

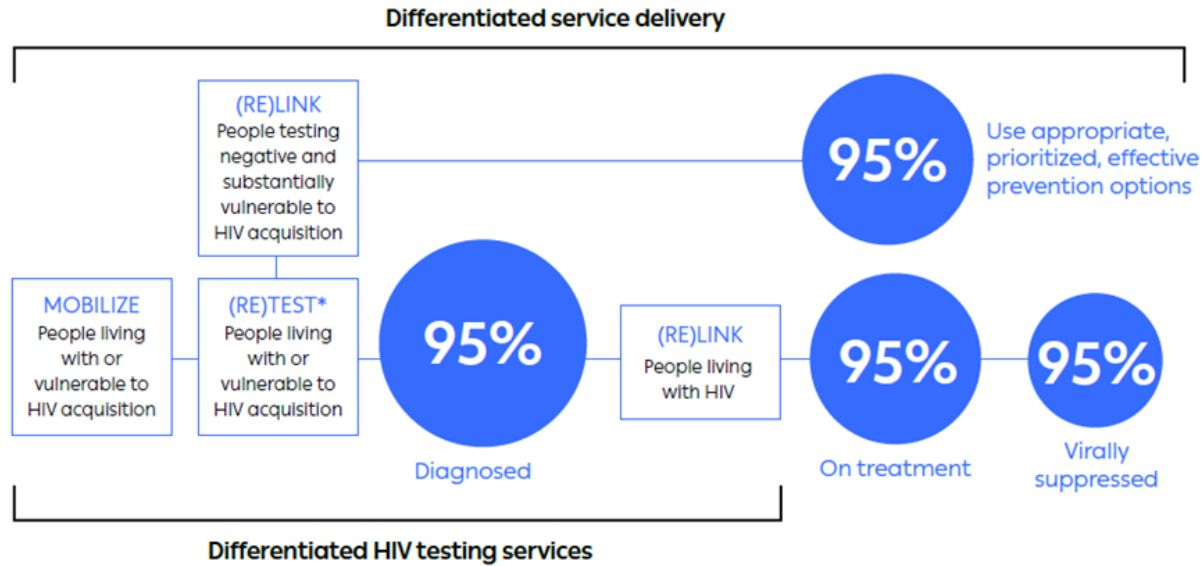
# **Determining a strategic mix of dHTS models amid funding cuts:**

**Applying the updated differentiated HTS decision framework**



# The strategic mix road to sustainable HTS looks different for different contexts...

Figure 1: Differentiated service delivery is applicable across the HIV care continuum



## HIV burden +

- Close to or reaching 95s across populations
- Close to or reaching 95s but not in all populations
- Not close to reaching one or more 95s

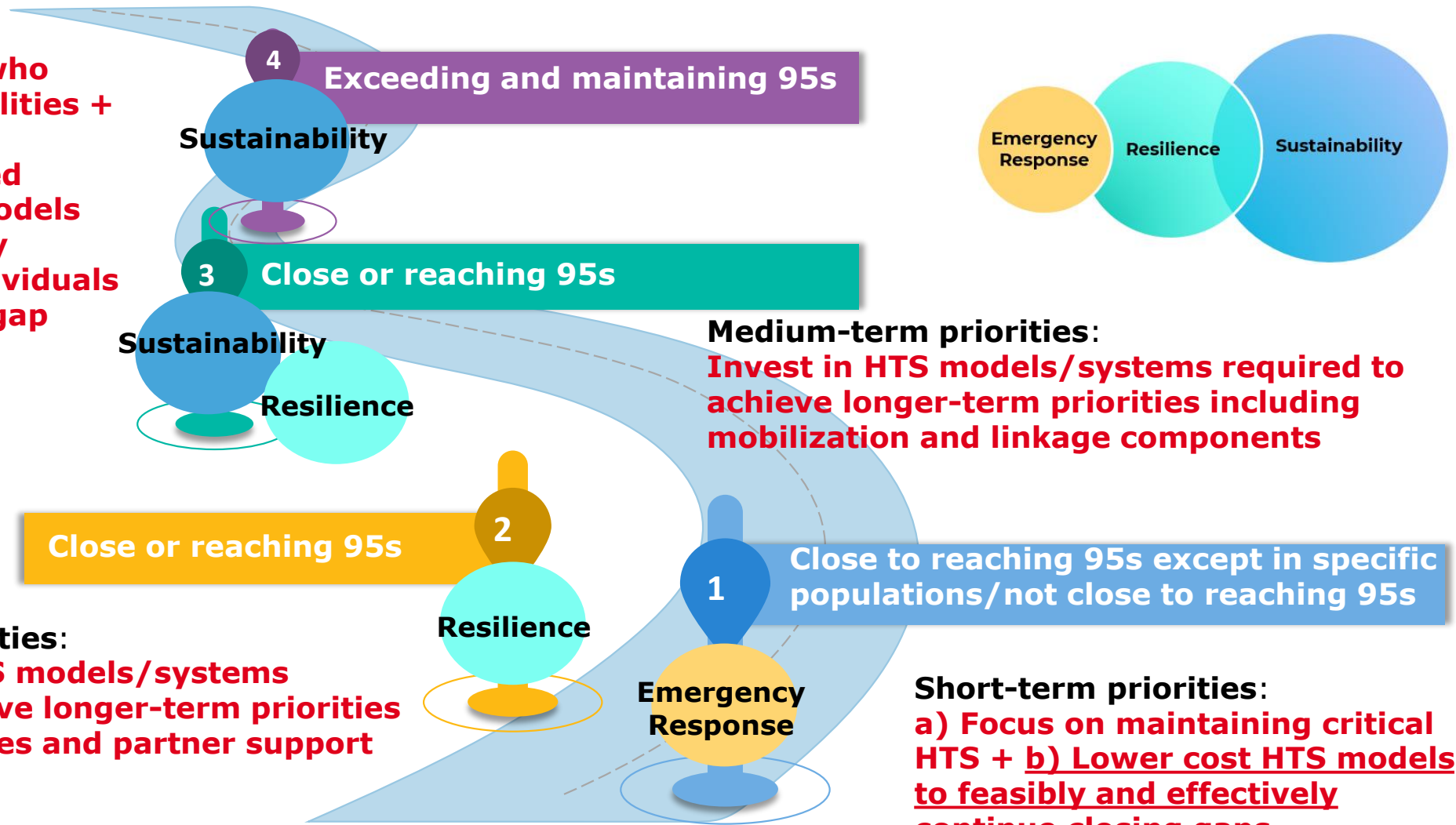


1. Extent of funding cuts for:
  - HTS commodities (rapid/HIVST?)
  - HTS HR (which cadres?)
  - Other operational costs (transport etc)
2. Available reductions in commodity costs
3. Replacement funding (if any) and timing



