

# Portuguese legal and regulatory framework for radiation protection

Webinar  
Radon Action Plan





**A APA is a modern public organization, created in 2012 in result of a merging process involving 9 different institutes.**





# APA: FACTS AND NUMBERS

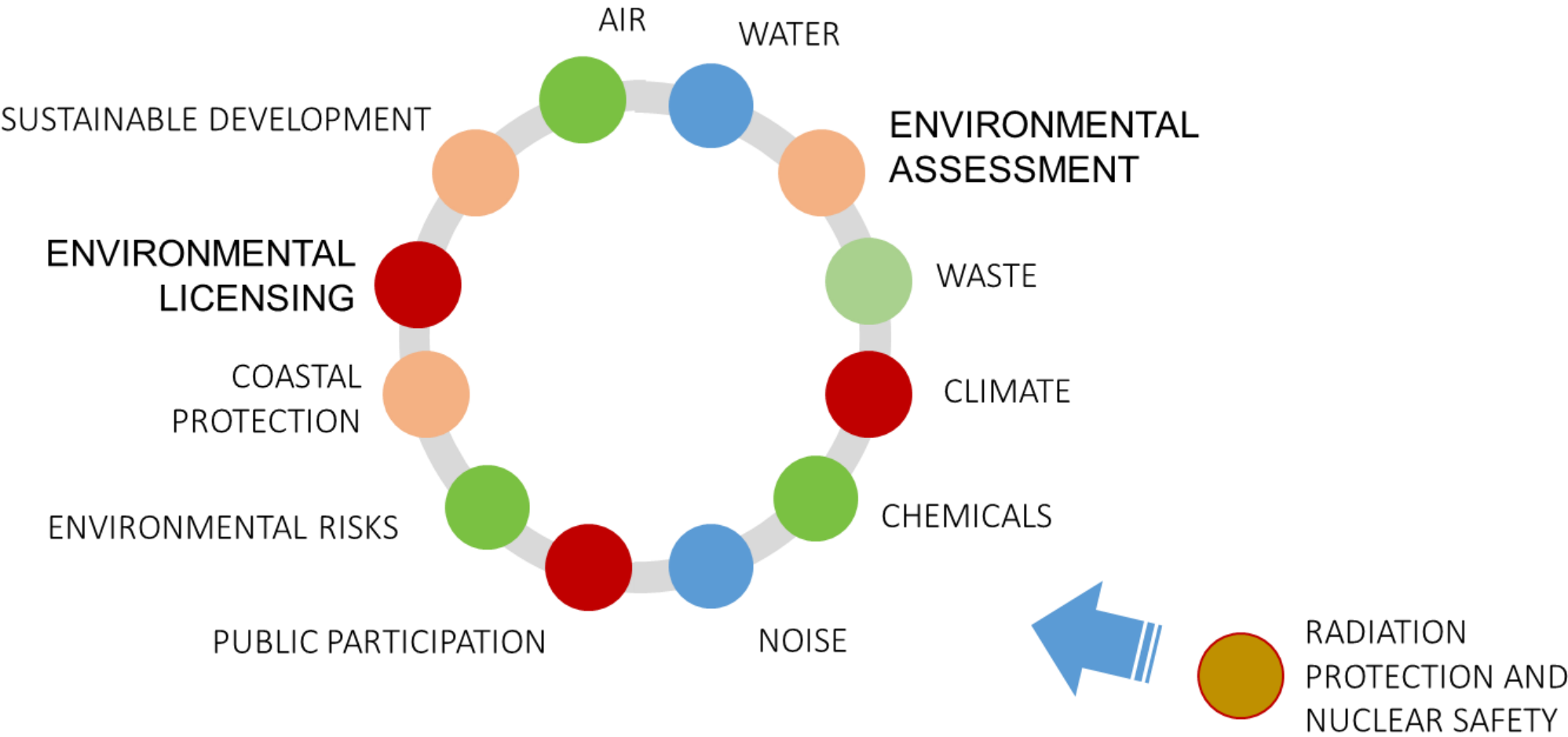


**APA is the national public body whose mission is to develop and monitor the management of environment and sustainable development policies.**



