

Question on Notice

No. 474

Asked on 24 May 2022

MR L MILLAR ASKED MINISTER FOR TRANSPORT AND MAIN ROADS (HON M BAILEY)—

QUESTION:

With reference to the core technology elements of the Ipswich Connected Vehicle Pilot being rolled out along 1500 kilometers of the Bruce Highway as referenced in answer to Question on Notice No. 339 asked on 31 March 2022—

Will the Minister advise (a) the locations where this technology is being deployed, (b) the cost of this work, (c) the investment ID(s) of the associated project(s), (d) the forecast maintenance cost of any related infrastructure over the next 10 years, (e) the expected life of key IT components of the project and (f) the estimated number of vehicles currently registered in Queensland with the necessary hardware installed to allow vehicle-to-vehicle and vehicle to infrastructure communications?

ANSWER:

I thank the Member for Gregory for the question.

The Palaszczuk Government is leading the country in the roll-out of C-ITS technology, as evidenced by the program of works currently being delivered along the length of the Bruce Highway—funded in partnership with the Australian Government—and which other states are utilising in their pilots.

- (a) The cloud is deployed along the extent of the Bruce Highway from North Coast to Cairns. Roadside infrastructure is deployed at 37 traffic lights in Cairns, Townsville, Mackay, Sarina, Rockhampton, Calliope, Gympie, Childers and the Sunshine Coast. C-ITS has the ability to be deployed in rural areas. Vehicle-to-roadside technology uses shortrange communication, meaning they can communicate without 3G, 4G or 5G coverage. The vehicle-to-cloud design allows a vehicle to request data when cellular reception is available, and this data can still be used when cellular coverage is not available.
- (b)(c) Funding is sourced from the Australian Government's Road Safety Program with an 80 per cent federal and 20 per cent state contribution. The Connected Vehicle Safety Infrastructure project investment identifications are 1985837 and 2244092, which has a combined budget of \$1.697 million. The Connected Vehicle Safety Cloud project investment identifications are 1985480 and 2244077, which has a combined budget of \$2.4 million.
- (d) It is estimated that 90 per cent of the cost of C-ITS is borne by industry (in-vehicle and cloud services). The associated government costs are around 10 per cent (cloud, roadside and security services). The estimated Bruce Highway maintenance cost over the next 10 years is approximately \$550,000 per annum. As C-ITS scales during that period, costs will be shared nationally, and Bruce Highway operating cost is likely to significantly decrease.
- (e) The cloud service has no government physical infrastructure as it relies on Amazon Web Services infrastructure, while the roadside infrastructure has an expected life of 10 years.

- (f) It is difficult to provide a precise number but there are hundreds of thousands of vehicles which have access to cloud-based services via private data providers—such as Google, Here, Tom-Tom, Intellematics and Lexus/Toyota. The data is also being delivered within the *QLDTraffic* application, which currently has 148,000 users. These users will have immediate access to selected services. The number of vehicles currently registered in Queensland with the short-range communications hardware is 38 public vehicles and 30 government vehicles.