# Focus on short and medium-term prioritization, with long-term prioritization in mind...

CQUIN 2.0 Pivot



## Longer-term priorities:

- National access for those who want and need HTS (in facilities + communities)
- Surveillance through limited number of effective HTS models reaching higher-risk, newly infected or disengaged individuals for sustained impact post-gap closure

## Medium-term priorities:

Invest in HTS models/systems required to achieve longer-term priorities including mobilization and linkage components

## Short-term priorities:

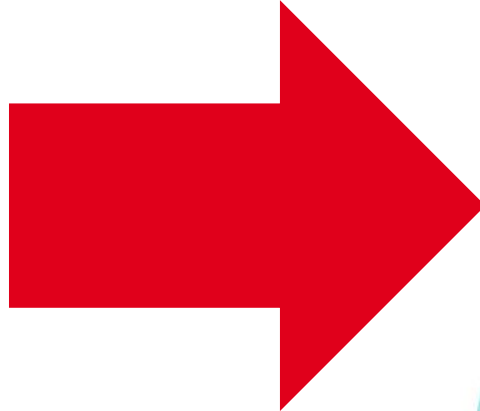
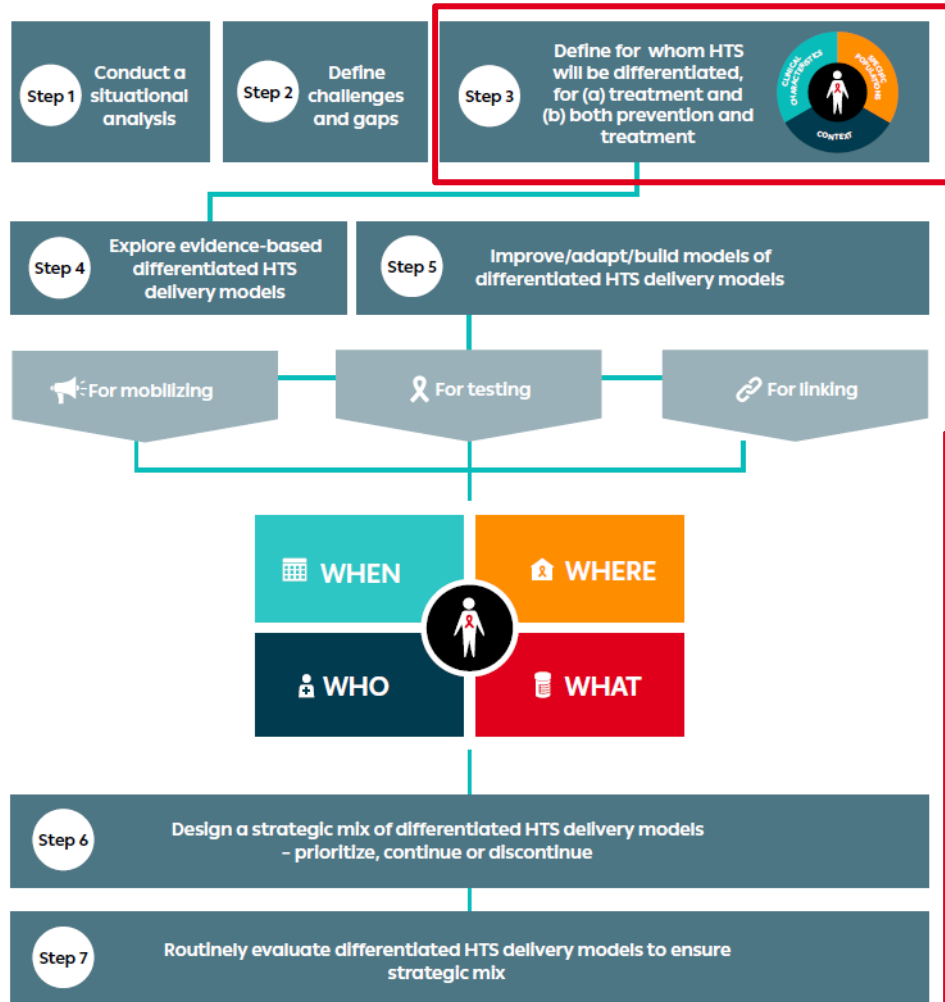
c) Determine HTS models/systems required to achieve longer-term priorities with less resources and partner support

## Short-term priorities:

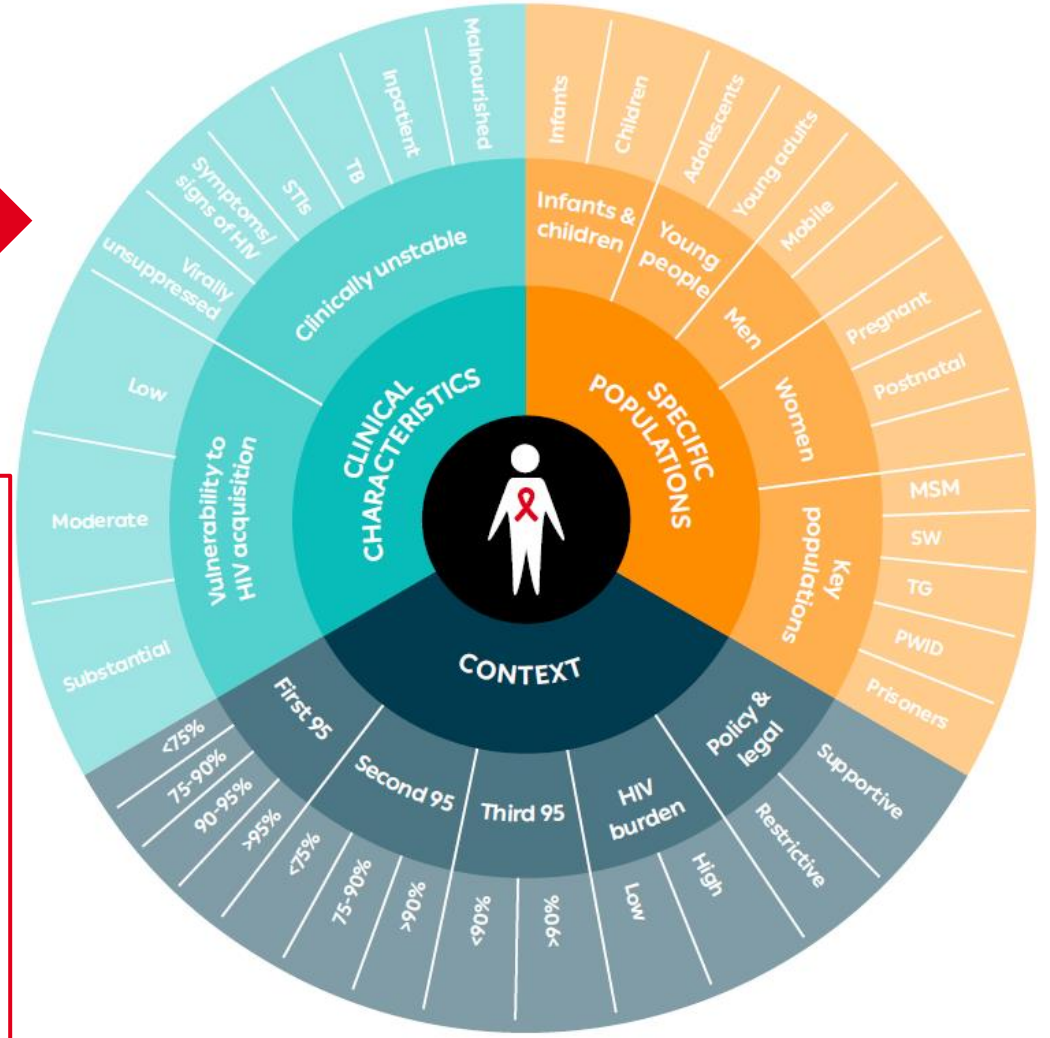
a) Focus on maintaining critical HTS + b) Lower cost HTS models to feasibly and effectively continue closing gaps



