

Interventions to overcome barriers in the cancer screening pathway

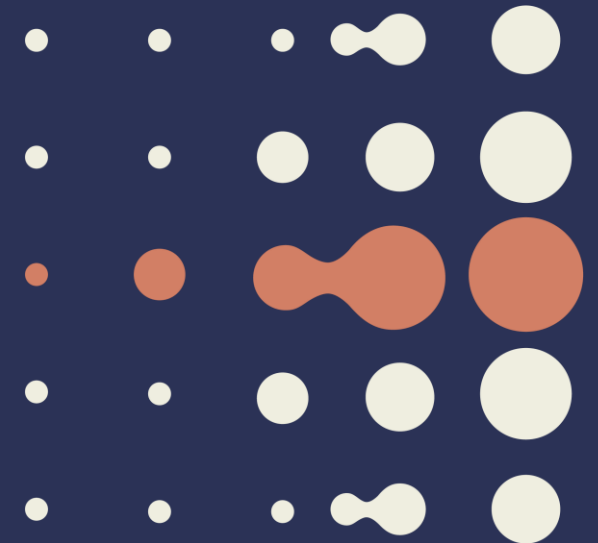
Development of a tool and its application to 23 countries in Latin America and the Caribbean (CanScreen5/CELAC project)

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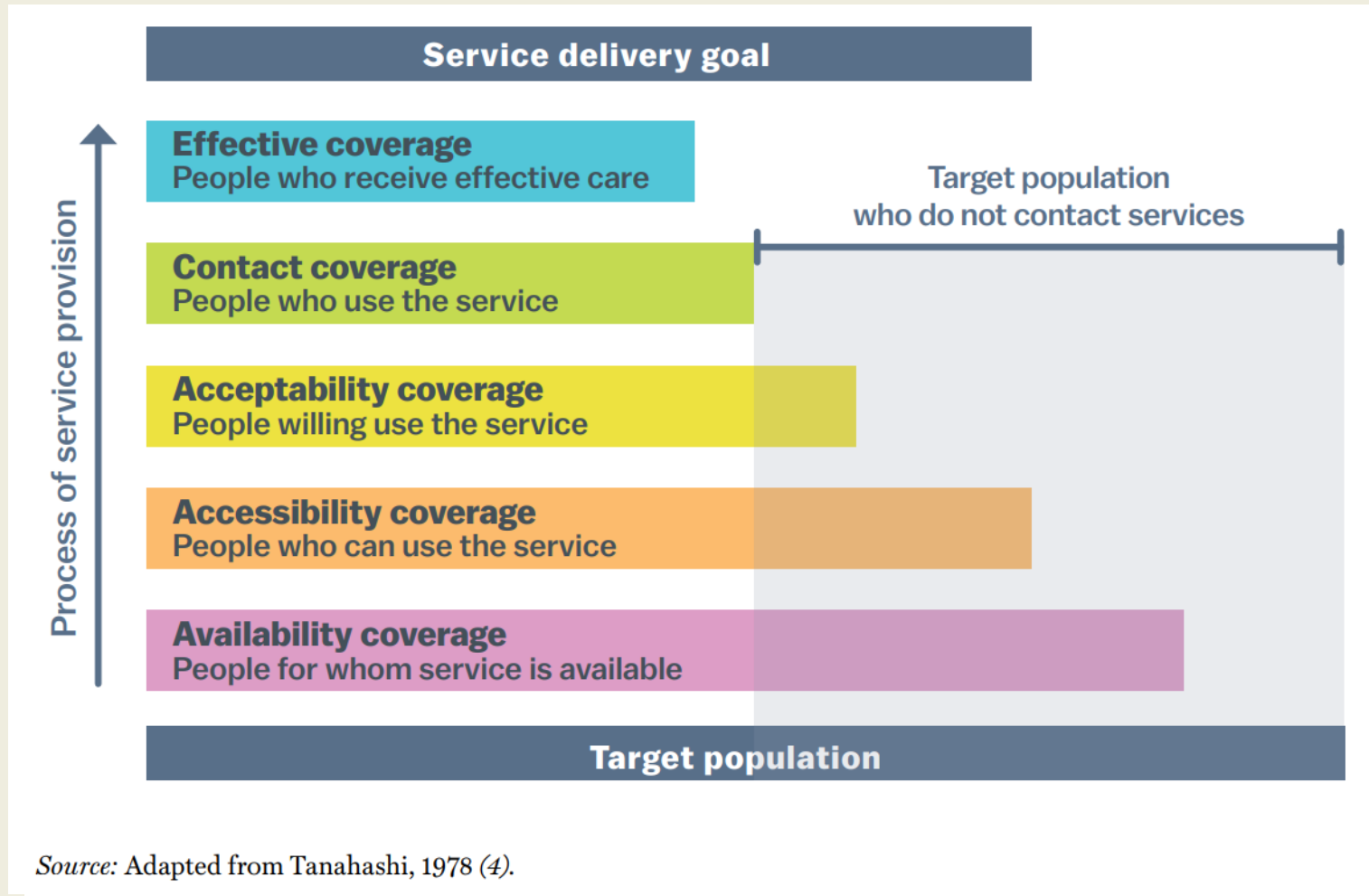
Objectives

