



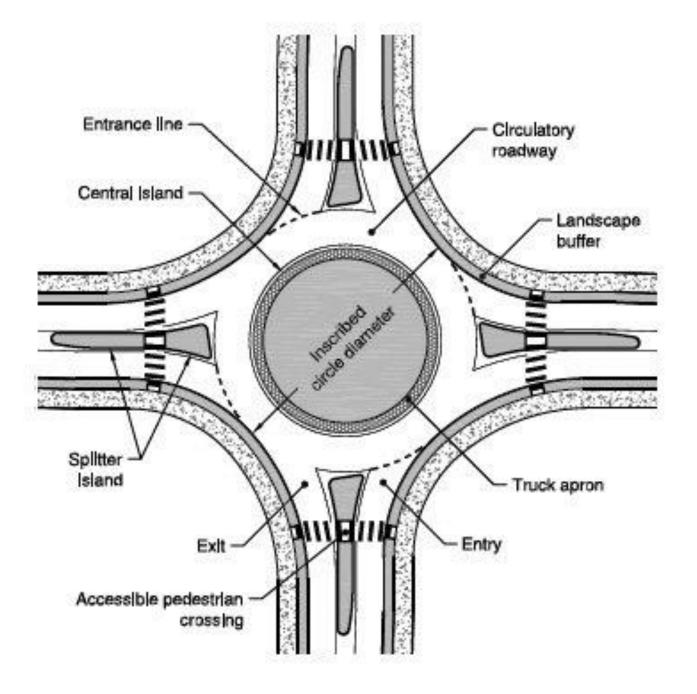
CE 572 – Spring 2015

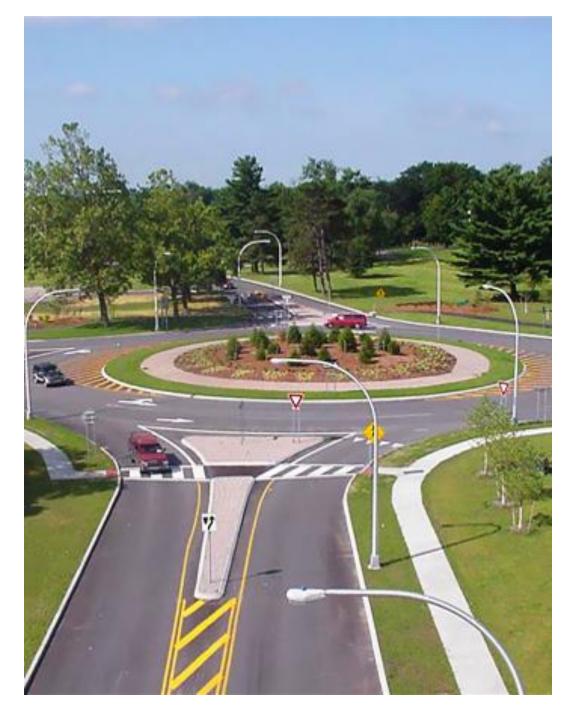
Intersection Traffic Operations



Class 10 9 February 2015















Traffic Circles



(a) Traffic control

Yield control is used on all entries. The circulatory roadway has no control. Santa Barbara, CA



Some traffic circles use stop control, or no control, on one or more entries. Hagerstown, MD



(b) Priority to circulating vehicles

Circulating vehicles have the right-ofway. Santa Barbara, CA



Some traffic circles require circulating traffic to yield to entering traffic. Sarasota, FL



(c) Pedestrian access

Pedestrian access is allowed only across the legs of the roundabout, behind the yield line. Santa Barbara, CA



