

# **Session V: The Programme of Action for Cancer Therapy - PACT**

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**IAEA**

International Atomic Energy Agency

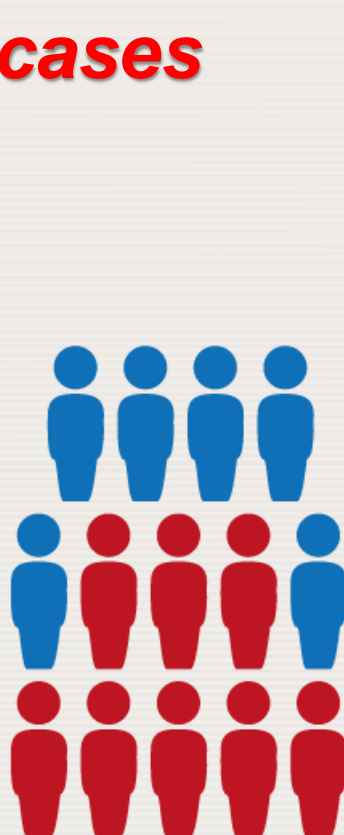
# Cancer: A growing global health & development issue

## New cancer cases

**Total:**  
14.1m new cases  
of cancer globally  
per year

8m in low and  
middle income  
countries

**57%**

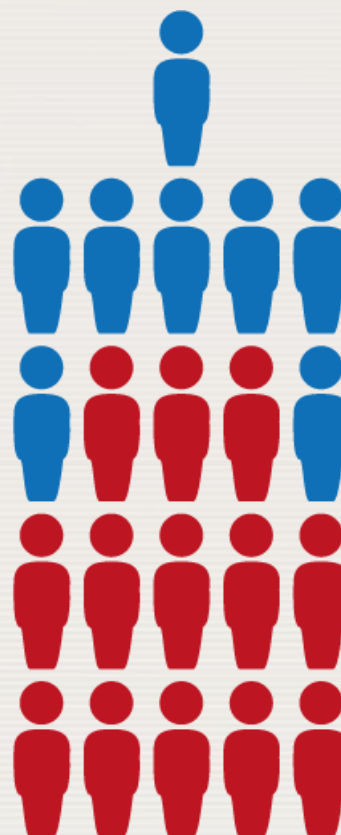


**2012**

**Total:**  
21.6m new cases  
of cancer globally  
per year

13m in low and  
middle income  
countries

