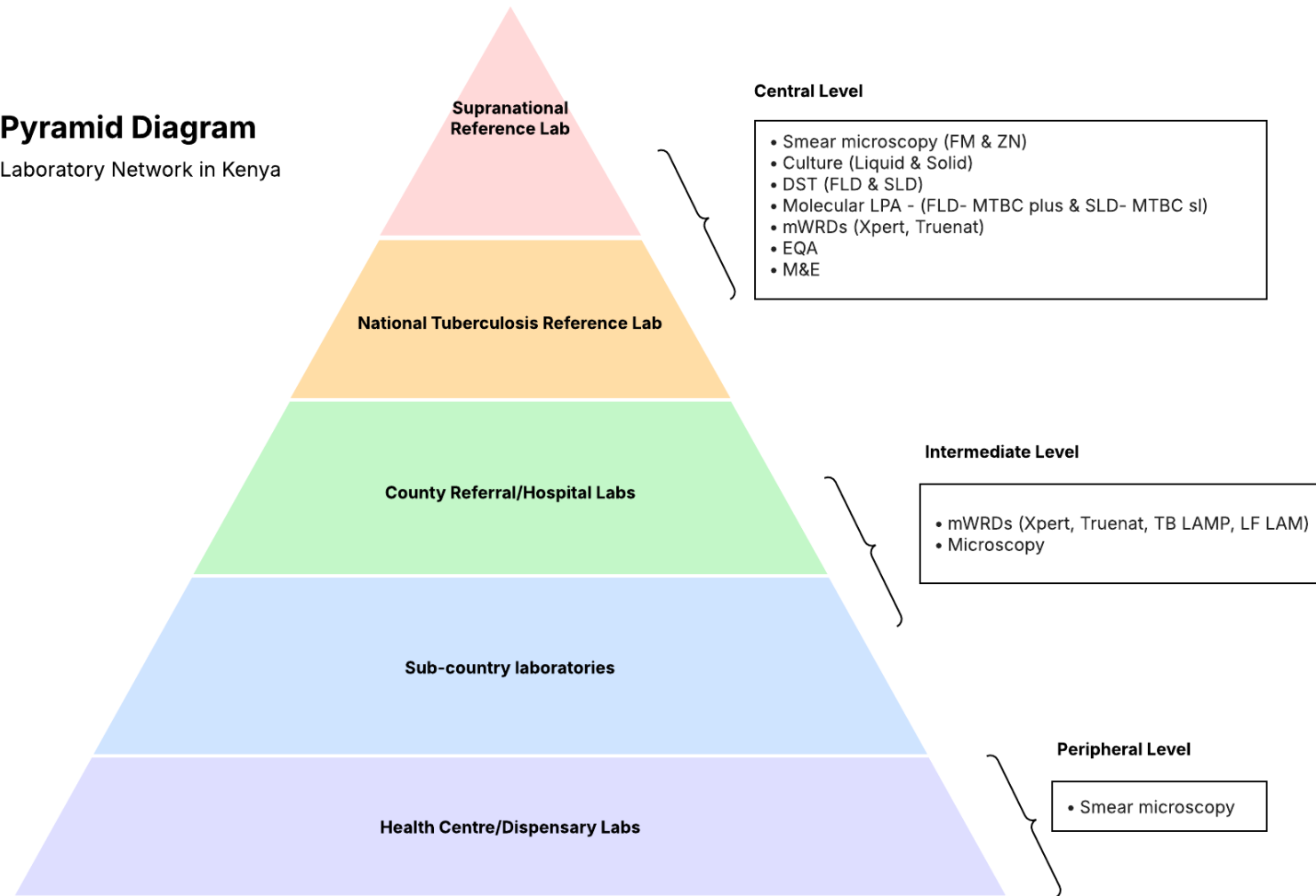
WB classification: TB funding, 2023:

LMIC
9.7% domestic
90% international
(Global Fund, USAID, PEPFAR etc.)



Pyramid Diagram

Laboratory Network in Kenya





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Key findings

Regulatory processes & uptake into national policy

Regulatory considerations (global /regional)

1. Reliance/ collaborative pathways	
Recognized Regulatory Authorities	GHTF* (Classification rules) WHO PQ recommendation
Regional harmonization	<ul style="list-style-type: none">▪ East African Community Medicines Regulatory Harmonization (EAC-MRH)▪ Regional Centres of Regulatory Excellence (RCORE) in pharmacovigilance
2. Continental mechanisms	
African Medical Agency (AMA) ratification	Yes – ratification documents deposited 16 th July 2023
Party to Africa Medical Device Forum (AMDF) -TCs	Yes [Chair – Paulyne Wairimu PPB]
Africa CDC Diagnostic advisory committee (DAC) member	Yes

