

Pedestrian and Bike Safety at Roundabouts



Pedestrian's Perspective:

- Only have to focus on one direction of approaching traffic at a time.
- Cross one lane at a time because center refuge island allows you to safely wait to cross other side of roadway.
- Crossing distance of roadway is less since crosswalk is located further back from intersection.
- Vehicles are traveling much slower speeds at a roundabout (typically 18mph – 22mph).
- Don't have to worry about high speed vehicles running a red light.
- Roundabout has much more street lighting at night to see pedestrians and other traffic better.
- IF by chance a driver does make an error and hits you, the injuries are much less at the lower travel speeds.

Driver's Perspective:

- Pedestrians much more visible because they cross before you reach yield point at the roundabout.
- Driver focuses on pedestrians only first, instead of looking for pedestrians and other vehicles at same time.
- Not distracted by looking at traffic signal indications, other vehicles, and pedestrians all at one time.
- Geometrics of a roundabout require drivers to drive at much slower speeds, which greatly improves your response times to see and react to pedestrians and bicyclists.
- There are 50% less vehicular-pedestrian conflict points at a roundabout vs. a signalized intersection.

Roundabout benefits

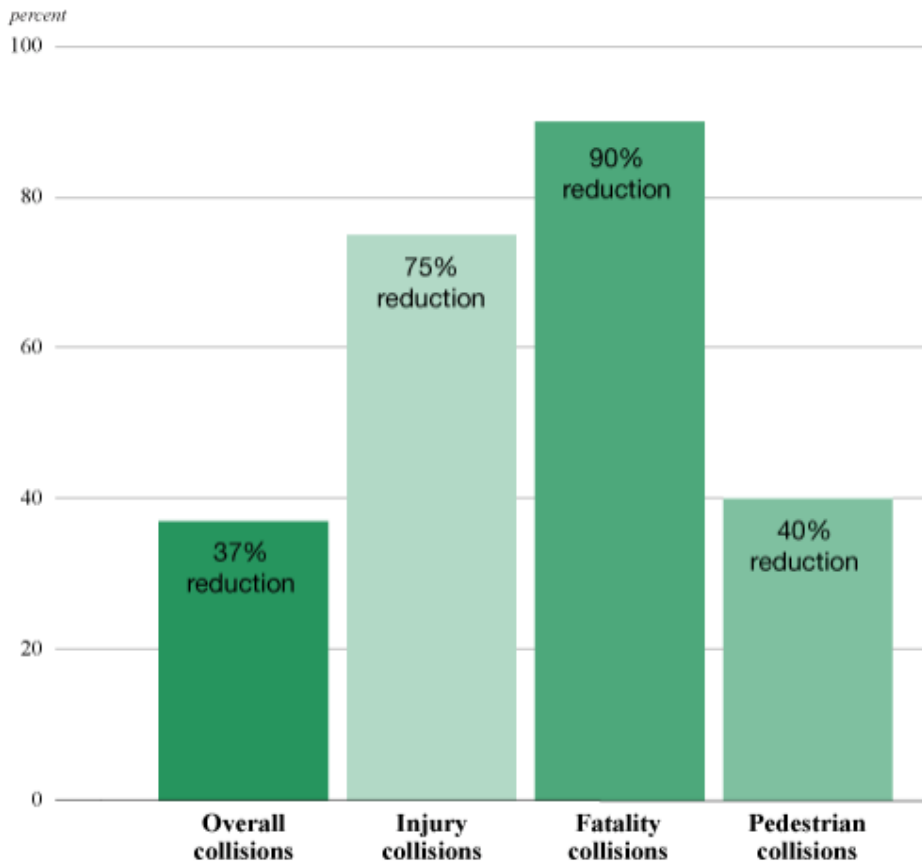
Improve safety

Studies have shown that roundabouts are safer than traditional stop sign or signal-controlled intersections.

Roundabouts reduced injury crashes by 75 percent at intersections where stop signs or signals were previously used for traffic control, according to a study by the Insurance Institute for Highway Safety (IIHS). Studies by the IIHS and Federal Highway Administration have shown that roundabouts typically achieve:

- A 37 percent reduction in overall collisions
- A 75 percent reduction in injury collisions
- A 90 percent reduction in fatality collisions
- A 40 percent reduction in pedestrian collisions

Reduction in collisions



Source: Federal Highway Administration and Insurance Institute for Highway Safety (FHWA and IIHS)