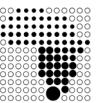


## City of Cape Town

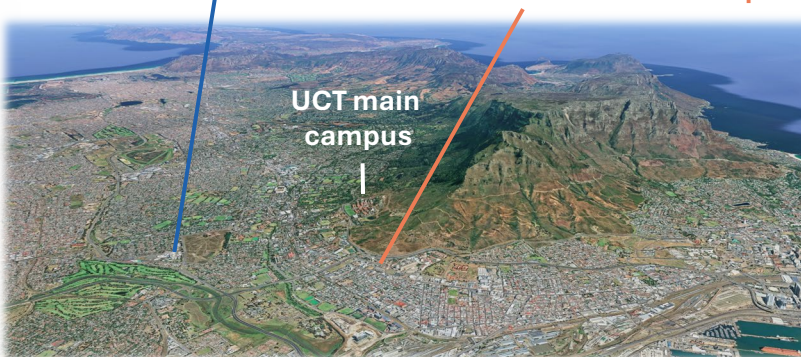
- Legislative capital and second largest city in South Africa.
- Population 5 million (2024).
- Iconic tourist destination for its beauty, biodiversity and vibrant atmosphere (9 million tourists in 2024).



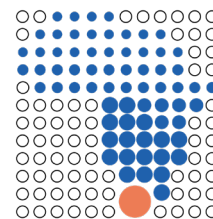
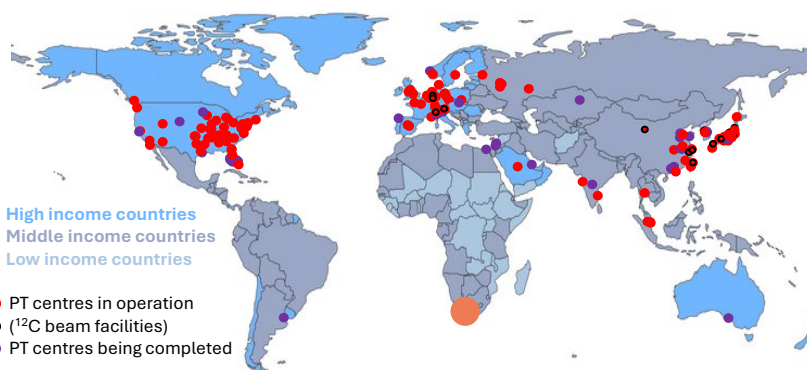
## University of Cape Town

- Ranked 1<sup>st</sup> in Africa and 167<sup>th</sup> globally [Times Higher Education (2024)].
- Ranked 78<sup>th</sup> globally for Medical & Health [Times Higher Education (2024)].
- 30000 students (40% postgraduate); 5000 staff.
- World-leading research programmes and strong history of innovation, including revolutionary medical and technological advancements, e.g. first human heart transplant (Barnard), CT (Cormack), and crystallographic electron microscopy (Klug).
- Two medical teaching hospitals:

**Red Cross War Memorial Children's Hospital** (paediatrics) and **Groote Schuur Hospital**.



UCT main campus



**UCT  
PROTON  
THERAPY  
INITIATIVE**

## Returning proton therapy to Southern Africa

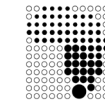
<https://protontherapy.uct.ac.za>

### Our vision

**Proton therapy facility with two treatment rooms**  
with a strong emphasis on paediatric care  
**with a secondary 30 MeV cyclotron facility (p, d,  $\alpha$ )**  
for radioisotope production and research

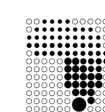
- Situated in Cape Town but for the entire Southern African region.
- Ecosystem of excellence for research and innovation at UCT.
- Strong public-private relationship for business model, and including a foundation to support paediatric treatment.
- State-of-the art in patient experience in Africa for Africa.
- Drawing strongly on the nexus of world-leading physics, radiation oncology and neuro-clinical specialties, and the local expertise and experience of iThemba LABS (523 patients treated between 1993 and 2017).

## South Africa



- Population 64 m (2025); 26% < 15 years; 11% > 60 years; proj. 22% increase by 2050; [UN World Population Prospects (2024)].
- GDP ~\$403 billion (2024); largest in Africa.
- Healthcare expenditure 8-9% of GDP.
- Dual healthcare system: 84% public sector and 16% private sector (medical insurance or direct payments).

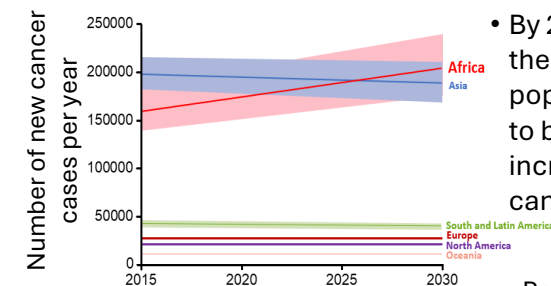
## Southern Africa



- Population 91 million (2025).
- Projected 29% increase by 2050.

## Cancer in South Africa and Africa

- Incomplete registries and underreported cases.
- South Africa: 111 000 new cases of cancer per year (2024).
- South Africa: 50% of cancer cases treated with photons.



- By 2050 about 40% of the world's child population is projected to be in **Africa**, with increasing rates of cancer [Lancet 20 (2019)].

Project officially launched (29 January 2025) by MEC Health and Wellness Mireille Wenger (centre)



shown with (left to right) Prof Graham Fieggen, Prof Jeannette Parkes, Prof Mosa Moshabela (Vice chancellor UCT), and Prof Andy Buffler (UCT PTI Chair).  
[andy.buffler@uct.ac.za]

