

Dunedin City Council

Low-cost trial roundabouts

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Safety Moment

Dunedin City ranks as one of the highest crash risk areas at intersections in New Zealand.







Assessment

- 12 intersections assessed by DCC
- Roundabouts being the preferred intersection treatment

Design & Consultation

- Concept designs were developed, using only signs, markings, bollards and speed cushions.
- Public consultation was kept to a minimum, with the trials intended as forming the main part of consultation.



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We are trialling small roundabouts to improve safety at a second group of intersections in Dunedin and Mosgiel. These intersections have problems with speed, traffic congestion, pedestrian safety, a confusing or unclear road layout or drivers cutting corners.



Roundabouts will make these intersections safer, as all drivers are required to give way to the right and traffic must slow down. This also makes it safer for pedestrians to cross near the intersection.

The style of roundabout used will depend on the size and layout of the intersection. All roundabouts will be painted on the road and may have flexible bollards around the edge. In smaller intersections, raised rubber platforms will be used so large vehicles can cross over them when they are turning. Standard roundabout give way signs and markings will be installed on each approach to the

What was done

- 12 roundabouts installed using only road markings, flexible bollards, signs and speed cushions.
- Each roundabout was installed overnight and cost in the range of \$10,000 to \$15,000.
- The conversion took 2 months, and cost of \$155,000.
- A great way to prove and show the public/council how the improvements works.





Feedback

I drive through it the other day and it was totally fine. They are a great idea.

2y

I drive along thorn st every day to get to work and back again to get home there are signs saying new road layout and then there are give way signs yes alot of people have and are driving over them and yes they should be raised but I do think they would be beneficial if they were raised that intersection along David and thorn st can be a nightmare at the best of times

2y

2y · Edited

Its great now you don't get stuck there in peak hour traffic for ages. That intersection was a nightmare. It's pretty easy to see I don't understand how people dont see the signs or the road markings. 2 Do the lights not go in your car or something, I really don't understand how people can't see the give way signs and road markings, you're obviously not concentrating on the road if you don't see them.

 The trial sites have been in place since Jan 2019

- Plenty of public feedback good, bad and funny.
- During the trial, there have been a few amendments following on-site observations and public feedback

Does it matter if it's painted? The point is it lets drivers know that standard round-a-bout rules are in effect.

I mean, we've been able to keep in our own lane by a series of painted lines for decades and no ones complained...

2y · Edited

1 2

It makes no difference what it looks like it is a simple roundabout with simple easy to follow rules that only an incompetent driver could not follow. There are give way lines on the road and that should be enough of a warning. Maybe some need to redo their driving lessons and stop blindly driving through intersections

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D 4

ODT! Could you please print the roundabout NZTA rules in the paper & online for all these people who don't know how to use them! It would be far more useful than finding complainers. Clearly these people got their licenses before roundabouts were in common use!

2y



Waste of time really. Too many people just drive straight over them.

 $\textbf{Like} \cdot \textbf{Reply} \cdot 2y$

Its BS the one at the shetland chapman st intersection is oversized off centre and given the gradient of the street completely impractical as a roundabout



Top fan

It's about how you use the circle not the size of the

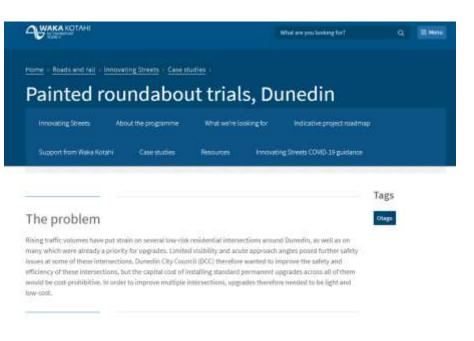
circle matters

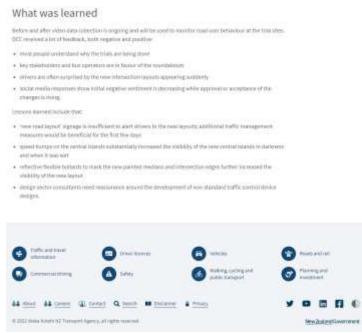


What was learnt

- Temporary Traffic Management needed for longer
- Use speed cushions
- Consultation made easier
- Great for getting a forward works programme up and running.







