



Australian Government

Australian Radiation Protection and Nuclear Safety Agency

The Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)

Stephen Long





Mission and Objectives

OUR MISSION:
Protection of people
and the
environment from
the harmful effects
of radiation

Protect the public, workers, and the environment from radiation exposure

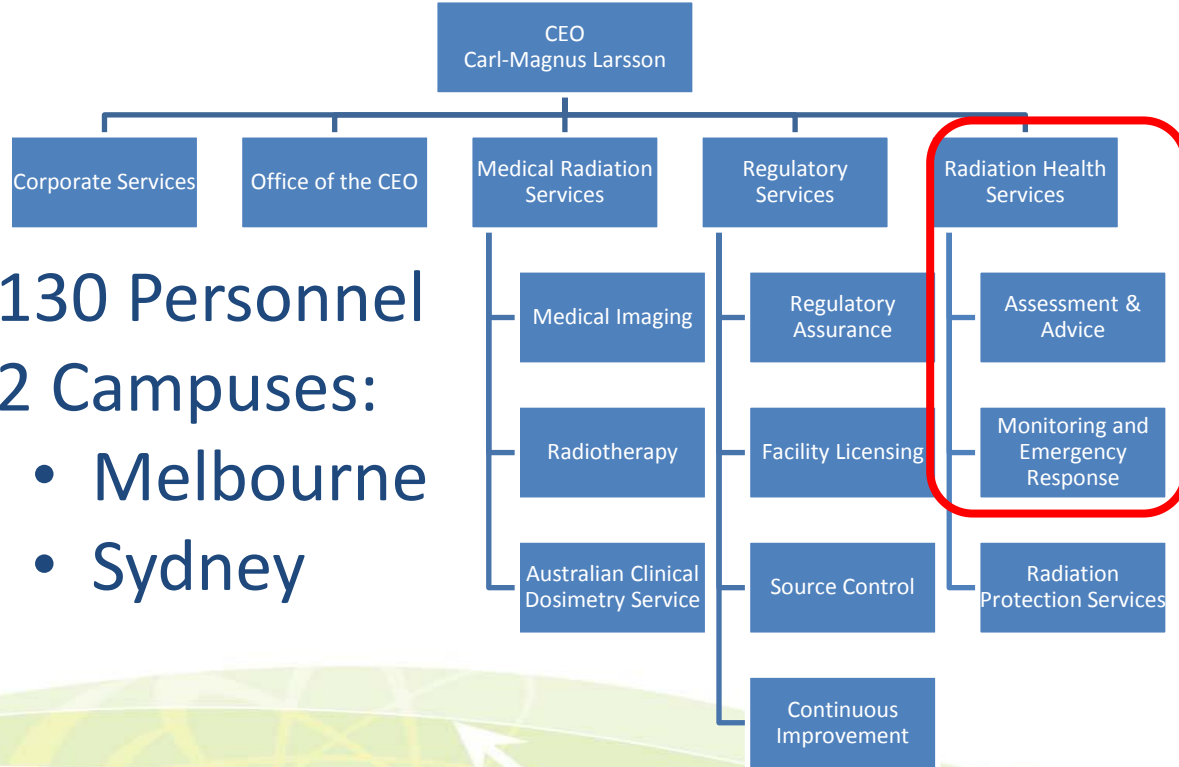
Promote radiological and nuclear safety and security, and emergency preparedness

Promote the safe and effective use of ionising radiation in medicine

Ensure effective and proportionate regulation and enforcement activities



Structure



- 130 Personnel
- 2 Campuses:
 - Melbourne
 - Sydney



Monitoring and Emergency Response

- Radiation Monitoring Networks
 - CTBT Radionuclide Monitoring Stations
 - Australian UV Monitoring Network
- Instrumentation and Measurement Systems
 - CTBT Radionuclide Laboratory
 - Radon Chamber
 - Laboratory Instruments
 - HPGe Gamma-spectrometers
 - Liquid Scintillation Counters
 - Alpha-spectrometers
- Emergency Response
 - In Situ measurement capabilities
 - Centralised GIS for decision-support
- Radiochemistry Laboratory
 - Sample Preparation
 - Fusion System
 - Microwave digestion
 - Eichrom resin extraction systems
 - Electrodeposition
 - Autodeposition





Assessment and Advice

- Health Consequences
- Dose Assessment
 - ARGOS
 - RESRAD
 - IMBA
 - ERICA
- Radiation Protection Best Practice
- Australian National Radiation Dose Register