Some traffic circles allow pedestrian access to the central island. Sarasota, FL



(d) Parking

No parking is allowed within the circulatory roadway or at the entries. Avon, CO



Some traffic circles allow parking within the circulatory roadway. Sarasota, FL

Roundabouts

Traffic Circles





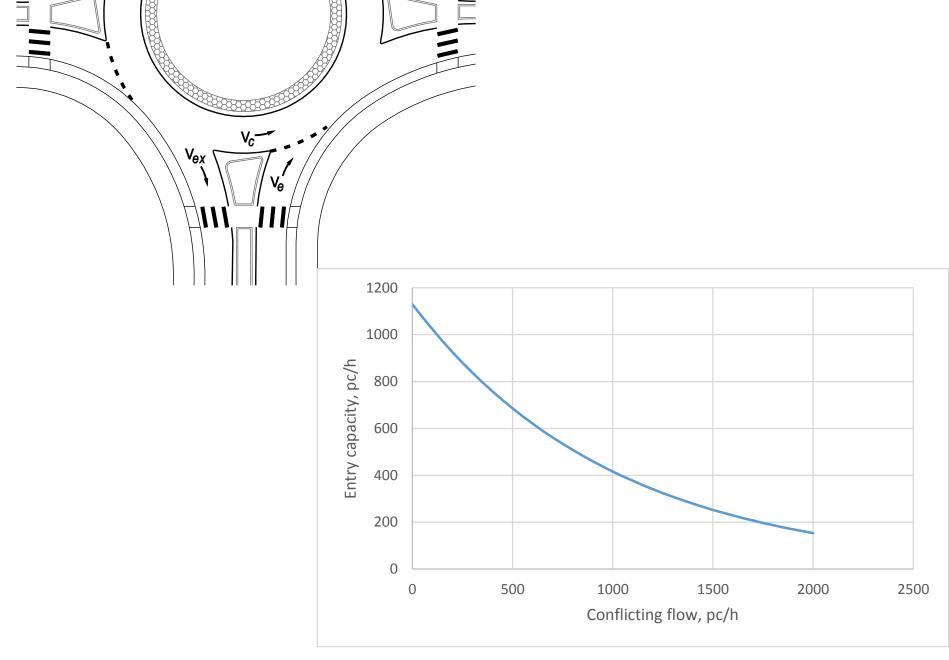
(e) Direction of circulation

All vehicles circulate counter-clockwise and pass to the right of the central island. *Naples, FL*

Some neighborhood traffic circles allow left-turning vehicles to pass to the left of the central island. *Portland, OR*



How does a roundabout operate?



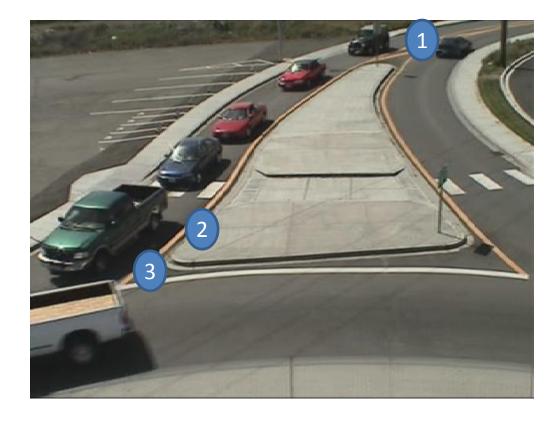




Events of interest

Delay data

- Time vehicle arrives at back of queue
- Time vehicle arrives at yield line
- Time vehicle enters roundabout



