

Cervical Cancer Elimination in Pacific Island Countries: Pacific Heads of Health Meeting, April 2024

Karen Canfell, Deborah Bateson, Andrew Vallely, Marion Saville, Anne Stuart, Kristine McCartney, Azedah Baghaki, Vanessa Price, Telma Costa, Tim Balshaw & our colleagues throughout the Indo-Pacific



ELIMINATION PARTNERSHIP IN THE
INDO-PACIFIC FOR CERVICAL CANCER

The Daffodil Centre

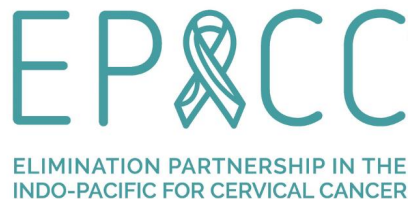
A partnership between



Disclosures

KC, DB, AV, MS are co-PIs on the implementation program *Elimination of Cervical Cancer in the Western Pacific* which has received support from the Minderoo Foundation and equipment donations from Cepheid Inc.

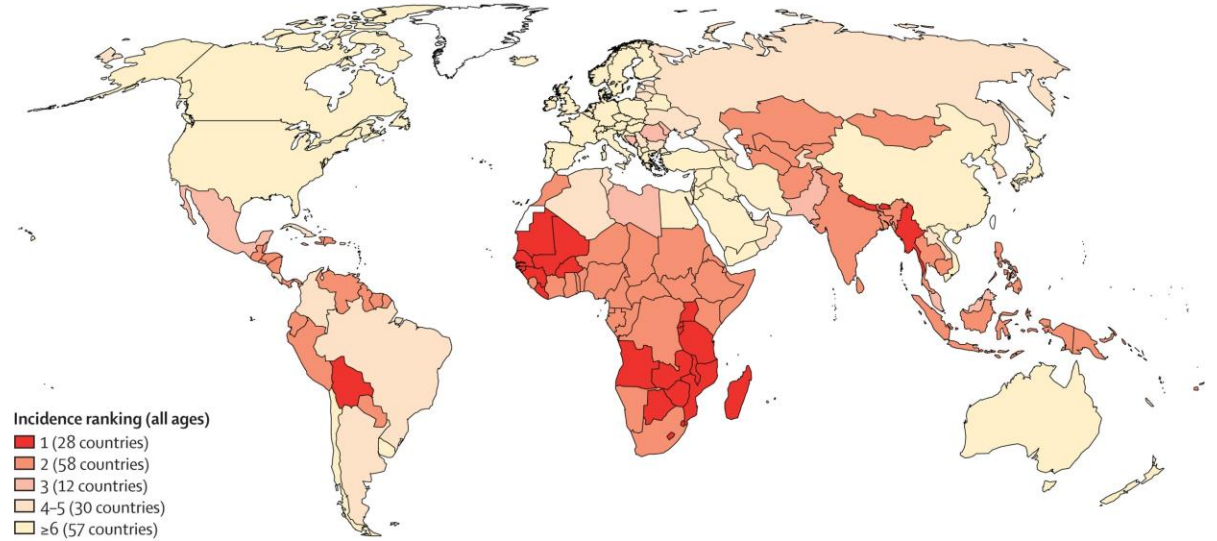
KC, MS are co-PIs of an investigator-initiated trial of cervical screening, Compass, run by the Australian Centre for Prevention of Cervical Cancer (ACPCC); ACPCC has received equipment and a funding contribution from Roche Molecular Diagnostics.



