Marine Data Management Awareness Course

13th February 2018

IMarEST, 1 Birdcage Walk, London, SW1H 9JJ

Time	Description	Outcome
0930 - 0945	**Introduction** • Welcome • Objectives of the Day	
0945 - 1030	**Part 1: Why Data Management?** *Instructor led discussion on*: • Why Data Management matters! • Data Management in Context • The Cost and Value benefits • Traceability and Audit • Ease of Access and Use • Real World Applications	An understanding of: why data management is important, costs of collecting data, its value for its original purpose, related risks, potential for re-use and identifying real world applications
1030-1115	**Part 2: Data Governance** *Presentations on:* • What constitutes Good Data Management? • Where should it happen? • When should it happen? • How does it happen?	A formal context for the understanding acquired from the previous session.
1115-1130	*BREAK*	
1130-1215	**Part 3: The Data Life-Cycle** *Instructor led presentation* providing a basic overview of the Data Lifecycle: • Creating data • Sources of data • Ingestion & Storage of data • Structure, attribution and relationships • Versioning • Sharing, Exchange & Re-Use • Archiving	An understanding of the fundamentals of how data is collected, managed, published and used plus how important metadata is!
1215-1300	**Part 4: Standards** *Presentation on why Standards matter* • What is a standard? • Approaches to Standards • Standards bodies • The OSI Model	Understand the role and value of adopting and using standards in data governance
1300-1330	*LUNCH*	
1330-1400	**Part 4: Metadata** *Instructor led discussion session* • What is metadata? • Discovery metadata • Metadata Profiles	A basic knowledge of the value and importance of metadata in the quest

	• Master Data Register (MDR) • Creating metadata • MEDIN	for "best practise"
1400-1420	**Part 5: Controlled Vocabularies and Glossaries** *Presentation to introduce the subject* • What is a controlled vocabulary? • Indexing Content • Retrieving Content • Explanations of marine terms	Have an appreciation of the need to use words, phrases and terms to describe or explain marine data content
1420-1440	**Part 6: Coordinate Reference Systems (CRS)** *Instructor introduction to geodetic frameworks* • What is a Coordinate Reference System? • What do the terms geoid, ellipsoid, spheroid and datum mean, and how are they related? • Converting between Coordinate Reference Systems	Better appreciate how real world geospatial data can be accurately represented in different ways
1440-1500	**Part 7: Data Quality** *Presentation to introduce the concept* • What is Data Quality • Why is it important? • How can it be assessed	An appreciation of the importance of data quality
1500-1515	*BREAK*	
1515-1600	**Part 8: Data Publishing** *Instructor presentation and group discussion* • Process • Delivered products and services • Cartography • Styling • Licensing , Sharing and Re-use	Understanding the ways in which data is now published and considerations associated with sharing and re-use
1600-1630	**Part 9: Bring your own data - the challenges!** *Interactive session to discuss and debate:* • How well is your data managed? • What improvements might be made? • How can "best practise" be achieved? • What is hampering progress? • How can these challenges be overcome? • What do you need to do next?	Share experiences with instructor and other attendees to make real marine data management challenges and to derive opportunities for improvement
1630-1640	**Part 10: Course re-cap** *Discussion to* • Identify key messages of the day • Course feedback	
End of Training Session		

Please note this programme may be subject to change