



## **Utility GIS Eco-System**

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### **Abstract:**

Power Utilities need to share their network details with others in a manner that is useful, accurate and secure to prevent damages to urban resources as well as wasting money and human resources. Organizations need to share a standardized set of geospatial data in a unified comprehensive network and develop methods to discover, access and use of this information in a timely manner. To share spatial data and have access to recently updated information of other organizations, several things need to happen simultaneously. One of the key things is standardisation of specification and the data models so that each of the systems can perform in an eco-system. Another important aspect is evolving and adhering to a GIS discipline which ensures reliability of the information in each of the systems. As long as syntactic and structural heterogeneity are handled by various methods, semantic interoperability will be a critical factor in data sharing. Further, many current Internet GIS applications cannot be shared and are not interoperable because of their heterogeneous environments. With the growth of Internet GIS, many difficulties have occurred in integrating GIS components because of their diversity. TCS has been focussing on these areas to define standards and specifications for “Spatial Data Infrastructure” and suggest models for dynamic and interoperable Internet GIS applications.