



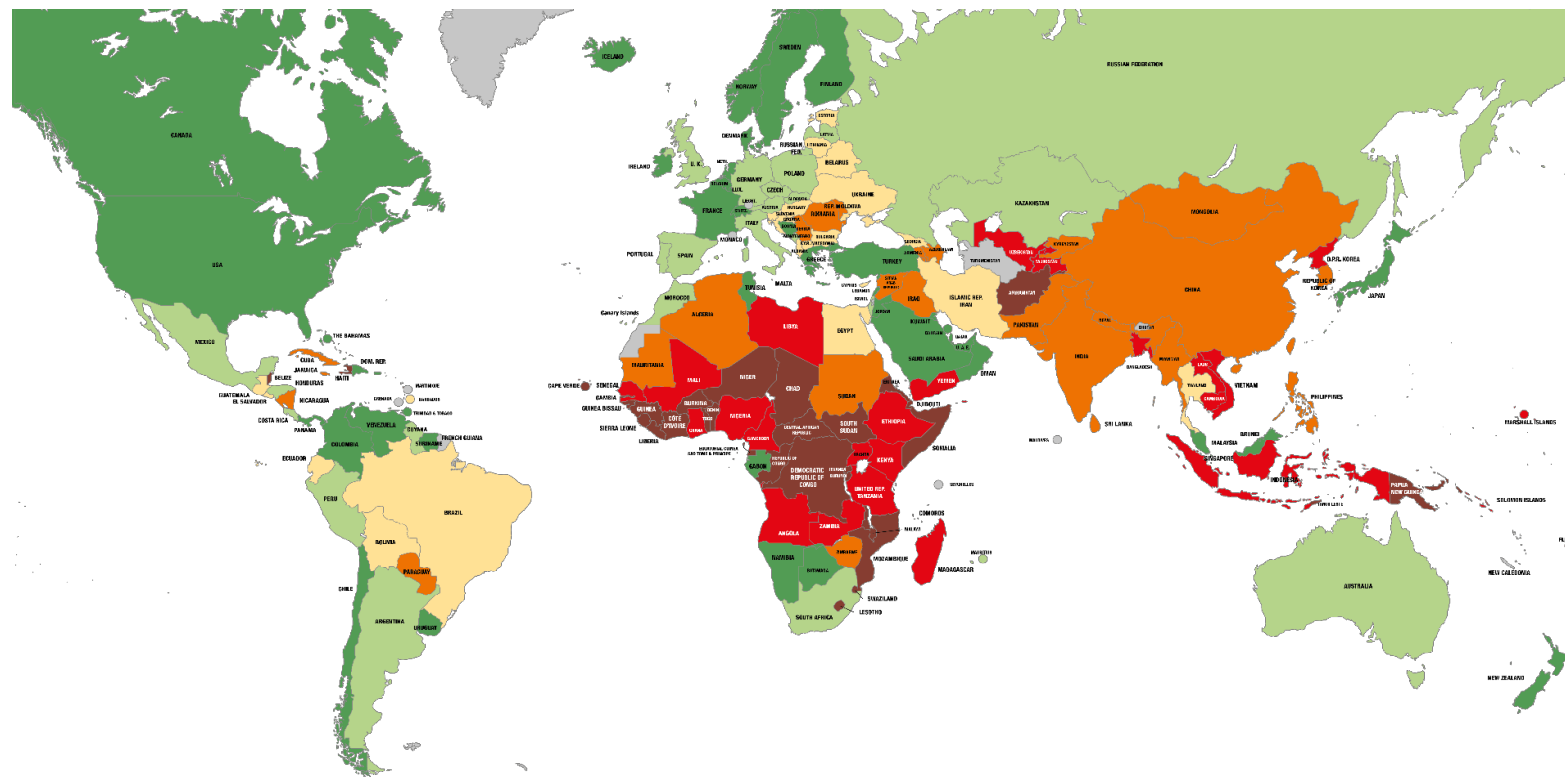
Rays of Hope
Cancer care for all

World-wide inequalities in access to radiation medicine: the IAEA Rays of Hope Initiative

