

Roundabout safety

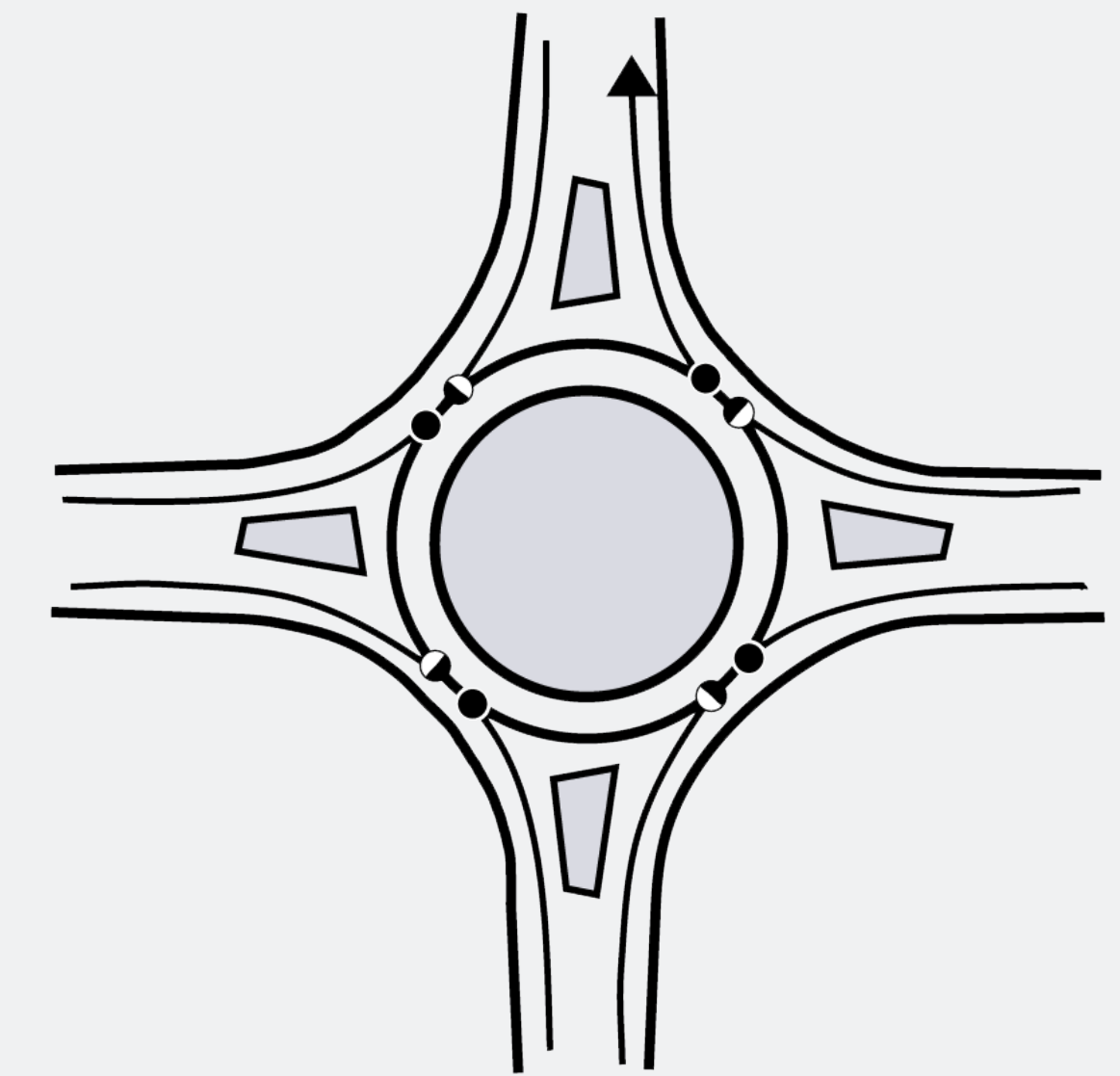
Roundabouts significantly reduce the most severe intersection accidents — angle and head-on collisions.

