

**Your intelligent transport solutions**



**Downer**  
Relationships creating success

**“ Experience  
and innovation  
drive industry  
leading solutions”**







## Intelligent Transport Solutions (ITS)

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Downer utilises leading technology to aid and improve safety and efficiency for transport networks across Australia and New Zealand. We are a market leading provider and integrator of technology-based transport solutions and a recognised industry leader in both the construction and maintenance of ITS field assets.

We are shaping the future of the industry by offering full service traffic solutions, providing road users and commuters with the information they need to reach their destinations safely and with minimal disruption to their journey time. Our expertise and experience ensure that we deliver optimal solutions to your safety and travel demand requirements.

At Downer we work closely with our customers to understand their specific needs and utilise technology best practice to deliver solutions.

**Our industry experience, knowledge and supplier relationships allow us to bring our Customers, the latest products and systems.**

As an experienced provider of electronic ITS systems, Downer supplies, installs, and maintains a range of technology based systems. These include electronic signage, variable message signs, surveillance/red light cameras, ramp signals, traffic signals, traffic counters, lane control signals, vehicle occupancy systems, weigh in motion systems, and more.

Through the use of Active Traffic Management Systems (ATMS) our customers recognise:

- proven expertise and capability in the planning, construction, integration and maintenance of ATMS systems;
- a strong focus on safety, with an excellent safety track record;
- a team committed to providing innovative improvements to active traffic control infrastructure;
- supply of leading edge traffic technology products;
- scale – extensive Trans-Tasman operational, technical, and management personnel;
- 24-hour emergency response; and
- outstanding customer service.

## Our Capabilities

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### Expertise across roads, rail and light rail.

#### Electronic Signage

Downer has supplied and installed a wide range of different types and styles of electronic signage from full size motorway variable message signs through to school warning signs.

We currently maintain ITS assets for road authorities across Australia and New Zealand, covering over 50% of the Australian and New Zealand populations.

#### Closed Circuit Television (CCTV)

Downer designs, integrates, installs, and maintains complete end-to-end CCTV solutions, used across all modes of transport.

#### Traffic Signals

Downer installs new traffic signals across Australia and New Zealand, including conventional traffic signals and ramp signals. Additionally we have long term contracts to maintain traffic signals.

#### Street Lights

Downer is a leading streetlight installation and maintenance contractor supporting power authorities as well as designer and integrator, road authorities and municipalities across Australia and New Zealand. Our focus on Smart Street Lighting has made us a market leader as we upgrade our cities and towns.

Our solutions are vendor agnostic and we focus on:

- high reliability;
- high visibility and great night- time colour recognition;
- very low power consumption, with the option of solar;
- wind powered lighting; and
- minimal maintenance requirements.

With a commitment to providing customers with the most up-to-date, innovative product range, Downer has successfully installed multiple types of smart LED street lighting, including solar powered products and “smart lights” with sensors to add value for Smart Cities.

#### Managed Motorways

Downer has capability and experience across all aspects of design, implementation, operations, and maintenance of managed motorways, including network, variable speed signs, variable message signs, ramp metering, vehicle detection and occupancy systems and more.

#### Rail Signaling and Rail Communications

Downer has extensive experience in rail signaling and rail communications. We have experience across all major technologies and work with all major vendors.

Delivering car parking guidance systems for on street and off street parking, our solutions use a variety of technologies, such as cameras or sensors to detect free parking spaces. We also deliver dynamic directional signage advising drivers of vacant car spaces.





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**Downer has partnering agreements with many major manufacturers and works in collaboration across industry.”**

## Communication and Ticketing Systems

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**Our experience in building both the NBN in Australia and the UFB in New Zealand brings leading telecommunications know how to transport networks. Downer is a leading provider of ticketing solutions to public transport authorities.**

### Communication Installation

Downer designs, builds, owns, and operates backbone communication networks on major motorways and highways across Australia and New Zealand.

Our experience across fibre, copper and radio frequency (RF) technologies means we are able to provide complete end to end solutions and ensure the best suited technologies are used.

We have upgraded existing communication networks, working with all leading vendors to ensure seamless transition during technology upgrades.

### ITS Network Design and Integration

Through our vast experience across all aspects of ITS, Downer has built enviable expertise across design and most importantly installation of ITS systems. Downer has expertise in upgrading existing systems and bringing in new technologies into existing ITS networks.

In addition to field based ITS work, Downer's ITS is heavily involved in asset management strategies designed to prolong asset life and identify the appropriate point of intervention to ensure continual delivery of service is achieved.

We have experience working with all major ITS technologies including working with SCATS, Divitel, Dynac and STREAMS.

### System Design

Working with many of Australia and New Zealand's Public Transport Authorities, we are at the forefront of innovation and safe delivery of Intelligent Transport Solutions.

We work with all major technology vendors in this field to ensure we are able to implement the best solution for both the travelling public and the public transport agency.

### Ticketing Machine Installation and Maintenance

Downer has installed the majority of ticketing systems throughout Australia and maintains the ticketing systems in Western Australia and the Australian Capital Territory.

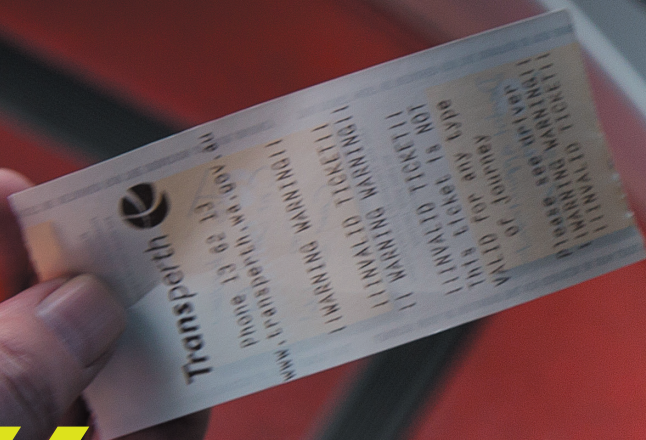
Our experienced technicians are located across Australia and New Zealand and have expertise in both the latest technology and legacy ticketing solutions.

Recognised by industry, our electronic ticketing solutions have won prestigious awards including the 2014 Smart infrastructure Project Award from Infrastructure Partnerships Australia for our delivery of the Sydney 'Opal' Card, and the 2008 Voice/Data – Large Project Award from the National Electrical and Communications Association (NECA) for our delivery of the 'SmartRider' Project in Western Australia.



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**Our Intelligent  
Transport Solutions  
help public transport  
authorities meet  
commuter requirements  
while reducing costs,  
improving operational  
efficiencies and  
supporting the  
environment.”**







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