**World Institute for Nuclear Security
24-25 October 2023**

**Lisa Stevens, PhD
Director, Programme of Action for Cancer Therapy (PACT)
International Atomic Energy Agency**

Global inequity in access to cancer care

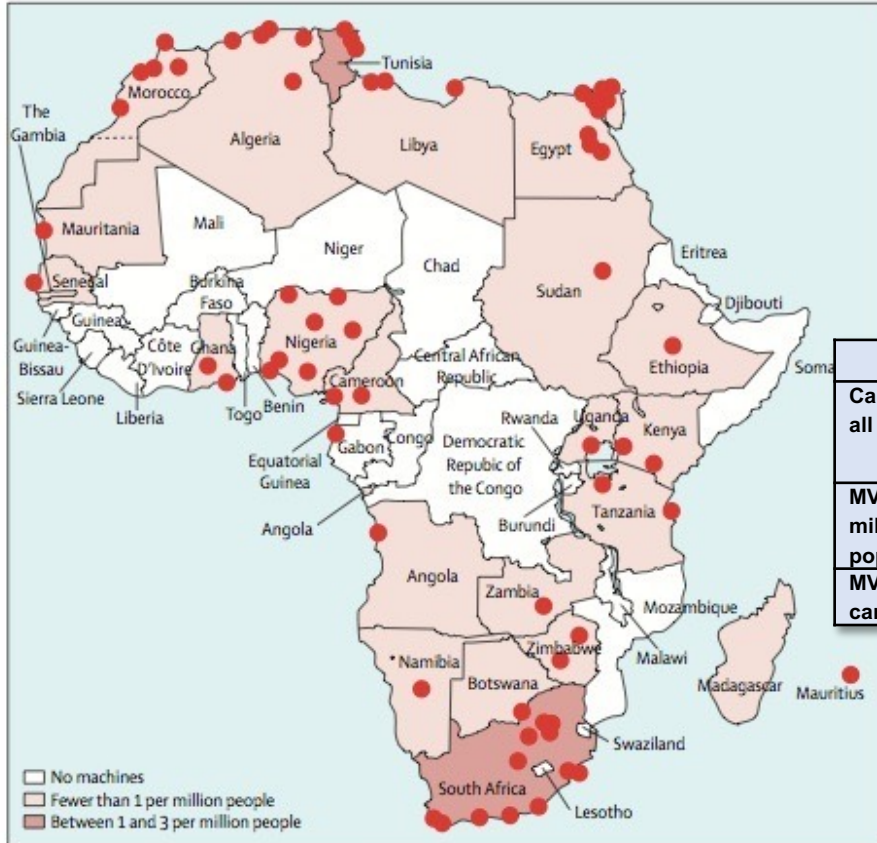


Estimated shortfall of over 5,600 radiotherapy machines in LMICs

Source: IARC GLOBOCAN, Estimated number of new cases from 2020 to 2040, Both sexes, age [0-85+]

