

Testimonial

"The MEMS solution replaced a number of outdated local systems that were being used within TransGrid. Through consistent processes and recording of information, staff at all levels will have a complete view of asset condition and easement issues relevant to their work. Our MEMS Project team deserves a thank you for the great work they've done in getting this initiative off the ground."

- Transtalk, July 2009

Background

TransGrid is the owner, operator, and manager of the NSW high voltage network connecting generators, distributors, and major end users in NSW and the ACT. A team from we-do-IT was selected to implement a Smallworld Field to office solution for use by transmission line maintenance staff, which will interface with the asset management system (Mincom Ellipse) and the GIS (GE Smallworld).

The Challenge

The TransGrid transmission line network is over 12,000km. The challenge for TransGrid was to provide field staff with information drawn from the corporate systems about transmission line towers and poles, access tracks, property owners, endangered species, inspections and defects. At the time, staff utilised PDAs and a variety of PC and paper based systems to manage this data outside the office. The new system was required to enable work in remote areas in disconnected mode, using a map-based format, and then enable an easy update to the corporate systems when staff returned to the office. Training for all levels of staff impacted by the business processes and procedures was also required to ensure maximum user acceptance and efficient hand-over to the new system.

Our Solution

The Mains and Easement Management System (MEMS) was developed using ERDAS ADE and Oracle Spatial software, interfacing with GE Smallworld and Ellipse. This included provision of systems and processes to ensure capture of mains and easement data into corporate data repositories, provision of mains and easement GIS data to field staff, data validation of mains and easement data in the field, end to end data management of the "as built" high voltage asset base and replacement of field data collection devices.

Benefits

- TransGrid's MEMS, delivered on time and in budget, had quantifiable and intangible benefits for the business (December 2009)
- Delivery of a system that is simple and easy to use with minimal user training
- A low cost solution with powerful features that saves significant time in capturing field information
- Requires minimal software maintenance costs and enables better decision making through accurate information on assets.

For further information:
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