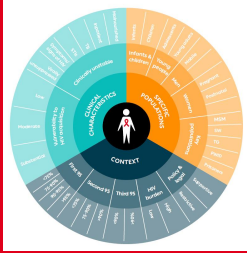
# 1. Identify the testing and linkage gaps and determine for whom we are differentiating HTS?



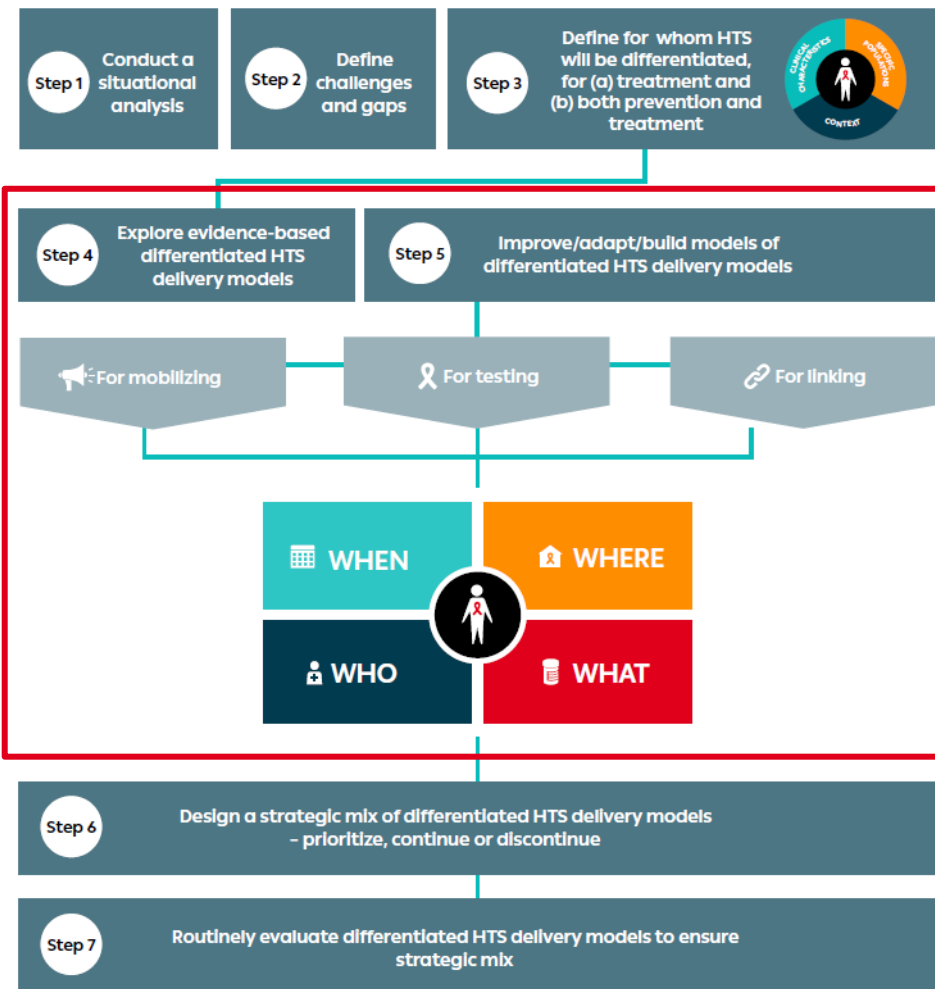
**Where are the gaps now and where are the gaps likely to continue?**



# IAS Three most common scenario contexts

<b>GAPS on the wheel</b>			<b>Clinical characteristics</b>	<b>Populations</b>
<b>Context</b>	<b>Close to reaching 95s across all populations</b>	<b>Limited gaps (possibly in unsuppressed ART clients and harder to reach sub-segments of specific populations)</b>		
	<b>Close but not in all populations</b>	<b>AGYW</b> <b>KPs</b> <b>Possibly men</b>		
	<b>Not close to one or more 95s</b>	<b>Clinically unstable/symptomatic</b> <b>Across population groups</b>		

# 2. Which optimized models and building blocks can address these gaps?



**For biggest impact**  
**at lowest cost**

**Which HTS models to optimize?**  
**Facility-based/network-based/  
community-based**

**Focus building blocks:**  
**WHEN** (reduced frequency?)  
**WHERE** (facility/virtual services?)  
**WHO** (task shifting to client i.e.,  
HIVST?)  
**WHAT** (integration  
opportunities?)