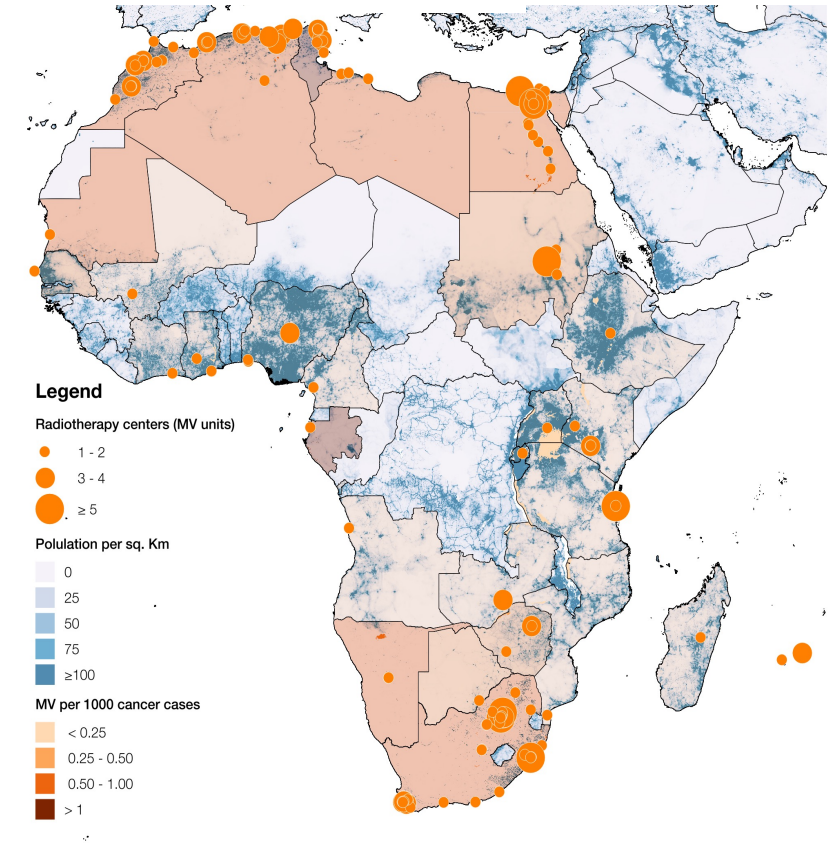
No Country left behind: Challenge of Limited Access

2010



