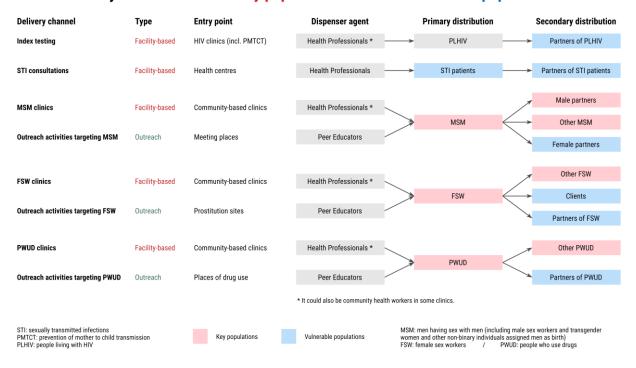
Supplementary Material

Appendix 1 ATLAS HIVST delivery channels

ATLAS delivery channels to reach key populations and other vulnerable populations



Appendix 2 Sources of cost inputs and of cost allocation data for the top-down (TD) and bottom-up (BU) costing approaches using a provider's perspective (costs at site level in grey, costs above site level in white)

Testing services		HIVST				HTS	
Intervention phases	Develo	Development Start up		Implementation		Implementation	
Costing approach	TD	BU	TD BU	TD	BU	TD	BU
Capital							
Building & storage	X		X	X	X		X
Equipment	X		X	X	X		X
Vehicles	X		X	X			
Other capital costs	X		X	X			
Recurrent							
Training			X				
Sensitization – Coordination			X				
Sensitization – Solthis pays			X				
Personnel & Per diems Headquarters Solthis Pays	X		X	X			
Personnel & Per diems – Coordination	X		X	X			
Personnel & Per diems - Headquarters (implementing partners)				X	X		X
Personnel & Per diems – Field (HIVST distributors)				X	X		X
HIV self-testing kits/HTS session				X			X
Vehicle operation, maintenance & transport	X		X	X			X
Building operation/maintenance	X		X	X			X
Other recurrent	X		X	X			X

Appendix 3 Allocation factors for the top-down costing analysis by input type

	Allocation factors to site level						
Input type	Côte d'Ivoire	Senegal	Mali				
Start-up costs							
S1. Trainings	% trained distributors	% trained distributors	% trained distributors				
S2. Sensitization	% of cohort size	% of cohort size	% of cohort size				
Capital costs							
C1. Buildings and storage	% direct expenditure	% direct expenditure	% direct expenditure				
C2. Equipment	% direct expenditure	% direct expenditure	% direct expenditure				
C3. Vehicles	% HIVST kits distributed	% HIVST kits distributed	% HIVST kits distributed				
C4. Other capital costs	% direct expenditure	% direct expenditure	% direct expenditure				
Recurrent costs							
R1. Personnel & Per diems – Headquarters IPO coordination	% trained distributors	Equally shared across sites	% trained distributors				
R2. Personnel & Per diems – Headquarters IPO country	% trained distributors	Equally shared across sites	% trained distributors				
R3. Personnel & Per diems – Headquarters Implementing partner	% trained distributors	% HIVST distributors	% trained distributors				
R4. Personnel & Per diems – Field - HIVST distributors	% trained distributors	% HIVST distributors	% trained distributors				
R5. HIV self-testing kits	% HIVST kits distributed	% HIVST kits distributed	% HIVST kits distributed				
R6. Vehicle operation and maintenance/transportation	% HIVST kits distributed	% HIVST kits distributed	% HIVST kits distributed				
R7. Building operation and maintenance	% direct expenditure	% direct expenditure	% direct expenditure				
R8. Other recurrent costs	% direct expenditure	% direct expenditure	% direct expenditure				

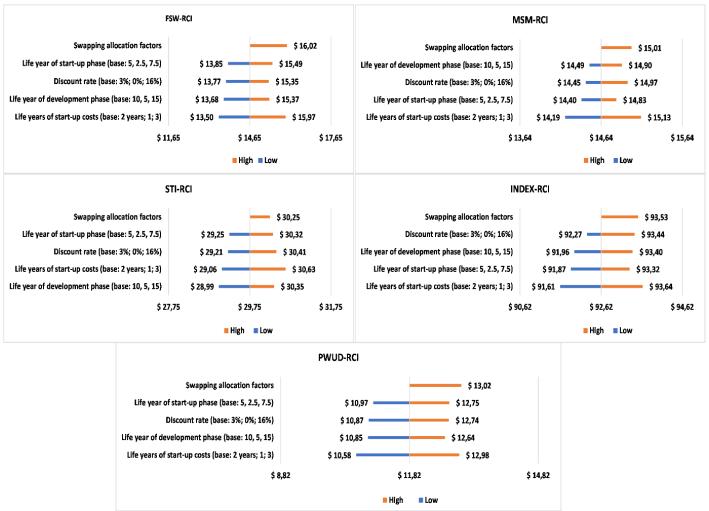


Appendix 4 Total, testing sessions, Average cost per HTS session, Average cost per HTS-positive identified of HTS costs, by country, by channel, and by expense item in health facilities (in 2021 US\$)

