

The establishment of the  
**Uruguayan Centre of Molecular  
Imaging (CUDIM)** and the  
continuous collaboration with  
the IAEA to become a reference  
centre in the region for capacity  
building activities

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**IAEA Scientific Forum**

**Nuclear Techniques  
in Human Health**

*Prevention, Diagnosis, Treatment*



**CUDIM**

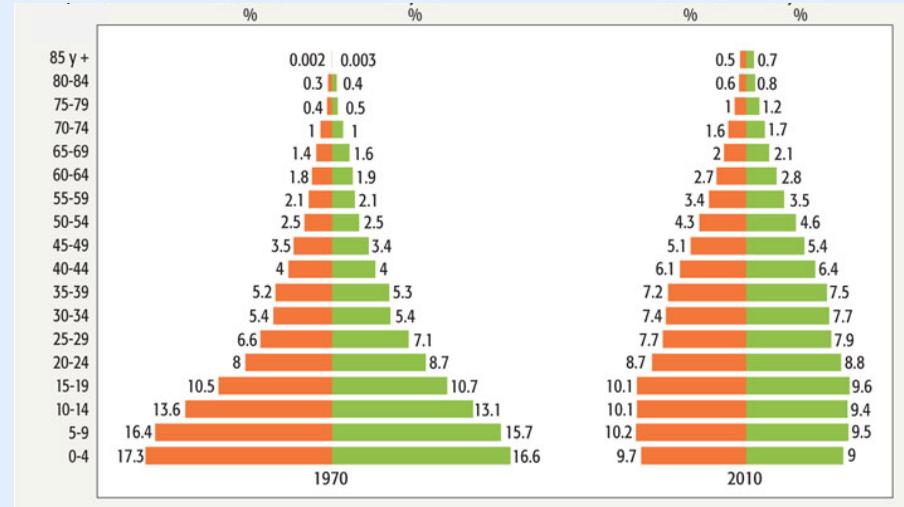


*concordia res  
parvae crescent*



# Health situation

- Demographic aging of population (3.4 million): high life expectancy and low growth rate.



- Chronic, non-communicable diseases (CNC) are the leading cause of death (60%): cardiovascular diseases (28%) and cancer (23%).



- WHO (2004): Alzheimer Disease/Dementia deaths reached 5.5% of total deaths (Uruguay ranks #17 in the world).



# National Health Strategic Objectives 2020



- To **reduce** morbidity and mortality of CNC diseases. **Goals:**
  - Reduce 4% of cancer deaths in population < 70 yr.
  - Reduce mortality for ischemic heart disease and stroke (30-69 yr.).
- To develop specific health programs for **vulnerable senior citizens.**



- Country Programme Framework: 2017-2021. **Human health** is one of the **main** priorities for the co-operation with the IAEA.

# CUDIM: Introduction of new health technology with *universal* coverage

- PET/CT is an imaging technology that has ***dramatically changed*** the management of several diseases.
- Worldwide availability is ***limited***, specially in developing countries.
- 2008-2010: competitive bidding and building construction.
- CUDIM is the ***only*** PET centre in the country: ***governmental***, non-profit legal entity ruled by private law.
- Institutional objectives related to ***patient care, education and research.***



