OpenSpatial

# Right Tools. Proven Results.

munsys

## Bridging the Gap Between CAD & GIS

A key challenge faced by many local governments and utilities is the seamless integration of CAD and GIS. Often, the accurate information captured in design drawings is lost as it is transferred to a GIS. Users are concerned about the accuracy and currency of the data. Redundant effort is expended when attempting to synchronize two systems.

The integration that Munsys offers with AutoCAD, Oracle and its adoption of Open GIS standards solves this traditional problem.

Engineers access accurate design information using familiar tools. The identical information is available to GIS applications from ESRI, Intergraph, and MapInfo for analysis and visualization. Munsys provides multi-user access to a single seamless database and enables consistent data standards to be implemented for both CAD and GIS applications.

## AutoCAD Design Foundation

AutoCAD design software is used as a foundation for the Munsys mapping applications.

Using this proven software leverages the investment many customers have made in end user training. It ensures efficient, high precision data capture, display, and printing.

## Administration Made Easy

The Munsys Management Console has been designed to assist in the rapid deployment of every

Munsys solution. This "DBA in a Box" ensures that even novice database users can manage an

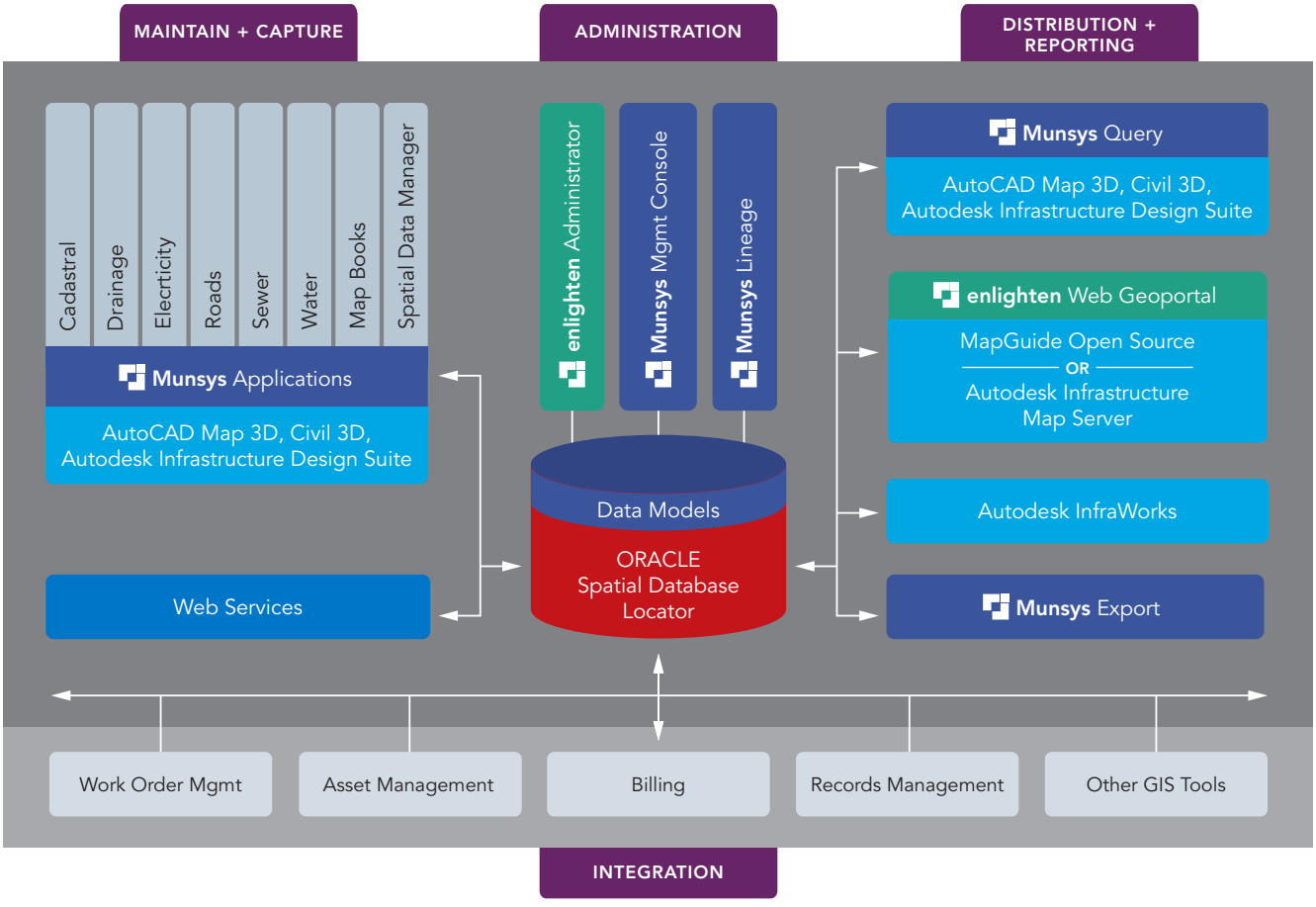
Oracle based Munsys solution. The Munsys Lineage application takes database administration and reporting one step further:

- Administrators can monitor the progress of their asset mapping including spatial and attribute edits using transaction tracking and history.
- Detailed system reports can be generated to assess usage and performance and to determine where additional training may be required.

## Security of Oracle

Both spatial and attribute data captured by Munsys are stored in Oracle tables in an Open GIS compliant format. This design offers a number of significant benefits:

- Proven extensible data models are included "in the box" and used to store all Munsys spatial and attribute data. Customers small and large can confidently start capturing asset information from day one.
- Industry specific business rules incorporated




Munsys provides a family of complementary, proven solutions that solve the asset mapping and management needs of utilities and local governments.

into the Munsys applications ensure that the information posted to the database is complete and accurate.
- Open GIS standards permit other applications and GIS systems to access both the spatial and attribute information captured by Munsys.

## Increased Productivity and Data Integrity

With the Munsys application specific design, the complexities of the system are hidden from the user, allowing for short implementation time and a marked increase in productivity. The high performance together with the specialized applications further saves time and resources, while the ease of use alleviates the need for ongoing support and training.

The system is managed centrally, allowing for better control of data standards and eliminating islands of information. Data integrity is vastly improved by adhering to pre-defined business rules and data security is enhanced by defining user privileges in the database.

Munsys customers typically report a 30% to 60% increase in productivity within the first month.

## Web Deployment Made Easy

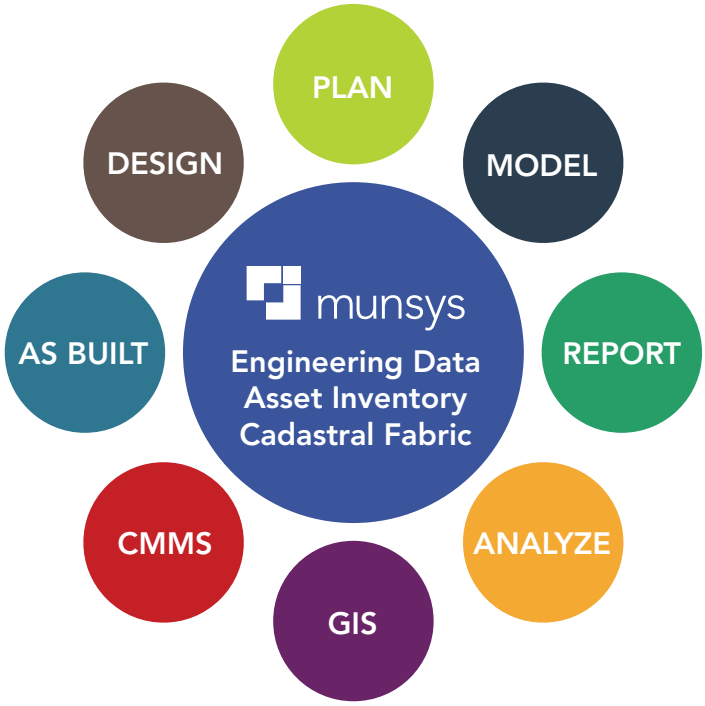
- Placing your asset data on your intranet moves critical information out of the drafting department and into the hands of end users where it is needed. **enlighten** automates the process of creating and rapidly deploying powerful web applications. Attribute and spatial data are published, in real time, directly from your Oracle database to web browsers connected to your network in the office and the field.

## Proven Enterprise Integration

Locating your assets is important but it is only one part of an integrated asset management system.

You need to link your location information with your maintenance management application, to your customer information system and to your financial systems to achieve a maximum return on investment.

**Because of its integration with Oracle**, Munsys asset mapping data has been seamlessly integrated with numerous maintenance management and financial systems running on various platforms.