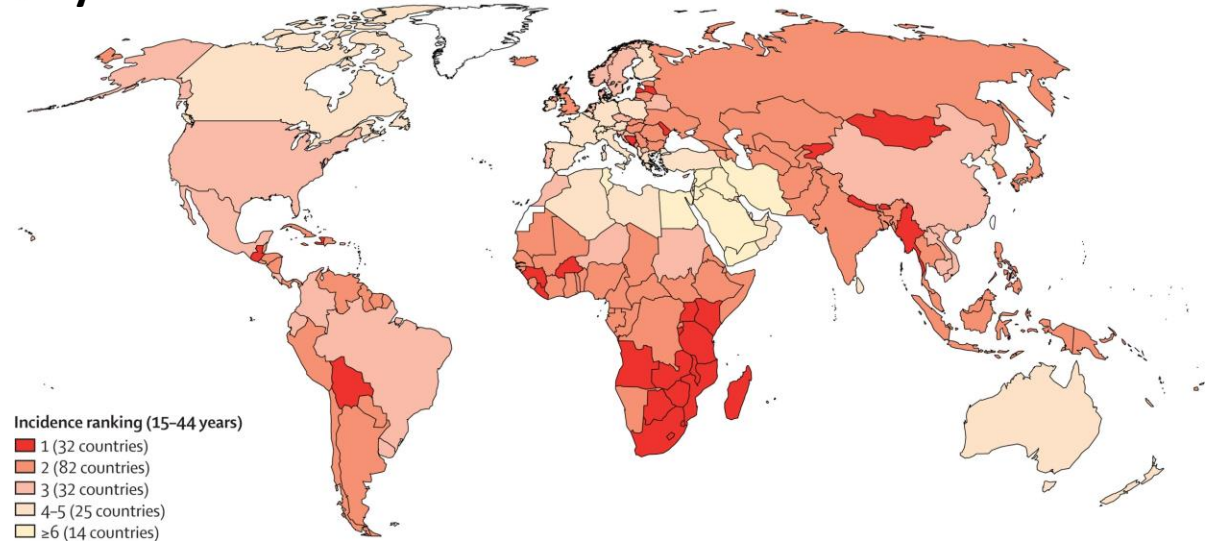
Cervical cancer: A case study for global inequity in health

- Ranks in the **top three cancers** in women in the majority of countries **worldwide**.
- **90% of the burden** is concentrated in LMIC where it is the leading cause of cancer death in women in many countries.
- **One quarter** of cases occur in the Indo-Pacific.
- Tragically, **women are dying at up to 13 times the rate** of women in Australia.

All ages



<45 years



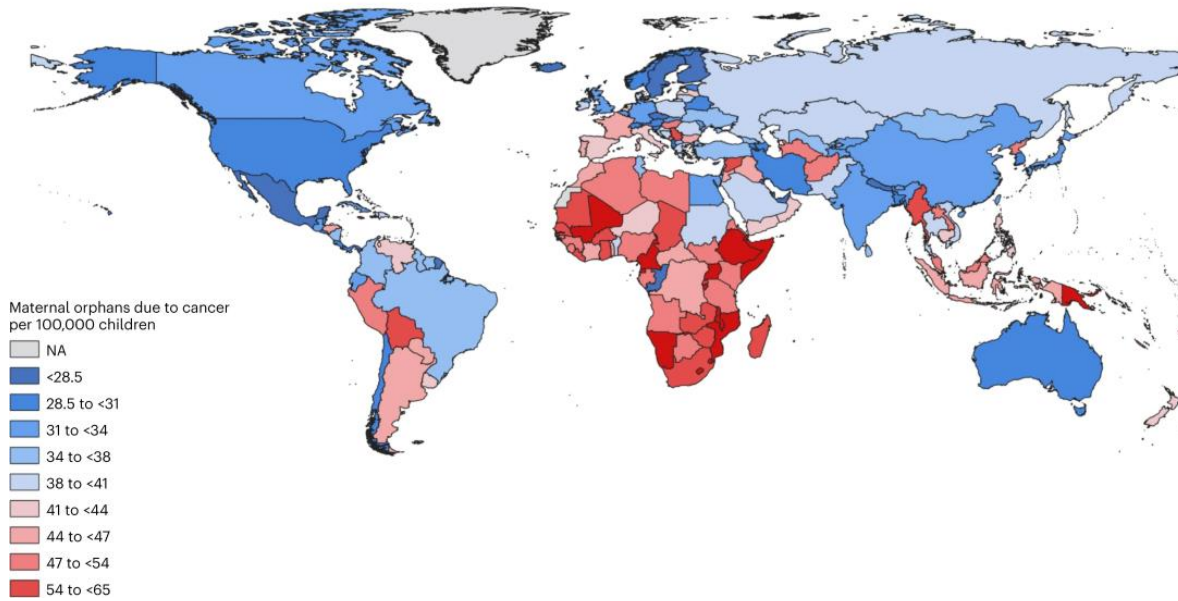
Arbyn M, Weiderpass E, Bruni L, de Sanjose S, Saraiya M, Ferlay J, Bray F, Estimates of incidence and mortality of cervical cancer in 2018: a worldwide analysis, *Lancet GH* 2019