2008

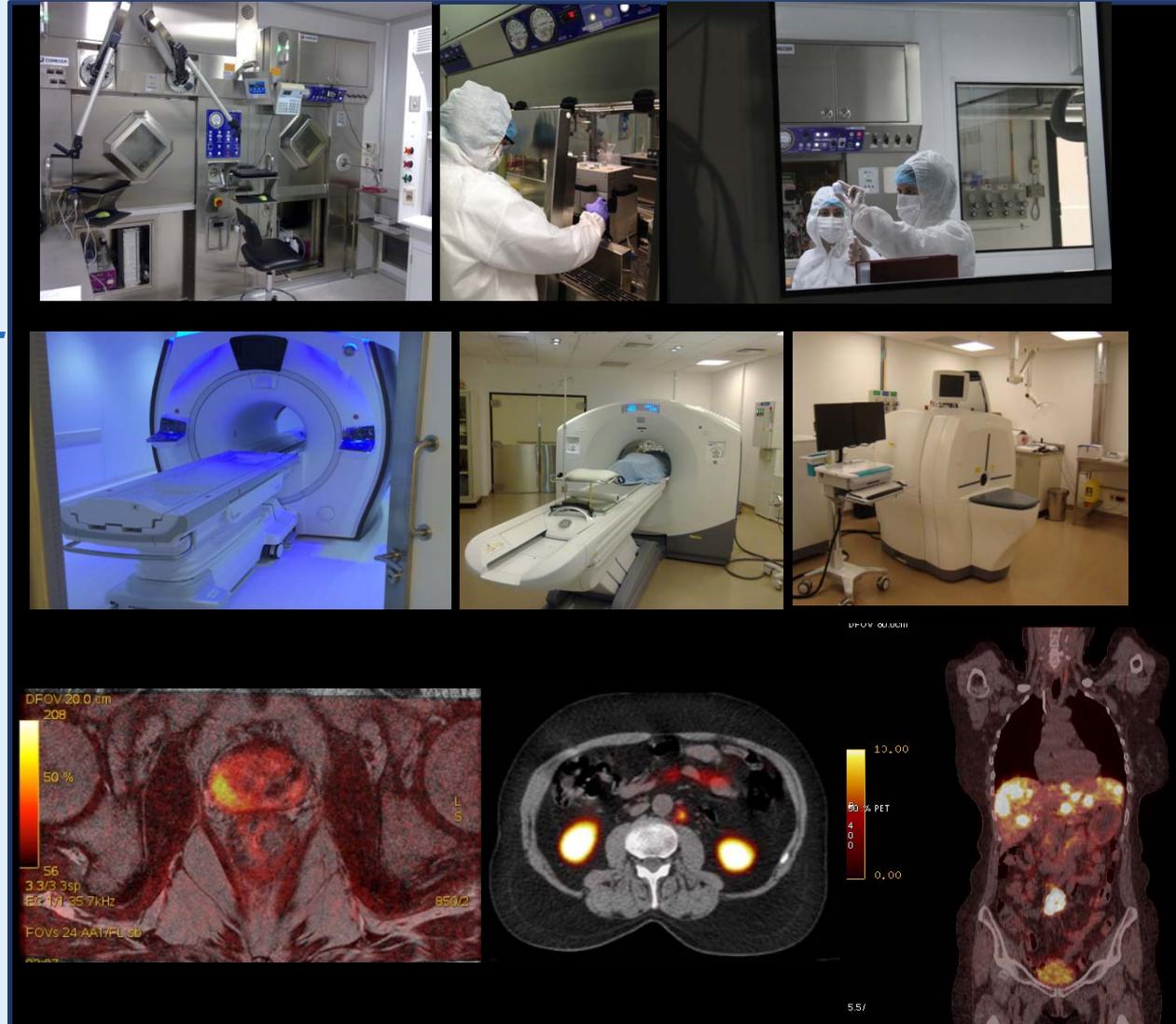
2010



# CUDIM: Introduction of new health technology with universal coverage



- **Whole country** coverage under National Integrated Health System, according to **evidence-based** guidelines.
- Three story building (4000 m<sup>2</sup>).
- Close collaboration with the University of **Uruguay** and **IAEA**.
- State of the art equipment.



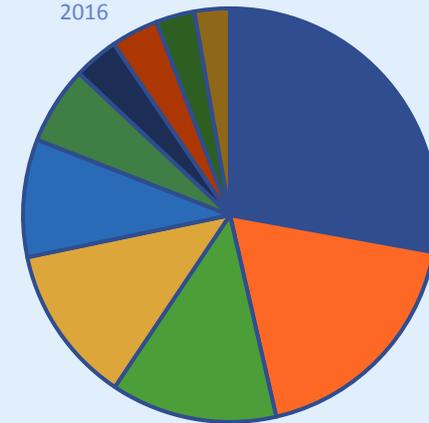
# CUDIM: health care *impact* and co-operation with the IAEA



- Approx. **4000** patients scanned yearly (90% **cancer** patients).
- **IAEA- CUDIM** co-operation: TC projects (human resources training: fellowships, SVs, expert missions), several regional (ARCAL) and interregional projects (CRP's).
- **CUDIM-IAEA** co-operation; regional and extra-regional training: training courses, expert missions, training (fellows and SVs).



PATHOLOGY



- |                        |                |                 |                     |
|------------------------|----------------|-----------------|---------------------|
| ■ Lung cancer          | ■ Lymphoma     | ■ Breast cancer | ■ Colorectal cancer |
| ■ Prostate cancer      | ■ CUP          | ■ Melanoma      | ■ Ovary cancer      |
| ■ Head and Neck cancer | ■ Renal cancer |                 |                     |

# THANK YOU!

