

SMART4TB

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Supporting, Mobilizing, and Accelerating Research for TB Elimination



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Supporting, Mobilizing, and
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Tuberculosis Elimination



Supporting, Mobilizing, and Accelerating Research for TB Elimination

USAID Cooperative Agreement to accelerate progress to achieve the End TB goals in high-burden countries

- A consortium of leading researchers, educators, policy experts, and public health advocates from across the globe
- Up to USD \$200 million over 5 years to meet the challenges of ending TB
- 10% co-funding requirement, from non-USG sources
- Headquarters (global) funding of \$140 million
- Year 1&2 funding = \$25 million
- Substantial USAID participation and input



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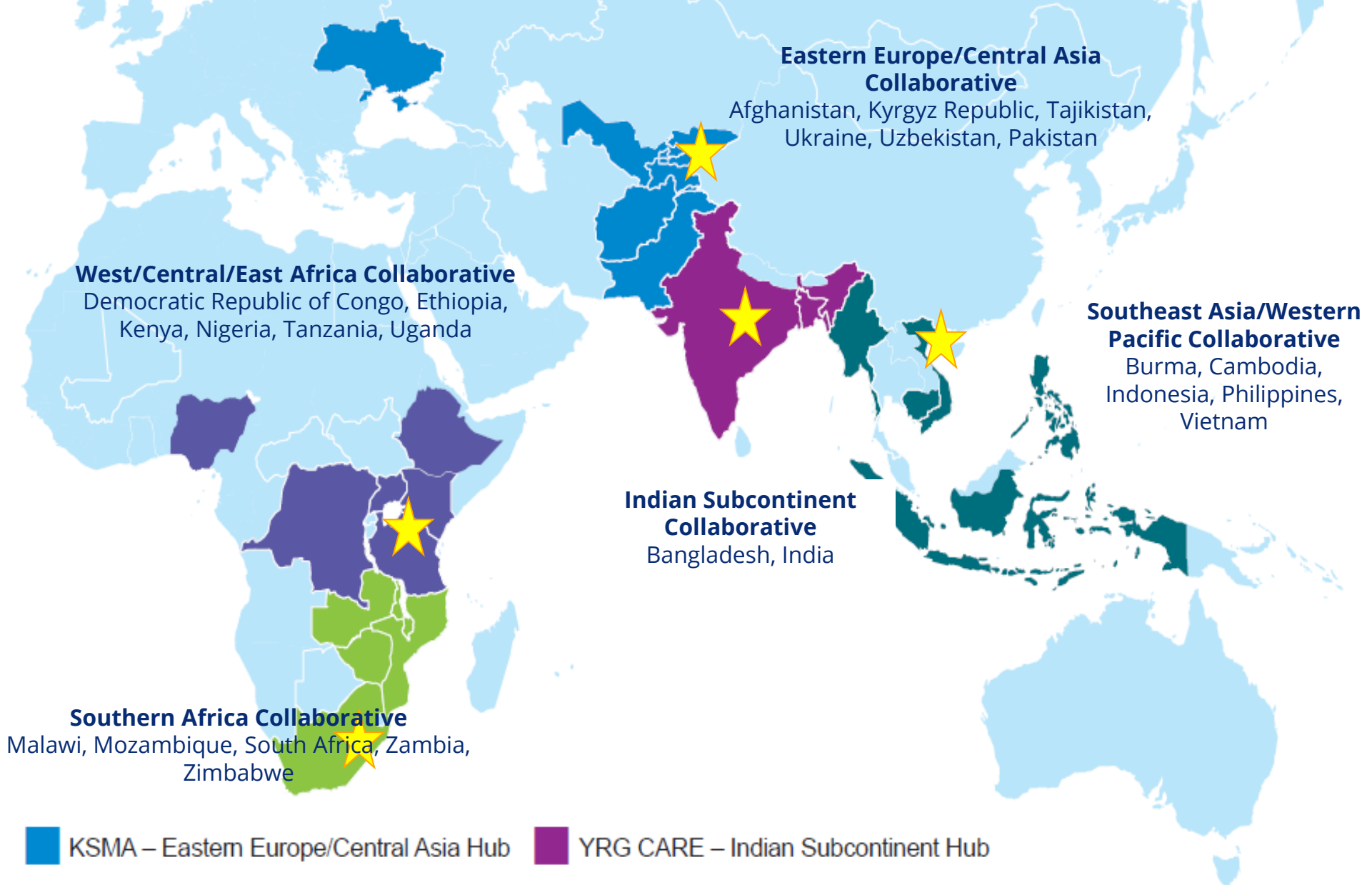


