

Session 2.3

Overview of Nuclear and Isotopic Applications in Water and Environmental Management

David Osborn
Environment Laboratories
Department of Nuclear Sciences and Applications
IAEA



The IAEA's mandate

- Small changes in the natural environment can potentially have wide-ranging consequences for development.
- The IAEA and its TC programme supports Member States in the use of nuclear and isotopic tools that contribute to their understanding of the planet on which we are all 100% dependent.
- This provides decision-makers with the information necessary for natural resource management and to address contemporary environmental issues, while also adapting to future scenarios.



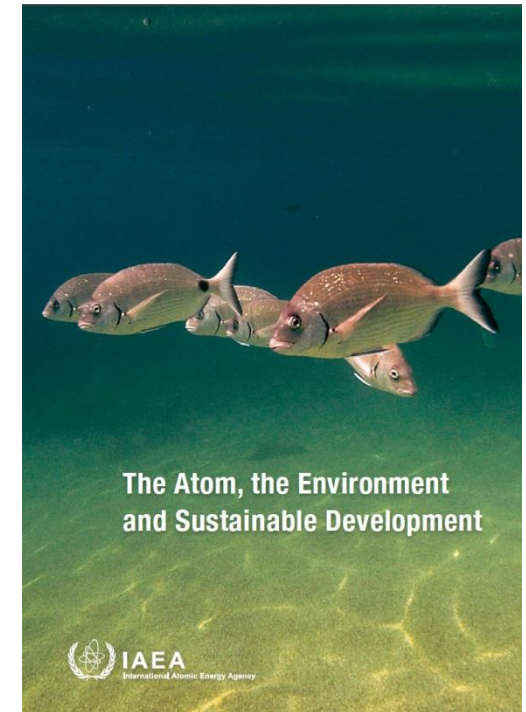
Nuclear and isotopic techniques

- Monitoring environmental radioactivity and pollutants
 - Radiotracer applications
 - Isotopic ratios
 - Isotope hydrology
-
- Reference materials
 - Proficiency testing
 - Analytical techniques
 - Training and awareness raising
 - Research



Future Applications and Potential Uses

- Environmental radioactivity
- Climate Change – water and oceans
- Coastal Pollution & Seafood Safety
- Threatened Habitat & Endangered Species





TO ADDRESS THE BIG CHALLENGES WE MUST START SMALL