Lancet Oncology, 2013;14:168-75

2020

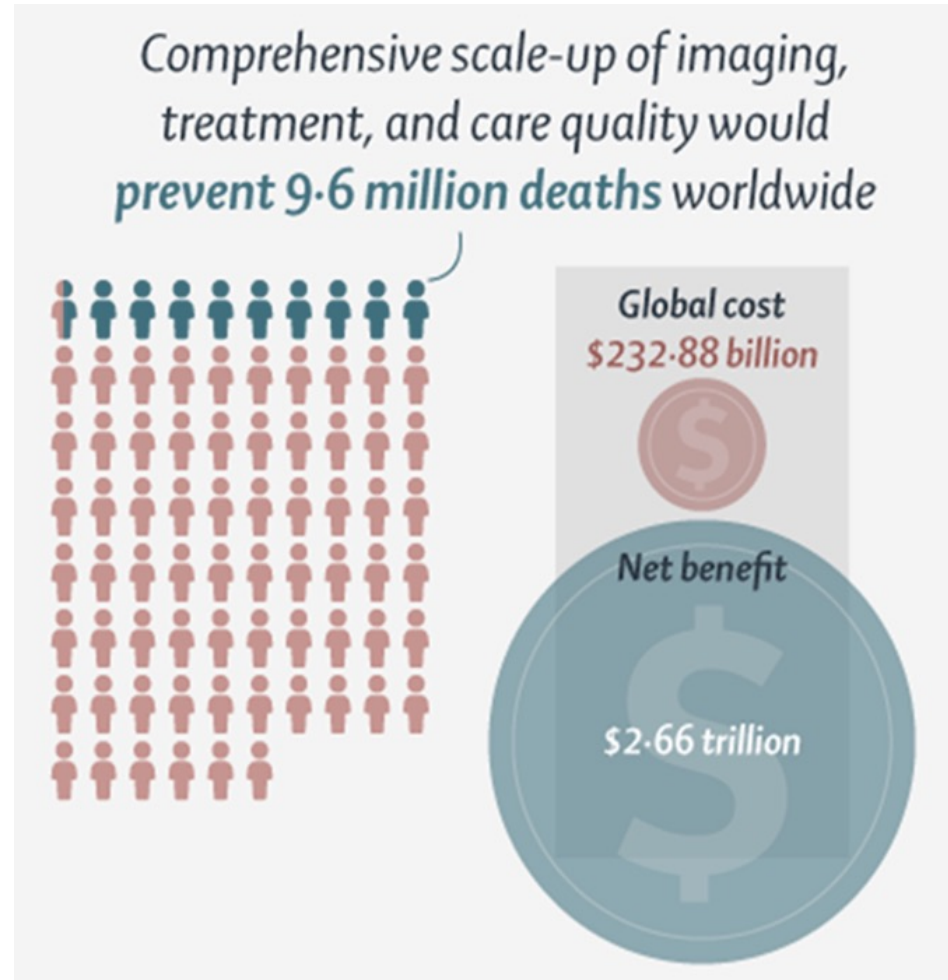
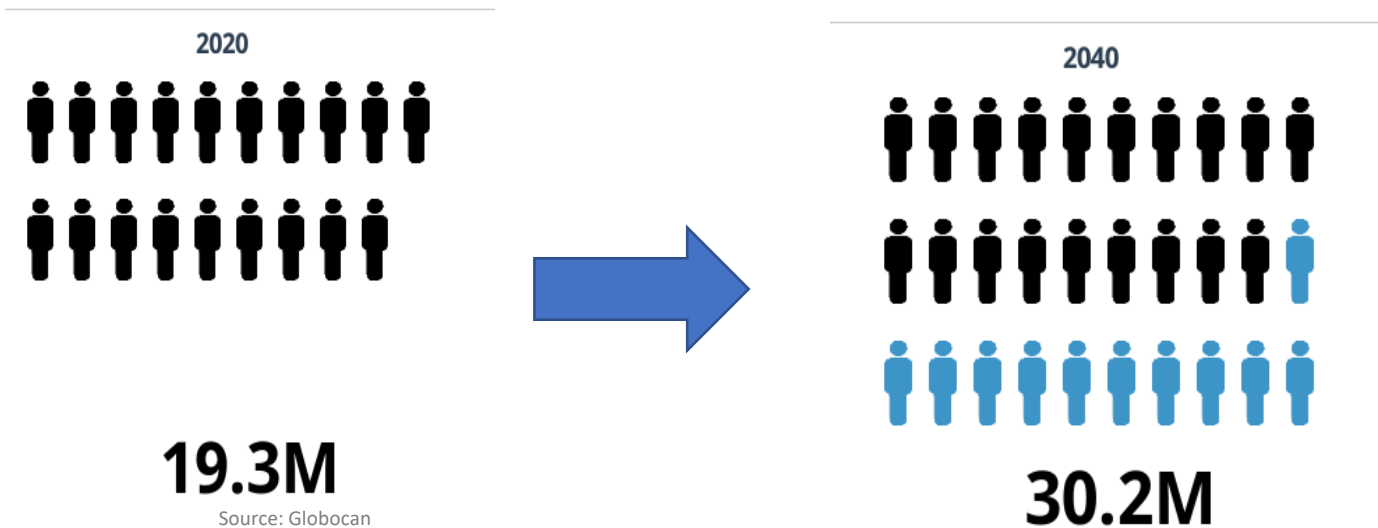


