

### 3.2.2

## Gaining More Insight: Integrating GIS with Primavera Project Management at WVDOT

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The West Virginia Department of Transportation (WVDOT) operational goal for 2009-2010 is to be the "Best in Program Management." To support this goal, a project is underway to implement the Primavera's Enterprise Project Management (P6) solution integrated with Geographic Information System (GIS) technology. Phase I of the GIS integration into P6 is to supply project definitions to a GIS database to represent the history of work done in a particular geography. This will allow the simple integration of the P6 data with other disparate databases in WVDOT and provide management with a clearer overview of data that they are using to make decisions and to see the results of those decisions sooner and in a crisper more comprehensible format. This integration will consist of a batch process that transfers all project information from Primavera to the GIS SQL Server tables on scheduled bases. Phase II of the GIS Interface integration consists of a web application that will be used by WVDOT users who initiate projects using Primavera to retrieve needed information from the Road Inventory Log (RIL). After the creation of a project in the P6 web application, the user will use the GIS application to identify the road segments and structures (e.g. bridges) in the RIL using geospatial information (e.g. routeid, milepost, etc.) to retrieve the needed information related to the newly created P6 project and transfer the data synchronously upon demand by the users.

The overall scope of this WVDOT project will include using P6 for managing Programmed WVDOT projects. The project's deliverables will include the installation of the hardware and software necessary to support Primavera; defining and establishing enterprise codes, structures and processes; role-based training of WVDOT staff; automated interface with WVDOT's existing accounting and GIS systems, development of a web-based portal displaying Earned Value (EV) metrics in a dashboard format for WVDOT executives; and a web-based tool allowing for customer viewing of reports and basic data inputs.