* Global harmonization task force founding countries: Australia, Canada, EU, Japan, US

Regulatory requirements (national)

1.Regulatory stakeholders	
NRA	PPB WHO GTB ML2*
2.Application for registration (public and private sectors)	
Guiding documents	<ul style="list-style-type: none">▪ <i>Pharmacy and Poisons Act (CAP 244)</i>▪ <i>Guidelines on Reliance Mechanisms for Marketing Authorisation of Health Products and Technologies in Kenya (January 2025)</i>
Online access to guidelines	Yes
Application portal	Yes
Language	English
Applicant	Local representative
License	Required
Expedited review pathways	<ul style="list-style-type: none">▪ <i>Full evaluation</i>▪ <i>Abridged evaluation</i>▪ <i>Expedited evaluation</i>

* WHO global benchmarking tool maturity level 2 indicative of a regulatory system that is evolving and partially functional, but not yet fully stable or integrated.

Regulatory requirements (national)

3.Registration approval timeline	
Regular review	6-12 months
Collaborative registration (EAC-MRH)	~90–120 days (3–4 months) (Assessment timeline)
Expedited review	up to 7 months (received approval from two reference regulatory authorities)
Abridged review	up to 4 months (has obtained WHO PQ)
4.Marketing authorization validity	
Initial	5 years
Renewable ?	yes
5.Authorization of importation	
Conformity assessment	Required, and must submit certificates, test reports, Declaration of Conformity ISO 13485
Other	Proof of pre-market approval or registration from an RRA
Temporary import mechanism	unclear

Uptake into national policy

5.Uptake in national policy	
Local validation	<p>Yes – Committee of Experts (CoE): This committee reviews the algorithms and tools for new diagnostics, engages end users, and ratifies the recommendations before they are approved at the TB health sector working group.</p> <p>Kenya Medical Research Institute (KEMRI)</p>
Guiding documents	<p>Guidelines on Reliance Mechanisms for Marketing Authorisation of Health Products and Technologies in Kenya (January 2025)</p>
Key stakeholders	<ol style="list-style-type: none">1. Ministry of Health (MoH)2. County Governments3. Committee of Experts (CoE)4. Donors and Implementing Partners5. Regulatory Agencies6. Medical Boards

Barriers/enablers for regulatory approval and adoption into policy

Regulatory approval & adoption into policy	
Enablers	<ul style="list-style-type: none">▪ WHO PQ not required for regulatory approval, although is an enabler for expedited review.▪ Completeness of documents submitted to PRIMS is an enabler for quicker processing.▪ Established processes post-regulatory approval for inclusion of tests in national policy▪ NTP already thinking about use of POC tests at primary care levels.
Barriers	<ul style="list-style-type: none">▪ Post-market surveillance is required. It can be resource intensive and may pose additional challenges for manufacturers.▪ Capacity of PPB – have reported requiring more capacity building and skills on IVDs.▪ WHO PQ required for adoption into national policy.▪ Operational buy-in to involving lay testers



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Key findings

Procurement and supply chain

Procurement and supply chain considerations

Procurement and Supply Chain	
Guiding documents	Public Procurement and Asset Disposal Regulations 2020 , Regulation 71 (head of the user department must submit a requisition to the head of the procurement function with supporting documentation, including feasibility studies)
Estimated timelines	<p>Approval of the procurement application should take a maximum of 30 days from filing. The procurement process in total can take 6-9 months including the 30 days aforementioned. Steps include:</p> <ul style="list-style-type: none">▪ 2-3 weeks for initial request and Treasury verification▪ 2-3 weeks for quotation or tender process▪ 1 month for contract negotiations and legal review▪ 2 weeks for payment processing▪ Additional time for pre-shipment documentation, tax exemption, and shipping. <p>The entire process can stretch up to 9 months, depending on available resources, complexity of the contract, and coordination between different entities like KEMSA, Treasury, and manufacturers.</p>

Procurement and supply chain considerations

Procurement and Supply Chain	
Estimated volumes	<p>Urine-LAM. <i>There are approximately 1.4 million people on HIV care and treatment, with approximately 280,000 people (20%) likely requiring TB testing. For overall TB testing, Kenya aims to conduct 1.9 million tests annually, with a current breakdown of 60% for GeneXpert, 30% for TrueNAT, and 10% for LAM tests. Based on this, an initial volume of 28,000 test kits may be made.</i></p> <p>Swab-based molecular tests. <i>4-5 tests per day can be done across 900 facilities, however this would depend on availability of resource and patient sensitisation.</i></p>

