

Esri Oceans Summit Position Paper

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My focus is to build products and solutions that process all possible modalities of modern sonar systems and then integrate the results, from below the seafloor through the full water column, into GIS and 4D visualization environments. My expertise covers bathymetric, backscatter and water column processing, as well as advanced multi-core and cloud computing architectures. QPS is a partner in the Esri Ocean GIS Initiative and plans to leverage the capabilities of ArcGIS with our expertise. QPS is currently pioneering a whole range of new capabilities for the maritime community (hydrography, habitat mapping, and nautical charting).

QPS

QPS is headquartered in Zeist, The Netherlands, and is an independent software design company founded in 1986. We have subsidiaries in Portsmouth, New Hampshire and Fredericton, New Brunswick, Canada. Our focus is the development of software systems for use in hydrographic surveys, sea-floor mapping, portable pilot units and Electronic Navigation Chart (ENC) production. Our software suites cover the data acquisition from the sonar systems, processing, quality control and validation of this data, and finally the visualization and export of GIS products.

Our software is used on board offshore construction vessels, drilling rigs, pipe-lay barges and hydrographic survey vessels. Our customers range from single person survey companies to university research centers to national level hydrographic organizations.

Our software products include the QINSy product suite and the Fledermaus product suite. QINSy supports the acquisition and processing of bathymetric data and Fledermaus supports the data validation of bathymetric data as well as the processing of backscatter and water column data. Fledermaus also supports the direct transfer of assets to and from ArcGIS geodatabases. That technology is now migrating into the QINSy suite to be used on-line during survey operations. QPS is also an OEM solution provider that integrates the ArcGIS Maritime Charting and Bathymetric products to provide solutions for nautical charting, dredging, habitat mapping, geological survey and hydrography.

As we continue to expand our hydrographic capabilities to the ArcGIS community, users in our niche will benefit from direct access to our capabilities both from within our product suite as well as directly in Arc Desktop tools. So whichever platform they are more familiar with, they will enjoy the advanced capabilities that our tools bring to the hydrographic domain.