EPICC is supported by the Australian Government through the Partnerships for a Healthy Region initiative

The intergenerational consequences are profound

All cancers

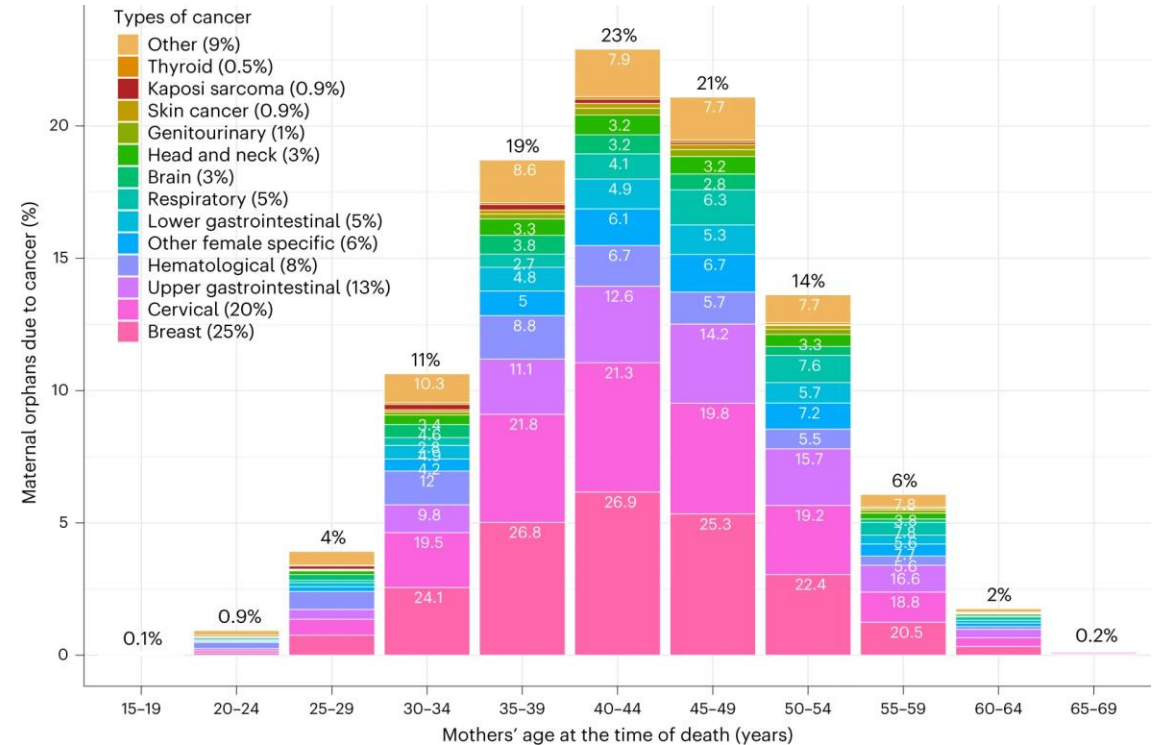
In 2020, 4.4M cancer deaths in women resulted in 1.0M new maternal orphans globally



New maternal orphans due to cancer per 100,000 children in 2020

Cervical cancer

Est. 341,000 cervical cancer deaths, resulting in 210,000 new maternal orphans



Global distribution of maternal orphans due to cancer by mother's age at time of death and type of cancer

Guida, F., Kidman, R., Ferlay, J. *et al.* Global and regional estimates of orphans attributed to maternal cancer mortality in 2020. *Nat Med* **28**, 2563–2572 (2022).