How the project responded

DCC installed typic munitations at 11 analystalens intersections to text roundations sizes and byposts. As well as analysis a smaller lapport than usually integrand for permanent changes, the trial format meant small changes on after coold enally be carried out. The changes included:

- . "How road layout" sigrage
- . painted control islands and road markings
- · narrower truffic lanes
- · speed humps on the central islands at half of the intersections only
- . "slip lanes" for people on bikes at the Gusselburgh intersection only.

The changes were intended to improve safety by:

- . stowing vehicles.
- . reducing pedestrian crossing lengths.
- . encouraging cyclists to take the lane (or use the dedicated skip lanes at Muserburgh).

By making initial changes as a trial, the changes were likely to be better occoved by the public, as they can be adjusted or resourced if they prove not to be furcitoring well. Following the widal not-out, changes included adding speed humps to the central islands of those originally without, and installing reflective flexible bottands along the indexection medians and edges.





Adjusted trial roundabout layout, Credit: Duredia City. Council.

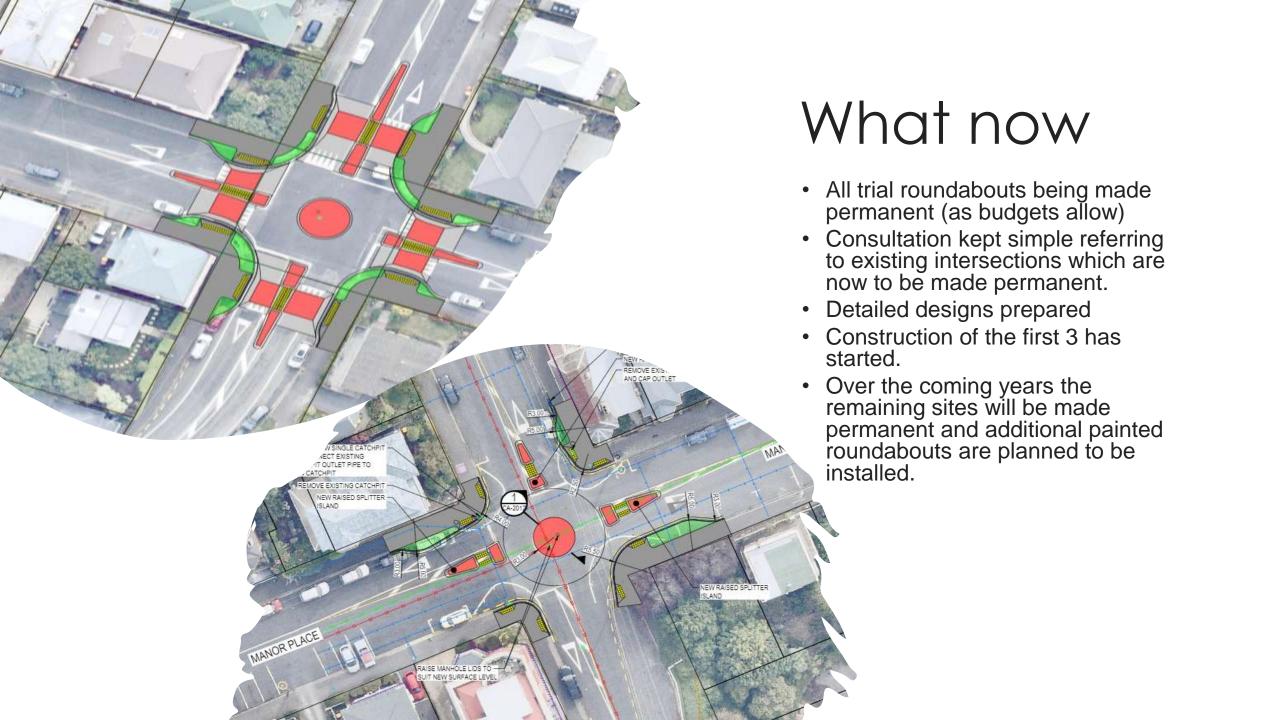
Adjusted trial mandoboot layout. Credit: Baredin City: Council.

Support from Waka Kotahi

Innovating Streets

https://www.Painted roundabout trials, Dunedin | Waka Kotahi NZ Transport Agency (nzta.govt.nz)







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