

### 3.3.2

## Using Web 2.0 Mapping Engines in Desktop Applications: Opportunities and Challenges

### Presenter

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The Web 2.0 Mapping Engine space is highly dynamic and witnesses more and better APIs and data sources. While most applications that run on top of those engines are Web based, desktop applications can also benefit from them. A desktop application with Web Service integration can offer the best of both worlds: The dynamic APIs and various base data and images offered by the Web 2.0 mapping engines, and the unparalleled performance for intense computing needs present at a desktop environment.

NJDOT TMS2Go 2008 is a Single Executable Application that embeds a searchable Traffic Monitoring System database (Station and count data). Users can also query the station and traffic count information through a map interface that is based on a Web 2.0 mapping engine. This presentation will discuss the decision parameters and processes on desktop versus Web application, and which Web 2.0 mapping engine to use. Techniques on how to support multiple Web 2.0 engines and provide self-patching capabilities will also be discussed.