**It works in close cooperation with other public, private and non-governmental organizations, to ensure a high level of protection and enhancement of environmental systems.**





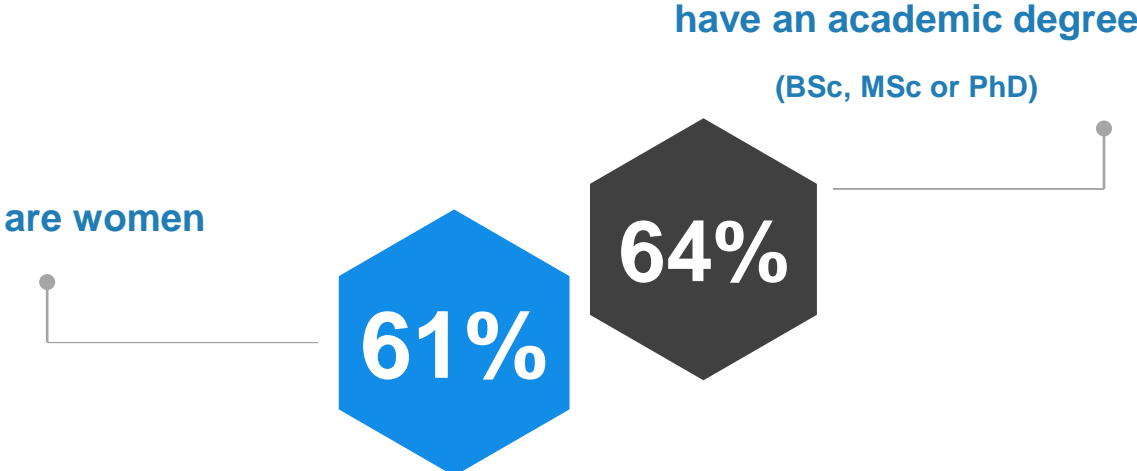


# STRATEGIC GOALS



- |  |   |
|--|---|
| 01   | Increase the level of protection, restoration and upgrading of ecosystems |
| Increase the level of protection of people and property in face of risk situations | 02  |
| 03   | Improve knowledge and information on environmental matters                |
| Strengthen public participation and ensure the involvement of institutions         | 04  |
| 05   | Guarantee excellent performance of conferred powers                       |

APA has about **830** employees





With its headquarter near Lisbon, APA has five regional offices:

**Regional Hidrographic Administration – North**

**Regional Hidrographic Administration – Center**

**Regional Hidrographic Administration – Tejo River Basin**

**Regional Hidrographic Administration – Alentejo**

**Regional Hidrographic Administration – Algarve**







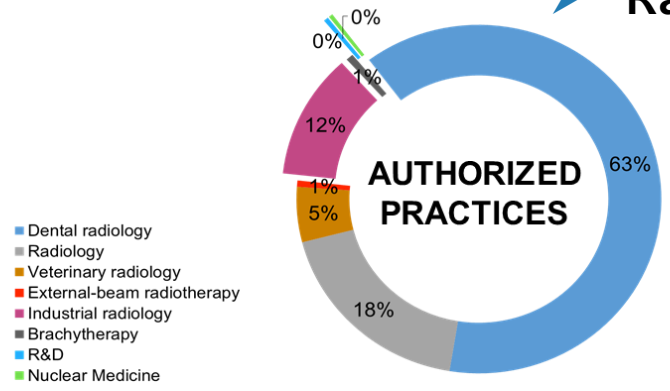
Surface area: 91 906 km<sup>2</sup>

Population: 10.6 million  
(Source: Eurostat)



- Location of Radiation sources
- Location of NPPs in Neighboring Countries

- **Around 10.000 authorized facilities that use radiation sources;**
  - **There is 1 Research Reactor; (Currently in permanent shutdown);**
- **Nuclear Power Plants in Neighboring Countries;**
  - **Foreign nuclear powered vessels;**
  - **Transport of radioactive sources;**
  - **Storage of uranium concentrate;**
  - **Radioactive waste disposal;**
  - **Radioactive sources;**
  - **Radiation sources.**