Develop a tool to:

- Identify the main **barriers** to the cancer screening pathway
- **Match** each barrier with (evidence-based) interventions to overcome them
- **Pilot application** to the 23 Latin American and Caribbean countries

Tanahashi conceptual framework

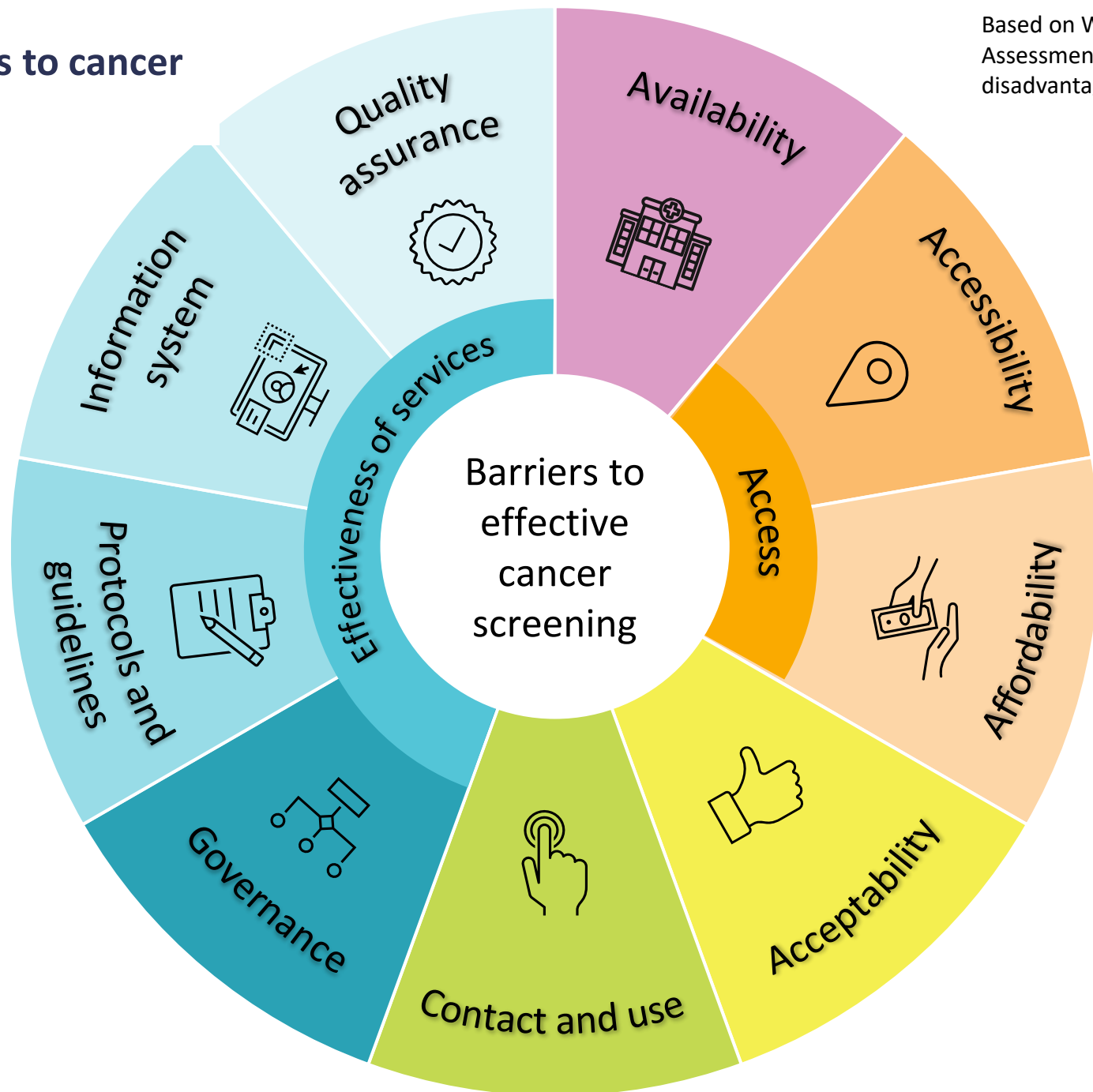
illustrating how different dimensions of coverage are necessary to achieve effective service delivery



Source: Adapted from Tanahashi, 1978 (4).