Regional Collaborative Hosts



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SMART4TB: A Tripartite Mission

- ✓ Research
- ✓ Capacity-Strengthening
- ✓ Policy and Community Engagement



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Technical Areas + Funding Distribution

USAID HQ Funds



TA1: Diagnostics



TA2: Therapeutics



TA5: Vaccine Preparedness



TA7: Policy Translation



**TA6: Capacity
Strengthening**

USAID Mission Funds



TA3: Operational Research

v



TA4: Interrupting Transmission



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TA1: Diagnostics

Key activities and deliverables: Leverage high-quality TB diagnostic research sites and existing protocols to rapidly initiate evaluations that will enable WHO review of promising novel tests:

- Identify, help advance, and select novel diagnostics for field evaluations
 - Supporting 5 biotech innovators to pivot COVID and other diagnostic platforms to TB
- Evaluate the usability and performance of non-sputum-based point-of-care TB diagnostic tests among adults to facilitate WHO policy review
 - ADAPT Study – coordinated with NIAID-funded R2D2 program
- Evaluate the usability and performance of non-sputum-based point-of-care TB triage and diagnostic tests among children
 - ADAPT for Kids Study



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TA2: Therapeutics

Key activities and deliverables: Develop novel regimen trials for DS- and DR- TB, and rapidly assess the landscape of options for pregnant women and children in TB therapeutics trials:

- PRISM-TB: Randomized trial in adults and children to improve the treatment of DR-TB by optimizing regimens and duration using baseline predictors for treatment failure and relapse
- PRISM-Kids: Observational study of risk-based stratification of DR-TB treatment in children
- SMILE-TB: Randomized trial of a treatment-shortening DS-TB treatment trial in children with a 2-month regimen
- BREACH-TB: Develop a protocol evaluating bedaquiline for TB prevention in adults, children, and pregnant women with and without HIV
- BRIDGE UP: A consensus conference on TB therapeutic research in pregnant women, October 2023



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TA3: Operational Research



Working with local partners and with mission support, develop operational research to improve performance of TB programs for key and vulnerable populations by targeting health system challenges and socioeconomic, behavioral, and other determinants of TB

- South Africa – working with TB Think Tank to issue RFA for operational research
- Will work with local partners to design, implement, and interpret studies

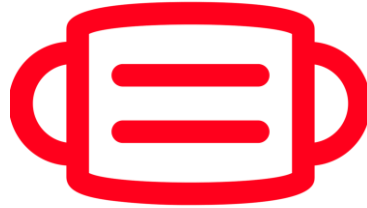


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TA4: Interrupting Transmission



Develop and evaluate innovative concepts and practices to interrupt tuberculosis transmission

- Develop a protocol to evaluate TB contact evaluations within social networks of patients to identify individuals with unrecognized TB or in need of TB Preventive Treatment
- Develop and evaluate packages of Airborne Infection Prevention and Control (AIPC) practices to reduce transmission within health facilities



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TA5: Vaccine Preparedness

Key activities and deliverables: Build the foundation to inform research and future implementation activities for new TB vaccines:

- Review of available evidence to identify gaps related to TB vaccine readiness
- Review lessons learned from recent vaccine introductions across the life course, including COVID-19 vaccines, HPV vaccines, and others
- Collect preliminary data related to TB vaccine readiness in priority countries and target populations
 - Embedding patient preference questions in ongoing vaccine preparedness studies for HPV, malaria, and other vaccine candidates



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TA6: Capacity Strengthening

- Early-stage Investigator (ESI) Mentorship Program
 - Early-stage investigators from countries with USAID Mission concurrence for are being mentored in research skills, study design, protocol development, and scientific leadership
 - Future phases of the program will involve structured mentorship of locally-identified and locally-led research projects

