



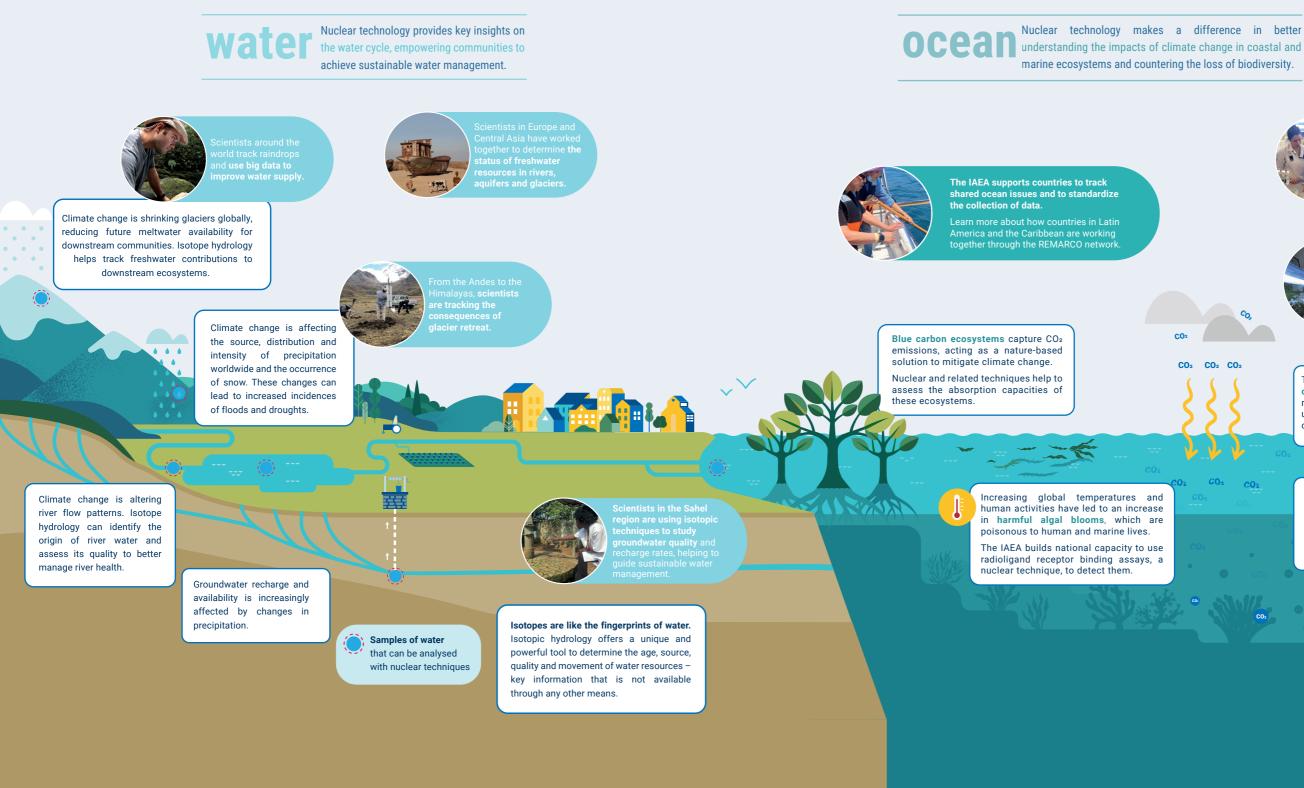




**Countries are using nuclear science and techniques** to enhance food and water security, protect the environment, produce clean energy and develop strategies to minimize harm to fragile coastal and marine ecosystems.

The IAEA is helping countries realize the vast potential of nuclear science and technology, from supporting the introduction of clean nuclear energy to researching climate resilient agrifood systems in partnership with the United Nations Food and Agriculture Organization.

Nuclear techniques can help countries monitor and assess environmental changes, meaning they can understand ecosystem processes, enabling science-based policies that can provide resilient solutions in adapting to climate change.





prepare samples as part of blue carbon research.



Researchers at the IAEA are studying the effects of ocean acidification and other



The ocean absorbs CO<sub>2</sub>, causing ocean acidification, affecting marine life and the livelihoods of up to 3 billion people who depend on the ocean.

The IAEA uses nuclear and isotopic techniques to gain a better understanding of the impact that microplastics have on marine ecosystems, and to evaluate any additional contamination risks from associated pollutants.

Infographic: A. Vargas, R.Kenn/IAEA