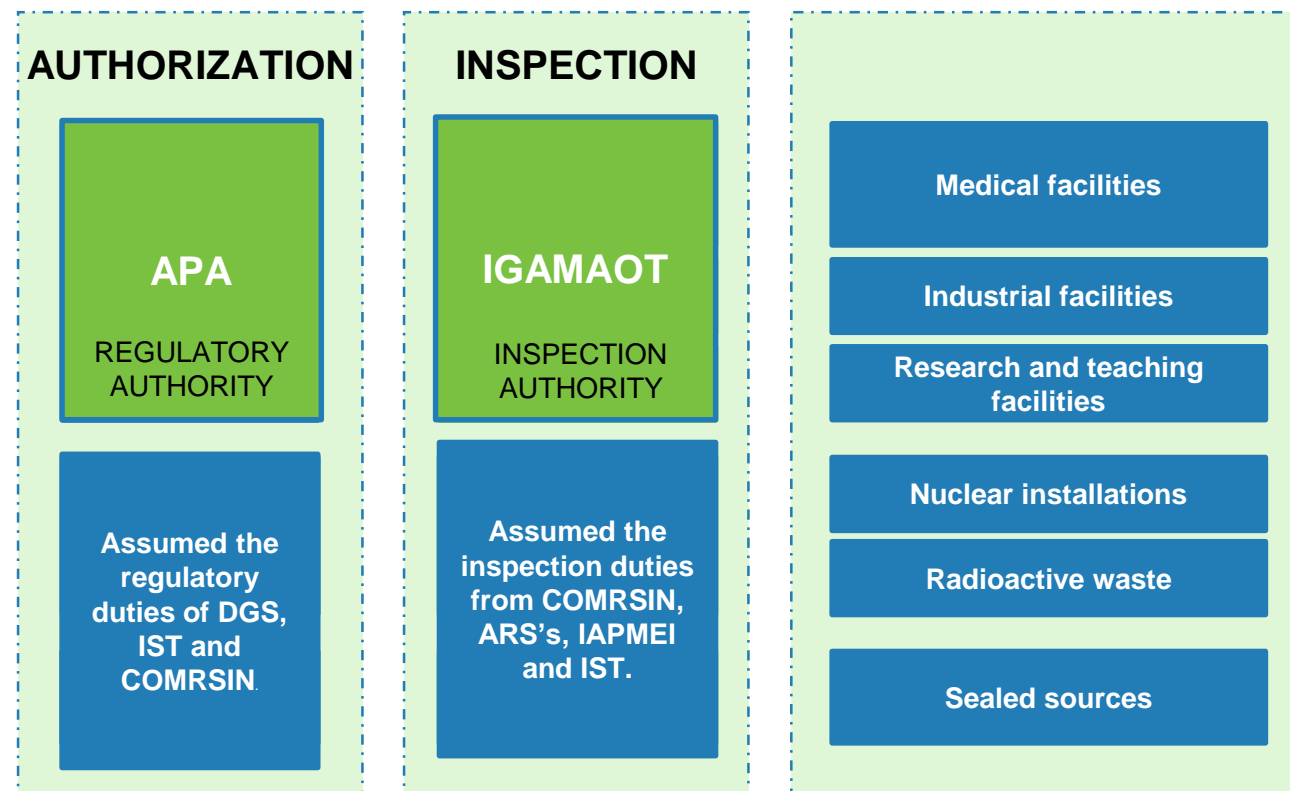


- **In Portugal a new legislation was approved establishing a new legal framework for:**
  - **radiation protection;**
  - **nuclear safety;**
  - **the safe management of radioactive waste and spent fuel.**
- **The new legislation transposes Directive 2013/59/Euratom of the EU Council of 5 December 2013.**
- **A new Regulatory Authority composed of a Competent Authority and an Inspective Authority for radiological protection and nuclear safety.**
  - **The Portuguese Environment Agency (APA) is the Competent Authority;**
  - **The General Inspection of Agriculture, Sea, Environment and Spatial Planning (IGAMAOT) is responsible for the inspections and enforcement.**