When compared to two-way stop controlled intersections, roundabouts have a...

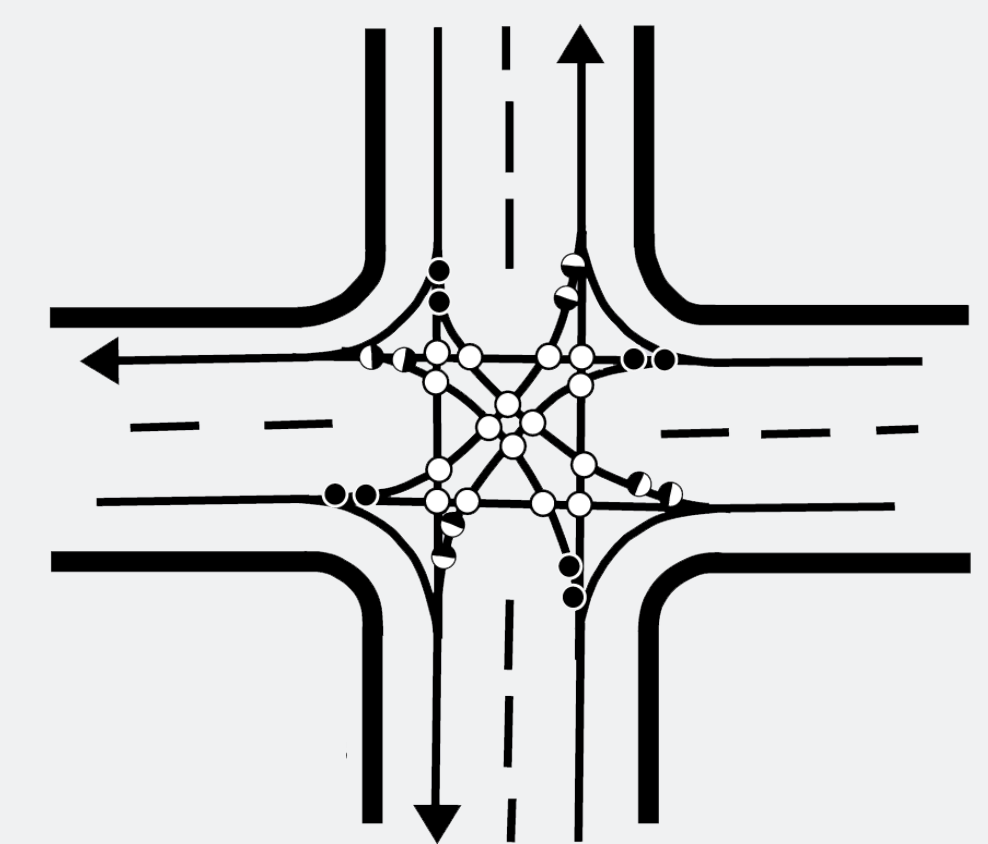
44%
reduction
in crashes of all types

82%
reduction
in injury and fatal crashes

Fewer user conflicts