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We have the tools and a strategy to globally eliminate cervical cancer

Save the date

FOR THE FIRST TIME EVER,
the world has committed to eliminate a cancer.

EVERYONE IS INVITED TO JOIN THE LAUNCH

Since Dr. Tedros' Call to Action in May 2018, the world has responded: in August 2020, the World Health Assembly passed a resolution calling for elimination of cervical cancer and adopting a strategy to make it happen.

On November 17, following the close of the 73rd World Health Assembly, WHO will mark this historic announcement and officially launch the elimination strategy.

Women who have survived cervical cancer from all regions of the world - women who have fought the disease - will open the event. All around the world, companion events and launch activities will mark a day of action.

The moment has arrived for an ambitious, concerted and inclusive strategy to accelerate eliminating cervical cancer as a public health problem.

**17th
November
2020**
1430-1600 CET

EVERYONE IS INVITED
TO JOIN THE LAUNCH
FIND OUT MORE

**CERVICAL
CANCER
FREE
FUTURE**



Global strategy to accelerate the elimination of cervical cancer as a public health problem



The three pillars of elimination

Global strategy to accelerate the elimination of cervical cancer as a public health problem



The three pillars of cervical cancer control

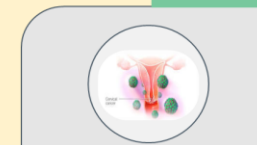
WHO 2030 targets



Vaccination

90%

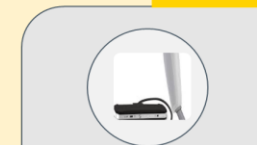
of girls fully vaccinated by age 15



Screening

70%

of women HPV screened at 35 and 45



Treatment

90%

of women identified with precancer or cervical cancer treated

Cervical cancer threshold for elimination as a public health problem: 4 cervical cancer cases per 100,000 women per annum

RoI

US \$3.20 returned to the economy for every dollar invested through 2050 and beyond.

The figure rises to US \$26.00 when the benefits of women's improved health on families, communities, and societies are considered.

World Health Organization. Global strategy towards eliminating cervical cancer as a public health problem, November 2020.

Seventy-third session of the World Health Organization Regional Committee for the Western Pacific