- **PREVIOUS LEGISLATION**
  - **Competencies of the regulatory authority were dispersed by several institutions.**
  - **Some institutions accumulated both regulatory, services providers and operator roles.**
  - **Resources were shared with other tasks.**
- **NEW LEGISLATION - Decree-Law No.108/2018 of 3 December 2018**
  - **Regulatory competencies have been consolidated under the Ministry of Environment and Climate Action, in APA and IGAMAOT.**
  - **The Regulatory Authority carries out its competencies independently and functionally separated from any other organization related to the promotion or use of practices, with human, technical and financial resources needed for its functioning.**
  - **Resources allocated to regulatory functions.**

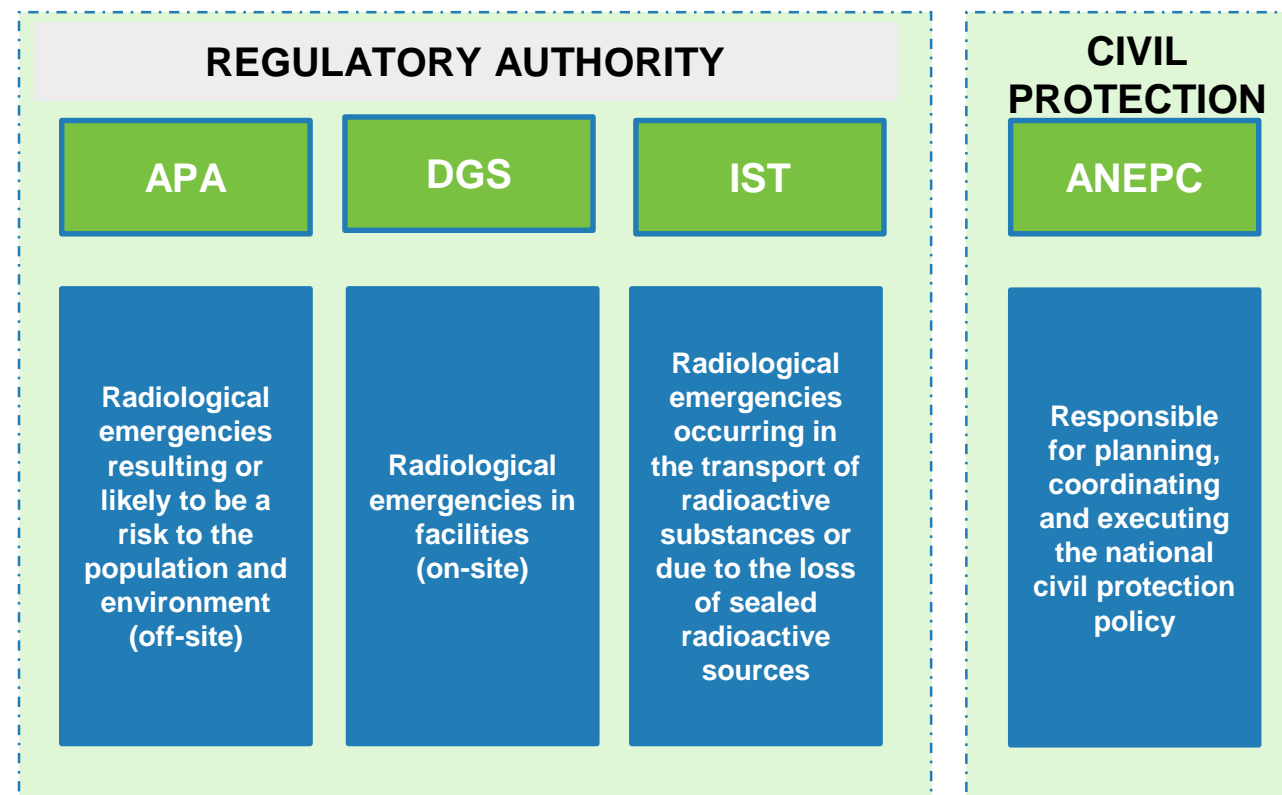
NEW LEGISLATION



INSTITUTIONS INVOLVED IN AUTHORIZATIONS AND INSPECTIONS

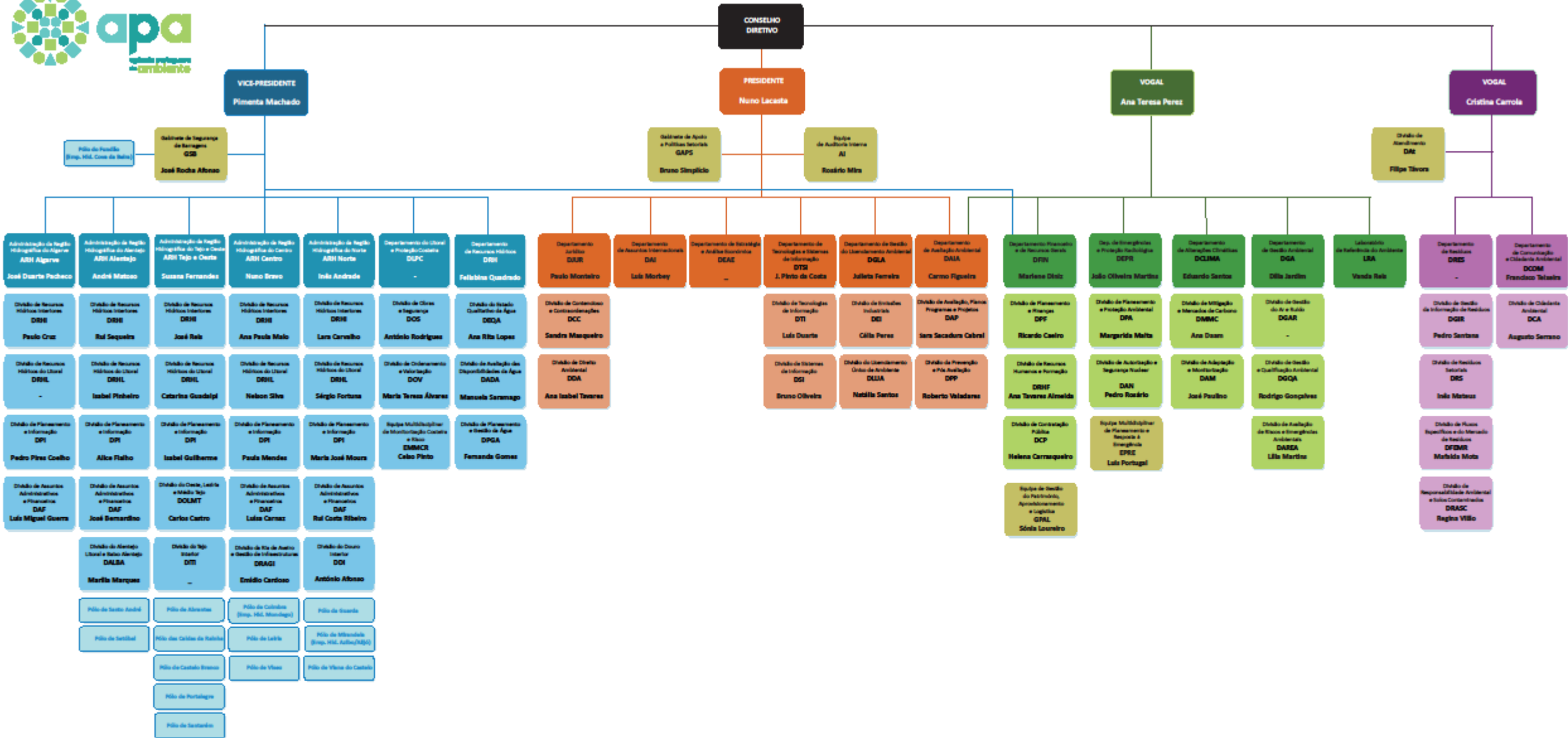


NEW LEGISLATION



INSTITUTIONS INVOLVED IN RADIOLOGICAL AND NUCLEAR EMERGENCIES

