



# Protected Intersections Fact Sheet



## WANT TO SEE?

*Ride-through Melbourne's protected intersection*



*Albert Street &  
Lansdowne Street*



## WHAT ARE THEY?

Protected intersections are designed to physically separate people who ride from general traffic. This arrangement dramatically improves sight-lines between left-turning vehicles and riders travelling through.

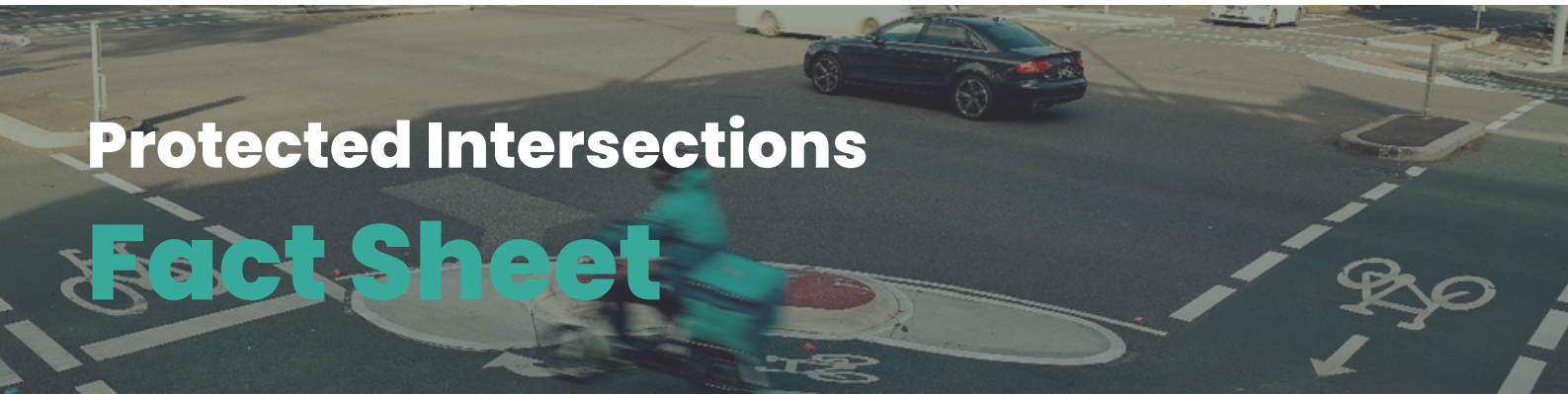
Fundamental to the design of protected intersections is providing an offset between the bicycle facility and the left-turn traffic lane.



## BENEFITS

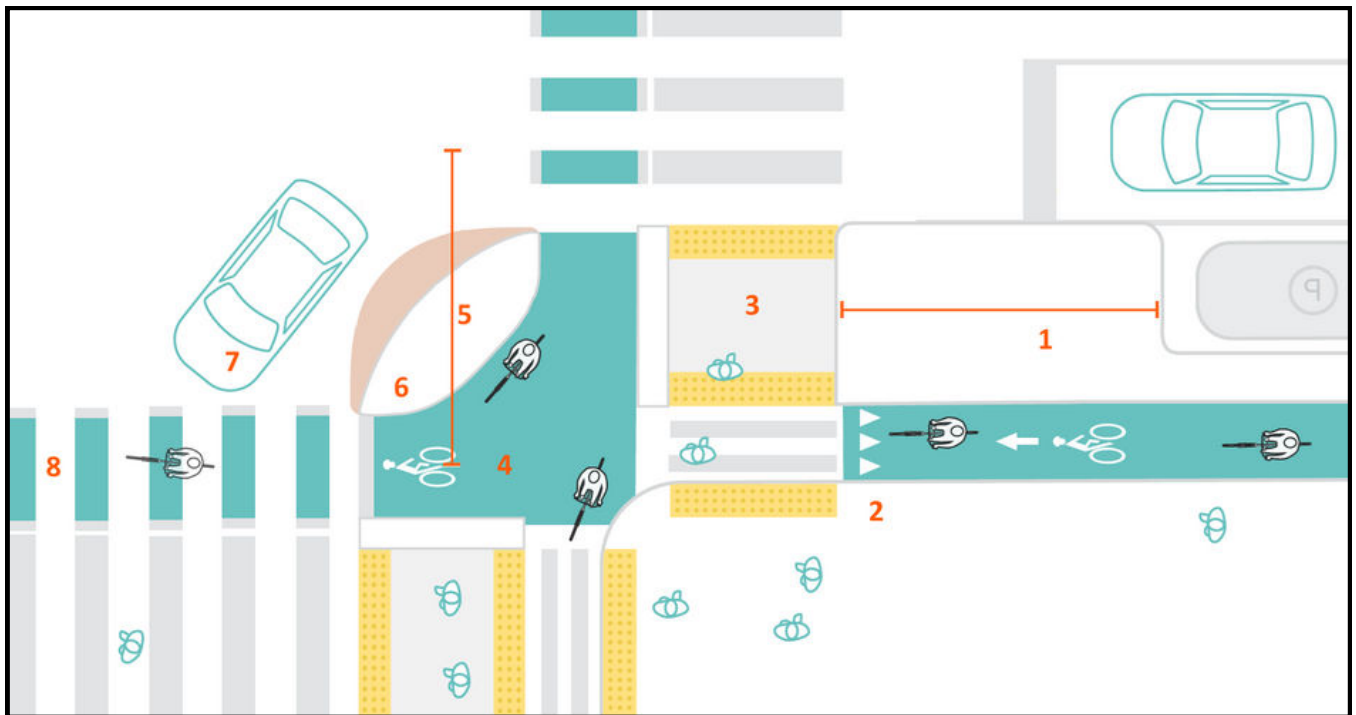
- ✓ Corner island radius tightens up turning vehicle movements - slowing vehicles down
- ✓ Offset between the left-turn traffic lane and bicycle facility dramatically improves the sight lines
- ✓ Reduces the risk of vehicle-rider collisions at intersections
- ✓ Separates rider and pedestrian crossing movements





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## WHAT DO THEY LOOK LIKE?



- 1. No Stopping / Standing Zone
- 2. Bicycle give-way to pedestrians
- 3. Pedestrian crossing area
- 4. Bicycle queue area
- 5. Offset
- 6. Corner Island
- 7. Vehicle waiting zone
- 8. Cyclist crossing area

*This figure has been adapted from NAACTO's "Don't Give Up at the Intersection".*

[\*\*Click here for more information.\*\*](#)

## KEY CONSIDERATIONS



Swept path checks should be completed to verify turning movements can be safely performed



Mountable apron may be required to facilitate heavy vehicle turn movements



Sight line checks should be completed for both vehicles and riders.





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## EXAMPLES / FURTHER READING

### VIDEOS:

- [Video of Melbourne's Protected Intersection](#)
- [Video of Manchester's \(UK\) Protected Intersection](#)

### GUIDANCE / NOTES:

- [Construction Bulletin Queensland's Beaudesert Rd and Illaween St](#)
- [Queensland's Selection and Design of Cycle Tracks](#)

### GOOGLE MAPS:

- [Google Maps Queensland's Aura Bvd and Eden Dve](#)
- [Google Maps Netherlands](#)



Protected intersection design could reduce bicycle-related conflicts by as much as 80%.  
(Preston & Pulugurtha, 2021)<sup>1</sup>

## MORE INFO?

*We're here to help.*

**Contact:**

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1. Simulating and assessing the effect of a protected intersection design for bicyclists on traffic operational performance and safety