Lancet Oncology, 2021: 22: e391-99

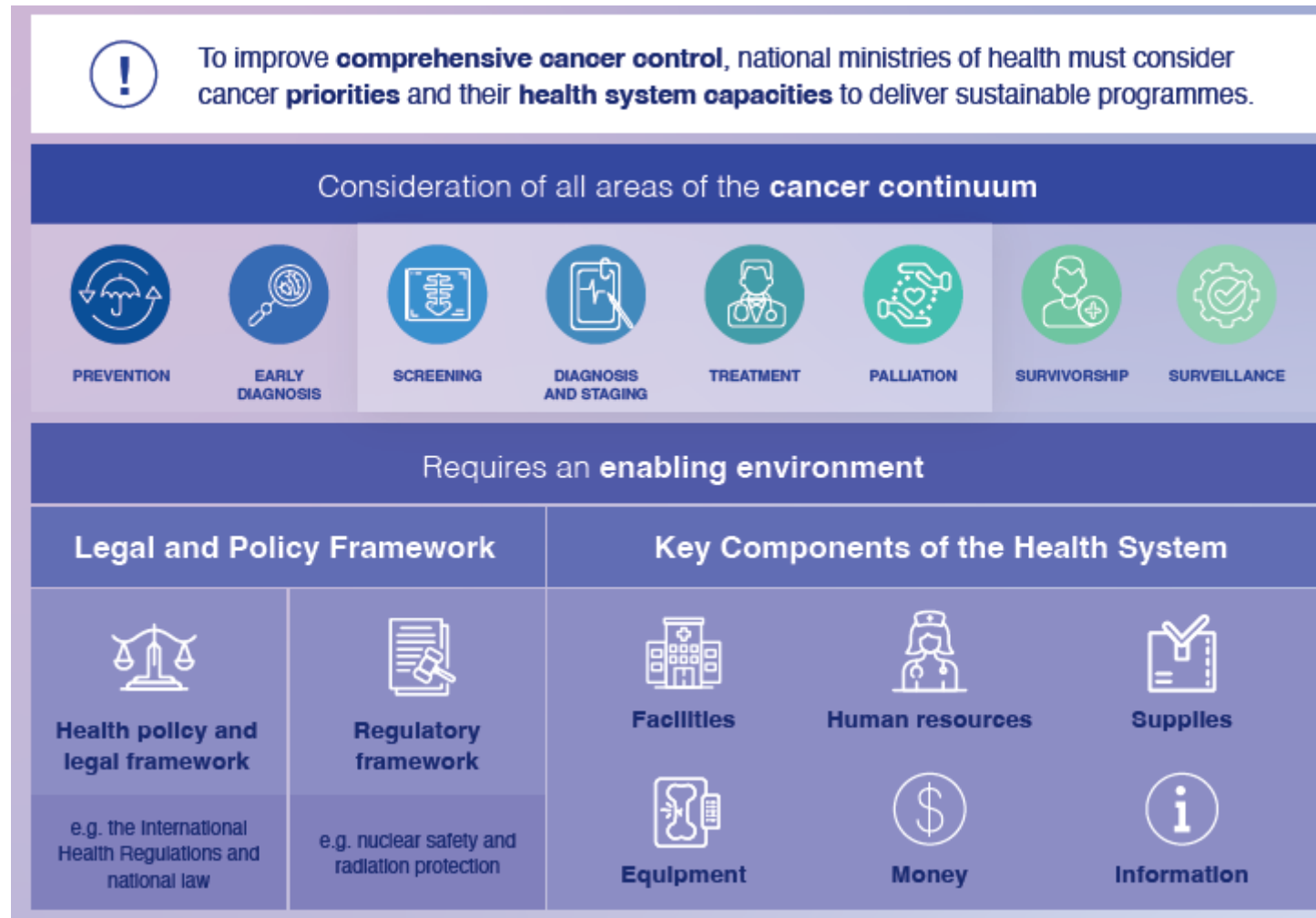
	2012	2018	2020	Variation*
Cancer cases, all sites	844279	1055172	1122495	+32%
MV units/million population	0.26	0.28	NA	+12%
MV units/1000 cancer cases	0.34	0.32	0.35	+3%



Rising Cancer Incidence



Action across the cancer continuum



imPACT Review: Sri Lanka



“The imPACT Review has been the trigger to develop our new National Cancer Control Programme and to initiate the development of the strategic plans for childhood cancer and radiotherapy services.”

Dr Janaki Vidanapathirana, Director, National Cancer Control Programme, Ministry of Health, Sri Lanka



#CancerCareForAll



IAEA
International Atomic Energy Agency

Launching first radiotherapy services: Niger

“The IAEA has joined Niger at every step of its journey towards the establishment of its first radiotherapy centre. Now, we are ready to conduct radiotherapy here in Niger.”

Idi Mainassara

Minister of Public Health and Social Affairs



Rays of Hope Initiative

Outcome:

Improved access to radiotherapy, nuclear medicine and diagnostic imaging for optimal cancer management by 2025
(Baseline: 2020)

Linkages with:



