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# ASX DEBUT

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## Cardno set for growth after ASX debut

Cardno clients can expect even higher levels of service after the company's highly successful May 20 debut on the Australian Stock Exchange.

The initial public offer raised \$4.5 million, positioning the company to fund global growth plans through mergers or acquisitions in Australia and overseas.

In recent years, Cardno's acquisition strategy has spearheaded the company's growth in new geographic regions and added new capabilities to meet client needs.

Cardno shares began public life at a 48 percent premium to their \$1 issue price, starting and ending the first day of trade at \$1.48 with more than 1.2 million shares changing hands.

The share offer, representing 12.7 percent of the company, met with a strong response from Cardno employees, who took up 30 percent of the stock. More than 50 percent of Cardno employees now hold shares in the company – proof of strong ongoing loyalty to the company.

We look forward to delivering strong results to our shareholders and are confident our transformation into a public company will result in strong benefits to our clients as well.

## New project in Sri Lanka

The signing of an agreement earlier this year has seen Cardno MBK International enter its fifth project to upgrade the Sri Lankan provincial road network.

Working for the Ministry of Home Affairs, Provincial Councils and Local Government, Cardno MBK International will take responsibility for rehabilitating secondary roads in the North Central, Western, North Western and Uva provinces.

The four-year agreement, which encompasses civil works, equipment, consulting services and training, will also see Cardno strengthen the road network capacity of four provincial road agencies in order to create sustainable operations and maintenance.

Cardno will also rehabilitate 936km of roads, 121 bridges and 40km of community roads.

The agreement follows Cardno's successful completion of project preparation feasibility studies, undertaken in 2000 through an Asian Development Bank Technical Assistance Study.

### ED VOWLES

Brisbane office (07) 3369 9822



*Outgoing Chairman,  
Dick Kell.*

## Long-standing Chairman steps down

Successfully listing Cardno on the Australian Stock Exchange was Chairman Dick Kell's final gesture before formally resigning.

Dick, an integral part of Cardno for the past 44 years, was appointed Chairman in 1999. He was instrumental in growing the company from a small private firm to a listed international business with a market capitalisation of \$55 million.

Dick, who was succeeded on July 1 by Cardno non-executive director John Massey, will remain on the Board as an executive director and continue his key operational role as Director of the International Division.

John's career as a chief executive has spanned many different industries and in 1997 he became a professional company director.

He joined the Cardno Limited Board in December 2003, prior to the listing process.

John is currently chairman of Ventracor and AV Syntec, and a director of Dairy Australia and the KR Castlemaine Foods group. He is also a national director of the Australian Institute of Company Directors and a former president of the institute in Queensland.



*Incoming Chairman,  
John Massey*

## Sydney structures growing

**Project:** Knox Grammar School – Preparatory and Infants Schools

**Client:** Knox Grammar School

**Construction Cost:** \$5 million (approx.)

Construction of the two storey building is nearing completion and expected to be ready for occupation shortly. The building is of brick construction with a suspended concrete slab. The design of the building is based on the architecture of the existing surrounding heritage listed buildings and required detailed engineering design to replicate the generations old construction forms with current structural materials.

A full height glass facade on the southern elevation required complex engineering analysis.



Above: Construction on the Knox Grammar School

**Project:** Alto BMW Pennant Hills

**Client:** The Alto Group

The recently completed construction of the state-of-art two storey office, showroom and service centre opened to the public in April. The structure is a landmark on

Pennant Hills Road and is part of the continuing innovative work with the Alto Group.

The first floor is a large post-tensioned slab with various steps and falls which required detailed engineering to simplify the formwork and construction.

**Project:** Alterations and Additions to the TAB Head Office, Ultimo

**Client:** The TAB

**Construction Cost:** \$18 million (approx.)

Also recently completed was the refurbishment works for the TAB Head Office. Cardno MBK carried out extensive investigations into existing buildings dating from 1912. The design and documentation of structural modifications to the existing steel, masonry, timber, and concrete buildings including accesses for BCA compliance.

