

PortVantage™

PortVantage™ is a GIS-based Port and Harbor Facilities Management Solution. This decision-support system allows for wide-ranging data related to a facility and the surrounding region to be gathered, processed and managed. By combining the power of computer databases with mapping of the facilities and respective data, the users understanding is enhanced whereby decision-making is ultimately improved.

The system provides a visual management environment. The unique user-interface consists of a GIS-based map of the local/regional area containing characteristic information related to the assets of the area as well as text databases containing wide-ranging information corresponding to these assets. Designed for small to medium-sized port authorities, it has helped provide adequate savings as well. The system is based on four principles:

- * Effective maintenance of docks and facilities can promote safe loading/unloading of goods and commodities
- * Effective management of docks and facilities is essential to ensure safe trade and commerce
- * Effective maintenance of docks and facilities is the best defense against claims involving harbor safety
- * Effective marketing of properties, resident industry, and assets in a port jurisdiction will help attract prospects

PortVantage™ contains the following components:

Inventory Module: Allows port agencies to effectively record data about each facility including its type, GPS location, construction details, emergency evacuation details, and support. The inventory module also allows port agencies to record data for local and regional pipelines. The inventory module allows the user to document case history, import and export data, ship manifest data, details pertaining to legal correspondence, utility costs, bids and more.

Work Order Module: Using PortVantage™ tools, users can identify specific work items and schedule repair and maintenance. The work module documents actions and conditions of facilities and assigns crews for maintenance, which enables a facilities budget preparation and aids in prioritizing the maintenance projects.

Security Module: Contents of a cargo and facility can be identified through utilizing the Import/Export Data and Ship Manifest features. Alert codes can be assigned to specific shipments after processing them against Homeland Security criteria provided in the application.

Key Benefits and Features:

- * Manage ship manifest data
- * Impact and release forecasting
- * Alpha messaging capabilities
- * Manage import and export data
- * Access to emergency contact information
- * Furnish detailed resident industry information
- * Aids in evaluating Homeland Security threats
- * Emergency evacuation route planning and details
- * Information support of "search and rescue" operations
- * Tools to develop map based comprehensive marketing CD
- * Allow access to global communities and trading partners
- * Gives detailed routing and logistics support for shipments
- * Ability to identify facilities in core plume and/or impact zones
- * Plume forecasting capability for man-made and natural disasters
- * The system is easy to understand and the software is easy to use
- * Integrated ALOHA/CAMEO links with detailed demographic information
- * Provide a venue for port-owned or subsidized properties to be marketed globally
- * Display graphical summaries for precise areas and specified months of the year
- * Weather/threat level and Homeland Security information through real-time data links
- * Supplies support for VTC (Vessel Tracking Control) and integrates with current port operations
- * Provide support for EDI (Electronic Data Interchange) operations to seamlessly integrate suppliers, shippers and clients

Advantages To Using A GIS-Based Approach:

- * The GIS-based approach facilitates a very accurate display of dock/facility assets and their respective attributes by using their respective latitude/longitude coordinates in real space, providing for very precise locations.
- * Since the system is map-based, the level of network detail incorporated into the GIS is extremely high. All asset attributes are overt and can be used in marketing, maintenance, and risk assessment calculations. By utilizing the database functionality inherent to this data format, the user can also specify complex impact variable attributes.
- * GIS provides a visual environment for port and harbor facilities operational management and decision-making. This graphical presentation is a reflexive component of the implementation of any decision. All facets of the decision-making process take place in a visual and interactive environment, from preparing the wide-ranging input data to analyzing this data.
- * This method of data presentation relates problem formation and solution in a powerful way. Visually displaying docks, facilities, infrastructure and regional wide-ranging data aids in user understanding and comprehension whereby daily activity planning, marketing activities, emergency planning scenarios and actual incidents can be handled more efficiently and effectively.
- * Since this method of visual data presentation facilitates user understanding and comprehension, decision-making and management is ultimately enhanced. The visual environment provides a means of conveying highly technical information to both port and harbor facility workers and non-practitioners in a very straightforward and understandable manner.

DBS offers all-inclusive consulting and implementation services to assist in data acquisition, data conversion, application development, systems management and ongoing database development and management. Allow DBS to implement [PortVantage™ Port and Harbor Facilities Management Solution](#) for you while providing for future expansion without unnecessary costs.

Other DBSysgraph products that integrate with and compliment [PortVantage™](#) functionality are:

- ERP Pro™ (Enterprise-wide GIS & Application Management Solution)
- E-Alert™ (Homeland Security and Interoperability Tool)
- OrderTrak™ (Work Order Management Solution)
- E-Plan™ (Damage Assessment Module)
- HR Pro™ (Human Resources Solution)