Framework of barriers to cancer screening pathway

Based on WHO Regional Office for Africa, 2019:
Assessment of barriers to accessing health services for disadvantaged adolescents in Nigeria



Courtesy of Hannah Theriault



Barriers to availability of services:

- Insufficient **infrastructure and/or financial resources** for screening (priority for 16/23 countries from CELAC; 69.6%)
- Insufficient **human resources** for further assessment (5/23; 21.7%)



Barriers to acceptability of services:

- Low **health literacy or beliefs** leading to non-participation in screening (8/23; 34.8%)
- **Lack of trust** in the healthcare system for participating in screening (3/23; 13.0%)



Barriers to accessibility of services:

- **Distant** treatment centre (3/23; 13.0%)
- **Appointments** making screening attendance difficult (8/23; 34.8%)
- **Delays** for initiation of treatment (14/23; 60.9%)



Barriers to affordability of services:

- No financial coverage of **direct costs** for screening (6/23; 26.1%)
- Unaffordable **indirect costs** for treatment (8/23; 34.8%)



Poor governance as a barrier:

- No well-defined **organizing body/system** to ensure appropriate management of screen positives (12/23; 52.2%)
- Inadequate **planning/logistics** for screening (10/23; 43.5%)
- Issues with establishing **protocols, processes and legal frameworks** (5/23; 21.7%)
- **Data protection regulations** preventing access to contact information of the eligible population (5/23; 21.7%)