**60%**



**2030**

# Cancer: A growing global health & development issue

## *Annual cancer deaths*

### Total:

8.2m cancer  
deaths globally  
per year

5.3m in low and  
middle income  
countries

**65%**



**2012**

### Total:

13m cancer  
deaths globally  
per year

9m in low and  
middle income  
countries

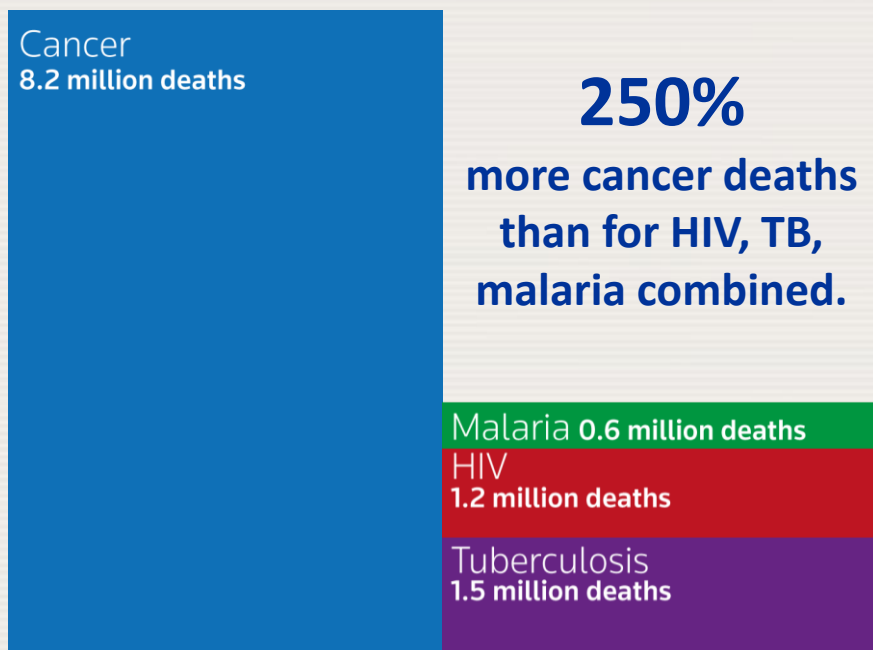
**69%**



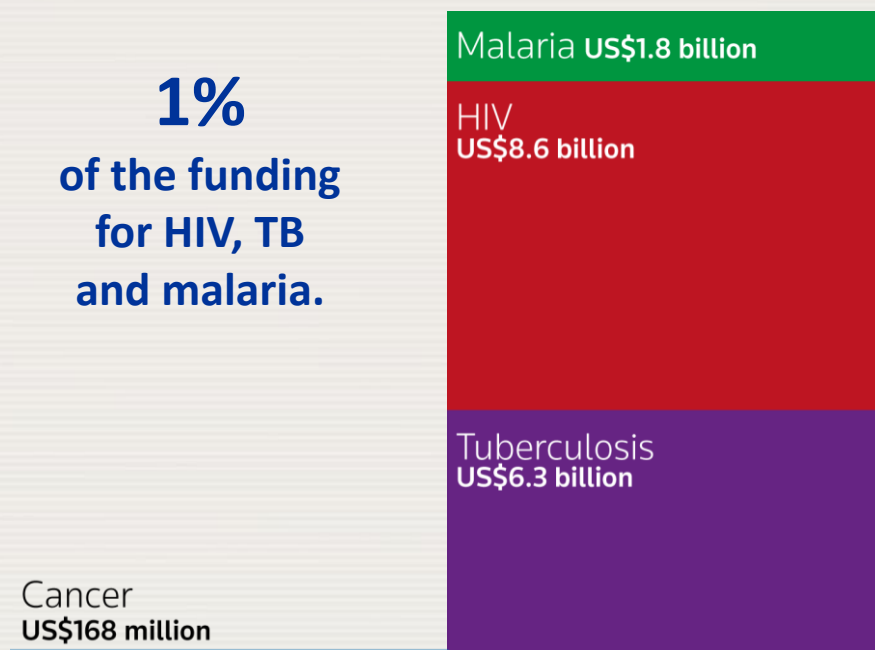
**2030**

# The cancer perspective compared to HIV, TB and malaria

## Annual deaths



## Annual funding



# A growing global health & development issue

**Cancer survival should not be left to chance.