Traditional Roundabout
8 conflict points



Traditional Intersection
32 conflict points

● Diverging ● Merging ○ Crossing

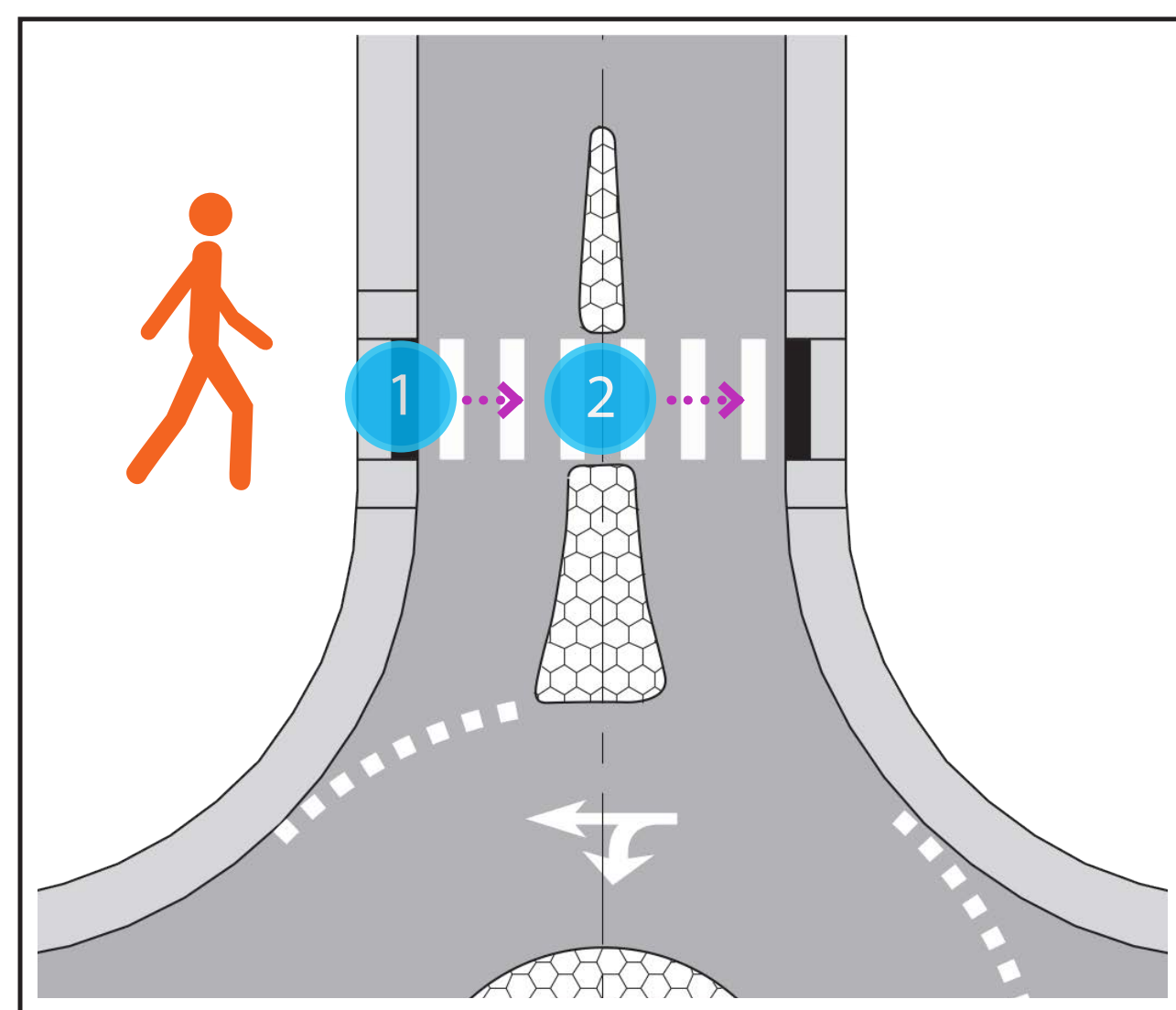
Federal Highway Administration Roundabout Guide