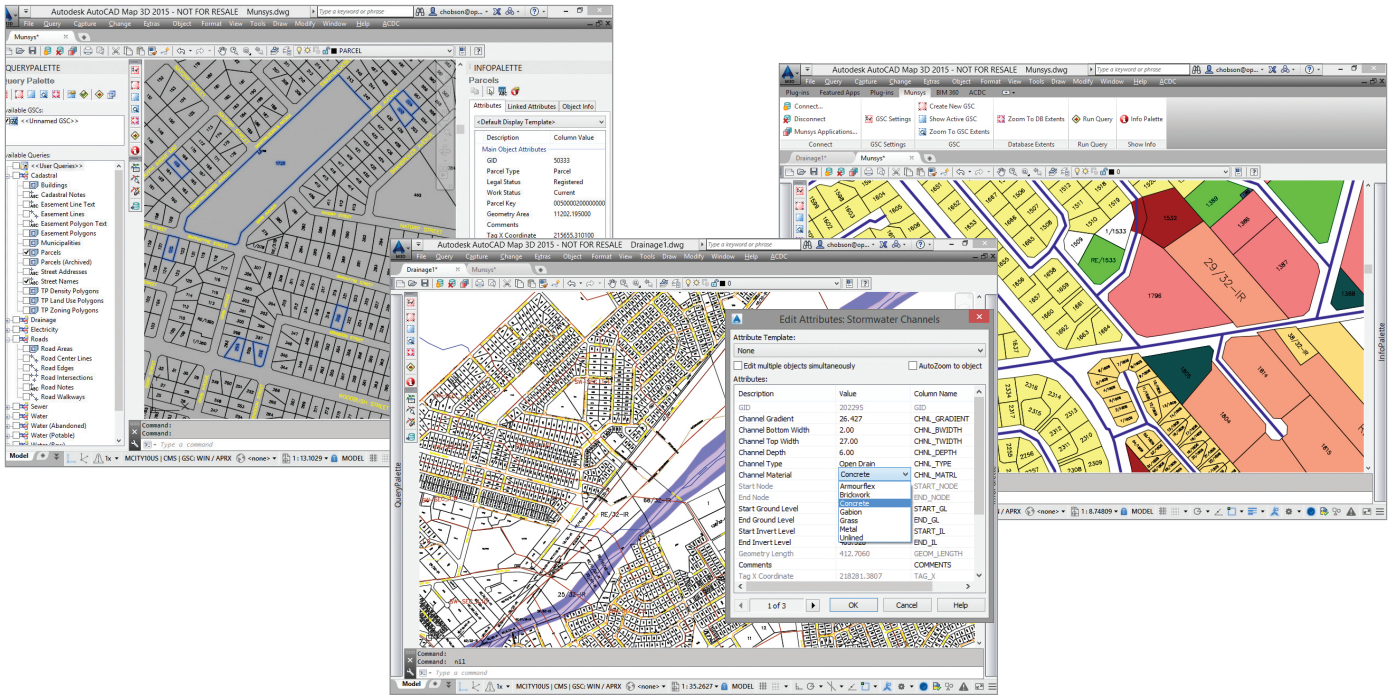

Munsys complements existing systems by allowing different applications to share the same high quality information without data duplication. This open design allows our customers to choose best of breed applications from different vendors.

## Rapidly Deployed

Asset managers typically expect long implementation times. Munsys implementations have demonstrated rapid deployment with customers world wide.

If your engineers and drafters are trained on AutoCAD, you can expect to have them fully operational on Munsys in two to five days, depending on the number of applications implemented.

If you have pre-existing digital data you can expect to see your data migrated to Oracle in less than 90 days.




The Open Spatial solution suite addresses key organizational needs for integration, system administration, asset management, and web distribution. Support and training needs are dramatically reduced by utilizing applications that directly addresses each department's requirements.

## Open Spatial Geospatial Suite

Open Spatial provides geospatial engineering solutions for managing spatial data from survey through design, construction and data management. Our technologies are based on risk averse ubiquitous platforms that bridge the gap between CAD, GIS, BIM and asset management applications. Utilizing open standards and engineering best practices, we deliver fit-for-purpose solutions with a focus on productivity improvements, definable return on investment and long-term savings.

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| munsys | Edit in AutoCAD Map, Civil 3D, store data in single database<br>Multi-users, off-the-shelf applications and data models |
| enlighten | Web-based, geospatial portal and business intelligences integration platform |
| acdc | Automate the validation and loading of data from electronic submittals of as-builts directly into GIS and CMMS |

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