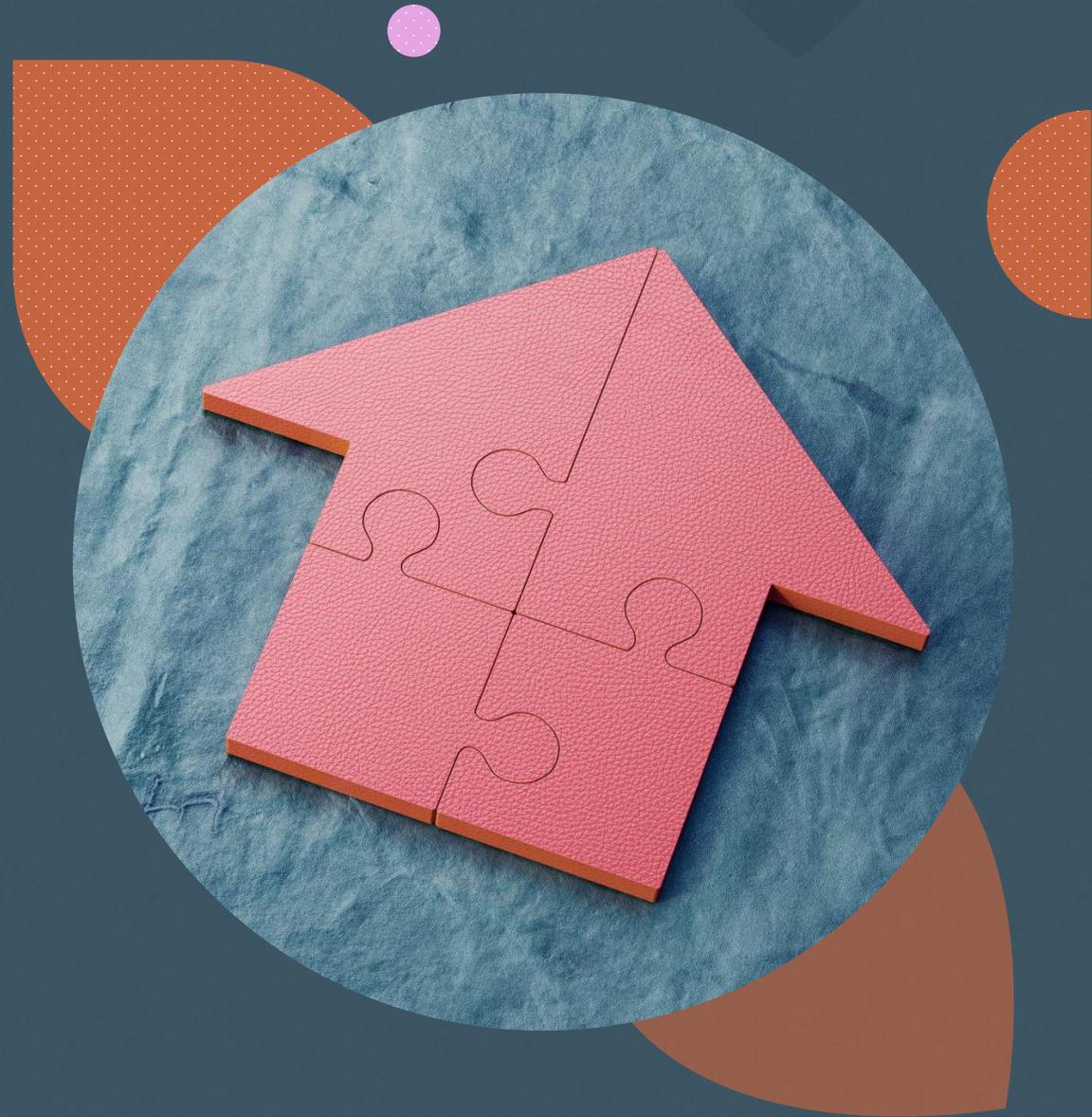


Roundabouts 101

MIC TAC & Policy Board

May 17 & 18, 2022



What is a Roundabout?