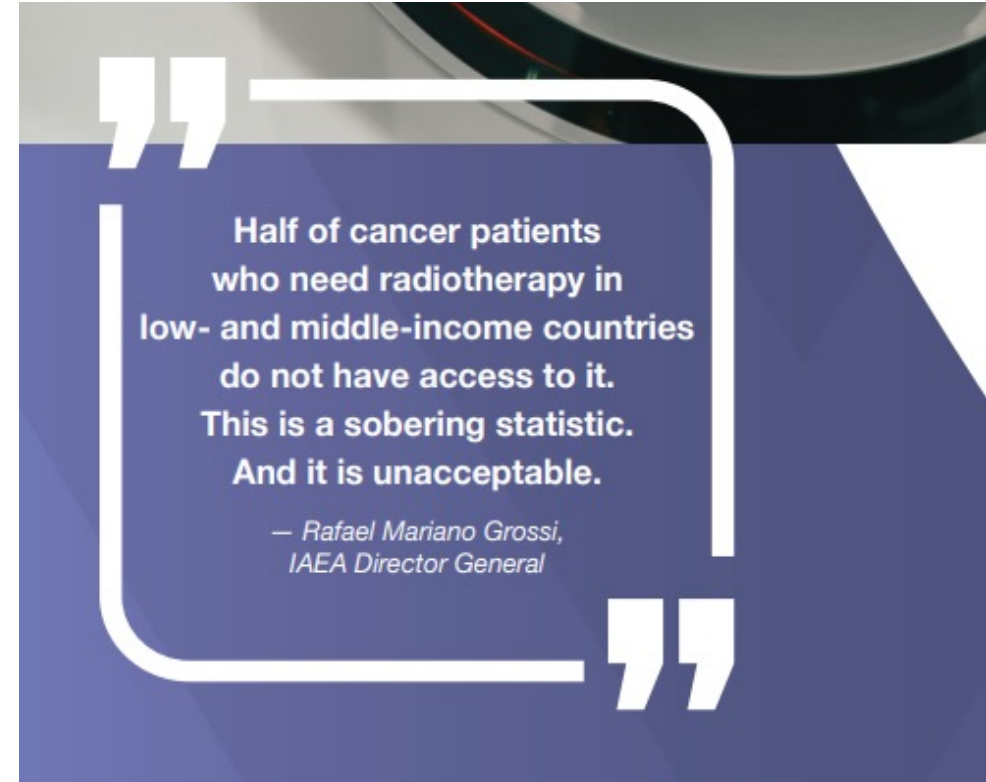
WHO CERVICAL
CANCER ELIMINATION



WHO BREAST CANCER
INITIATIVE



WHO CHILDHOOD
CANCER INITIATIVE



Rays of Hope: the IAEA's comprehensive approach

- Technical assessments and economic evaluations;
- Capacity building – technology transfer and training;
- Support for radiation safety and security;
- Quality assurance services and missions;
- Innovation through R&D;
- Partnerships, resource mobilization & innovative financing;
- Regional Anchor Centres;

