

# Project Evaluation Finding

## Lance Creek Compact Roundabout

### Project Description

The Lance Creek intersection was upgraded from a stop sign priority controlled crossroads intersection to an innovative compact roundabout design to reduce the risk of crashes.

Prior to the upgrade, the average daily intersection volume was approximately 1,200 vehicles, with 9% commercial vehicles.

### Output

The project delivered a compact roundabout at the intersection of Korumburra Road-Wonthaggi Road, Glen Alvie Road, West Creek Road and Bird Road to improve road safety.

### Cost & Duration

- \$3.4 million – Within budget
- Opened in August 2017 - One month later than planned due to adverse weather conditions.

### Working with others

Regional Roads Victoria worked with the Bass Coast Shire Council during the development of this project, and there was local community and freight industry feedback supporting this treatment.

### Benefits Achieved

#### Improved road safety

- 100% reduction in crashes. Before construction there were four casualty crashes recorded within a five year period, three of which resulting in serious injuries. After construction, there has been no crashes recorded.
- On the priority route of Korumburra Road-Wonthaggi Road and Glen Alvie Road at the intersection, the 85<sup>th</sup> percentile speed has reduced from 76 km/h to 34 km/h, representing a reduction of 55%.

Compact roundabouts are an innovative and cost-effective alternative to conventional roundabouts which require a smaller footprint reducing the amount of land to be acquired.

The design and delivery of a compact roundabout at the Lance Creek intersection has allowed the concept to be trialled, reviewed and evaluated to increase the level of confidence in the treatment design. This has the potential to encourage the prospect of wider implementation to future projects.



Figure 1 – Before and After

### More Information

For more information please contact:  
[chris.padovan@roads.vic.gov.au](mailto:chris.padovan@roads.vic.gov.au).