

# How Nuclear Technology Can Help Protect the Environment (From the Mountains to the Sea)

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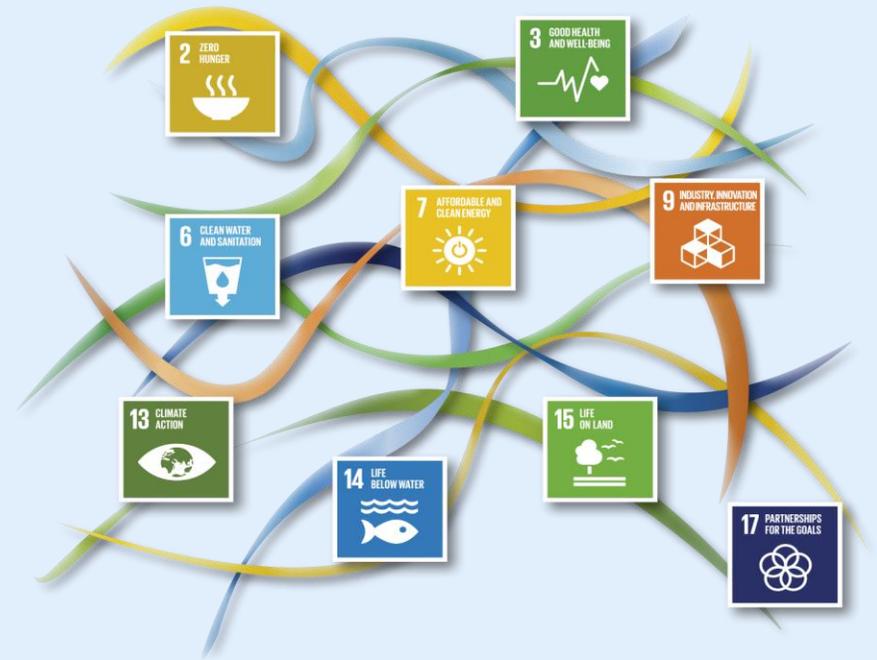
Australian Government