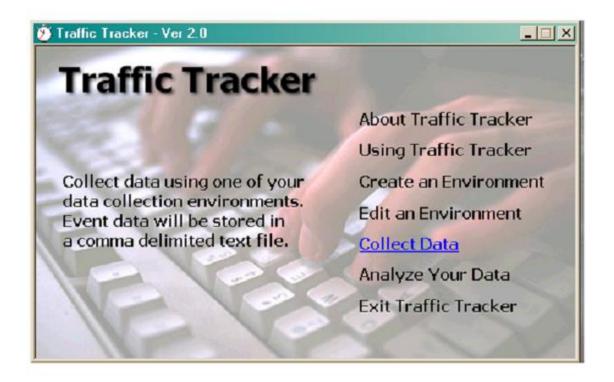
Events of interest

Gaps accepted and rejected

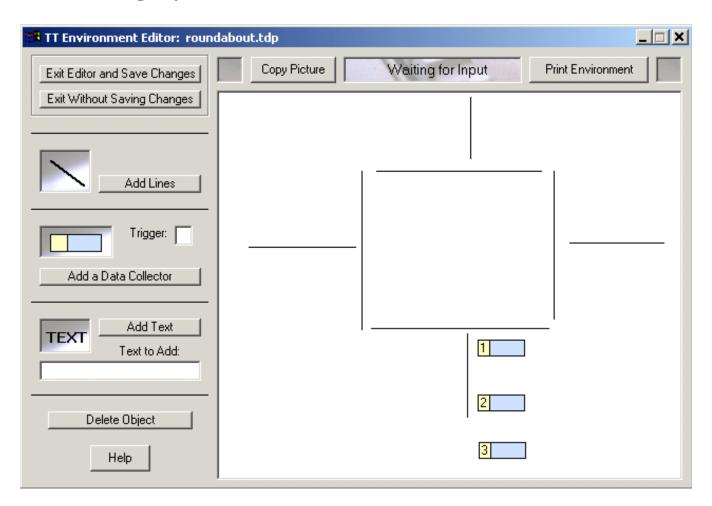
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- Begin and end gap events for circulatory vehicles (4)
- Time minor stream vehicle enters roundabout (3)