**Project:** Transgrid Substation, Haymarket

**Client:** Transgrid

**Construction Cost:** In excess of \$50 million

The NSW Structures Business Unit designed the documentation for the 330 kV Substation at Haymarket for Transgrid. The construction was undertaken by Walter Construction Group. This complex, largely underground structure was designed to carry a future fifteen level office tower. The highly complicated structure required challenging and innovative solutions to the many on site RFIs.

**DOUG MCMILLAN**

Sydney office (02) 9496 7700

## Services expand to sporting facilities

With the recent merger with Young Consulting Engineers, the Cardno group can now offer its Australian and international clients significant engineering expertise in designing and delivering sporting facilities.

The company has built an enviable international reputation for high profile national and international sporting venues.

To its credit is a significant role over eight years in the lead-up to the Sydney Olympics, as consulting engineers for the world-class Stadium Australia, as well as playing fields for athletics, baseball, softball, hockey and football.

Other projects have included redeveloping Brisbane's major sporting fields of the Gabba, ANZ, Suncorp and Ballymore stadiums.

Now known as Cardno Young, the company has retained its 60 staff across offices in Sydney, Canberra, Melbourne and Brisbane, and is anticipating expanding its services to a wider international market.

**RAY YOUNG**

Canberra office (02) 6285 4566

Below: Stadium Australia – Homebush, Sydney



## Guiding water and sewerage planning

Cardno MBK is updating sewerage and water supply guidelines that will set the standard for more than 120 urban water service providers – and 3 million consumers – in Queensland.

Commissioned to update the guidelines by the Department of Natural Resources, Mines and Energy, Cardno's work takes into account the significant changes that have taken place in the industry since the current guidelines were published more than 12 years ago.

Included in the revised guidelines is an emphasis on integrated system planning that incorporates water, sewerage and stormwater, rather than detailed design.

It focuses on the planning process, highlighting not only where the lowest lifecycle costs can be gained but also the wide range of infrastructure and 'non-asset' solutions available to meet social, community and environmental needs.

The draft guidelines, developed in partnership with a reference group of local government service providers, will be completed within a few months.

### **ANEURIN HUGHES**

Brisbane office (07) 3369 9822

## Cardno continues on growth path

The Cardno Group's latest merger with two leading engineering firms – Young Consulting Engineers and Alexander Browne Cambridge – further extends the company's 'one stop shop' of services.

Young Consulting, now known as Cardno Young, opens up further operations for Cardno in Sydney and now Canberra.

The company, which was founded in 1982, has grown to a staff of more than 60 and developed a strong reputation in land development, feasibility studies and budgeting, transport infrastructure, airport engineering, hydraulics and hydrology, sporting facilities and building hydraulics.

Alexander Browne Cambridge, now known as Cardno Alexander Browne, has operated in Brisbane since 1934 with a highly regarded practice in civil, structural and planning services for institutional, commercial, community and industrial buildings.

Since 1991, the company has been responsible for the engineering design of 80 percent of private hospital development in south-east Queensland, with projects totalling \$1.5 billion.

Landmark projects include the clinic block at Mater Private Hospital and the restoration and renovation of Customs House.

*Left: Ray Young, Director Cardno Young and Andrew Buckley, Managing Director.*



## Calypso Bay forges ahead

One of Cardno MBK's longest-running projects has reached a new milestone, with stage two of the \$275 million Calypso Bay canal development now completed.

The marina and entry road – including relocating 100 mature palm trees – will also be completed this month, and the first 100 subdivision lots are expected to be finalised later this year.

Calypso Bay, about 40 minutes south of Brisbane, has been a significant project for the group for the past 13 years.

Cardno's involvement, in partnership with the client, Roche Group Pty Ltd, has included designing and project managing significant parcels of the 800 lot development.

As well as the development milestones, Cardno is also focusing on major infrastructure requirements to service the development, including an 11 km trunk water main.

### **JAMIE ALONSO**

Brisbane office (07) 3369 9822





## Cardno extends role to central Asia

The recent signing of a new contract with the Asian Development Bank has seen Cardno's projects in Central Asia extend to the government of Tajikistan.

Cardno's services to the Ministry of Transport will fall into three components – sector and institutional studies, policy initiatives, and institutional development and capacity building.