**



**Prostate Cancer**

AUSTRALIA



**89%**  
5 Year Survival Rate

UGANDA



**46%**  
5 Year Survival Rate

**Breast Cancer**

USA



**89%**  
5 Year Survival Rate

JORDAN



**43%**  
5 Year Survival Rate

**Childhood Leukemia**

GERMANY



**92%**  
5 Year Survival Rate

MONGOLIA



**34%**  
5 Year Survival Rate

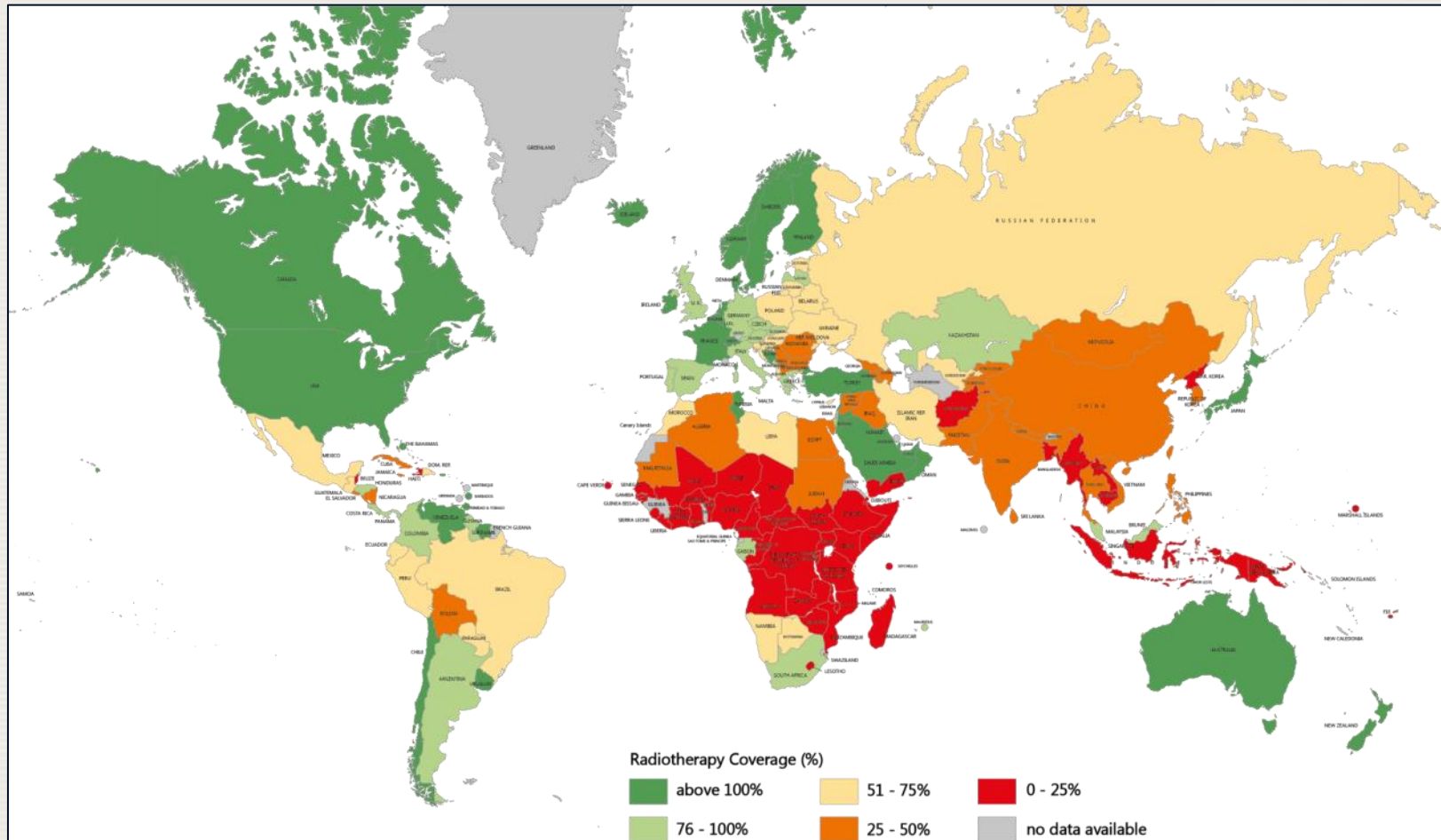
**Support expanded ACCESS to cancer care. Everywhe-**

**#CancerCare4All**

# Inequity in Access to Cancer Care

(Example of radiotherapy)