# HTS model impact considerations

	Facility-based	Network-based	Community	
			Virtual	In-person
<b>Number of people tested</b>	<b>###</b> Dependent on selected entry points/ coverage/testing frequency	<b>#</b>	<b>?</b> Depends on effective demand generation/ any restrictions	<b>##</b>
<b>Number of PLHIV not on ART identified</b>	<b>###</b> Dependent on selected entry points/ coverage/testing frequency	<b>#</b>	<b>?</b> Dependent on reach & coverage, but ensures access/equity beyond facilities	<b>#</b> Dependent on targeting accuracy
<b>Positivity rate</b>	Low	High	Likely Low	Low-Moderate

# Cost & feasibility considerations

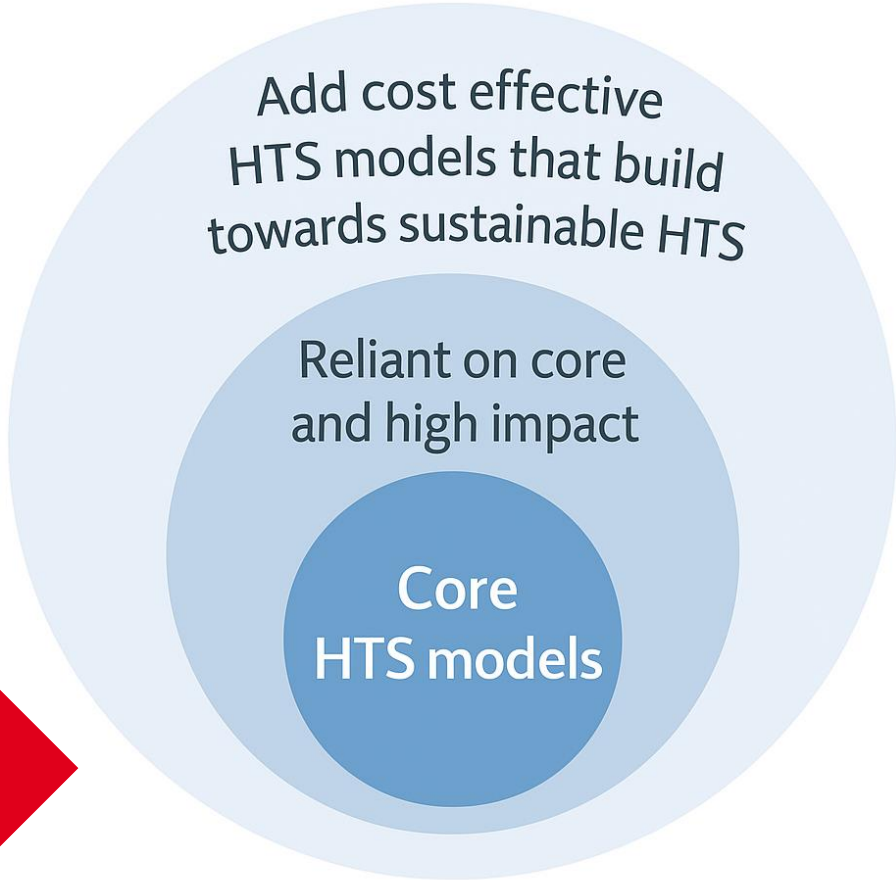
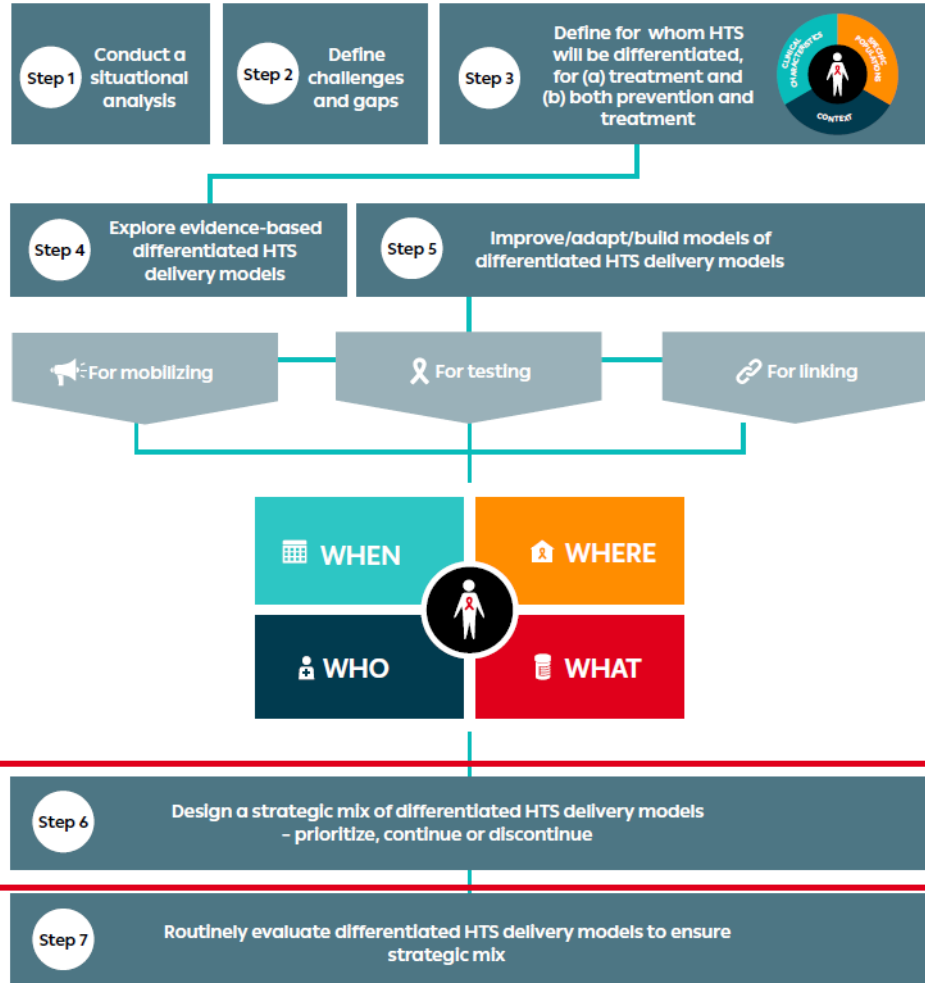
Costs	Facility-based	Network-based	Community	
			Virtual	In-person
<b>Commodities</b> Depends on cost of A1 test - lower cost WHO options are available	<b>\$\$-\$\$\$</b> Depends on entry point attendee coverage and testing frequency	<b>\$</b>	<b>\$-\$\$</b> Depends on demand and uptake	<b>\$-\$\$</b> Depends on extent of targeting
<b>HR</b>	<b>\$-\$\$</b> Depends on coverage/frequency of testing and use of HIVST-for-triage	<b>\$\$</b> Time consuming but low numbers	<b>\$</b> Depends on extent of centralization/partnerships/AI support	<b>\$\$</b> Requires dedicated outreach staff/funded community partnerships
<b>Operational</b>	<b>\$</b> Existing infrastructure	<b>\$\$</b> Depends on notification method and if provider assisted in-person notification/testing	<b>\$</b>	<b>\$\$\$</b> Targeting/transport/infrastructure etc

