

4.3.1

The Massachusetts Route Log Application

Presenter

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Linear referencing has long been used by the Office of Planning at the Massachusetts Department of Transportation to aid in planning highway maintenance, traffic, and regulations. This presentation will provide a detailed overview of how linear referencing was applied within the context of a unique application called the Massachusetts Highway Route Log Application (MRLA). MRLA removes the need for the endless amounts of highway route log books by displaying GIS data dynamically over the internet.

MRLA displays a highway route as multiple strip maps. Each individual strip map page is divided into 3 sections: a map of the page, a straight line diagram, and a linear event data view. The straight line diagram represents point events along a highway route while linear data is depicted in the linear event data view.

The information is presented in a web based application leveraging the power of scalar vector graphics to create a visually appealing tool to view multiple events along a highway route.

Bio(s):

Michael Rutkowski has been an Application Developer and GIS Analyst for over 14 years in the civil engineering industry. He has worked on a wide array of projects such as mobile asset management, urban systems modeling, and GIS for transportation.