A circular intersection where travel is counter-clockwise around a center island

It has no signals or stop signs

Entering vehicles yield to traffic already in the roundabout



Benefits of Roundabouts

- Improved safety
- Reduced serious injury & death
- Improved traffic flow
- Reduced delay
- Reduced idling, emissions, fuel waste
- Improved ped/bike conditions



Improved Safety

Fewer conflict points (8 vs. 32)
Eliminates risk of head-on and
T-bone crashes

FHWA & Insurance Industry for
Highway Safety show reduced:

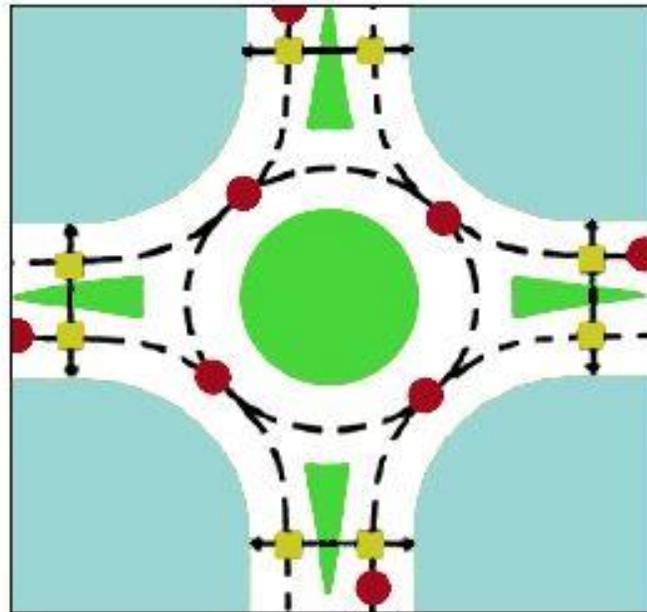
-90% Fatality Collisions

-75% Injury Collisions

-40% Pedestrian Collisions

-37% Collisions Overall

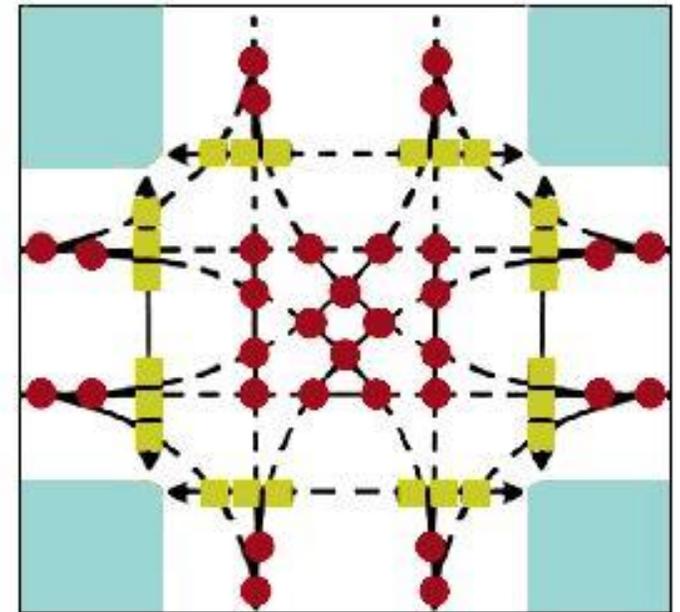
Roundabout



● 8 Vehicle conflicts

■ 8 Pedestrian conflicts

Intersection



● 32 Vehicle conflicts

■ 24 Pedestrian conflicts

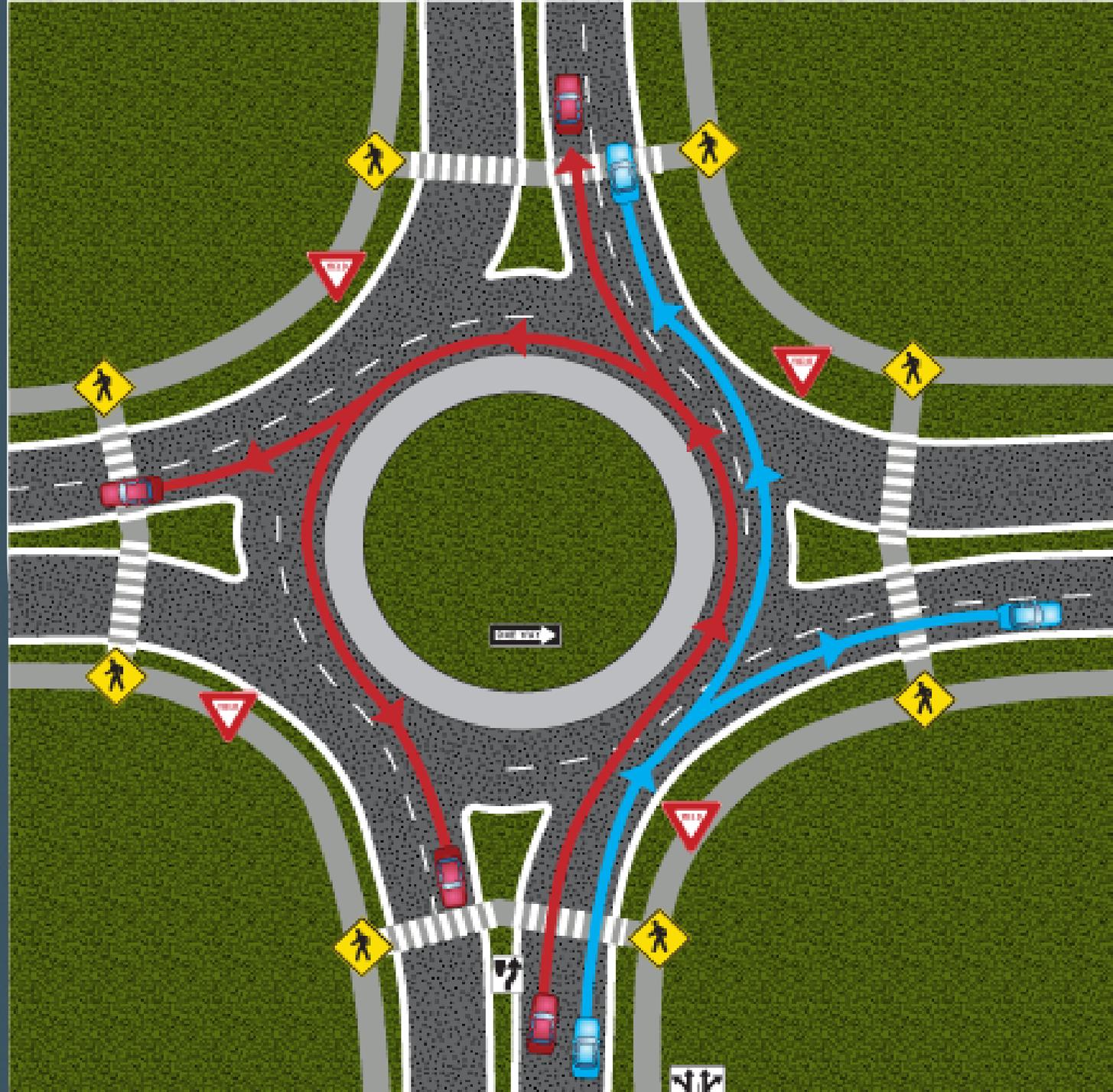
Improved traffic flow

- Motorists yield at entry, then proceed with a safe gap
- Reduced speeds: 15-20 mph is typical
- Traffic capacity increased by 30-50% (FHWA studies)
- Designed for vehicles of all sizes (including trucks & buses)
- Center island has a truck apron that allows trucks to ride over it
 - The Duluth-Superior Transportation Association and MN Timber Roadway Association endorsed roundabout concepts for TH 61 London Road in Duluth (May 2022)



Improved Ped/Bike Conditions

- Slower vehicle speeds
- Peds/bikes are more visible to motorists
- Peds cross lanes one direction at a time, with ped refuges
- Cyclists can operate as a vehicle or as a pedestrian depending on comfort level
- 40% fewer pedestrian collisions than a traditional intersection (FHWA & IIHS)



Public Support

Before: 31% Support / 41% Opposed

After: 63% Support / 15% Opposed

Wisconsin has 457 roundabouts in 2022,
266 on state highways, 191 on local roads