# IAS Using building blocks flexibility to further reduce costs

Costs	Facility-based	Network-based	Community	
			Virtual	In-person
<b>Commodities</b>	<p><b>\$-\$\$</b></p> <p>Focus entry points Reduced testing frequency</p>	<p><b>\$</b></p>	<p><b>\$</b></p> <p>Integrate pre-self risk assessments?</p>	<p><b>\$-\$\$</b></p> <p>Depends on extent of targeting</p>
<b>HR</b>	<p><b>\$</b></p> <p>Self-testing for triage replacing HR heavy A1 RDT screening (enabled with AI facilitation?)</p>	<p><b>\$</b></p> <p>Dependent on notification method: Enhanced passive or provider-assisted (centralized/AI supported?)</p>	<p><b>\$</b></p> <p>Self-testing facilitated by lay staff/peers (or AI over time?)</p>	<p><b>\$-\$\$</b></p> <p>Leveraging other services cadres/task-sharing with virtual/increasing no cost partnerships including PLHIV/private sector?</p>
<b>Operational</b>		<p><b>\$</b></p> <p>Built into virtual HTS platform?</p>	<p><b>\$</b></p> <p>High set-up initially Depends on delivery costs to collection sites – leverage ART DSD sites?</p>	<p><b>\$-\$\$</b></p> <p>Improving integration - leveraging other health services outreach</p>



# 3. Design strategic mix: Short-term to cover critical HTS needs building toward longer-term sustainable strategic mix

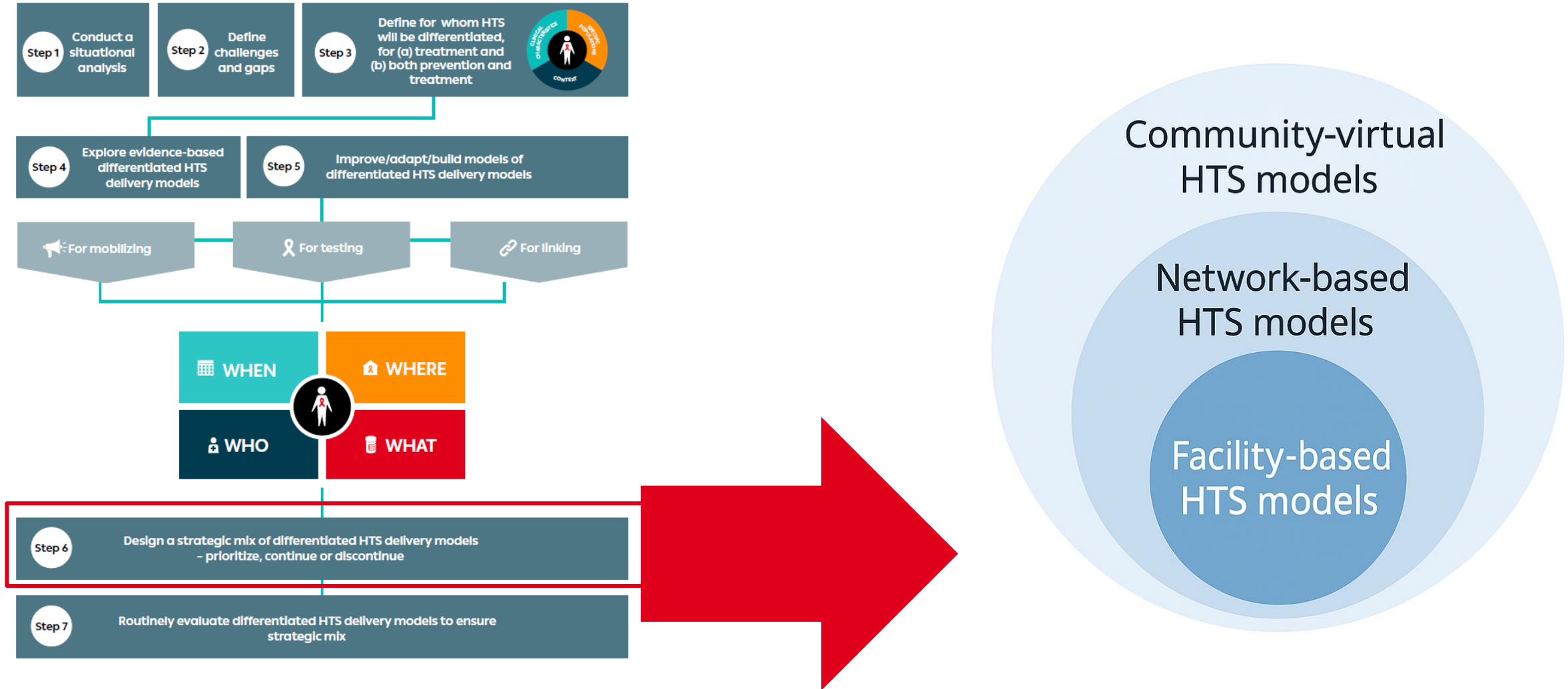


# RIAS Balancing effectiveness, efficiency and equity to shape the strategic mix: EFFICIENCY OF HTS MODELS AND STRATEGIC MIX