24 – 28 October 2022 Manila, Philippines



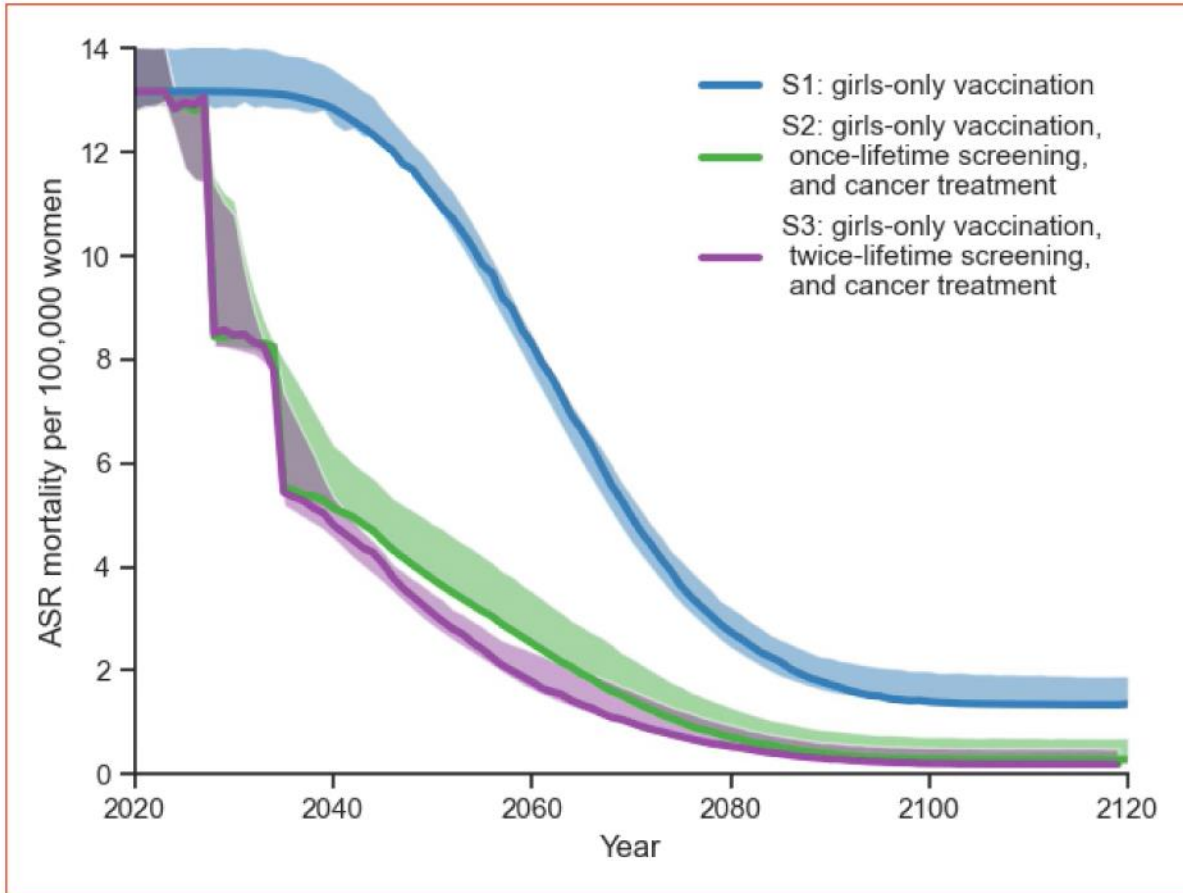
Strategic Framework for the Comprehensive Prevention and Control of Cervical Cancer in the Western Pacific Region 2023–2030



WPR RCM 73 Resolution 4: Cervical Cancer

We must act now, on all three fronts...

Across 78 LMIC



Combined impact of three pillars results in both short- and longer-term population-wide benefits:

300,000-400,000 deaths averted by 2030

14.6M deaths averted by 2070

62.6M deaths averted over the course of the century



International Agency for Research on Cancer



The Daffodil Centre



Canfell K/Kim JJ/Brisson M et al., Mortality impact of achieving WHO cervical cancer elimination targets: a comparative modelling analysis in 78 low-income and lower-middle-income countries *Lancet* Jan 30 2020

WHO guideline for screening and treatment of cervical pre-cancer lesions for cervical cancer prevention, second edition

Game-changing screening guidelines from WHO have been released

“WHO recommends using HPV detection as the primary screening test rather than VIA or cytology in screening and treatment approaches among both the general population of women and women living with HIV”

nature medicine

Article <https://doi.org/10.1038/s41591-023-02600-4>

Benefits, harms and cost-effectiveness of cervical screening, triage and treatment strategies for women in the general population

Received: 19 December 2022
Accepted: 19 September 2023
Published online: 12 December 2023
Check for updates

Kate T. Simms^{1,2*}, Adam Keane^{1,2*}, Diep Thi Ngoc Nguyen^{1,2}, Michael Caruana³, Michaela T. Hall⁴, Gigi Lui⁵, Cindy Gauvreau^{6,7}, Owen Demke⁸, Marc Arbyn⁹, Partha Basu¹⁰, Nicolas Wentzensen¹¹, Beatrice Lauby-Secretan¹², Andre Ibbawi¹³, Raymond Hutubessy¹⁴, Maribel Almonte¹⁵, Silvia De Sanjose^{16,17}, Helen Kelly¹⁸, Shona Dalal¹⁹, Linda O. Eckert²⁰, Nancy Santesso²¹, Nathalie Broutet²² & Karen Canfell²³

nature medicine

Article <https://doi.org/10.1038/s41591-023-02601-3>

Benefits and harms of cervical screening, triage and treatment strategies in women living with HIV

