



***GEO Data providers workshop 20, 21 April 2017, Florence, Italy***



***Organisation:***

International Atomic Energy Agency (IAEA)

**How do you contribute to the GEO Vision?**

The IAEA's Marine Information System, MARiS, hosts and shares the results of measurements of radionuclides in the marine environment which have been undertaken in laboratories around the world. MARiS comprises both a database of current and historical marine radioactivity levels and a website for interrogation and dissemination of this data. The fundamental objective of MARiS is to share freely marine radioactivity data and information in order to contribute to an up to date scientific understanding of the behaviour and effects of naturally occurring and anthropogenic radionuclides in the global marine environment and of the processes affecting their distributions. This is a unique database and may fill a gap in the current environmental data coverage of GEOSS.

***Type of organization: governmental- NGO- UN..etc.***

*UN*

***Type of data:***

Ex-situ measurement results – mainly activity concentrations of naturally occurring and anthropogenic radionuclides in seawater, marine sediment and marine biota

***Data policy adopted by your organization:***

No formal data policy has been adopted by IAEA Environment Laboratories in relation to MARiS. MARiS data is open access and can be used freely with appropriate citations, including reference to the original data provider.

***Already brokered or not by the GCI, No***

***For newcomers:***

***Why you are interested to join GEO- GCI***

MARiS is currently at a crossroads. It has been in existence and relatively unchanged for over 10 years and requires upgrade to keep it relevant. The IAEA's general aim is to redevelop the system imminently in adherence with Open Data principles and ensuring that options for interoperability with other systems are to the fore. However, the development of this system is not a core task of the IAEA Environment Laboratories and there are currently skills, knowledge and resource gaps which are hindering progress and selection of the most appropriate development path. The GEOSS strategy is closely aligned with the underlying rationale for maintaining and developing MARiS and with the motivation for the current upgrade. It is hoped that by aiming to join GEO-GCI, the IAEA can not only avail of the benefits described below but

can align itself with current best practice in this area and include the changes which will be required for joining as a central tenet of the MARiS redevelopment plan.

- ***How GEO could benefit your organization***

Multiple benefits would be provided if IAEA were to become a brokered data provider including provision of a more comprehensive and robust service to the public and scientists in IAEA Member States through interoperability, improved metadata and data discovery and positioning MARiS as a more attractive repository for data providers.