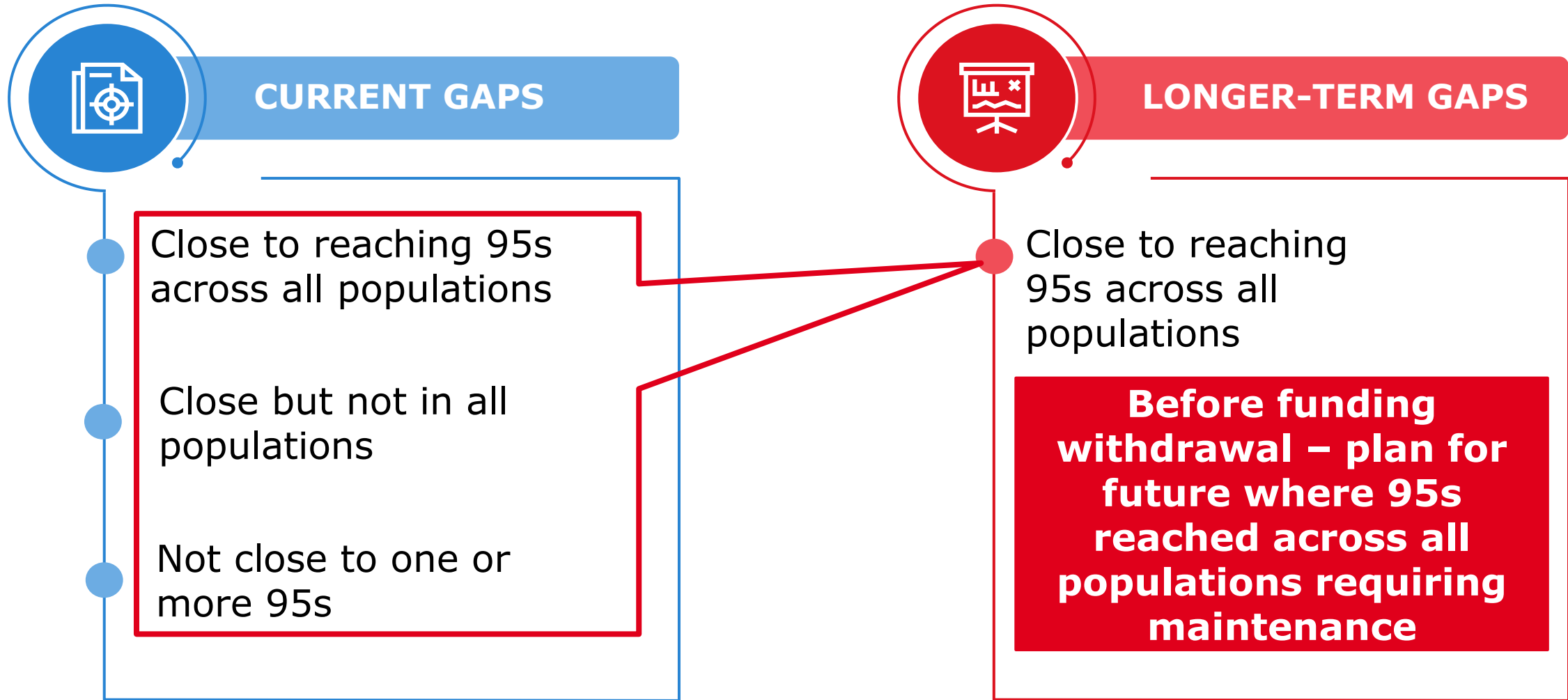
- **Cost per test**
- **Cost per positive diagnosis, cost per linkage to treatment, cost per linkage to prioritized prevention service**
- **Resource allocation:** appropriate distribution of financial and human resource costs **across strategic mix HTS models**
- **Integration of other screening or services:** multi-disease testing, combining services
- **Time to diagnosis and/or treatment linkage:** speed and ease with which a person can access testing and treatment **reducing future client and health system costs**
- **Operational efficiency:** How quickly and smoothly HTS is delivered
- **Scalability:** How rapidly models can close coverage gaps, allowing for discontinuation or continuation (if remains cost-effective and feasible at larger scales), **reducing reliance on more resource-intensive approaches**
- **Potential for further rationalization:** Opportunities to **reduce costs** by using more affordable tests, increasing self-testing, or combining testing strategies such as network-based approaches to better reach high-risk populations
- **Implementation feasibility: Practicality of rolling out the model,** considering available infrastructure, workforce capacity, regulatory environment, and community acceptance
- **Sustainability: Long-term feasibility of maintaining the model** with existing or foreseeable resources without overburdening the health system



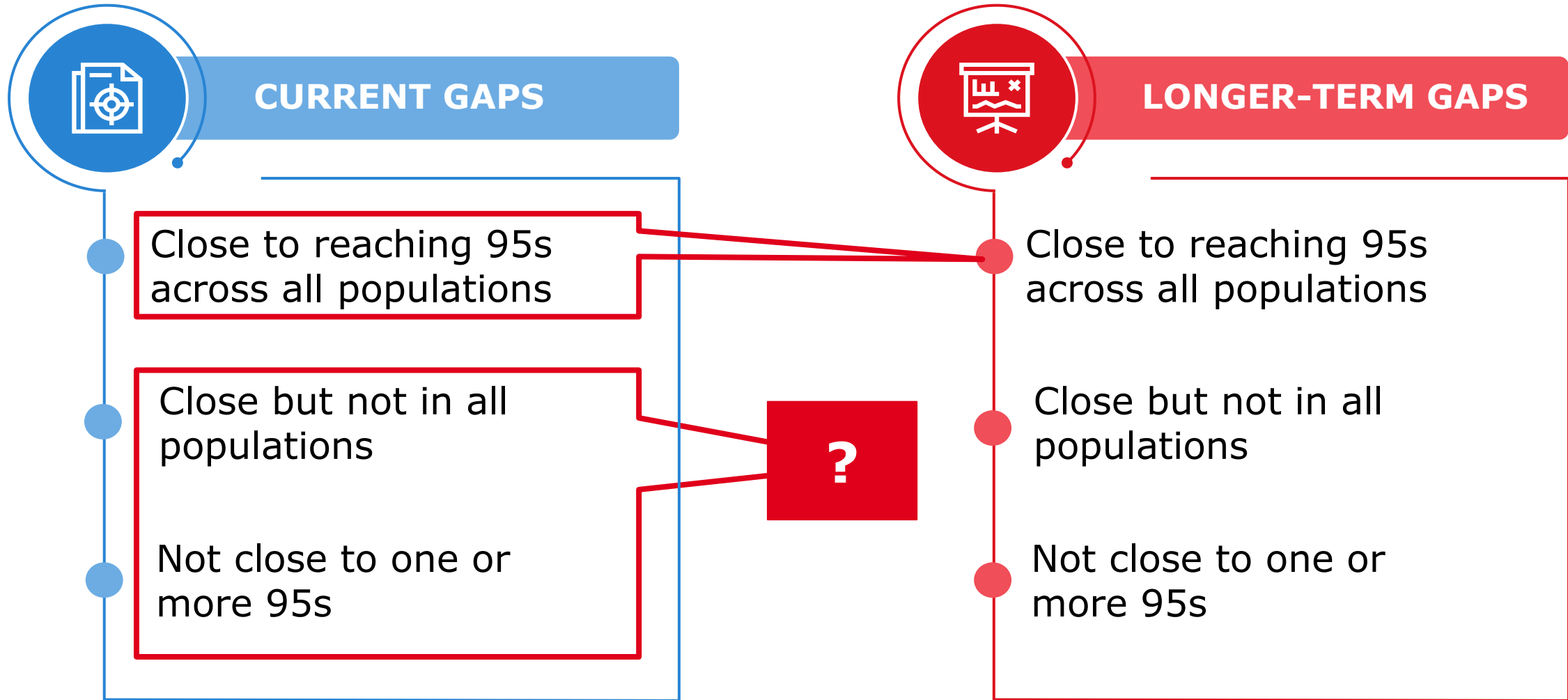
# 3. Design strategic mix: Short-term to cover critical HTS need building toward longer-term sustainable strategic mix