Received: 22 December 2022
Accepted: 20 September 2023
Published online: 12 December 2023
Check for updates

Michaela T. Hall^{4*}, Kate T. Simms^{1,2*}, John M. Murray², Adam Keane¹, Diep T.N. Nguyen¹, Michael Caruana³, Gigi Lui⁵, Helen Kelly¹⁸, Linda O. Eckert⁴, Nancy Santesso²¹, Silvia de Sanjose¹⁶, Edwin E. Swai¹, Ajay Rangaraj¹, Morkor Newman Owiredu¹, Cindy Gauvreau^{10,11}, Owen Demke⁸, Partha Basu¹⁰, Marc Arbyn^{10,9}, Shona Dalal¹⁹, Nathalie Broutet²² & Karen Canfell²³



WHO guideline for screening and treatment of cervical pre-cancer lesions for cervical cancer prevention, 2nd edition: <https://www.who.int/publications/i/item/9789240030824>

Australia is on track to eliminate cervical cancer by 2035



On November 17th 2023, Australia launched a national plan, vision & ten strategic priorities to eliminate cervical cancer by 2035...

This plan has equity at the core


Australian Centre
for the Prevention of
Cervical Cancer

NATIONAL STRATEGY FOR THE ELIMINATION OF CERVICAL CANCER IN AUSTRALIA

A pathway to achieve equitable elimination of cervical cancer as a public health problem by 2035

November 2023



<https://www.health.gov.au/resources/publications/national-strategy-for-the-elimination-of-cervical-cancer-in-australia?language=en>

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Eliminating Cervical Cancer in the Western Pacific (ECCWP)

COLLABORATIVE CERVICAL CANCER PROGRAM ESTABLISHED IN THE WESTERN PACIFIC THROUGH LANDMARK INVESTMENT

The new program aims to deliver life-saving impacts in Papua New Guinea and Vanuatu.



ECCWP Vanuatu - screening hubs in Port Vila (09/22), Luganville (02/23)



Outreach in Sanma, Malampa Provinces



Eliminate Cervical Cancer in Vanuatu Launch (10/23)

MINISTRY OF HEALTH
GOVERNMENT OF VANUATU



CERVICAL CANCER SCREENING CLINIC

Monday To Friday
Time: 8am To 3pm
Phone: 7789381/5007886

- Sapos yu kat 30-54 yia, kam visitim Clinic
- Tes hemi FRI mo yu karem resal mo tritme sem dei



HPV screen and treat program in Tuvalu

- Tuvalu has become the first country in the Pacific to achieve the 70% screening target
- 76% eligible women between 30-49 years have received HPV screening
- MOH first dose vaccination rate >79%



Elimination Partnership in the Indo-Pacific for Cervical Cancer (EPICCC)

- Australian Department of Foreign Affairs and Trade 5-Year Initiative under the Partnerships for a Healthy Region scheme.
- Supporting cervical cancer elimination in the region and improved, sustainable health outcomes and equity to meet the needs of partner countries.