Through the studies, Cardno will review the current status of the country's roads and develop guidelines for investment targeted at projects encompassing road maintenance, operations and management, financial accounting and technical design standards.

Policy initiatives will include reviewing and updating the government's transport sector policy, assessing how existing road maintenance financing can be made more transparent, and moving investment funding towards cost recovery and commercialisation.

Finally, the institutional development and capacity building phase will cover seminars and workshops, and introducing analytical approaches and software to improve efficiency in planning, evaluating, prioritising and financing the roads investment program.

Tajikistan is the poorest of the Central Asian states that were formed with the break-up of the former Soviet Union in 1990, and has been beset by several years of internal civil war.

As a result, significant international funding assistance is being directed towards the region.

### ED VOWLES

Brisbane office (07) 3369 9822



## Cardno cleans up environment

Cardno's planning, design and construction of a new sewage treatment plant in Central Queensland will strike a positive blow for the local environment.

The plant, for Livingstone Shire Council in Yeppoon, will replace the existing facility, which is at its design capacity and only a kilometre from the town's CBD.

With the increased development of the town and the realignment of the main road to the Capricorn Coast, the existing site no longer meets environmental standards.

The Yeppoon project has involved multi-disciplinary input from Cardno's water, supply and sewerage, environmental and structural design groups.

Originally, Cardno MBK prepared an overall sewerage strategy, recommending a new treatment facility be built 5km from town that would expand the town's existing reuse infrastructure.

Since then, the group has been engaged to prepare a planning report for the new scheme and supporting documentation for Council's application for State Government funding.

This year, Council awarded the construction contract to Queensland Concrete and General Constructions, with Cardno MBK as superintendent to the contract.

The new plant will have an initial capacity of at least 21,000EP, with sufficient area to double its capacity in the future. It will deliver an effluent that is low in nutrients and able to meet the highest standard for reclaimed water.

Construction of the new plant is expected to be completed mid-2005.

### ROLF REES

Brisbane office (07) 3369 9822

*The Proposed Riverside development*

*\*Image courtesy of Planpac International Pty Ltd*



## Novel approach to student accommodation

A new concept is emerging in university accommodation in north Queensland, thanks in part to the input of the Cardno MBK Townsville office.

In conjunction with James Cook University of North Queensland, Cardno MBK has provided concept design, statutory advice and detailed civil and structural design to create 132 self-contained apartments for students.

The privately-owned accommodation precinct, part of the new retail centre of Riverside Gardens being developed by Delfin Lend Lease, is adjacent to the university campus, and has nearby facilities of a child care centre, tavern and eateries.

Within the student complex – which includes buildings ranging from single to three-storey constructions – are four-bedroom apartments with private ensuites.

Shared facilities include a lap pool, gymnasium and a function room.

Annexed to the development is a further set of 40 serviced apartments, which will provide short-term accommodation for students' parents, visiting university staff, Department of Defence and Queensland Health staff, and the general public.

### **PAT BRADY**

Townsville office (07) 4772 1166

## Preferred supplier for Queensland local governments

Cardno has again been appointed by Local Buy as a prequalified supplier of Engineering Consultancy Services, allowing councils across Queensland to engage Cardno's services without a formal tender process.

Specific categories where Cardno has been selected include:

- > Acoustics
- > Asset and risk management
- > Geographical Information Systems
- > Geotechnical
- > Hydraulic and hydrology
- > Infrastructure
- > Integrated data management systems
- > Marine structures
- > Presentation mapping
- > Project management
- > Quarrying
- > Roadworks and drainage
- > Subdivisional design
- > Structural engineering
- > Traffic engineering and transportation planning
- > Water resources
- > Water infrastructure
- > Wastewater infrastructure.

Cardno's senior engineering staff are all experienced in meeting local government needs and have extensive expertise in local government work.

As a result, all Cardno services can be tailored to the needs, constraints and priorities of each council client.

To access Cardno's services under Local Buy, contact a Cardno office or refer to the discipline contact list on our website at [www.cardno.com.au](http://www.cardno.com.au)

### **MICHAEL RENSHAW**

Brisbane office (07) 3369 9822

## Gold Coast constructions taking shape

Cardno MBK's Gold Coast structural team has been hard at work with two significant projects now under construction.