Barriers/enablers for procurement and supply chain

Procurement & supply chain	
Enablers	<ul style="list-style-type: none">▪ Commitment of external funders to fund novel TB diagnostics in country would be an enabler for adoption.▪ Relatively quick procurement processes.
Barriers	<ul style="list-style-type: none">▪ Length of procurement is dependent upon available resources, complexity of the contract, and coordination between different entities like KEMSA, Treasury, and manufacturers.▪ Funding constraints due to geopolitical factors and shortages of external funding



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Key findings

Use case(s) and implementation

Proposed use cases

<p>Expected use case for next generation near point of care portable oral swab based rapid molecular tests and level of the health system appropriate for their deployment</p>	<ul style="list-style-type: none">▪ <i>Active case finding</i>▪ <i>Symptomatic individuals at primary care network levels can undergo molecular swab testing. (Jeremiah Ogoro, NTP, 5th May 2025)</i>
<p>Expected use case for next generation LF LAM (irrespective of HIV status) and level of the health system appropriate for their deployment</p>	<ul style="list-style-type: none">▪ <i>Active case finding</i>▪ <i>Urine LAM can be used at the primary care network levels during intensive active case finding. (Jeremiah Ogoro, NTP, 5th May 2025)</i>

Considerations about implementation and scale up

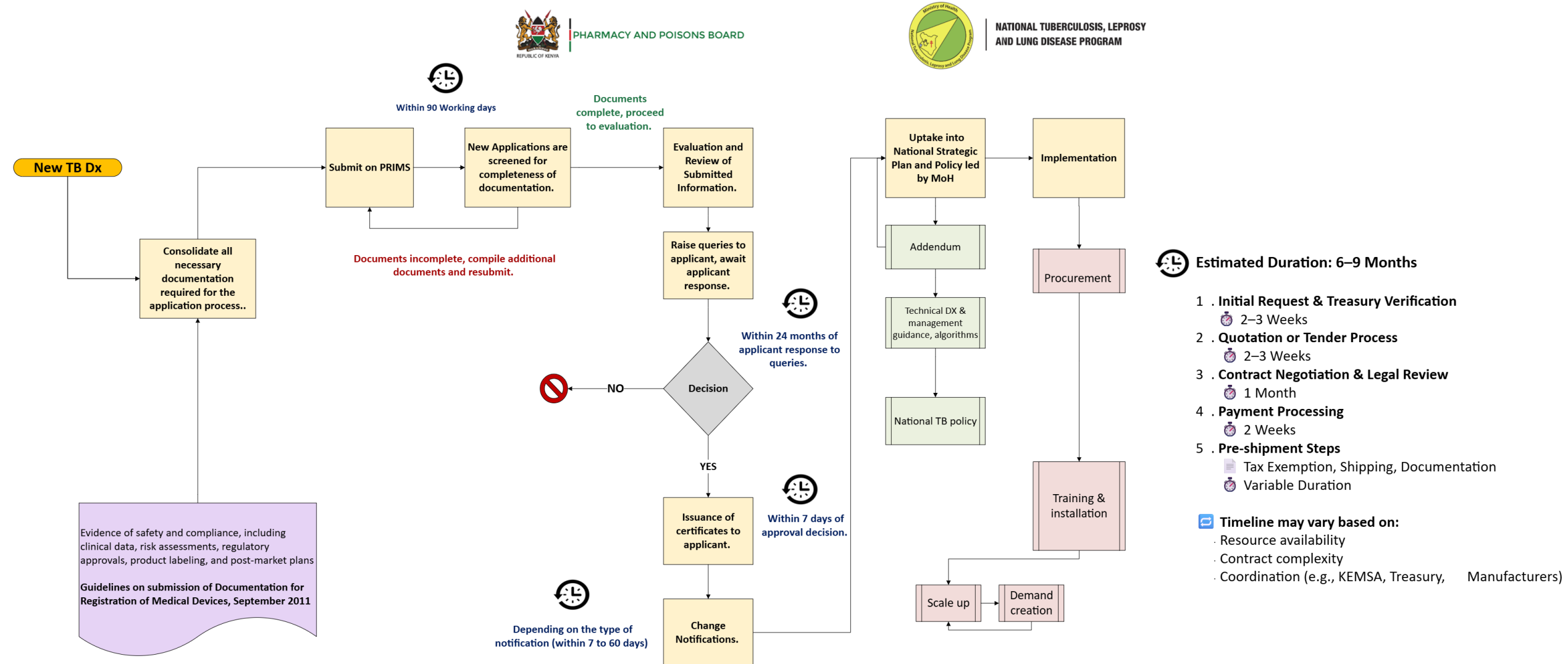
Early adoption and roll out: health systems & implementation needs	
Training required	<i>Three types of training are necessary: a) Training of Trainers b) Training of technical users i.e. laboratory scientists, technicians, and technologists c) Training of lay testers i.e. community health promoters/workers</i>
Network improvement/optimization and M&E	
Enablers	<i>1. Development of collaborations with manufacturers to develop sustainable in-country connectivity solutions. 2. The country has experience with DNOs/DNAs being conducted every two years.</i>
Barriers	<i>Both the DNOs and connectivity solutions above were introduced by USAID-funded programmes. Given restrictions on USAID funding, it is currently unclear who will finance TB diagnostics DNOs and connectivity solutions.</i>



