

adjust.IT

The Efficient Path to an Accurate Network Plan...

By implementing we-do-IT's adjust.IT program Helix Water was able to complete their adjustment project in a shorter timeframe, using 50% less labour and without freezing the database for long periods of time. Helix continues to derive ongoing benefits as the business overhead of inaccurate network and landbase information has been removed.

During the past 15 years, we-do-IT has worked with a number of utilities across Australia, New Zealand, North America and SE Asia, including Energy Australia, Helix Water, and Piedmont Natural Gas who provide essential services to their communities.

Benefits our customers have realised from improving the spatial accuracy of their network information;

- ✘ Ability to use spatial information from other sources (for example GPS, aerial photography and census data). Previously this was not possible as the existing network information did not align with the new, more accurate, spatial information.
- ✘ Accurate location of supply points within land parcels. This enables automated address geocoding and validation. Accurate spatial information for customer supply points is also useful in deployment and management of Smart Meters.
- ✘ Reduction in ongoing data capture costs as new landbase information is no longer "made to fit" the old and inaccurate landbase.
- ✘ Reduction in number "truck rolls" to locate underground infrastructure. Underground plan requests are typically satisfied using buffers to identify where a pipe or cable is likely to be. Increased accuracy of network and landbase information allows utilities to reduce the size of these buffers and therefore avoid unnecessary physical cable locates.
- ✘ Significant reduction in labour when compared to the manual realignment of the network. The adjust.IT Product provides a project management framework and automates key aspects of the project. This allows us to complete the adjustment projects in shorter timeframes while requiring less manual labour.
- ✘ Phased delivery of adjusted data which allows realisation of business benefits early in the project.
- ✘ Mitigation of risk of cable breaks through increased spatial accuracy of cable and pipe locations. This includes risk of injury to employees and contractors and risk of network outage.



Quality
ISO 9001

SAI GLOBAL

we-do-IT®

adjust.IT Product Features;

Automation of adjustment. This significantly reduces the manual labour associated with traditional rubber sheeting approaches.

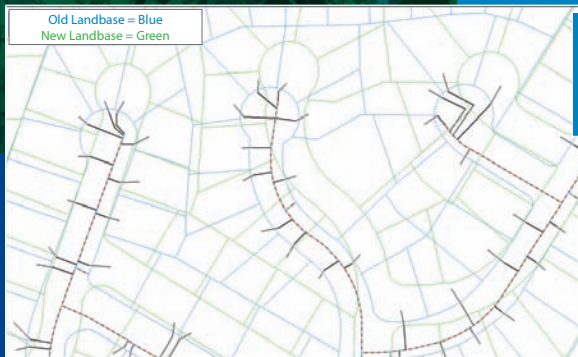
Project Management. The area to be adjusted is divided into adjustment Jobs which are then managed in a job lifecycle from initiation to delivery into the production database. This aspect allows accurate measurement and scheduling of adjustment activities.

Rules based adjustment. The adjustment of assets can be controlled through rules such as maintain T-offs at 90 degrees. This ensures consistent adjustment of assets throughout the service territory.

Reporting and Audit History. A complete record of the location of assets and how they were shifted is maintained in the database.

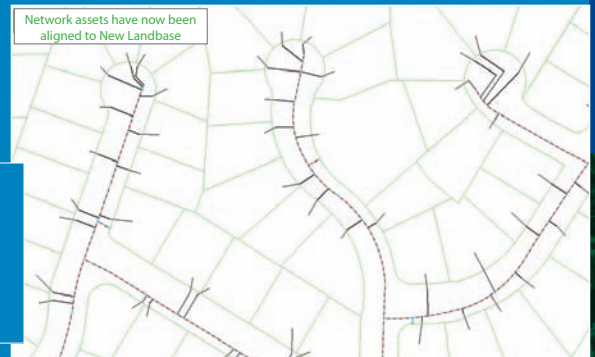
Avoidance of Database Conflicts. If you have completed a data capture project with Smallworld GIS you will be aware that conflict management and avoidance is a key challenge. We can adjust massive volumes of data and not generate a conflict. This is critical for successfully merging adjusted data with other users changes.

Short duration 'Micro' data freezes of the GIS. We understand that you cannot lock out large sections of the GIS for months or even weeks at a time. We have developed a process where the database freeze for the area being adjusted is normally 3 days.



The new landbase did not align with the original data, leaving the water assets out of place.

In the adjusted data, the original water assets have been shifted to align with the new landbase while the original network shape has been preserved.



“For Helix, the main benefits of automated adjustment are:

- Minimal training required for GIS operators to use the tool and operate the adjustment process
- Labor cost savings
- Minimal impact to end users as the data does not have to be inaccessible for long periods of time.

If there is anything we would do differently, it would be to spend more time scrubbing our data.”

Quince Lunde
Helix Water District

Customer Success Story

Client Helix Water provides quality services for 260,000 people in a 50-square-mile area of sunny Southern California. The Helix service area includes several suburban municipalities east of the city of San Diego. Helix implemented their GE Energy Smallworld GIS in 1999 with the primary objective to better manage its water system assets.

Problem Acquisition of new, more accurate landbase data has led to a misalignment of the existing network assets over map data. Initially, manual methods were attempted to realign the network and assets. However, this was found to be time-consuming, expensive and inaccurate.

Solution Helix determined that they needed a way to automate the process of realigning assets with map data. They wanted an adjustment tool that works within Smallworld GIS and preserves original shape of the network after the adjustment.

Helix selected adjust.IT and undertook a pilot project which verified the expected benefits of utilising the adjust.IT software and we-do-IT approach.

Result More accurate asset information is now available to the users, including business unit managers leading to fewer data discrepancies, reduced maintenance expenditure, and more efficient works programming.

For more information about adjust.IT contact:

HEAD OFFICE: we-do-IT Pty Ltd, Suite 404, 167-169 Queen St, Melbourne VIC 3000
Email: info@we-do-IT.com
Tel: +61 3 8681 0400
www.we-do-IT.com

we-do-IT®