National Cooperative Highway Research Program (NCHRP), Report 672

Roundabout safety

Two-stage crossing = pedestrian safety

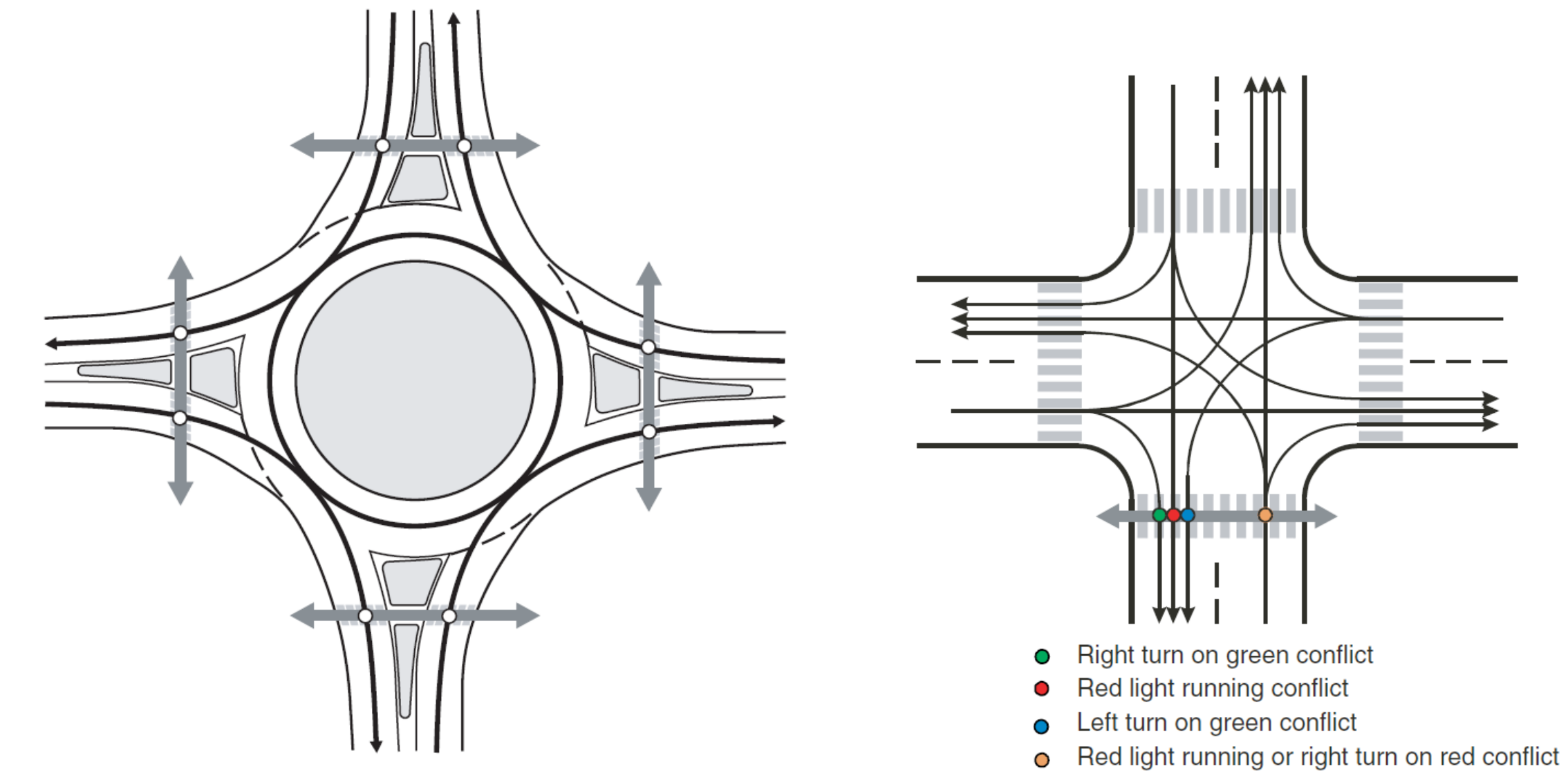
A pedestrian crossing at a traffic signal must watch for vehicles turning right or left on green, vehicles turning right on red, and vehicles running the red light, which often occurs at high speeds.



- 1 When clear, cross to the splitter island
- 2 Wait in the splitter island until roadway is clear and cross to the opposite side.

- Pedestrians cross the street in two stages, one lane at a time.
- At each stage the pedestrian only has to look in one direction to cross the street.

Fewer pedestrian conflicts



Traditional Roundabout
8 conflict points

Traditional Intersection
16 conflict points

National Cooperative Highway Research Program (NCHRP), Report 672

Bicyclist benefits

- Bikes and vehicles travel at similar speeds, which increases safety for bicyclists
- Reduced high-speed conflict points
- Simplified turning maneuvers

NCHRP 672