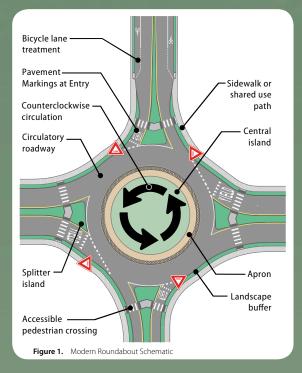
## What is a Roundabout?

A roundabout is a type of circular intersection, but is quite unlike a neighborhood traffic circle or large rotary. Roundabouts have been proven safer and more efficient than other types of circular intersections.



Roundabouts have certain essential distinguishing features:

- Counterclockwise Flow. Traffic travels counterclockwise around a center island.
- Entry Yield Control. Vehicles entering the roundabout yield to traffic already circulating.
- Low Speed. Curvature that results in lower vehicle speeds (15-25 mph) throughout the roundabout.

FHWA identified roundabouts as a Proven Safety

**Countermeasure** because of their ability to substantially reduce the types of crashes that result in injury or loss of life. Roundabouts are designed to improve safety for all users, including pedestrians and bicycles. They also provide significant operational benefits compared to conventional intersections.

On average, roundabouts reduce severe crashes – those resulting in injury or loss of life – by 78-82%<sup>1</sup>

Highway Safety Manual, American Association of State Highway and Transportation Officials, Washington, DC, 2010.

### **Educational Resources**

Michigan "How to Use a Roundabout – Sharing the Road" Informational Brochure www.michigan.gov/documents/mdot/MDOT\_

New York Guidance for Roundabout Users

RoundaboutPedBikeBrochure\_465164\_7.pdf

www.dot.ny.gov/main/roundabouts/guide-users/pedestrians

Washington State videos for Roundabouts and Pedestrians and Bicycles

www.wsdot.wa.gov/Safety/roundabouts/PedestriansCyclists.htm

# **Leveraging Partnerships**

PEDSAFE Pedestrian Safety Guide & Countermeasure Selection System - Roundabouts www.pedbikesafe.org/PEDSAFE/countermeasures\_detail. cfm?CM NUM=25

BIKESAFE Bicycle Safety Guide & Countermeasure Selection System – Roundabouts www.pedbikesafe.org/BIKESAFE/countermeasures\_detail. cfm?CM NUM=17

Choosing Roundabouts for Safe Routes to School www.saferoutesinfo.org/program-tools/case-study-bellingham-wa

AARP Livable Communities Fact Sheet Series www.aarp.org/livable-communities/info-2014/livabilityfactsheet-modern-roundabouts.html

#### **For More Information**

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To learn more about roundabouts, please visit: safety.fhwa.dot.gov

Safe Roads for a Safer Future nvestment in roadway safety saves lives



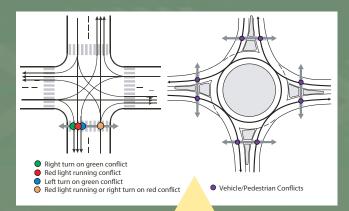
U.S. Department of Transportation

Federal Highway Administration

**ROUNDABOUTS** with Pedestrians & Bicycles

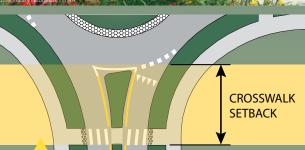
A Safe Choice for Everyone





**Less conflict.** Roundabouts have fewer conflict points. A single lane roundabout has 50% fewer pedestrian-vehicle conflict points than a comparable stop or signal controlled intersection. Conflicts between bicycles and vehicles are reduced as well.





### Shorter, setback crossings.

Pedestrians cross a shorter distance of only one direction of traffic at a time since the entering and exiting flows are separated. Drivers focus on pedestrians apart from entering, circulating and exiting maneuvers.

#### Lower speed.

Traffic speed at any road or intersection is vitally important to the safety of everyone, and especially non-motorized users. Lower speed is associated with better yielding rates, reduced vehicle stopping distance, and lower risk of collision injury or fatality. Also, the speed of traffic through a roundabout is more consistent with comfortable bicycle riding speed.







- At more complex roundabouts, such as those with multiple lanes, certain design elements and enhanced crossing treatments can improve accessibility for visually impaired pedestrians.
- Where bicycle facilities lead to a roundabout, providing an option to bicyclists to either ride in the travel lane or use a ramp to and from a separated shared use path.



