

Case Study

**Using STREAMS[®]
to optimise road
networks**

The situation

Transmax customer Transport and Main Roads identified the need to optimise their traffic signal timing plans in Mackay CBD. Their aim was to reduce congestion and make the network flow better. It was important to our customer that a review produced real, measurable results. Transmax proposed to review the timing plans and implement a measurement process.

What we did

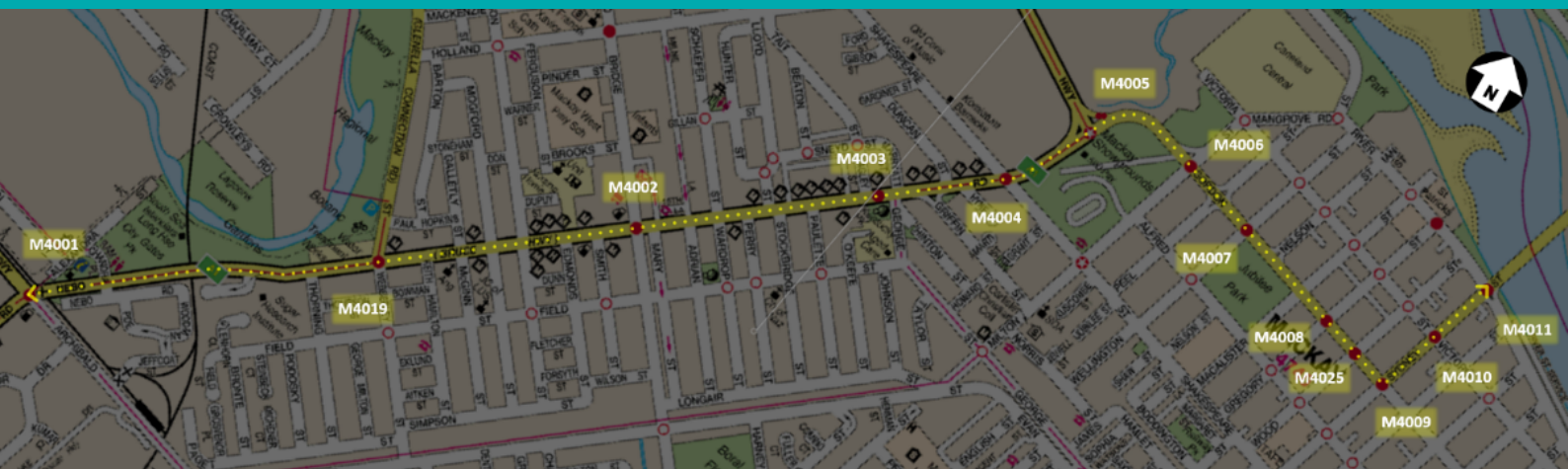
A traffic signal engineer in Transmax's Consulting Services team conducted a signal timing review utilising the tools and data available in STREAMS®.

To measure any benefits, Transmax installed a series of permanent Bluetooth readers to measure the travel time of vehicles as they traversed the network.

Transmax undertook the following steps to create and implement new traffic signal coordination plans:

1. Data verification, collection and collation
2. Intersection groupings review
3. Creation of base Time of Day plans
4. Testing of plans on site
5. Review of plans by Transport and Main Roads
6. Implementation of the timing plans

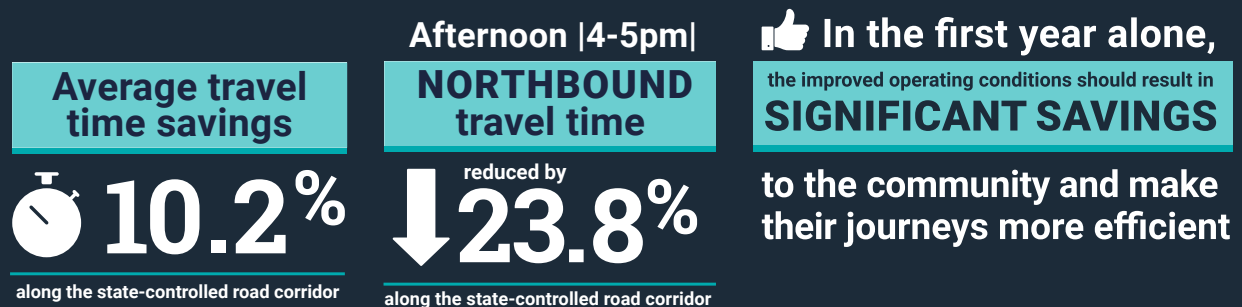
OPTIMISED ROUTE



Nebo Road from M4001 (Peak Downs Hwy) right through to M4011 at the Forgan Smith Bridge