EPICCC is supported by the Australian Government through the Partnerships for a Healthy Region initiative

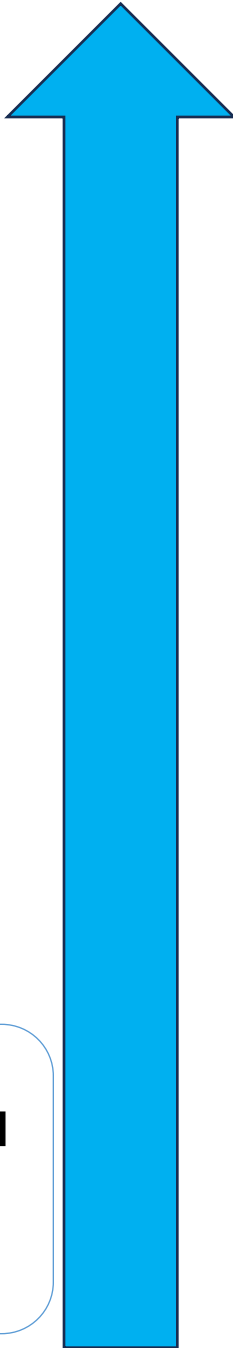
Sustainable 4-tiered EPICCC approach: partner countries placed on the path towards elimination

Tier-1
**Support establishment of national sustained
elimination programs**
Vanuatu, Tuvalu, Nauru

Tier-2
**Sub-national expansion of current programs to
support national readiness**
PNG (New Ireland Province), Malaysia (Sarawak), Fiji

Tier-3
**Implementation of demonstration programs for
future scale-up to advance co-design, policy
development, and strategic planning**
Timor-Leste, Solomon Islands

Tier-4
**Advancement of co-design, policy development, and
strategic planning to support readiness for future
implementation**
Any Indo-Pacific country potentially in scope



EPICC in the Indo-Pacific



EPICC has a core structure of six complementary Priority Areas of Work, designed to provide support across all WHO elimination pillars

Gender equity, disability and social inclusion (GEDSI) at the core of all activities





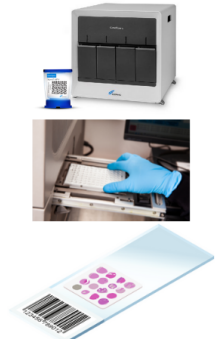
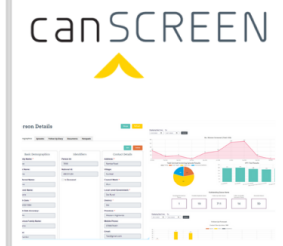