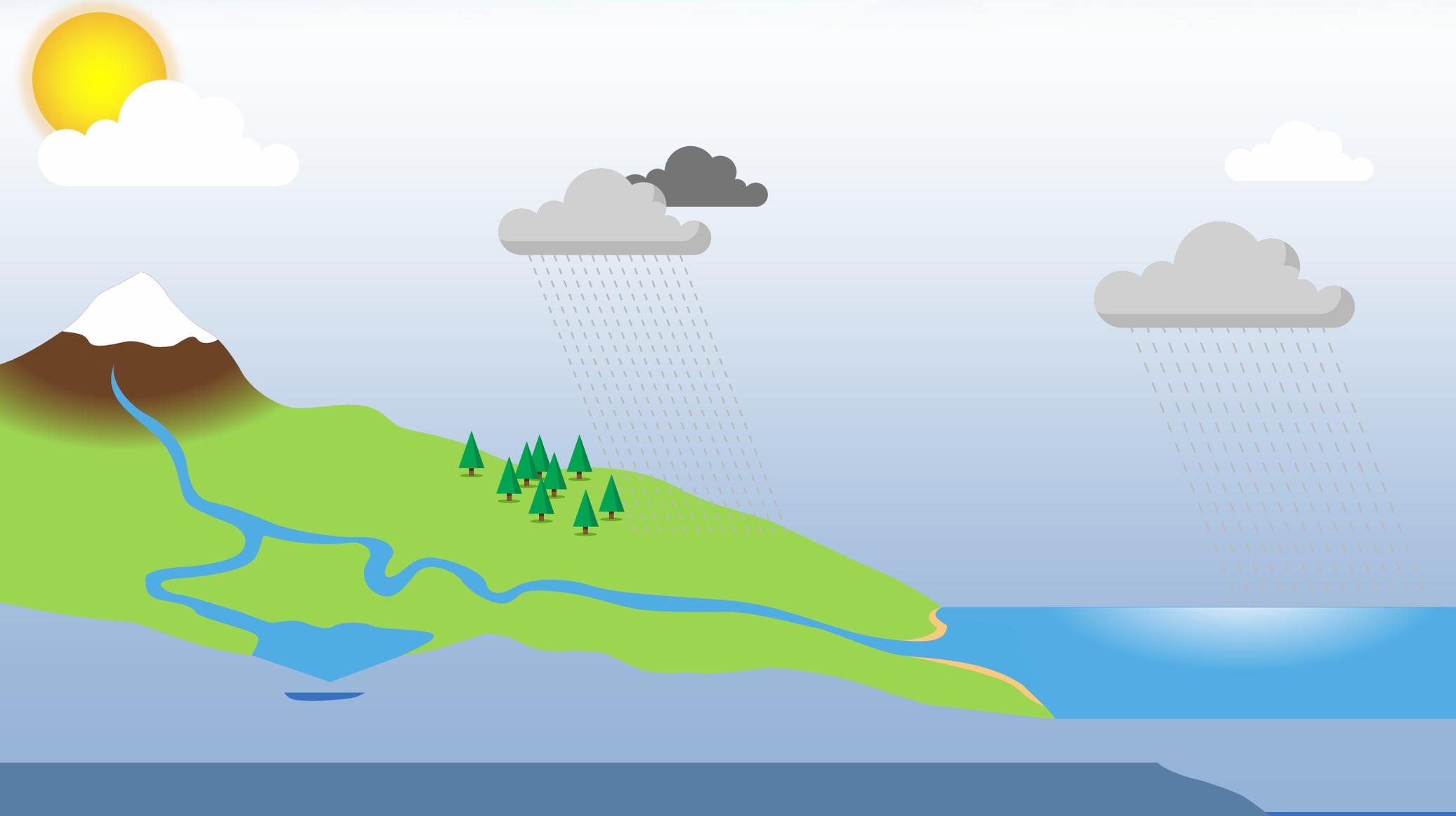
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2016 IAEA Scientific Forum

**Nuclear Technology for  
the Sustainable Development Goals**



# Isotopic fingerprints in the water cycle



# South East Asia and the Pacific



Increased modification of all types of landscape due to increased demand for reliable food supply.

