

Single Point Urban Interchange

FACT SHEET



Single Point Urban Interchange

A Single Point Urban Interchange (SPUI) is an intersection design that addresses congestion by allowing vehicles to travel more quickly and safely through an intersection. Benefits include improved:

- Safety
- Mobility
- Connectivity
- Frontage road traffic flow

Driving in a Single Point Urban Interchange

A SPUI operates with a single, three-phase traffic signal.



First, cross street through-traffic moves through the intersection.



Second, traffic on the first set of opposing left-turn lanes travels through the same signal from the frontage road onto the cross street.



Lastly, traffic on the second set of opposing left-turn lanes travels from the cross street onto the frontage road. Through-traffic on the frontage road is handled via an intersection bypass lane, which allows vehicles to avoid the traffic signal.

Advantages of a Single Point Urban Interchange

A SPUI enhances safety, mobility and connectivity by reducing potential crash points at intersections and by allowing more cars to move through an intersection. This means a reduction in both delay and travel time.

- Through-traffic is able to bypass the intersection without stopping at a traffic signal
- Additional “green time” at traffic signals improves travel time by allowing more vehicles to pass through the intersection
- Additional sidewalks increase safety and better accommodate pedestrians and bicyclists
- Intersection design is relatively low cost and utilizes space more efficiently

For additional information, please contact TxDOT Austin District Public Information Officer Diann Hodges at (512) 832-7027 or Diann.Hodges@txdot.gov.

Watch the YouTube video at www.youtube.com/watch?v=mwpoPQ1SPJU.