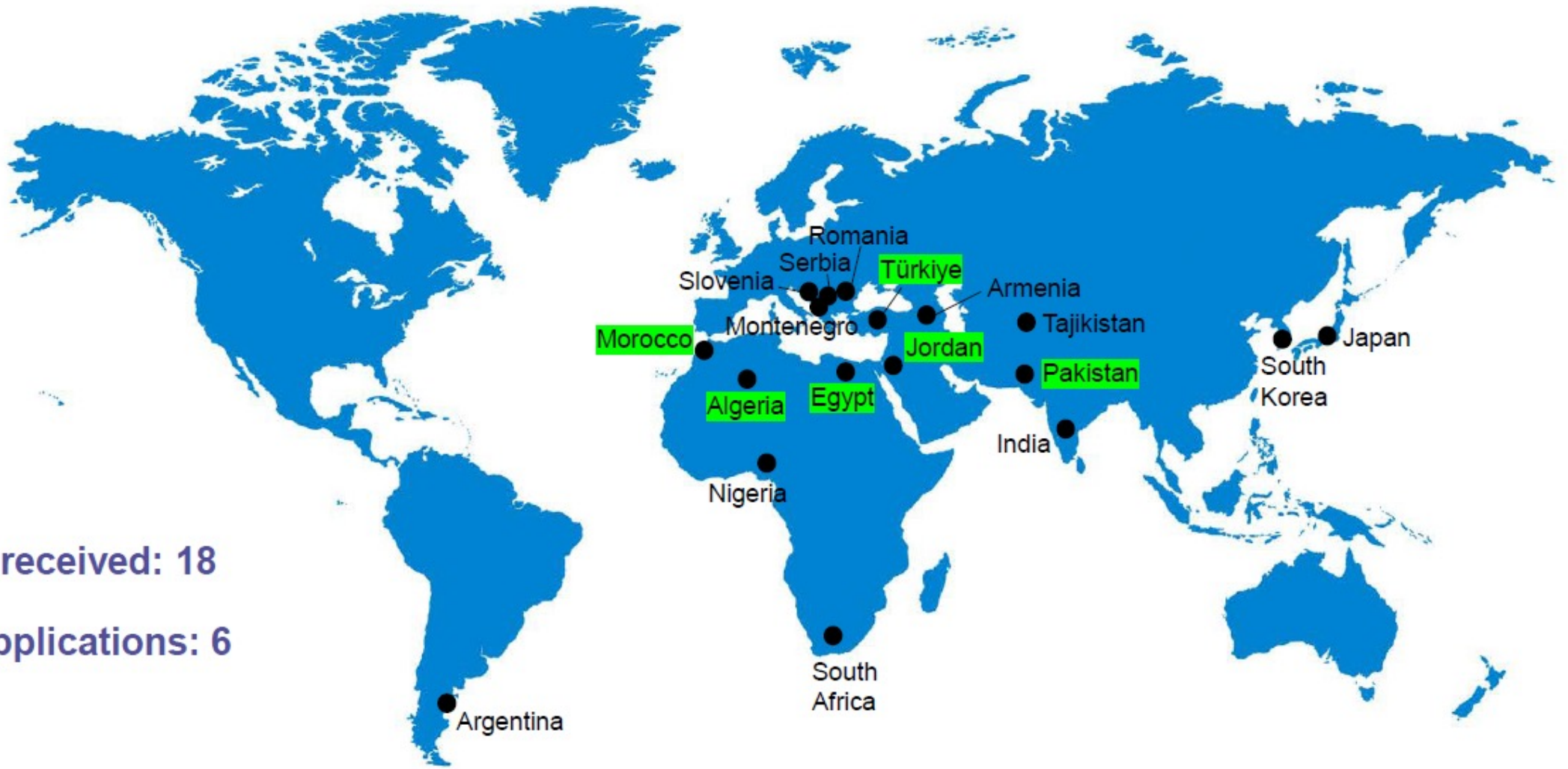


[Rays of Hope](#)

Regional Anchor Centres

- Advanced clinical services
- Education and training
- Continuous professional development
- Quality assurance
- Innovation





Applications received: 18

Completed applications: 6

Image by rawpixel.com on Freepik

Safety and security perspectives of Rays of Hope

To review and support at the country level

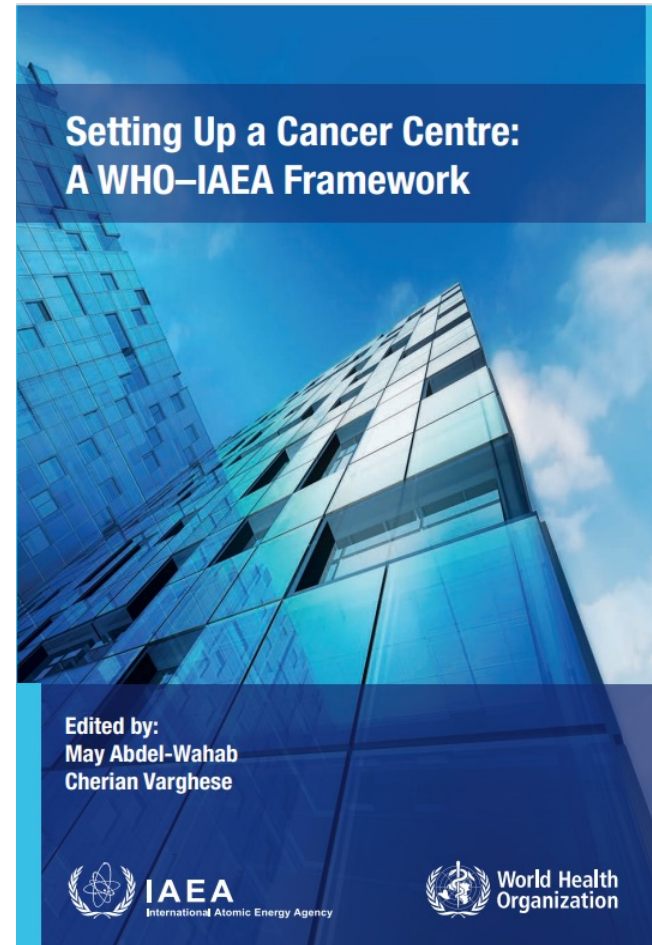
- Regulatory infrastructure for radiation safety
- Radiation protection and safety of workers
- Radiation protection and safety of patients
- Security of radioactive sources