Outcomes for Mackay

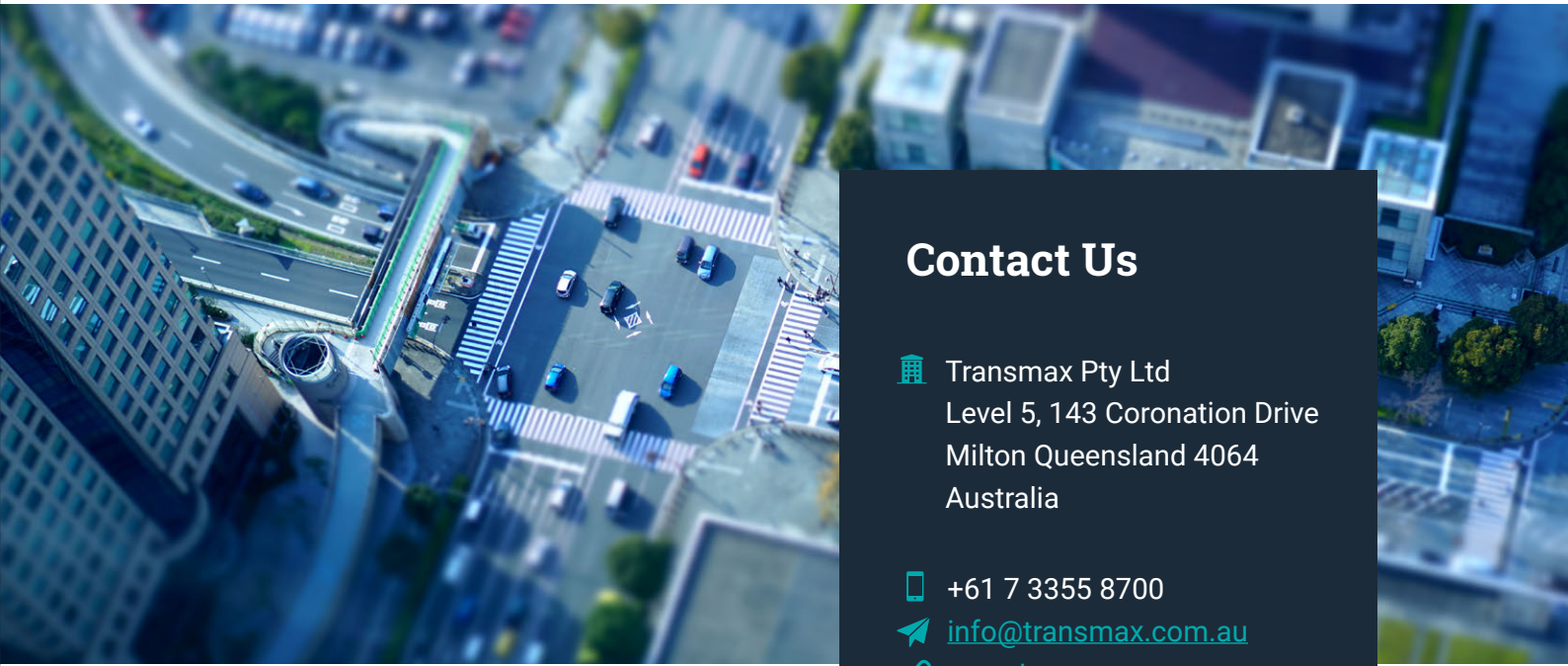
The resulting outcome was an optimised traffic signal network with a measured improvement in network journey times.




In addition, as the Bluetooth readers are permanent, they can be used by Transport and Main Roads Mackay to continually measure the operation of the road network including any future congestion reduction projects.

About Transmax Consulting Services


The Consulting Services team at Transmax can undertake similar network optimisation projects for road agencies encountering similar challenges. The team provides a broad range of assistance, change management, training and operations support services to enhance the sustainability and performance of customers' transport networks.



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About Transmax

Transmax is the solutions provider of the international award-winning ITS platform STREAMS. We exist to improve people's lives by providing industry-leading transport solutions and help move millions of commuters around Australian road networks every day.

STREAMS was first developed as part of Queensland's Department of Transport and now, as a government-controlled entity, Transmax supports other transport departments around Australia and internationally to achieve safer and more reliable road journeys for people in the communities they serve.

We place our customers at the centre of everything we do and work collaboratively to ensure our ITS solutions meet their needs. Transmax offers customers systems engineering, software design and development, along with a range of consulting and support services throughout the entire ITS lifecycle, all delivered with customer service excellence.

With 50 years' experience developing, implementing and managing ITS for road authorities right across Australia, we support our customers to realise the community benefits of optimising transport networks by providing smarter, more sustainable ITS solutions.