	Côte d'Ivoire HTS			Mali	Senegal					
				HTS		HTS				
	STI	%	Index testing		STI/Index testing	%	STI	%	Index testing	%
Number of sites	10		12		6		5		4	
Capital costs										
Buildings and storage	64	1%	68	1%	727	1%	1168	4%	1224	2%
Equipment	7	0%	8	0%	73	0%	117	0%	122	0%
Recurrent Costs										
Personnel – Administration/management costs	841	11 %	2 909	23 %	30784	27 %	5183	18%	17872	30 %
Personnel – HIV testing providers	4 138	56 %	5 929	48 %	44675	39 %	13540	47%	24457	41 %
Testing supplies	2 211	30 %	3 326	27 %	28632	25 %	6113	21%	14566	24 %
Vehicle operation and maintenance	10	0%	39	0%	2480	2%	0	0%	0	0%
Building operation and maintenance	45	1%	57	0%	4816	4%	1738	6%	733	1%
Other recurrent costs	82	1%	88	1%	1086	1%	926	3%	886	1%
TOTAL COSTS	7 39	97	12 423		113273		28784		59861	
HTS testing sessions (HIV diagnosis)	1073	(02)	1613 (148)		18839 (2118)		3929 (42)		9385 (89)	
Average cost per HTS session (min- max)	8 (6-	10)	8 (6-14)		8 (4-14)		8 (3-11)		7 (3-11)	
Average cost per HIV diagnosis (min- max)	*185 (209	`	*87 (40-145)		72 (21-147)		705 (364- 1032)		662 (301-854)	

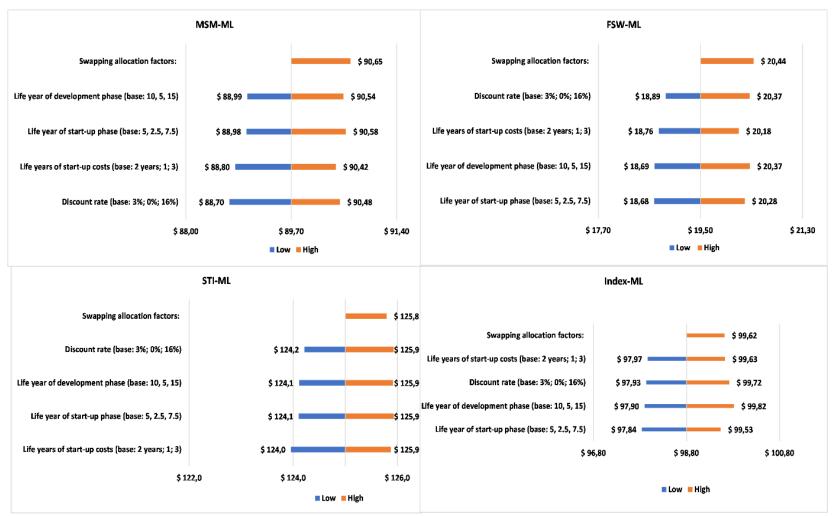
HTS: traditional HIV testing services; STI: partners of sexually transmitted infections patients; Index Testing: sexual partners of PLHIV; PLHIV people living with HIV *For the cost per HIV diagnosis in Côte d'Ivoire, some sites did not identify HIV-positive cases during the observation period through STI (8/10 sites) and Index testing (10/12 sites) channels and were excluded from the analysis

Appendix 5a Tornado diagrams of findings from deterministic sensitivity analysis in health facilities in Côte d'Ivoire

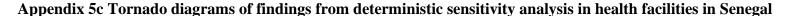


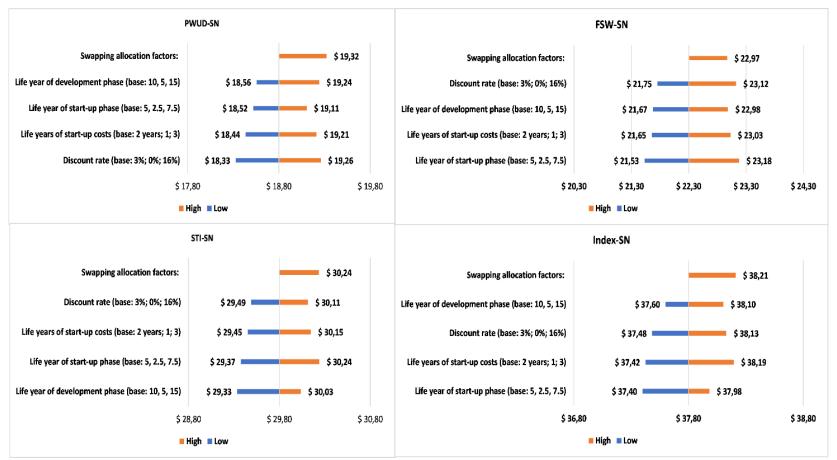
HIVST: HIV Self-Testing kit; HTS: HIV Testing Services; FSW: Female Sex workers; MSM: Men who have Sex with Men; PWUD: People who use drugs; STI: STI: partners of sexually transmitted infections patients; PLHIV people living with HIV; Index Testing: sexual partners of PLHIV;

Appendix 5b Tornado diagrams of findings from deterministic sensitivity analysis in health facilities in Mali



HIVST: HIV Self-Testing kit; HTS: HIV Testing Services; FSW: Female Sex workers; MSM: Men who have Sex with Men; PWUD: People who use drugs; STI: STI: partners of sexually transmitted infections patients; PLHIV people living with HIV; Index Testing: sexual partners of PLHIV;





HIVST: HIV Self-Testing kit; HTS: HIV Testing Services; FSW: Female Sex workers; MSM: Men who have Sex with Men; PWUD: People who use drugs; STI: STI: partners of sexually transmitted infections patients; PLHIV people living with HIV; Index Testing: sexual partners of PLHIV;