

## Marine Data Management Awareness Course

16<sup>th</sup> October 2018

IMarEST, 1 Birdcage Walk, London, SW1H 9JJ

Time	Description	Outcome
0930 - 0945	<b>Introduction</b> <ul style="list-style-type: none"> <li>Welcome</li> <li>Objectives of the Day</li> </ul>	
0945 - 1030	<b>Part 1: Why Data Management?</b> <i>Instructor led discussion on:</i> <ul style="list-style-type: none"> <li>Why Data Management matters!</li> <li>Data Management in Context</li> <li>The Cost and Value benefits</li> <li>Traceability and Audit</li> <li>Ease of Access and Use</li> <li>Real World Applications</li> </ul>	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	<b>Part 2: Data Governance</b> <i>Presentations on:</i> <ul style="list-style-type: none"> <li>What constitutes Good Data Management?</li> <li>Where should it happen?</li> <li>When should it happen?</li> <li>How does it happen?</li> </ul>	A formal context for the understanding acquired from the previous session.
<b>1115-1130</b>	<b>BREAK</b>	
1130-1215	<b>Part 3: The Data Life-Cycle</b> <i>Instructor led presentation</i> providing a basic overview of the Data Lifecycle: <ul style="list-style-type: none"> <li>Creating data</li> <li>Sources of data</li> <li>Ingestion &amp; Storage of data</li> <li>Structure, attribution and relationships</li> <li>Versioning</li> <li>Sharing, Exchange &amp; Re-Use</li> <li>Archiving</li> </ul>	An understanding of the fundamentals of how data is collected, managed, published and used plus how important metadata is!
1215-1300	<b>Part 4A: Standards</b> <i>Presentation on why Standards matter</i> <ul style="list-style-type: none"> <li>What is a standard?</li> <li>Approaches to Standards</li> <li>Standards bodies</li> <li>The OSI Model</li> </ul>	Understand the role and value of adopting and using standards in data governance
<b>1300-1330</b>	<b>LUNCH</b>	
1330-1400	<b>Part 4B: Metadata</b> <i>Instructor led discussion session</i> <ul style="list-style-type: none"> <li>What is metadata?</li> <li>Discovery metadata</li> <li>Metadata Profiles</li> </ul>	A basic knowledge of the value and importance of metadata in the quest

	<ul style="list-style-type: none"> <li>• Master Data Register (MDR)</li> <li>• Creating metadata</li> <li>• MEDIN</li> </ul>	for “best practise”
1400-1420	<p><b>Part 5: Controlled Vocabularies and Glossaries</b> <i>Presentation to introduce the subject</i></p> <ul style="list-style-type: none"> <li>• What is a controlled vocabulary?</li> <li>• Indexing Content</li> <li>• Retrieving Content</li> <li>• Explanations of marine terms</li> </ul>	Have an appreciation of the need to use words, phrases and terms to describe or explain marine data content
1420-1440	<p><b>Part 6: Coordinate Reference Systems (CRS)</b> <i>Instructor introduction to geodetic frameworks</i></p> <ul style="list-style-type: none"> <li>• What is a Coordinate Reference System?</li> <li>• What do the terms geoid, ellipsoid, spheroid and datum mean, and how are they related?</li> <li>• Converting between Coordinate Reference Systems</li> </ul>	Better appreciate how real world geospatial data can be accurately represented in different ways
1440-1500	<p><b>Part 7: Data Quality</b> <i>Presentation to introduce the concept</i></p> <ul style="list-style-type: none"> <li>• What is Data Quality</li> <li>• Why is it important?</li> <li>• How can it be assessed</li> </ul>	An appreciation of the importance of data quality
<b>1500-1515</b>	<b>BREAK</b>	
1515-1600	<p><b>Part 8: Data Publishing</b> <i>Instructor presentation and group discussion</i></p> <ul style="list-style-type: none"> <li>• Process</li> <li>• Delivered products and services</li> <li>• Cartography</li> <li>• Styling</li> <li>• Licensing , Sharing and Re-use</li> </ul>	Understanding the ways in which data is now published and considerations associated with sharing and re-use
1600-1630	<p><b>Part 9: Bring your own data - the challenges!</b> <i>Interactive session to discuss and debate:</i></p> <ul style="list-style-type: none"> <li>• How well is your data managed?</li> <li>• What improvements might be made?</li> <li>• How can “best practise” be achieved?</li> <li>• What is hampering progress?</li> <li>• How can these challenges be overcome?</li> <li>• What do you need to do next?</li> </ul>	Share experiences with instructor and other attendees to make real marine data management challenges and to derive opportunities for improvement
1630-1640	<p><b>Part 10: Course re-cap</b> <i>Discussion to</i></p> <ul style="list-style-type: none"> <li>• Identify key messages of the day</li> <li>• Course feedback</li> </ul>	
<b>End of Training Session</b>		