# REGULATORY AUTHORITY



## PORTUGUESE ENVIRONMENT AGENCY (APA)





- **Environmental Radioactivity Monitoring:**
  - Activities with potential environmental radiological impact;
  - Environmental Radiological Surveillance Plan;
  - Communicate, under Article 35 of the Euratom Treaty;
  - Radiological monitoring around the old uranium mines.
- **Identification and management of existing planned situations:**
  - Evaluate the radiological safety of industries processing materials containing naturally-occurring radionuclides (NORM).
- **Identification and management of existing exposure situations:**
  - Radon Action Plan;
  - Past activities, namely industrial, mining and accident-related;
  - Building materials;
  - Remediation measures.
- **Radioactive Waste and Spent Fuel:**
  - National Action Plan for spent fuel and radioactive waste management.



# EMERGENCY PREPAREDNESS AND RESPONSE

- The APA is responsible for all of radiological emergencies that may result on a risk for the workers, the population and for the environment.
  - Training
  - Operation of an online, real-time, alert radiological monitoring network (RADNET);
  - Act as National Competent Authority National Contact Point for a R&N Emergencies;
  - Operational capability;
  - Recommendations of corrective measures to protect the population and the environment.

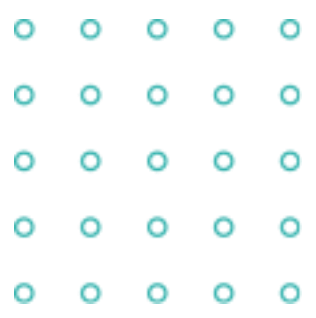




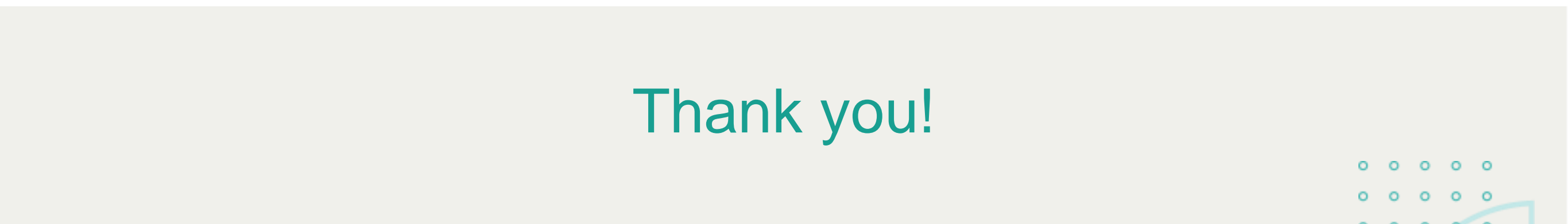
# AUTHORIZATION AND NUCLEAR SAFETY



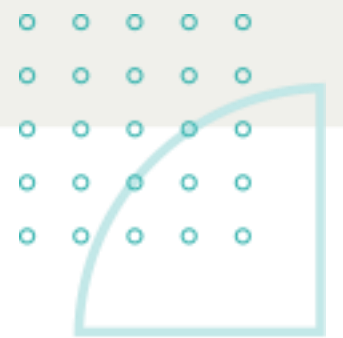
- **Authorization of practices, installations, radiation sources and for radioactive waste management activities**
- **Transport of radioactive sources and radioactive waste**
- **Recognition of services and professionals**
- **Nuclear Safety**
- **Safeguards**
- **Physical protection**



**apa**  
agência portuguesa  
do **ambiente**



Thank you!



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