



WHY RISK IT?



ROUNDBABOUTS IMPROVE TRAFFIC FLOW & SAFETY

URBAN AREAS

According to the Alberta government, compared to signalized intersections, roundabouts have shown:

- 30 - 40% reduction in total collisions
- 60 - 80% reduction in injury collisions
- 80 - 90% reduction in fatal collisions

This data showcases the substantial safety improvements that can be achieved by converting traditional intersections to roundabouts.

RURAL AREAS

When rural stop-controlled intersections are converted into roundabouts, studies from the Alberta Government indicate:

- 50 - 70% reduction in total collisions
- 70 - 90% reduction in injury collisions
- 80 - 90% reduction in fatal collisions

The improved safety outcomes are attributed to reduced speeds, elimination of T-bone collisions and the promotion of proper yielding behavior, making them beneficial for rural intersections.



ROUNDBABOUTS CAN SAVE LIVES

OVERALL REDUCTION IN CRASHES

Roundabouts decrease overall crashes by about 39% and crashes resulting in fatal or incapacitating injuries by 76% compared to traditional intersections. This is due to improved traffic flow, reduced speeds and the elimination of conflict points.

FATALITIES & SERIOUS INJURY REDUCTION

Roundabouts reduce fatalities by 90% and severe injuries by 76% compared to conventional intersections, primarily due to their circular design and lower driving speeds.

REDUCED INTERSECTION CONGESTION

Roundabouts reduce congestion and delay by eliminating the need for stop signs or traffic signals, leading to more predictable travel times and improved efficiency. They promote continuous traffic flow and eliminate conflicting movements.

References:

Public Health Ontario (2023). *Effectiveness of Engineering Interventions on Road Safety*
 International Institute for Highway Safety (2023). *Roundabouts*
 Alberta Government. (2021). *Traffic Safety Annual Report 2021*
 US Department of Transportation (2015). *A Review of Fatal and Severe Injury Crashes at Roundabouts.*