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Dear Tom

Request made under the Official Information Act 1982

Thank you for your email of 19 June 2015 requesting the following information under the Official Information Act 1982:

- Copies of any reports or other information produced by or for the NZTA on the any new technologies that may be pioneered in any of the \$3 billion of roads of national significance outlined in the 2012-2015 National Land Transport Programme, including any technologies to remotely monitor traffic, environmental conditions, or the condition of roading infrastructure.
- Copies of any information or reports produced or received by the NZTA that concern the implications of the possible future increased use of electric vehicles on that roading programme.
- What assumptions has the NZTA made about the uptake of electric vehicles during the life of the above roading infrastructure? Have any assumptions the NZTA has made about the possible increased use of electric vehicles impacted the design/construction specifications of those roads, if so in what way?

The Transport Agency does not develop its own technology and tends to use tried and proven technology in our projects. These may be new technologies that we have not used on our network before and are deploying for the first time. However, we require all our suppliers to demonstrate that their technology has been tested and is safe for use on our network. We have therefore not limited our response to technology that is being 'pioneered'.

The *NZ Transport Agency position statement on intelligent transport systems* identifies the opportunities we see for use of new technologies and is available on our website at: www.nzta.govt.nz/resources/intelligent-transport-systems/position-statement.html.

The following documents showing new technologies used on the Western Ring Route road of national significance, fall within the scope of the first bullet point above and are attached:

- Attachment 1: Red zones initiative undertaken on SH16 in Auckland
- Attachment 2: The use of wireless "pucks" in lieu of inductance loops in Auckland
- Attachment 3: The use of temporary lighting solutions in Auckland
- Attachment 4: Innovative solution to use steel barriers for temporary traffic management for the duration of the SH16 causeway upgrade project
- Attachment 5: Implementing a safer way to install "warratahs", minimising the risk of injury to the installer
- Attachment 6: Designed a visible system for staff to recognise when plant has been demobilised and made safe for people to approach or pass

You can find information about technological developments for the Ngauranga to Aotea Quay Smart Motorway, which is part of the Wellington Northern Corridor road of national significance at: www.nzta.govt.nz/projects/ngauranga-to-aotea-quay/index.html

You can also find information about electronic tolling for the Tauranga Eastern Link road of national significance at: www.nzta.govt.nz/about/media/releases/4077/news.html
www.nzta.govt.nz/projects/tel/publications.html

You have also mentioned remote traffic monitoring. We have traffic operations centres in Auckland, Wellington and Christchurch for the purpose of monitoring traffic conditions. You can read more about these at: www.nzta.govt.nz/network/operating/efficiently/traffic-management.html

If you would like to visit one of these you can call Andrew Knackstedt to arrange this.

In terms of the other two bullet points, we have no reports or particular assumptions about the implications of the possible future increased use of electric vehicles on the roads of national significance programme. However, we are aware that electric vehicles are already commercially available and their viability is likely to increase. We are watching developments closely in respect of electric vehicles and the potential infrastructure requirements for our roads.

The Ministry of Transport has done some work on electric vehicles and you can see this at: www.transport.govt.nz/research/othertransportresearch/electricvehicles.

If you would like to discuss this reply with the NZ Transport Agency, please contact Andrew Knackstedt, National Media Manager, by email to Andrew.Knackstedt@nzta.govt.nz or by phone on (04) 894 6285.

Yours sincerely

Damian Grant

PI
Chris Young
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