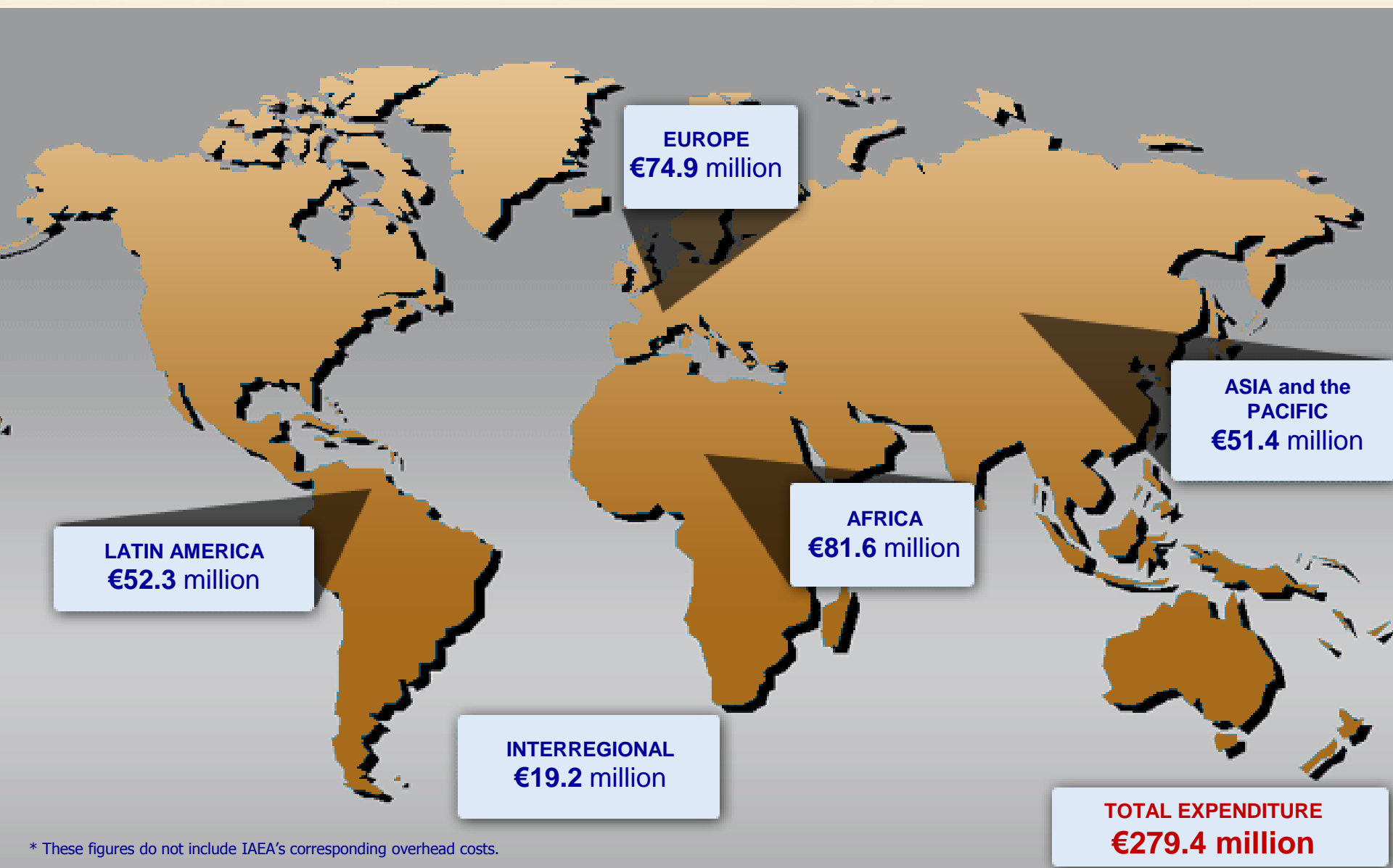
An estimated shortfall of over 5,000 radiotherapy machines in LMICs



