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Waterway LRS: A critical asset management requirement for New Jersey's Marine Transportation System

Presenter

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The New Jersey DOT Office of Maritime Resources (OMR) serves as the lead agency for support of New Jersey's maritime industry which includes recreational and commercial boating, ferry operations, ports and terminals, cargo movement, and maritime environmental resources. OMR is moving toward establishing a world class marine transportation system, or MTS, that supports the sharing and integration of business data and processes among key public and private stakeholder groups. Like roadway transportation systems, OMR realizes that the development of a long term enterprise solution that leverages and supports integrated asset management systems, as well as GIS and LRS technologies, will play an essential role in the effective management and operations of New Jersey's navigable waterways.

This paper describes the essential location referencing needs for the MTS, and in particular, the Waterway Linear Reference System (LRS). More specifically, this paper will provide an overview of how the Waterway LRS and GIS are foundational components of an MTS, describe the criteria for developing the WLS baseline and location reference methods, and outline the recommended approach to implementing the Waterway LRS.

Bio(s):

Tom Ries has 26+ years of experience in planning, design, and implementation of enterprise-class location reference systems, primarily for DOT agencies. Tom has an MS in Cartography/GIS from the UW Madison and a BS in Math from Illinois State University.