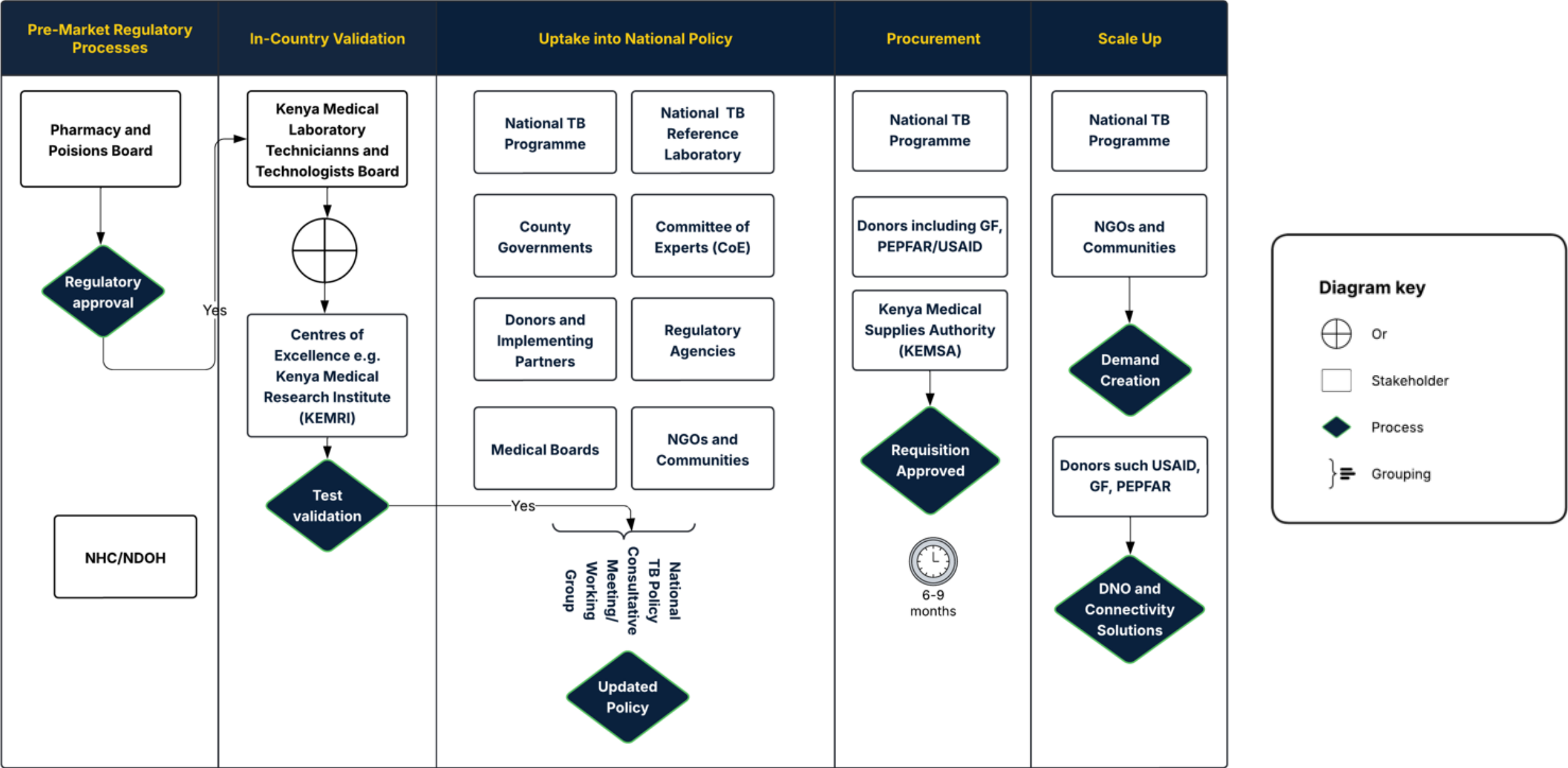
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Country CPA roadmaps

New TB diagnostic test introduction in the public and private sector



Stakeholder map



Historical pathway for GeneXpert and Truenat introduction

