Improved Chart Production and Data Management

Esri, USA, has released a solution to support users in port management, maritime transport, coastal management, offshore energy, nautical chart production, and maritime defence. ArcGIS for Maritime: Charting and ArcGIS for Maritime: Bathymetry are part of the ArcGIS system and enable users to create, manage, and share maritime-related data and metadata. Together, these solutions provide a comprehensive geospatial platform for nautical chart production and bathymetric data management.

Timothy Kearns, Maritime Programme Manager, says that in conjunction with Esri partner Quality Positioning Systems (QPS), this solution provides the market with the only end-to-end capability from collecting sensor data to publishing it in the cloud.

ArcGIS for Maritime: Charting (previously Esri Nautical Solution) improves, standardises, and increases data and workflow management by allowing nautical data to be captured, maintained, and managed in a centralised database. Users can produce electronic, paper, raster, and custom charts as well as integrate their nautical data with other spatial information. Sharing with other groups, including the public, is one of the many advantages of this approach. ArcGIS for Maritime: Charting provides data management and products in both enterprise and desktop environments; integration with other spatial information to create custom charts for a variety of industries and publication of data and metadata internally or to the public through web services.

ArcGIS for Maritime: Bathymetry solves challenges traditionally found in the hydrographic community such as the creation of non-standard metadata and data duplication that leads to massive amounts of stored data. Now, bathymetric data and metadata can be indexed, searched, and modelled for more efficient management. ArcGIS for Maritime: Bathymetry visualises bathymetric data by querying and filtering entire data holdings on the fly based on metadata and spatial location; composes multiple datasets into a seamless bathymetric surface model in real time without data duplication and makes use of GIS technology for analysis, production, and sharing.