

# RAMP SIGNALS

SMART INFO

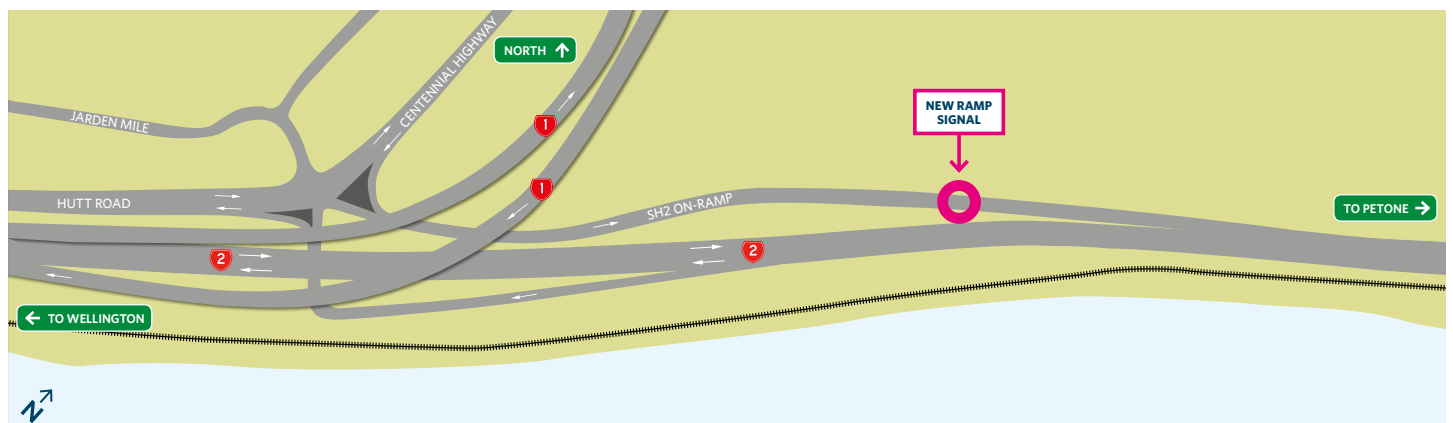
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Wellington's smart motorway is made up of a network of smart equipment that works together to smooth the flow of traffic and reduce congestion. The region's first ramp signals are part of this network. They're being installed near the end of the State Highway 2 on-ramp at Ngauranga.

By pacing vehicles entering the highway, ramp signals enable safer merging while maintaining a smooth flow of traffic on the main road. They help people travelling on the main road enjoy more consistent speeds and predictable travel times with less congestion.

## LOCATION OF RAMP SIGNALS



## HOW RAMP SIGNALS WORK

Ramp signals are essentially traffic lights that pace traffic from two-lane on-ramps onto a main road (highway or motorway) during busy periods. The signals operate only when needed to improve traffic flows; they stay off at other times.

Sensors in the road detect when traffic becomes heavy, then turn on the ramp signals.

When the red lights are displayed, drivers stop and wait for the green signal. When lights turn green, two vehicles (one from each lane) drive down the ramp and merge with the traffic already on the highway. Ramp signals run on a fast cycle, with only a few seconds between green lights.

## SMART DRIVING THROUGH RAMP SIGNALS

Ramp signals can increase queues on the roads leading up to them. This could mean that sometimes it'll take longer to join State Highway 2 if you're coming from the Hutt Road or the Ngauranga Gorge. So when you're travelling from Wellington City and you want to get through quicker, you'll be better off using the smart motorway.

You'll get a quicker and smoother trip to the Hutt Valley and beyond on the smart motorway. You'll also help make the Hutt Road nicer for cyclists and pedestrians, and better for bus journeys, as well as leave more space for drivers heading to State Highway 2 from the Ngauranga Gorge.

## A PROVEN TECHNOLOGY

Ramp signals are used extensively around the world including on the Auckland motorway network. Studies show they get more vehicles through on the highway at a faster, more consistent speed with less congestion, and there are fewer merge-related crashes.



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Slower today

Better tomorrow