# Soil erosion



Soil erosion is often associated with this increased pressure on the landscape

# Turbidity

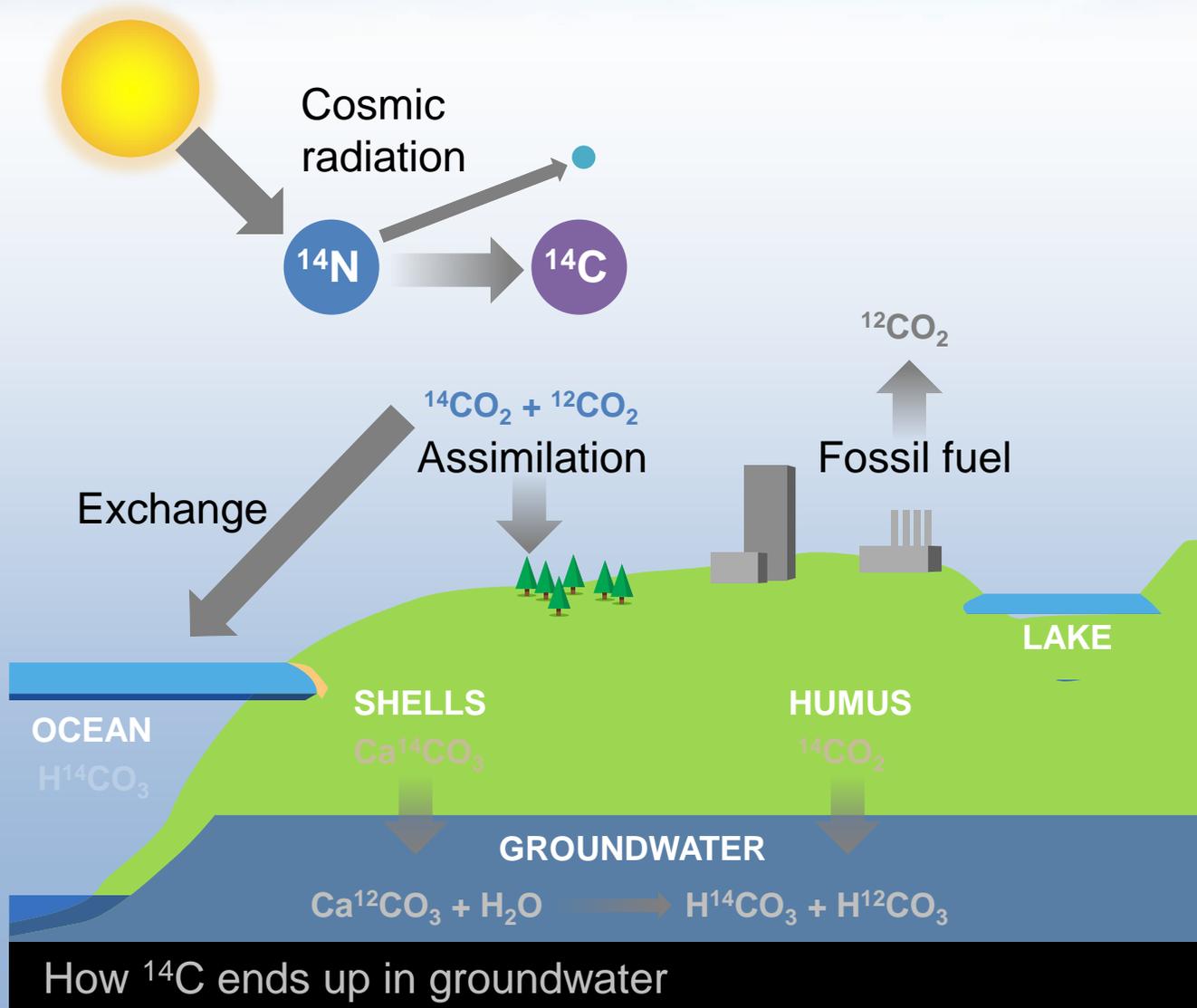


Increased turbidity causing decreased ecosystem functioning

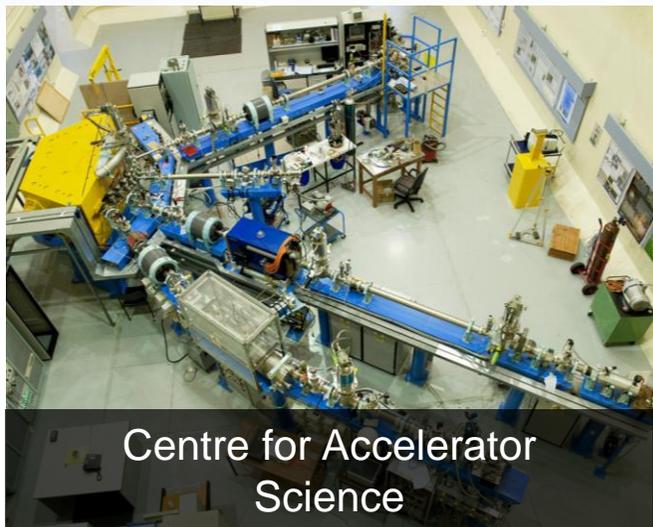


Low turbidity for healthy ecosystems

# Radiocarbon ( $^{14}\text{C}$ ) dating of groundwater



# ANSTO infrastructure and facilities



Centre for Accelerator  
Science



Environmental Radioactivity  
Measurement Centre



Inorganic Chemistry  
Laboratories



ANSTO Stable  
Isotope Laboratory



Aquatic Radioecology/  
Ecology Laboratories



Ultra-Low Level Tritium  
Laboratory

# Thank you!

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