

### 7.3.3

#### Components of the Enterprise: GIS, Data, warehouse, Portal Services

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IDOT is developing a one-stop shop for information in support of the business intelligence requirements within the department. The one-stop shop will be the 'go to' store, where business end-users, and possibly the public at large will choose to go when in the market for information. The one-stop shop will ensure that the information accessed will be consistent, complete, accurate, timely and easily accessible.

Before committing to an extensive data warehouse implementation, IDOT is doing a proof of concept (POC) implementation (the POC will be completed in December, 2005) The POC will demonstrate an appropriate subset of a more comprehensive data warehouse, and will be designed for future integration with such a warehouse. The envisioned one-stop shop will not be constructed at one time, rather it will evolve over time from a series of clearly scoped projects, built independently of one another but in accordance with a common architecture to ensure compatibility.

The one-stop shop will synergistically leverage three cornerstone technologies:

- **Microsoft's SharePoint Portal Services:** SharePoint is the centerpiece of the one-stop shop. It serves not only as the shop's front door, but provides a proven, rich, solid and extensible infrastructure in support of the overall Business Intelligence Vision.
- **Data Warehouse:** The data warehouse integrates data from various disparate operational systems. Data will typically load into the warehouse (or into constituent data marts) from source systems at regular and timely intervals. The data warehouses contain non-volatile historical information, of sufficient quality and granularity to support a meaningful analysis of business performance and state over time. It will serve to support important business processes by identifying issues, provide the answers to critical questions, support decision making, as well as support ad-hoc reporting, score carding and data mining.

**GIS Systems:** SharePoint and the data warehouse will be integrated with and accessible through IDOT's Enterprise GIS system. IDOT uses the full suite of ESRI software to support its operations.