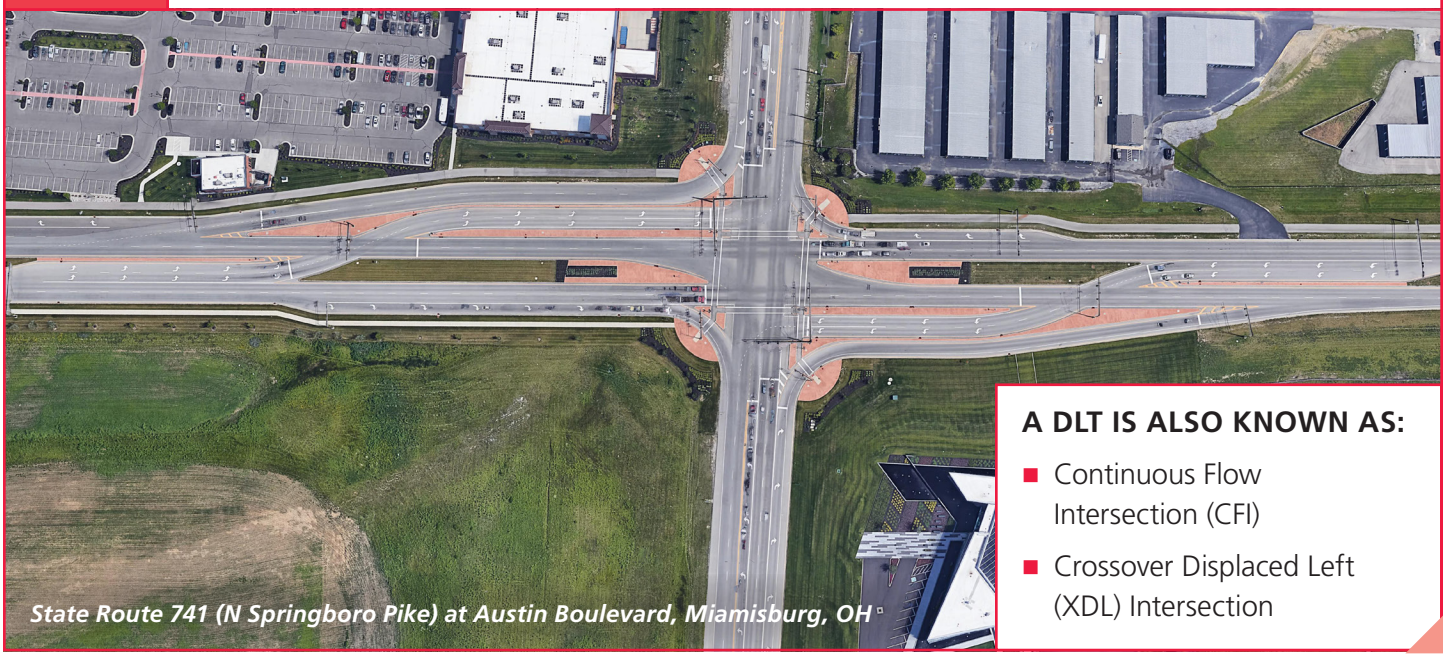
INNOVATIVE INTERSECTIONS

Displaced Left Turn (DLT)



State Route 741 (N Springboro Pike) at Austin Boulevard, Miamisburg, OH

A DLT IS ALSO KNOWN AS:

- Continuous Flow Intersection (CFI)
- Crossover Displaced Left (XDL) Intersection

What is a DLT?

- Intersection design where left-turn vehicles cross to the other side of the opposing through traffic in advance of the main intersection
- Protected left turns and opposing through movements occur simultaneously at the main intersection
- Intersection can be designed as a partial DLT, with crossovers for left turns only on the major street, or a full DLT, with crossovers for left turns on both the major and side streets
- Main intersection and crossovers are signalized and timed to work together to minimize stops

When should a DLT be considered?

- At intersections with moderate to heavy traffic volumes in all directions
- At intersections where opposing legs have similar through traffic volumes
- At intersections with heavy left-turn traffic volumes
- At intersections with a limited number of driveways or access points near the intersection

What are the benefits of a DLT?

- **Improved safety:** Reduces and spreads out the number of points where vehicles may cross paths
- **Increased efficiency:** Simultaneous movement of protected left turns and opposing through movements allows for only two traffic signal phases rather than the typical four phases, which reduces delay
- **Better synchronization:** Elimination of left-turn traffic signal phases and synchronization of the main intersection and crossover traffic signals allows through traffic to spend less time stopped, which improves corridor travel times

What are innovative intersections?

