



How collaboration is expanding the circular economy

Roads Australia Webinar

*Mark Faulkner, CPEng, RPEQ, FIEAust
Asset Manager, Brisbane Metro RAMC2 Contract*

**We
design for
the future
as well as
today**

Future Ready

Future Ready is WSP's innovation framework. By applying the Future Ready trends to our work, we can design and deliver projects that respond to the shifts and advancements we see coming.

Net Zero sits as a core trend in our Future Ready framework. It's unique in its scope as it goes beyond climate and environmental outcomes, intersecting with all four Future Ready themes.

Net Zero will be a key driver of change in the coming decades influencing most of our projects in some way.



Climate



Resources



Technology



Society

WSP Australia are committed to halving the carbon footprint of our designs and advice by 2030



Net Zero by 2040 – three areas for action:

Cutting carbon:

How do we talk about a problem we can't touch or see?



Protecting nature:

What if we achieve Net Zero, but lose the nature and wildlife that make our places unique?



A fair transition:

How do we share the load of going Net Zero in a way that's fair for all?



What we doing with our clients

- Solar
- On and offshore wind
- Green hydrogen production
- Hydro and pumped hydropower
- Energy efficient buildings
- Battery storage systems
- Zero emissions transport
- Smart cities
- Asset preservation and maintenance

But not just projects

- Policy advice on GHG valuation in cost benefit analysis
- Updating technical standards
- Developing energy efficiency policy



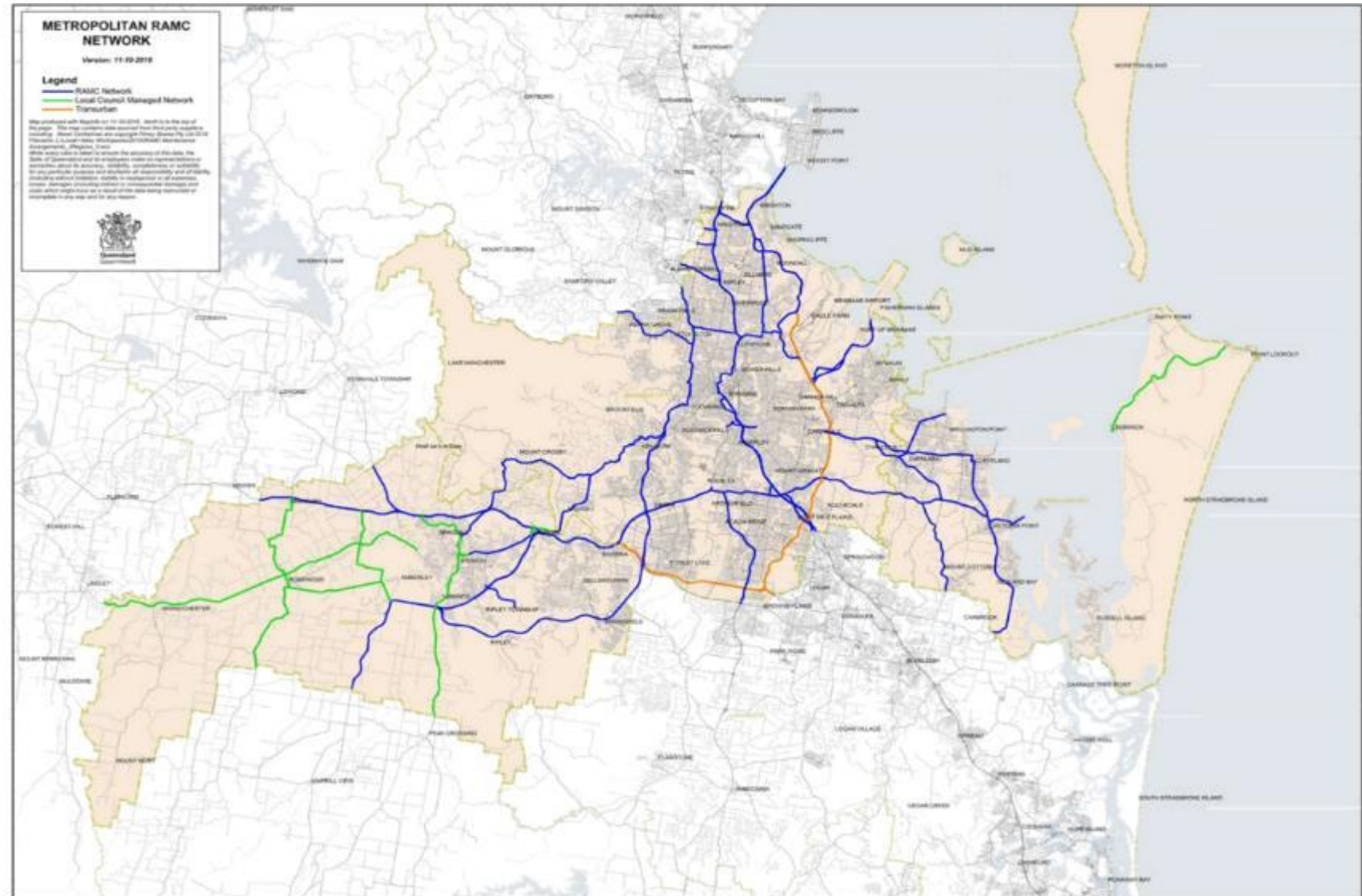
Tension between cost, risk and performance



Bringing theory and practice together through innovative processes

- WSP and Fulton Hogan have been working together since 2015 on road maintenance contracts in Australia
- Bringing asset management and maintenance delivery together
- Providing innovation and value for money to their clients
- Implementing smart practices, processes and products

Brisbane Metropolitan Road Asset Management Contract (RAMC2)



Improvement through sustainable practices

- Use of lower CO2 emissions treatments (warm mix asphalts)
- Mixes that require less material in the right circumstances (SMA7/SMA 10)
- EME2 - efficient savings in material usage (with up to 30% RAP)
- RAP2 (ES) (subgrade improvements, working platforms and shoulder edge build up)
- Use of recycled material initiatives in maintenance treatments (recycled plastic noise walls in Sydney, crumbed rubber)

An aerial photograph of a two-lane asphalt road that curves through a dense, green forest. A small yellow car is visible on the road, moving away from the viewer. The trees are lush and green, with some bare branches visible in the upper right. The road has white lane markings and a shoulder on the right side.

Thank you

Mark.Faulkner@wsp.com

wsp