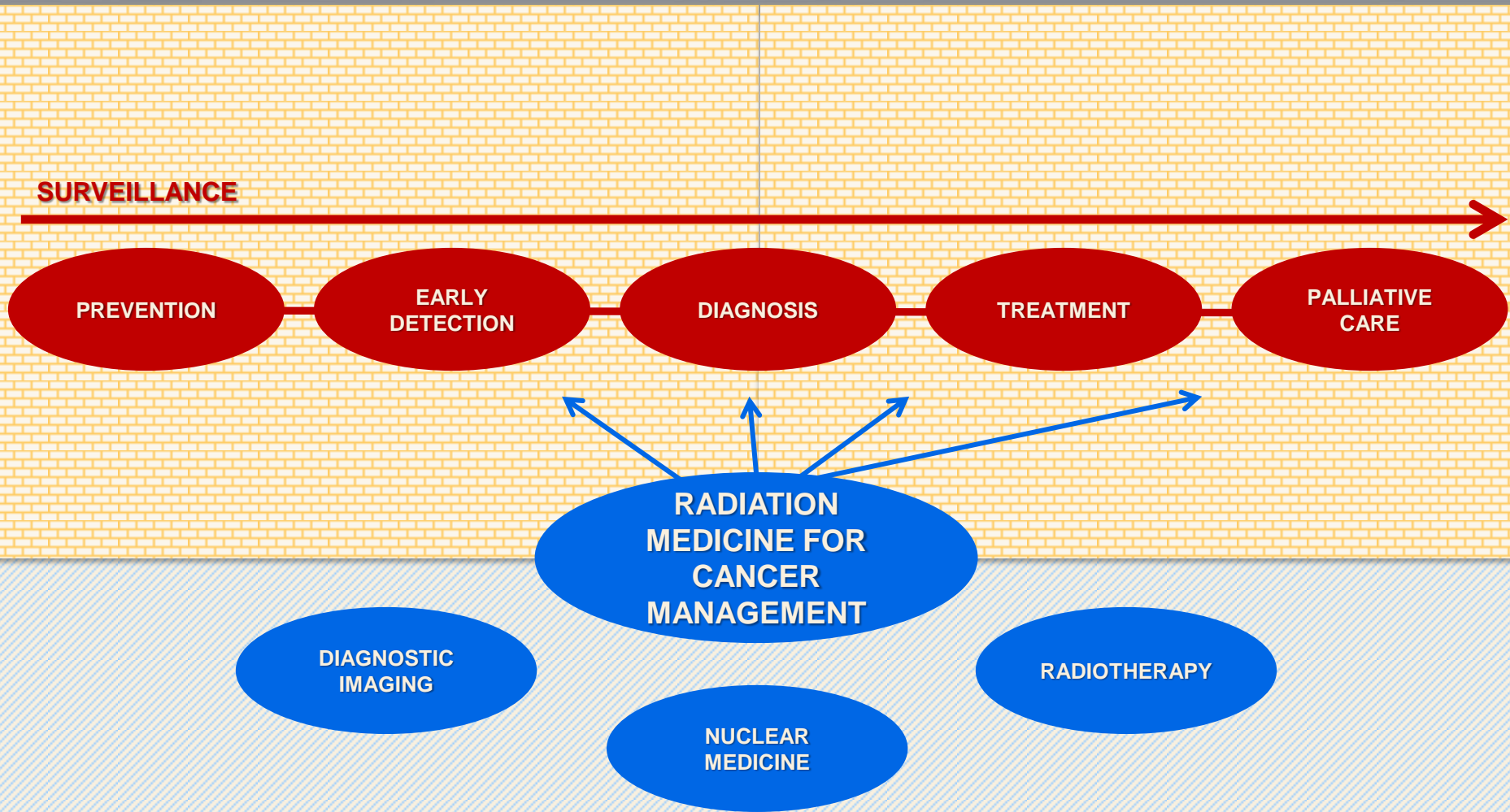


# IAEA Expenditure on Cancer-related Projects

(1983-2014)

