



## ROUNDBABOUTS



**More Information:** [tti.tamu.edu/policy/how-to-fix-congestion](http://tti.tamu.edu/policy/how-to-fix-congestion)

### Description

Intersections are common locations of frequent congestion and crashes. Traffic signals and stop signs are natural sources of delay because they stop one direction of traffic to allow another to proceed.

The modern roundabout design lessens these sources of delay with yield signs that control the entering traffic and roadway curvature that reduces vehicle speeds on each approach. As a result, all vehicles slow to enter and move through the roundabout. They do not stop unless waiting for a gap in traffic on the flowing roadway. Thus, while speeds are lower, more vehicles can get through with less delay.

### Target Market

Modern roundabouts are often used on residential area minor and major streets. They can also be used in rural and urban areas where right of way is available and the design is appropriate. Roundabouts are also used in areas needing safety or operational improvements including freeway ramp intersections.

### How Will This Help?

- **Reduces delay and fuel use and improves capacity** by decreasing unnecessary stops.
- **Increases safety** by reducing the number of conflict points and reducing right-angle and head-on crashes.
- **Reduces maintenance costs** by removing the need for traffic signals.

### Implementation Issues

The success of a modern roundabout intersection depends on:

- Available right of way.
- Proper design to ensure low speeds.
- Driver education.

### COST



### TIME



### IMPACT



### WHO



### HURDLES



### SUCCESS STORIES



#### Golden, Colorado

A roundabout corridor in Golden:

Reduced delay by **53%**



Reduced travel time by **13%**



Traffic volumes increased by

**35%**



Injury crashes dropped by

**93%**



A study of sales tax revenue reported an increase of **60%**

and an additional **75,000 square feet** of retail and office development.