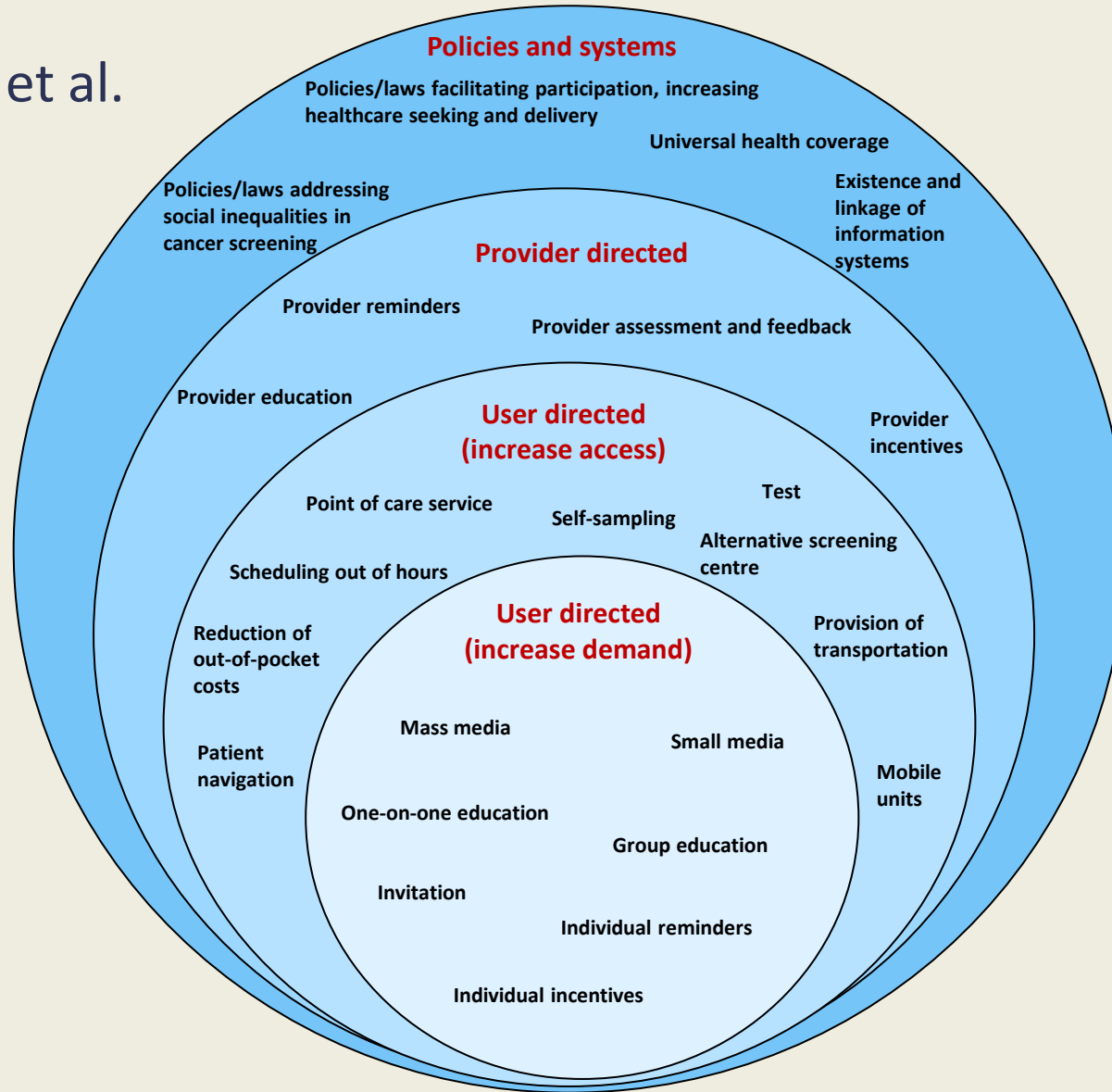


Inadequate quality assurance as a barrier:

- Screening providers not **following protocols** and procedures (8/23; 34.8%)
- Insufficient monitoring of the quality of **screening experiences** (9/23; 39.1%)
- Insufficient **monitoring and evaluation** of non-responders to follow-up (15/23; 65.2%)
- No systematic monitoring/evaluation of **treatment outcomes** (13/23; 56.5%)

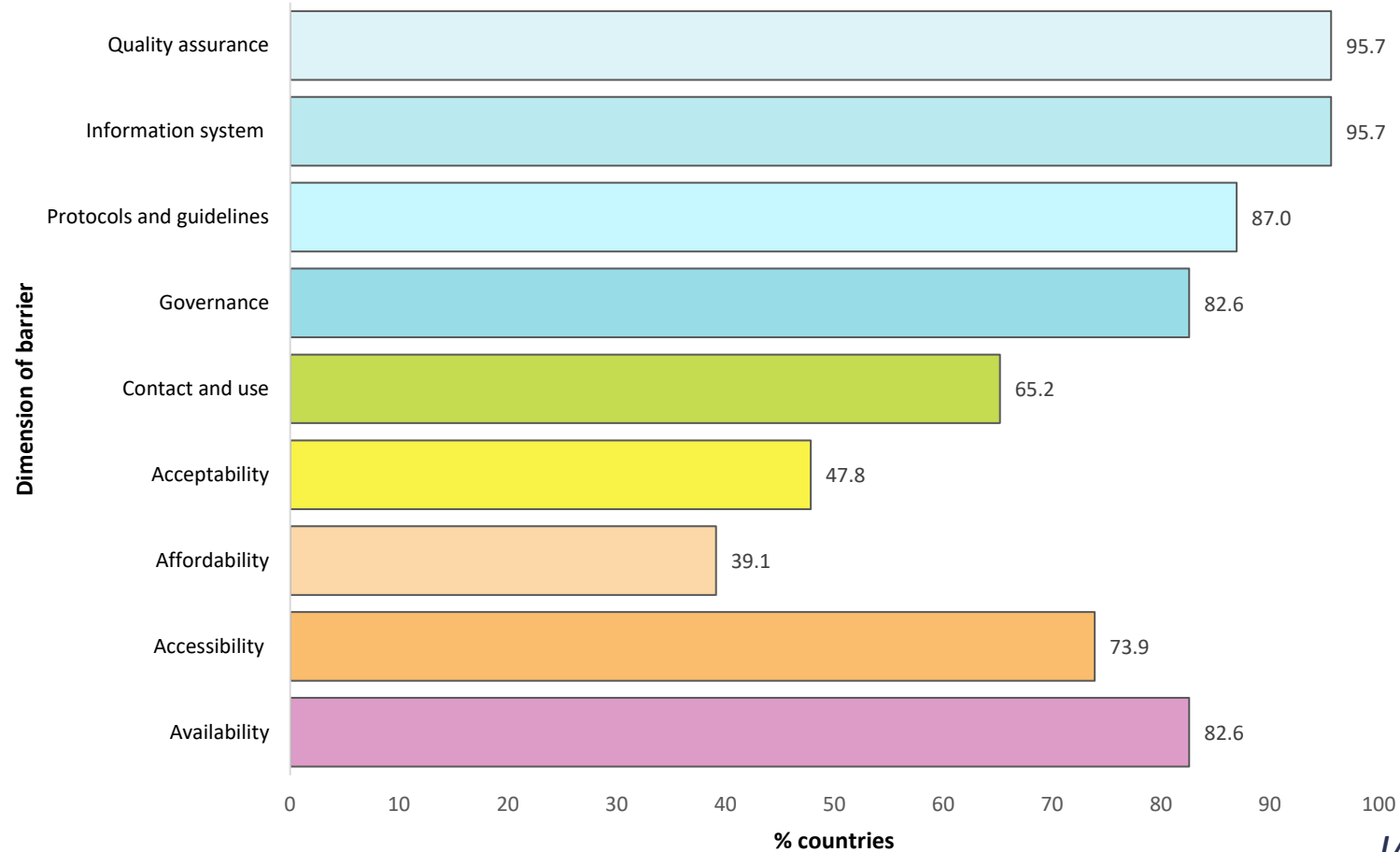
Classification of **interventions** to increase screening participation by target of intervention