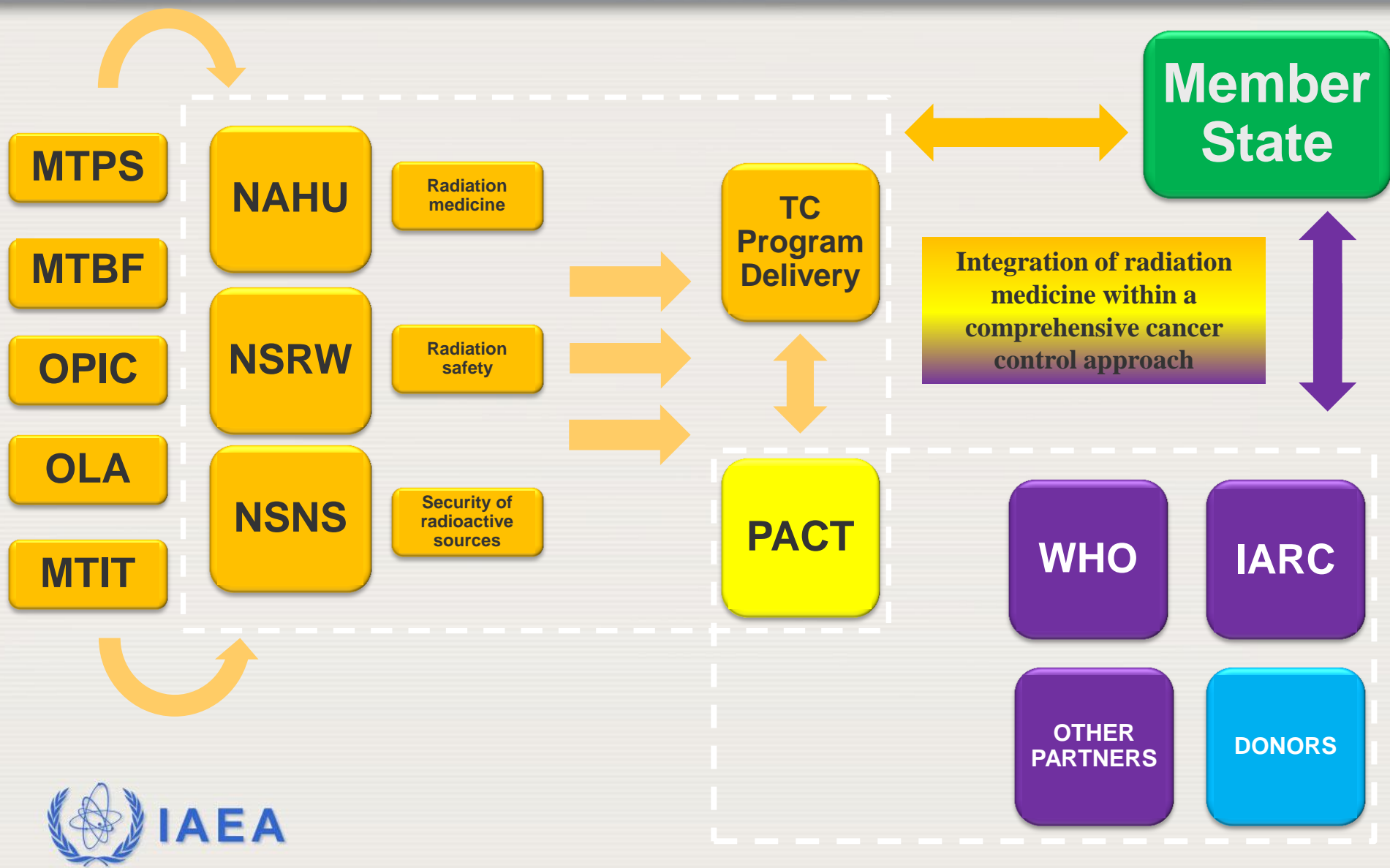


# The unique role of the IAEA





# IAEA-wide efforts in fight against cancer



# PACT's mandate

- Created to help **fight the growing cancer crisis** in the developing world.
- Building on **IAEA's 40 year experience** in supporting countries in applying nuclear technologies for health and prosperity.
- Improving patient survival through **promoting integration of radiotherapy technologies** within a comprehensive national cancer control programme.
- Building **strong strategic partnerships**, particularly with the World Health Organization, to promote **equitable, affordable access** to cancer care **for all cancer patients** in low and middle income countries.



# PACT's services

## imPACT review missions

- Assessment of Member States cancer control capacities, actionable recommendations to Ministries of Health, identification of projects for resource mobilization.
- 75 imPACT assessments conducted since 2005.

## PACT Model Demonstration Sites

- Projects in 8 countries (Ghana and Tanzania in Africa) for demonstrating effective cancer control planning and implementation.



# PACT's services

## Advisory Group on increasing Access to Radiotherapy Technology in LMI Countries (AGaRT)

- Fostering collaborative efforts to improve Access to radiotherapy from different perspectives:
  - technical, logistical, economical and health service delivery.

## Virtual University of Cancer Control

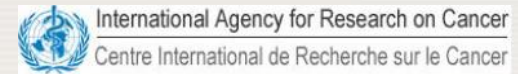
- An e-learning platform to bring contextualised, peer reviewed cancer control education to medical professionals in resource limited environments.
- Currently Ghana, Tanzania, Uganda and Zambia, mentored by South Africa and Egypt,
- Further expansion is being planned.



# PACT's services:

## Strategic Partnerships and Resource Mobilization

- Strong advocacy at key global fora and meetings for enhanced cancer control efforts in low-and middle income countries and the critical role of the IAEA in providing support to MS
- Partnership Agreements with key partner organizations:
  - Union for International Cancer Control
  - International Agency for Research on Cancer
  - United States Nuclear Infrastructure Council
  - African Organisation for Research and Training in Cancer
  - American Cancer Society
  - International Network for Cancer Treatment and Research
  - Korea Institute of Radiology and Medical Sciences
  - E-Cancer
- Resource mobilization for global advocacy and support to Member States



# PACT's role in Technical Cooperation programme delivery

- Integration of **imPACT findings and recommendations** into upcoming national TC planning processes (CPN, CPF) and UNDAFs.
- Development of **strategic partnerships** for the implementation at country level of cancer related TC projects.
- Spearheading **resource mobilization efforts** for cancer to address funding gaps in cancer-related TC projects and support Member States in comprehensive cancer control.





[cancer.iaea.org](https://cancer.iaea.org)

**#CancerCare4All**