# IAS High or low HIV burden context scenarios:



# IAS High or low HIV burden context scenarios:



# **Current status: High HIV burden context -** **Close to reaching 95s across ALL populations**

## 4 Longer-term priorities

- National HTS access for individuals who self-assess need for HTS (in facilities + communities)
- Surveillance through limited number of effective HTS models reaching higher-risk, newly infected or disengaged individuals for sustained impact post-gap closure

Sustainability

## 1 Short-term priorities: Critical to maintain

Emergency Response

Facility-based	Network-based	Community	
		Virtual	In-person
<ul style="list-style-type: none"> <li>• All HIV symptomatic</li> <li>• ANC: 1<sup>st</sup> ANC visit only</li> <li>• Exposed infant testing: 6-weeks, 6 &amp; 18 months</li> <li>• TB/STI/inpatient: New</li> <li>• VCT/HIVST collection available: Once per year</li> <li>• PrEP retesting: 6-monthly</li> </ul>	Using enhanced passive notification with HIVST provision to: <ul style="list-style-type: none"> <li>• New HIV positive diagnosis</li> </ul>		

# **Current status: High HIV burden context -** **Close to reaching 95s across ALL populations**

## 4 Longer-term priorities

- National HTS access for individuals who self-assess need for HTS (in facilities + communities)
- Surveillance through limited number of effective HTS models reaching higher-risk, newly infected or disengaged individuals for sustained impact post-gap closure

Sustainability

## 2 Short-term priorities: Possible longer-term HTS models to plan for/invest in

Resilience

	Facility-based	Network-based	Community	
			Virtual	In-person
	<ul style="list-style-type: none"> <li>All HIV symptomatic</li> <li>ANC: 1<sup>st</sup> ANC visit only</li> <li>Exposed infant testing: <b>All</b></li> <li>TB/STI/inpatient: New</li> <li>VCT/HIVST collection available: Once per year</li> <li>PrEP retesting: 6-monthly</li> <li><b>FP attendees: Initiation + every 2<sup>nd</sup> year</b></li> </ul>	Using enhanced passive notification with HIVST provision + <b>provider-assisted notification utilizing virtual platform:</b> <ul style="list-style-type: none"> <li>Person with new HIV+ diagnosis</li> <li><b>ART clients: if re-engage &gt;3m or VL&gt;1000</b></li> </ul>	<b>National centralized (towards AI supported) utilizing:</b>	
			<b>HIVST collection points</b>	
			<b>Referred after virtual registration</b>	<b>Walk-in (required to register with virtual site)</b>

# IAS Current status: High HIV burden contexts - **Close BUT NOT in all populations i.e. GAP POPULATIONS**



- National HTS access for individuals who self-assess need for HTS (in facilities + communities)
- **Feasible, cost-effective HTS models aimed at the gap populations to close gaps**
- **Surveillance among non-gap populations** through limited number of effective HTS models reaching higher-risk, newly infected or disengaged individuals for sustained impact post-gap closure



**SAME AS**  
*High HIV burden context - Close to reaching 95s across ALL populations*  
**+**

	Facility-based	Network-based	Community	
			Virtual	In-person
<b>AGYW gap</b>	<ul style="list-style-type: none"> <li>• <b>ANC:</b> Add if &lt;25 years 3<sup>rd</sup> trimester/delivery</li> <li>• VCT/HIVST available</li> <li>• <b>FP:</b> Once per annum</li> </ul>			
<b>KP gap</b>	<ul style="list-style-type: none"> <li>• HIV symptomatic</li> <li>• VCT/HIVST available</li> <li>• STI/inpatient new</li> </ul>	Using enhanced passive notification with HIVST provision to: <ul style="list-style-type: none"> <li>• Person with new HIV+ diagnosis</li> </ul>		CBO provided selected high volume DIC or outreach locations (where resources allow)
<b>Men gap</b>	<ul style="list-style-type: none"> <li>• HIV symptomatic</li> <li>• VCT/HIVST available</li> <li>• TB/STI/Inpatient new</li> </ul>	FP + ANC partner notification: using enhanced passive notification		

\*light grey already covered but noted as key for these population groups

Resilience	Facility-based	Network-based	Community	
			Virtual	In-person
<b>AGYW gap</b>	<ul style="list-style-type: none"> <li><b>ANC:</b> Add if &lt;25 years 3<sup>rd</sup> trimester/ delivery</li> <li>VCT/HIVST available</li> <li><b>FP:</b> Once per annum</li> </ul>	Using enhanced passive notification with HIVST provision + <b>provider-assisted notification utilizing virtual platform:</b> <ul style="list-style-type: none"> <li>Person with new HIV+ diagnosis</li> <li><b>STI new irrespective of HIV test result</b></li> </ul>	<ul style="list-style-type: none"> <li><b>National centralized with collection points</b></li> <li>+ <b>Targeted segmented social media</b></li> <li>+ <b>Advertising at previous AGYW &amp; KP &amp; men focused outreach points/services</b></li> </ul>	CBO provided selected high volume DIC or outreach locations (where resources allow) + <b>prioritize virtual HTS demand generation</b>
<b>KP gap</b>	<ul style="list-style-type: none"> <li>HIV symptomatic</li> <li>VCT/HIVST available</li> <li>STI/inpatient new</li> </ul>	Expanding to <b>social network based HIVST linked to virtual platform</b>		
<b>Men gap</b>	<ul style="list-style-type: none"> <li>HIV symptomatic</li> <li>VCT/HIVST available</li> <li>TB/STI/Inpatient new</li> </ul>	FP + ANC partner notification: using enhanced passive notification		

\*light grey already covered but noted as key for these population groups



# Current status: High HIV burden contexts - Not close to one or more 95s

## 4 Longer-term priorities

→ National HTS access for individuals who self-assess need for HTS (in facilities + communities)

→ Feasible, cost-effective HTS models aimed at reaching the highest number of people living with HIV ensuring HTS for those with the at the highest risk of morbidity and mortality

Sustainability

## 1 Short-term priorities: Critical to maintain

Emergency Response

	Facility-based	Network-based	Community	
			Virtual	In-person
	<ul style="list-style-type: none"> <li>All HIV symptomatic</li> <li>ANC: 1<sup>st</sup> ANC visit and 3<sup>rd</sup> trimester/delivery</li> <li>Exposed infant testing: 6-weeks, 6 &amp; 18 months</li> <li>TB/STI/inpatient: New</li> <li>VCT/HIVST collection available: Once per year</li> <li>PrEP retesting: 6-monthly</li> </ul>	Using enhanced passive notification with HIVST provision to: <ul style="list-style-type: none"> <li>New HIV positive diagnosis</li> </ul>	HIVST collection points	