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Sustainable Tiered Approach

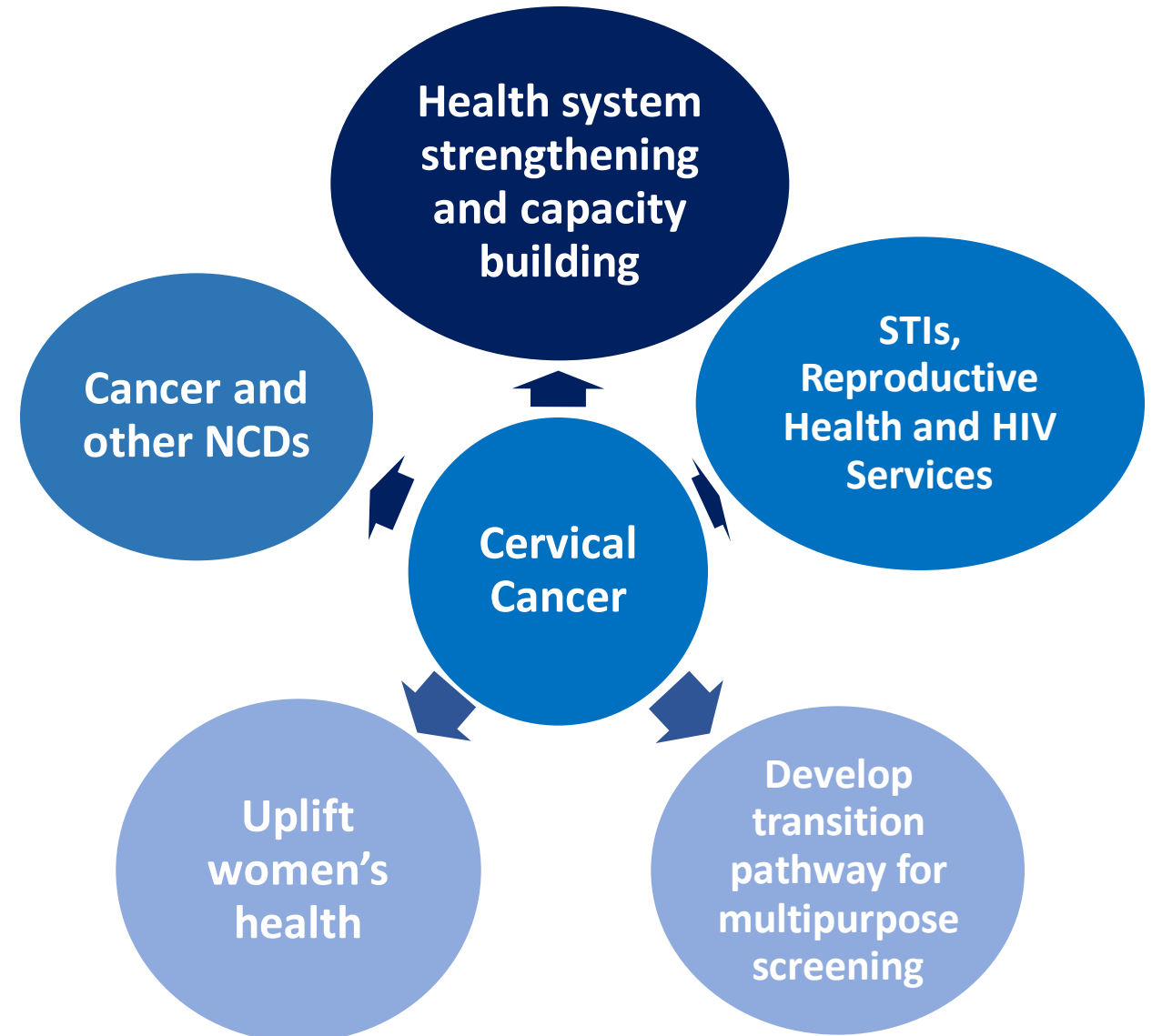
EPICC sets out a four-tiered country approach to identifying and meeting policy objectives essential to the development of sustainable cervical cancer control programs. Partner countries (Papua New Guinea, Malaysia, Timor-Leste, Solomon Islands, Vanuatu, Tuvalu, Fiji and Nauru) are tiered according to readiness, gaps and priorities in relation to end-of-program outcomes

TIER 4	TIER 3	TIER 2	TIER 1
Advance co-design, policy development, and strategic planning to support readiness for future implementation	Implementation of demonstration programs for future scale-up to advance co-design, policy development, and strategic planning	Sub-national expansion of current programs to support national readiness	Support establishment of national sustained elimination programs
Any Indo-Pacific country potentially in scope	Countries in scope: Timor-Leste and Solomon Islands	Countries in scope: Malaysia, Fiji and Papua New Guinea	Countries in scope: Tuvalu, Vanuatu and Nauru

PRIORITY AREAS OF WORK

<p>1</p> <p>Strengthening primary prevention through HPV vaccination support</p> 	<p>2</p> <p>Secondary prevention of cervical cancer through HPV screening and treatment for precancer</p> 	<p>3</p> <p>Laboratory strengthening for cervical cancer screening and early treatment</p> 	<p>4</p> <p>canSCREEN™ Digital Health Registry - data for decision making and strengthened models of care</p> 	<p>5</p> <p>Supporting cervical cancer management (treatment and palliative care)</p> 	<p>6</p> <p>Policy and modelling support across all pillars of cervical cancer elimination pathway</p> 
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Broader impact and basis for uplifting women's health in the Pacific



We acknowledge and thank the PIC leaders who are leading this critical agenda, and the women, families and communities impacted by cervical cancer.

"As a single mother, I am very grateful that I get to find out earlier so that I can get treatment in time and I can spend time with kids; see them grow in the future as some of them are still really small."

Floriana, Port Villa, Vanuatu

(Photo credit, Kirby Institute, UNSW, Oct 2023)