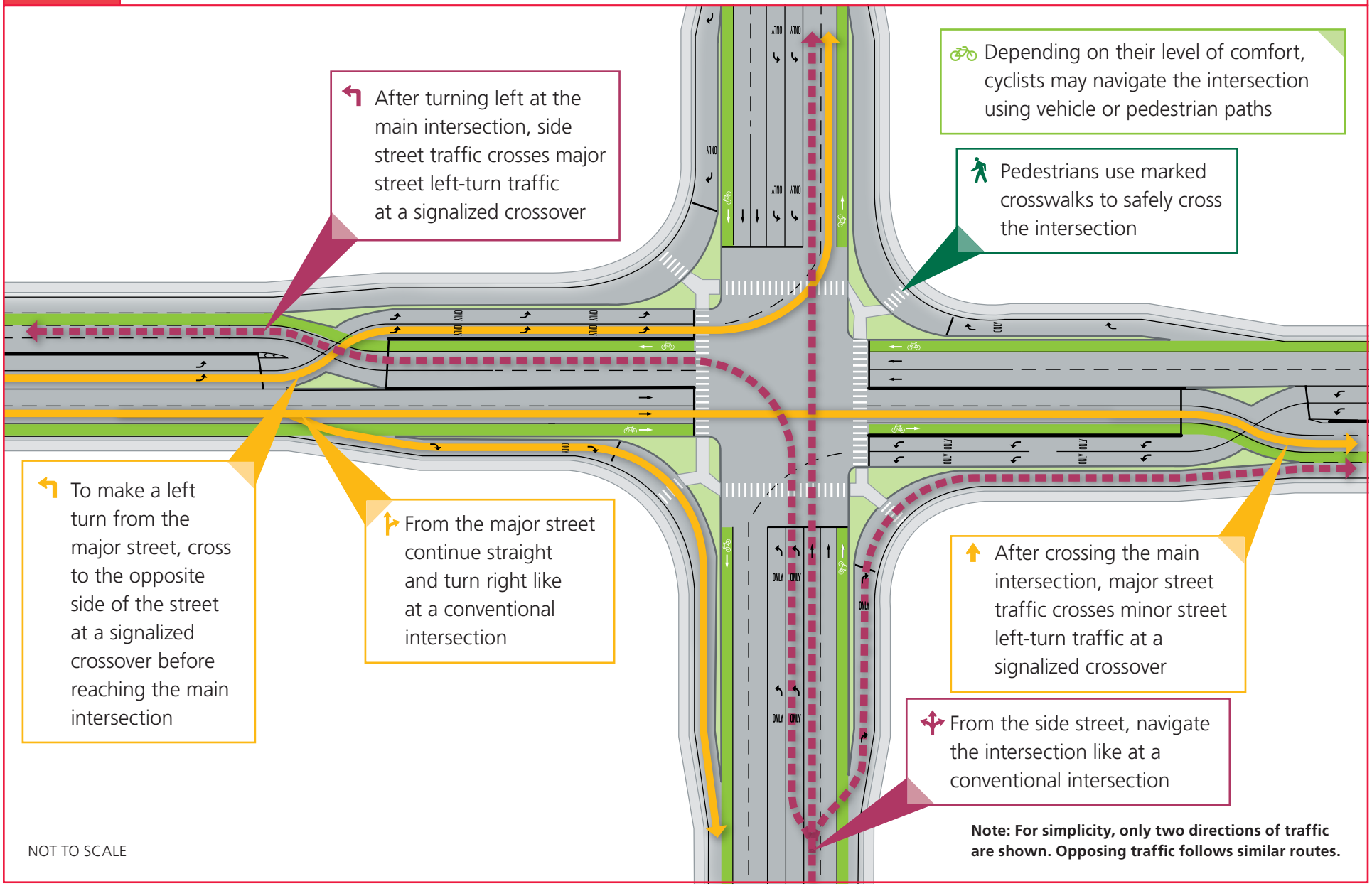
Intersection designs where traffic movements are modified to improve safety, reduce delay, and increase efficiency.

Visit www.virginiadot.org/innovativeintersections to learn more.

VDOT

INNOVATIVE INTERSECTIONS

Navigating a Displaced Left Turn (DLT)



NOT TO SCALE

Note: For simplicity, only two directions of traffic are shown. Opposing traffic follows similar routes.

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VDOT