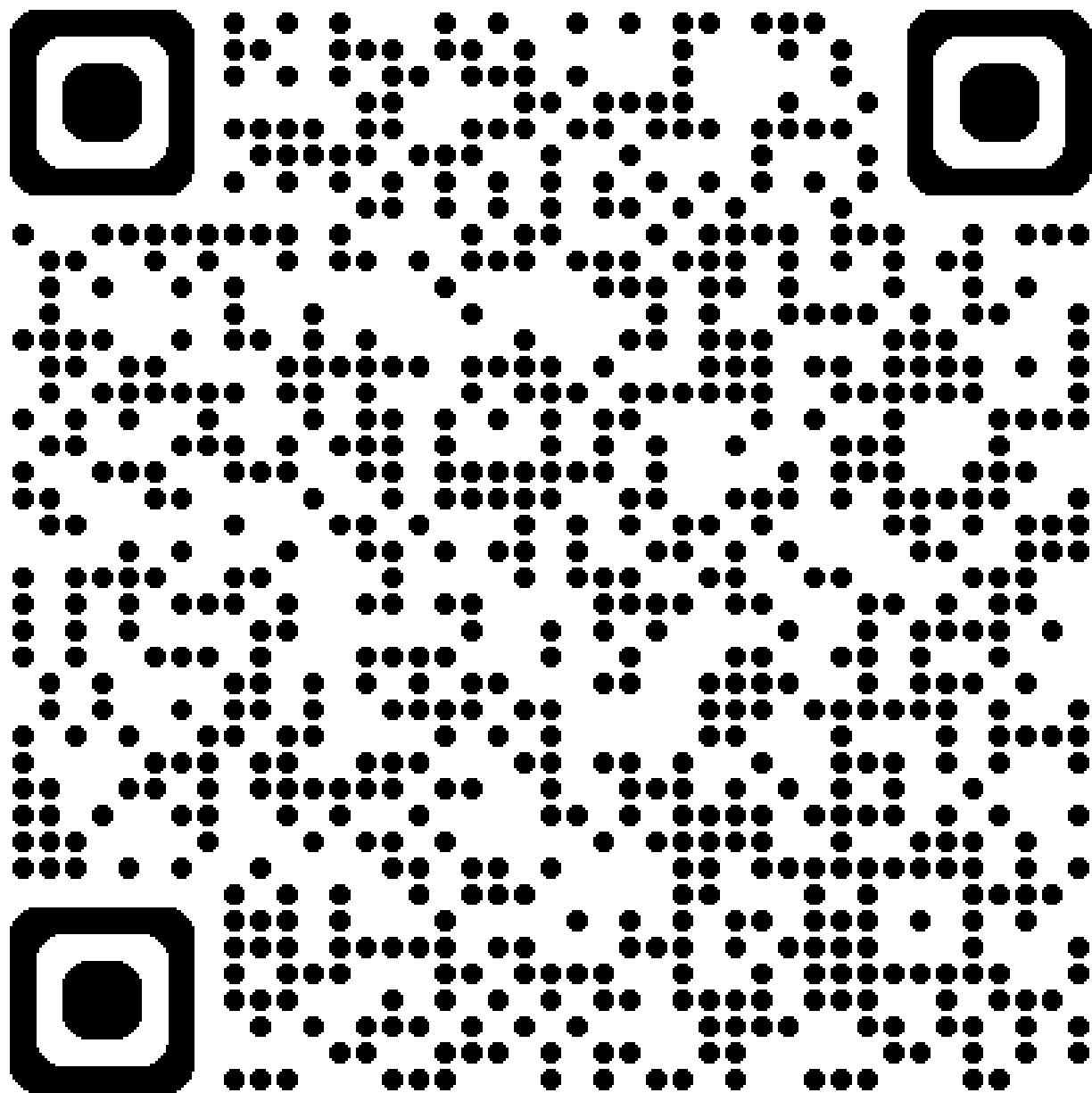


# Current status: High HIV burden contexts - Not close to one or more 95s

2

Short-term priorities: *Possible longer-term HTS models to plan for/invest in*

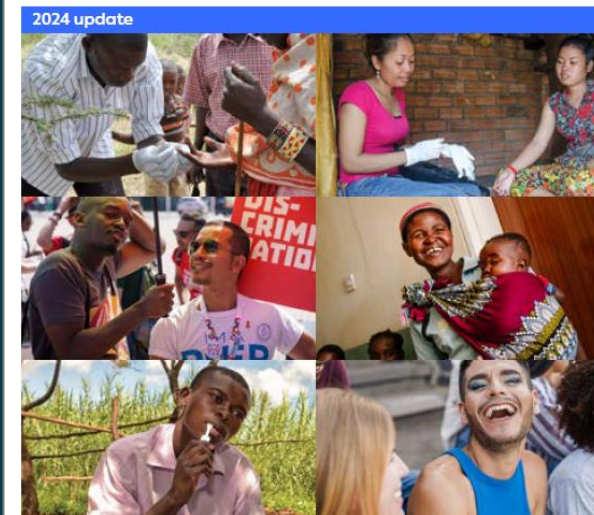
Facility-based	Network-based	Community	
		Virtual	In-person
<ul style="list-style-type: none"> <li>• All HIV symptomatic</li> <li>• ANC: 1<sup>st</sup> ANC visit and 3<sup>rd</sup> trimester/delivery</li> <li>• Exposed infant testing: <b>All</b></li> <li>• TB/STI/inpatient/<b>malnutrition</b>: New</li> <li>• VCT/HIVST collection available: Once per year</li> <li>• PrEP retesting: 6-monthly</li> <li>• <b>FP attendees: Initiation and once per year</b></li> </ul>	<p>Using enhanced passive notification with HIVST provision + <b>provider-assisted notification utilizing virtual platform:</b></p> <ul style="list-style-type: none"> <li>• Person with new HIV+ diagnosis</li> <li>• <b>ART clients: if re-engage &gt;3m or VL&gt;1000</b></li> <li>• <b>STI new irrespective of HIV test result</b></li> <li>• <b>FP + ANC partners irrespective of HIV test result</b></li> </ul>	<p><b>National centralized (towards AI supported) utilizing:</b></p>	
		<p>HIVST collection points</p>	



Differentiated service delivery for HIV:

## A Decision Framework for HIV testing services

Mobilizing, testing, linking



# QR code to download

# Thank you