

COMPANY: Cardno Forbes Rigby
 ADDRESS: 278 KEIRA STREET
 WOLLONGONG, NSW 2500

CONTACT: PETER SHOEMARK
 PHONE: +61 2 4228 4133
 FAX: +61 2 4228 6811
 WEB: www.cardno.com.au

Cardno Forbes Rigby is an Illawarra-based consulting practice providing professional services in a wide range of applications relating to civil engineering, structural engineering, environmental and spatial sciences and town planning.

Cardno Forbes Rigby has extensive experience in the Illawarra and in adjoining areas, and has always been at the forefront of technical innovation and modern analytical methods.

We enjoy a reputation of being able to tackle the more complex tasks and providing a value-based service to our clients.

In 2006, the business merged with leading national consulting firm Cardno Ltd, a publicly listed multi-disciplinary consulting engineering and management business, to form Cardno Forbes Rigby.

We thus now also have access to a global network of industry professionals, including internationally renowned discipline leaders in specialist fields.

The main project focuses at CFR are Civil Engineering and Town Planning

spatial data share

spatial

Over the years Cardno Forbes Rigby has had a keen interest in innovative spatial technologies. The Wollongong 3D Central Business District Model, though invaluable, was proved to be difficult to share among those without Autodesk or ESRI products except through use of AVIs.

The team figured that there were substantial benefits to be had with sharing spatial data within the organisation and state, and looked into MapGuide Enterprise in 2007 at the Spatial Science Conference in Hobart, TAS.

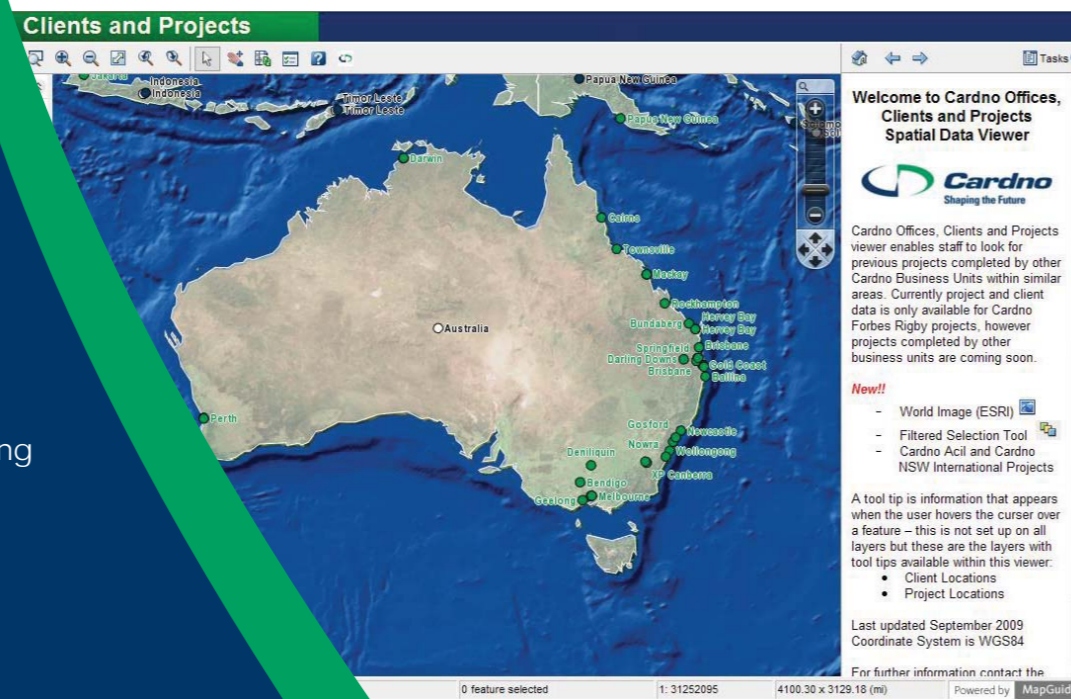
Since then, the idea has gathered significant support across Cardno and Cardno Forbes Rigby ventured into a WMS (Windows Mapping Service), using Autodesk MapGuide Enterprise, and MapGuide Studio 2009 base tools.



The interface includes predominantly out-of-the-box functionality including custom searches, and an invoke URL to create a feedback form with which the user can ask for support, contact us with feedback or subscribe to be notified when CSDS is updated.

Custom HTML pages have been generated for the Home Pane and Help Documentation to allow almost all information to be available through the web viewer. Some layers are being linked directly to ArcSDE however other larger layers are contained as SDF files within the application to increase speed. User can also Print to DWF, giving them the flexibility to generate simple maps to use in reports and other documentation.

From this stepping stone Cardno plans to implement replicated systems on a 'by state' basis throughout Australia and is looking to receive real financial gains through better data management methodologies.



The concept of this project is to create a Spatial Data Store that will enable staff across all Cardno NSW Offices to query and view spatial data that is available to them for use in their projects.

The CSDS has two key components, a spatial database running on ESRI ArcSDE (SQL Server) and a web client using Autodesk MapGuide Enterprise 2009.

All Cardno NSW Offices jointly purchased statewide Topographic and Cadastral data from Geosciences Australia, NSW Department of Lands (LPI) and ACT Planning and Land Authority.

Not only does the CSDS save money on the purchase of data but it has also been developed as a method of saving time, whereby Cardno staff across NSW can quickly identify if there are for example, 2m contours available for their study area, instead of spending the time contacting other business units or government agencies to find out what data is available.

The CSDS web viewer allows the user to query suburbs, local government boundaries, major watercourses, national parks and cadastre to locate their area of interest and examine the data.