The Outrigger Resort at the \$750 million Salt project, developed by the Ray Group, has involved structural design of the resort's key focal point, a three-storey building with a floor area of about 45,000 sq m.

The resort, which is expected to open around Christmas 2005, has also seen the Gold Coast office's civil services team working on the project.

Meanwhile, Cardno's work on Byron @ Byron commenced in early 2003, and the design of the third stage is now under way.

When completed, the resort will have 92 one-bedroom units and central facilities with a conference centre, health spa, restaurant/bar and entry lobby. It is being developed by Gerry Harvey, of Harvey Norman fame.

Faced by difficult site conditions, Cardno MBK has been heavily involved with the contractor to ensure the design intent is implemented during construction.

### MARK RICKETTS

Gold Coast office (07) 5539 9333



## Group extends services to transport modelling

Cardno's transport modelling services are reaching the breadth of Australia, with the group undertaking a traffic and parking study in Alice Springs and a town centre transport strategy for the Sydney Olympic Park Authority.

In Alice Springs, the group's extensive parking inventory – including turnover and length of stay surveys – will help to develop a new parking strategy and contributions plan. The study will also address traffic circulation, pedestrian facilities and tourist coach facilities.

And, in the light of accelerated post-Olympics growth in the Sydney Olympic Park town centre, including major sporting and cultural events, Cardno's specialist services are being used to address traffic movement, public transport, and pedestrian and cyclist movement.

The group uses state-of-the-art modelling software, PTV Vision, which can work in a Windows-based environment. Services range from full multi-model strategic transport planning through to the micro-simulation of individual transport elements.

### BRIAN ADAMS

Sydney office (02) 9496 7700

## Driving ambition

One of Cardno's leading asset management innovations is setting its ambitions higher: Tree height, in fact.

DRIVE, Cardno's advanced digital video asset data and management system, was originally designed to rapidly capture roadside assets and pavement conditions.

Since its inception, though, it has attracted widespread interest across local government and utility clients for its ability to collect geo-referenced spatial data at an affordable cost.

Now, in a pilot project between Cardno's asset management and environment divisions and Brisbane City Council, it's being used to help the council audit its extensive street tree network.

DRIVE uses an advanced road data capture vehicle to collect specialist data – including the geospatial position of street trees and attributes including species, width, height, tree significance, clearance from overhead wires and pruning needs.

It allows the council's arborists to rapidly collect accurate and auditable information that is available visually, spatially or texturally.

**ANEURIN HUGHES**  
Brisbane office (07) 3369 9822

# DRIVE

## Milestone achievements

Cardno's Gold Coast and Brisbane engineers have risen to significant challenges set by developers of a large master-planned village during the past year.

Although Cardno has been principal consultant in the Coomera Waters Village and Repost since its inception, the past year has seen the Gold Coast office tackle a daunting workload of designing more than 450 dry, canal-front and community title lots over 10 stages.

In keeping with the demand and vision set by the developers, Austcorp, Cardno has incorporated leading-edge features in its design. These include vacuum sewers, 'hybrid' smart sewers, dual water supply with recycled water reticulation, stormwater quality treatment devices and a range of innovative pavement treatments.

Apart from civil design and supervision, Cardno expertise at play on the Coomera Waters project has included structural engineering, environmental engineering (including management plans), water quality monitoring and reporting, and ecological monitoring.

**MARK RICKETTS**  
Gold Coast office (07) 5539 9333

*Right: Aerial view of Coomera Waters.  
Photography by Tom Anthony.*

## Award-winning work

Work by Cardno CCS on the exclusive Sea Temple chain of resorts and spas in North Queensland has already contributed to a UDIA Far North Queensland excellence award.

The chain, to be developed by Juniper, has required Cardno to supply structural design for buildings and a 4000 sq m lagoon pool.

Sea Temple Port Douglas, the first of the chain, offers 128 apartments and villas on 10 acres framed by coconut palms, lush natural rainforest and beachfront.

This year, Cardno CCS are now extending their services beyond the now-completed design phase to inspecting construction.

**MARK PERRY**  
Cairns office (07) 4033 2995