Adapted from Baron et al.

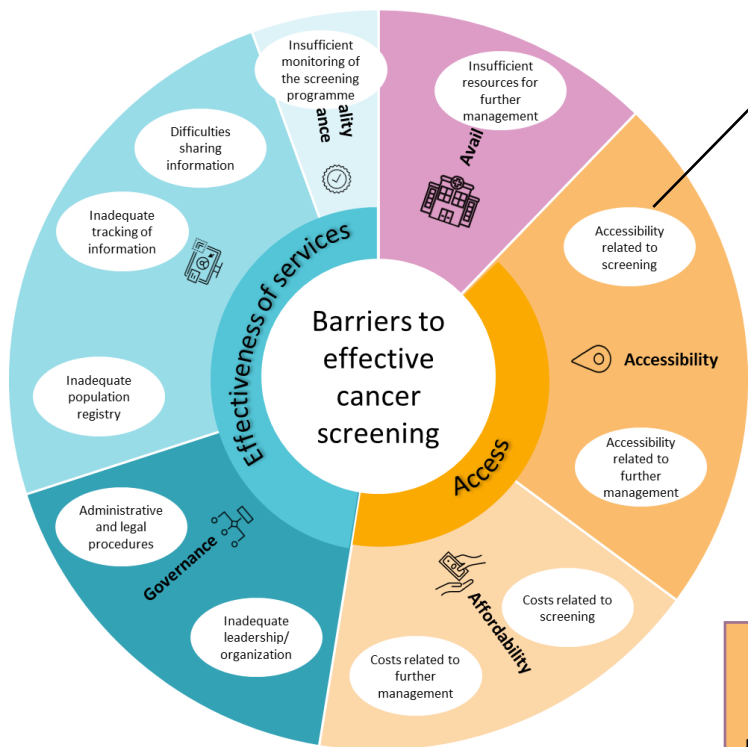


IARC unpublished data

Dimensions of prioritized barriers by representatives of MoH from 23 countries in Latin America and the Caribbean (CELAC) (% countries)



IARC unpublished data



The screening centre is far.	Breast	Cervical	Colorectal
<i>Evidence-based interventions</i>			
Mobile unit	✓	✓	✓
Patient navigation	✓	✓	✓
Self-sampling	NA	✓	✓
<i>Interventions within a multicomponent strategy</i>			
Provision of transportation	✓	✓	✓
<i>Limited evidence interventions</i>			

Mobile unit

Definition: Vehicle or other traveling clinic that is staffed by health workers and outfitted with equipment for cancer screening and/or further management of individuals with screen positive result.

Elements to consider: areas where it will intervene, frequency and information of target population of their presence and timetables in the area. Information can include direct invitation by mail, telephone or home visits, publicity (flyers, radio, car loudspeaker, newspapers), word of mouth, or physician referral.

Examples of countries where studies were conducted: Australia, Belgium, Brazil, Canada, France, Greece, India, Ireland, Italy, Korea, Mexico, Peru, Saudi Arabia, South Africa, Sweden, Taiwan, Thailand, United Kingdom, USA.

Useful link: [Greenwald ZR, El-Zein M, Bouten S, Ensha H, Vazquez FL, Franco EL. Mobile Screening Units for the Early Detection of Cancer: A Systematic Review. Cancer Epidemiol Biomarkers Prev. 2017 Dec;26\(12\):1679-1694. doi: 10.1158/1055-9965.EPI-17-0454. E](#)

Conclusions

Countries should conduct a **systematic assessment of barriers**, including their prioritization.



It would facilitate the **identification of (evidence-based) interventions** to overcome the barriers to improve screening programmes.



Governments and policymakers could make better **informed decisions**.

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