Release Start: 24-03-2011 1200 UTC

Total Dose Rate of plume from incident site



Time of Arrival plume



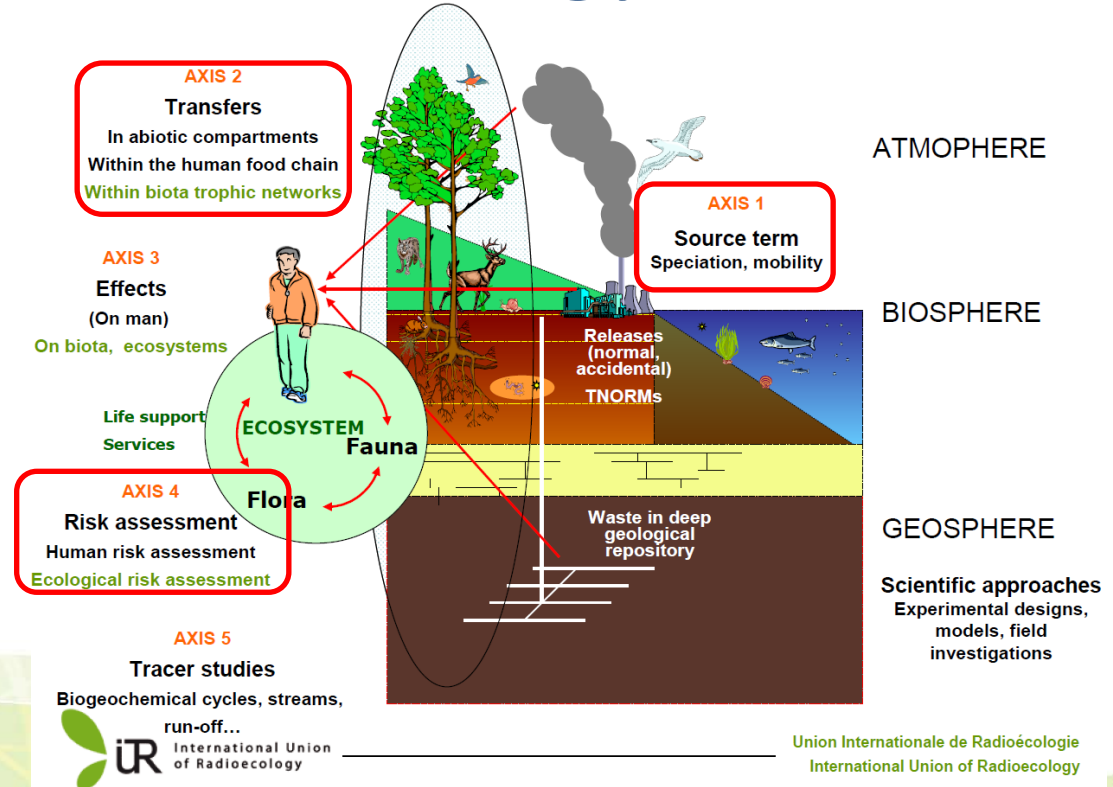


Work in Radioecology

To protect the public from the harmful effects of radiation exposure, ARPANSA requires up-to-date scientific knowledge to inform its regulatory activities and to provide evidence-based expert advice.

Engage with:

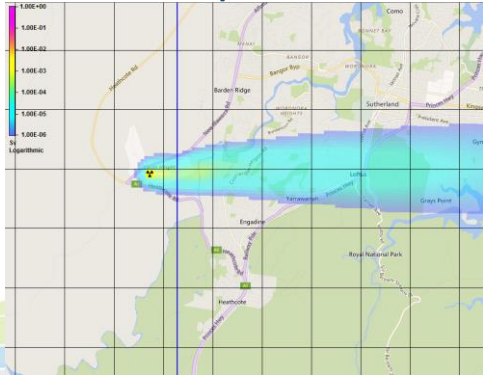
- International Atomic Energy Agency (IAEA)
- the International Commission on Radiological Protection (ICRP)
- United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR)
- the World Health Organization (WHO)
- the International Commission on Non-Ionizing Radiation Protection (ICNIRP)





Projects Involving the Source Term

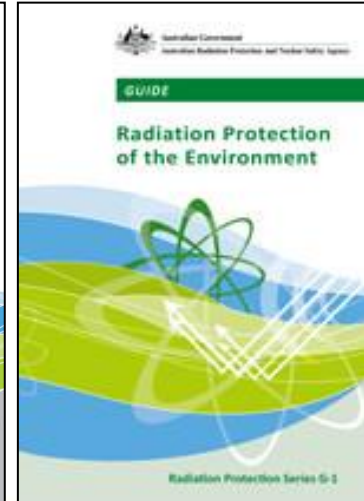
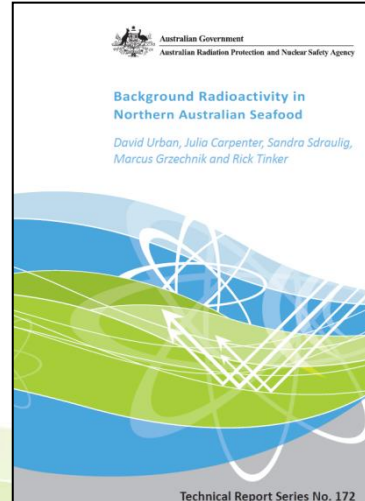
- Measurement of Caesium and Strontium in seawater
- Collection of dry/wet atmospheric deposition
- Measurement of Radon
- Development of measurement protocols for radiological emergencies
- Development of Reference Accident scenarios





Projects Involving Transfers

- Measurement of radionuclides in foodstuff
- Development and promulgation of modelling tools
- National guide for Radiation Protection of the Environment





Projects Involving Risk Assessments

- Evaluation of radiological component of Environmental Impact Statements
 - Only when proposal involves a ‘nuclear action’ under the Australian Environment Protection and Biodiversity Conservation Act (e.g. Uranium mining)
- Development of system to assess application for construction and operation of Low Level Radioactive Waste Repository
- Evaluation of risk associated with wearing “Scalar Energy Pendant”





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THANK YOU

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