Support, on a need-basis and upon request, through:

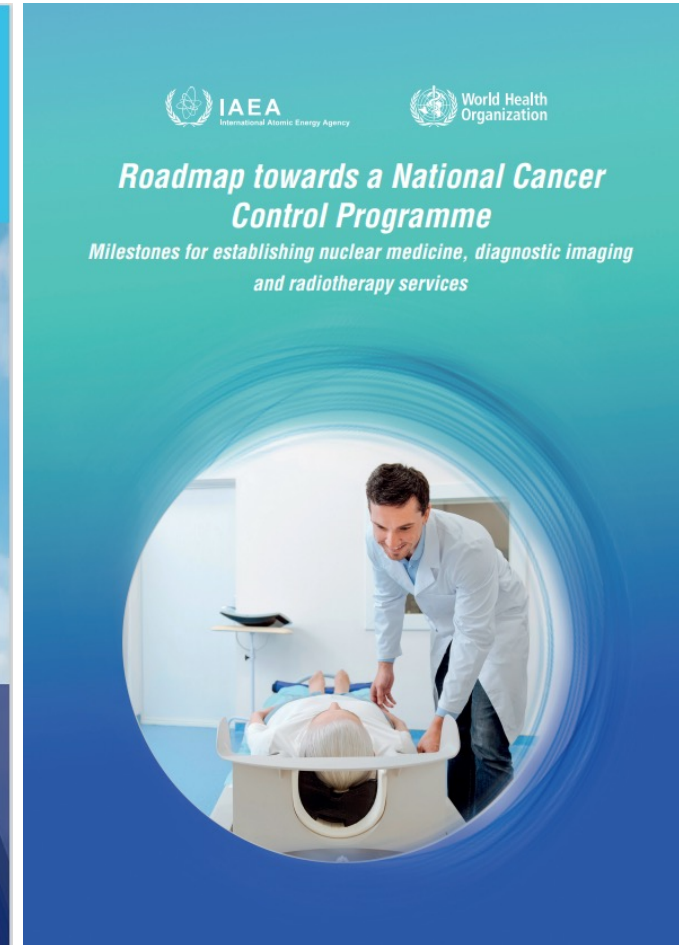
- Radiation safety and nuclear security equipment and capacity building

Rays of Hope in a Nutshell

- A concerted, holistic, and comprehensive approach
- Integration of the breadth of IAEA experience for successful implementation
- Linkages to national cancer control efforts



[Setting Up a Cancer Centre: A WHO-IAEA Framework | IAEA](#)



[milestones-document-2019.pdf \(iaea.org\)](#)

Sustainable Dialogue on Peaceful Uses

Workshop Series on Improving Access to Radiation Medicine in West Africa

- U.S. Department of State's office of Multilateral and Nuclear Security Affairs
- UK Department for Energy Security and Net Zero
- Ghanaian Ministry of Health
- International Atomic Energy Agency

Follow up activities to improve outcomes in:



- Equipment maintenance and sustainability
- Patients' workflow in hospitals
- Education and outreach



Rays of Hope

Cancer care for all

Thank you!



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PACT@iaea.org



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