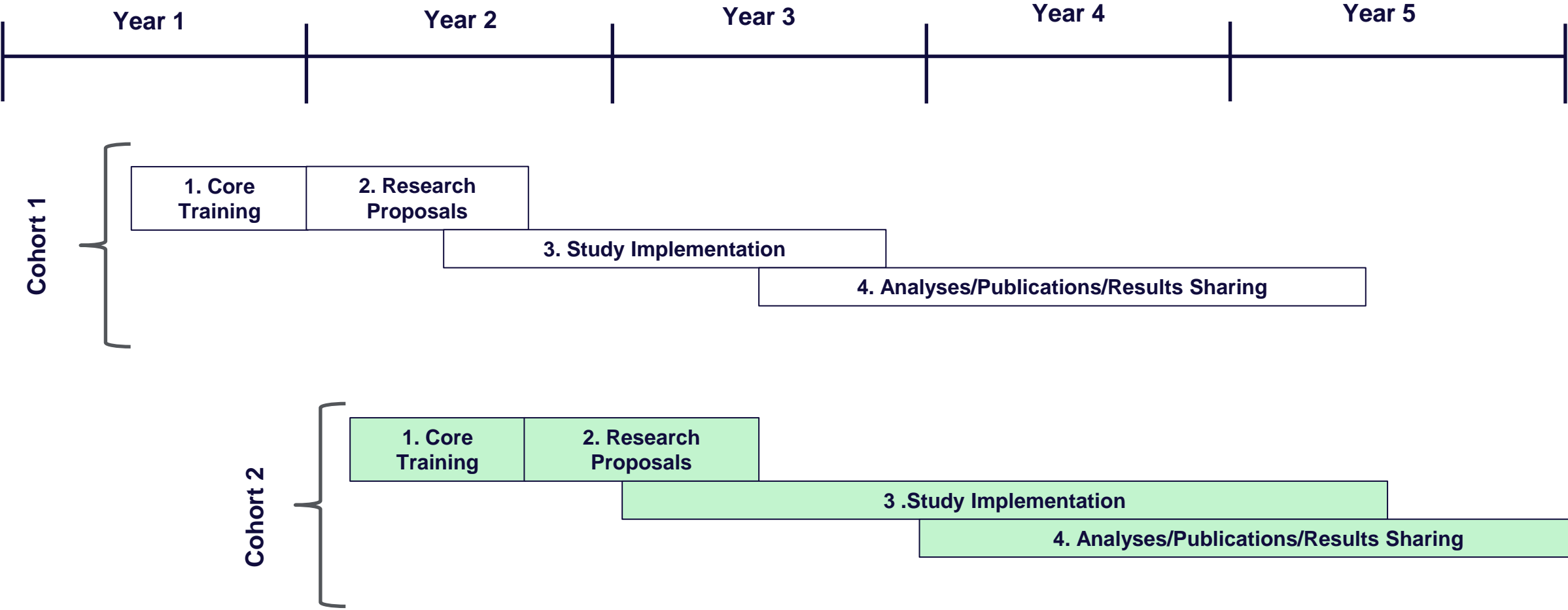
Additional capacity-strengthening activities and funds to be identified in partnership with country missions



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Timeline for 2 ESI Cohorts Proposed



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Other Capacity Strengthening Opportunities

- Courses and training resources will also be made available on the LMS for all SMART4TB partners, investigators and staff to support site and protocol-specific capacity strengthening.
- Share courses and training resources with TB Research and Advancement Center (TRAC) and Regional Prospective Observational Research in Tuberculosis (RePORT) International International Coordinating Center (RICC)
- Support SMART4TB partners and participating countries to use and strengthen their own research training resources and experience



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TA7: Policy Translation

Key activities and deliverables: Build a strong framework for policy translation and community engagement in each step of the project's development, as well as achieve ambitious high-level global policy commitments to advance research to end TB:

- Research design and implementation reflect the priorities of country stakeholders and affected communities;
- Following engagement throughout protocol and trial development to ensure project plans are relevant for policy change;
- Policy and community engagement plans and use of resources are aligned and synergistic with other members of the global TB community



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USAID Mission Concurrence for SMART4TB: 8 Sept 2023

	TA1 Diagnostics	TA2 Therapeutics	TA3 Implementation Science	TA4 Transmission Prevention	TA5 Vaccine Preparedness	TA6 Capacity Strengthening	TA7 Vaccine Preparedness
Indonesia		SMILE				ESI	
Moldova		PRISM				ESI	
Mongolia		PRISM					
Mozambique	ADAPT-K	SMILE				ESI	
Nigeria	ADAPT					ESI	
Pakistan		PRISM				ESI	
Peru		PRISM				ESI	
Philippines	ADAPT	PRISM				ESI	
South Africa		PRISM+SMILE				ESI	
Vietnam		PRISM				ESI	
Uganda		SMILE				ESI	
Zambia	ADAPT	SMILE			KAB	ESI	



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Thank you!



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SMART4TB
Consortium