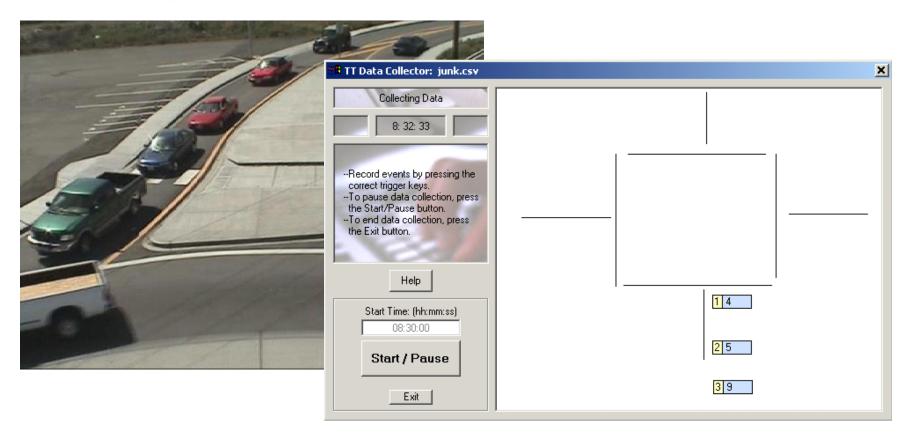


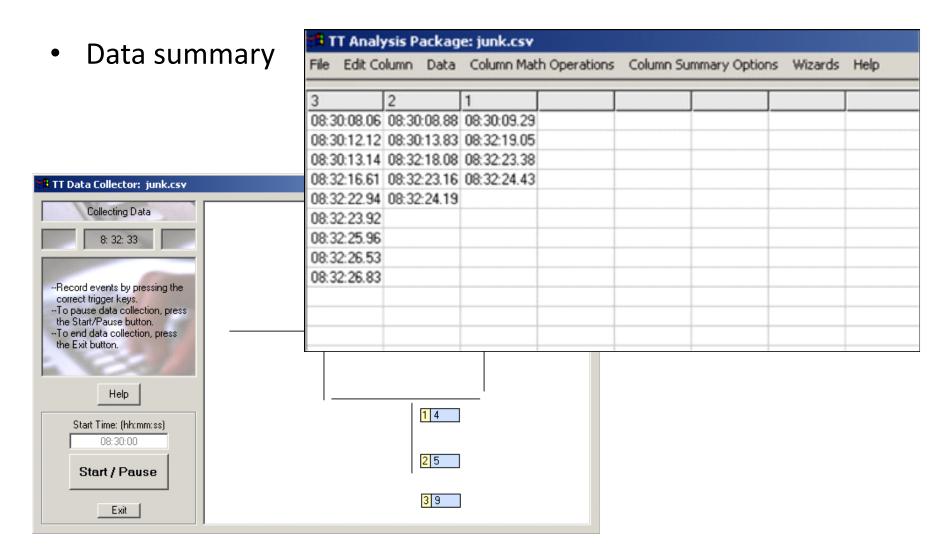


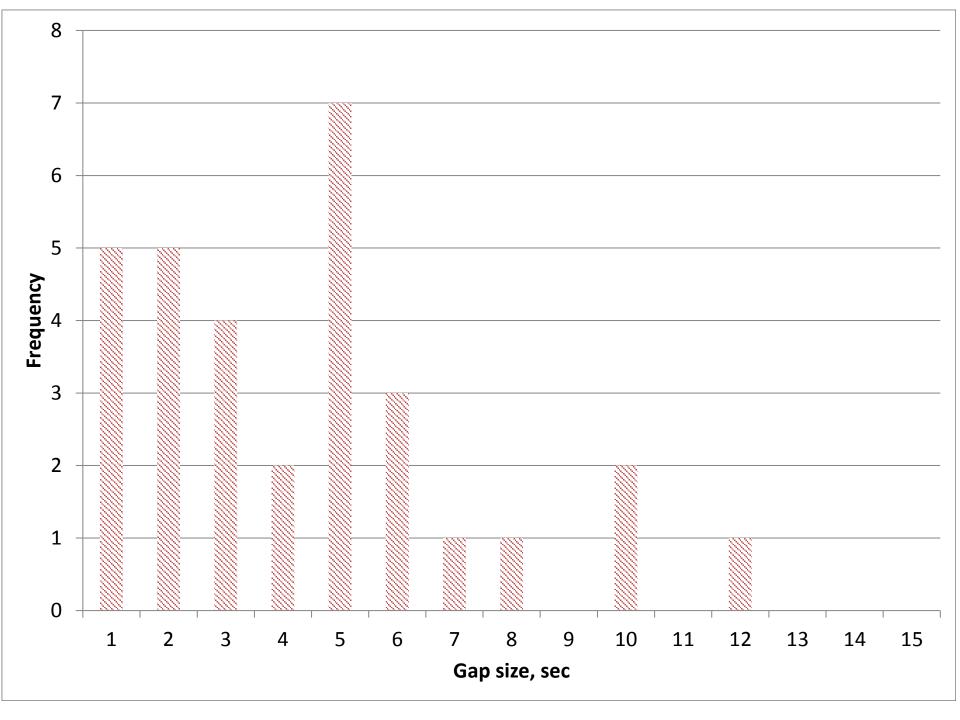
Setting up a data collection environment

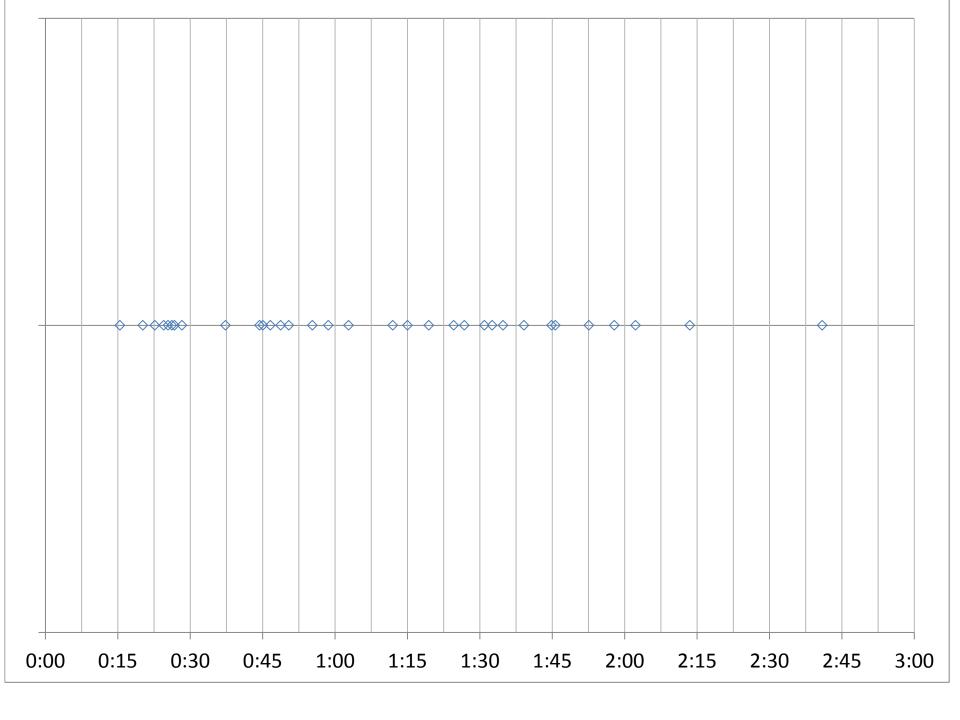


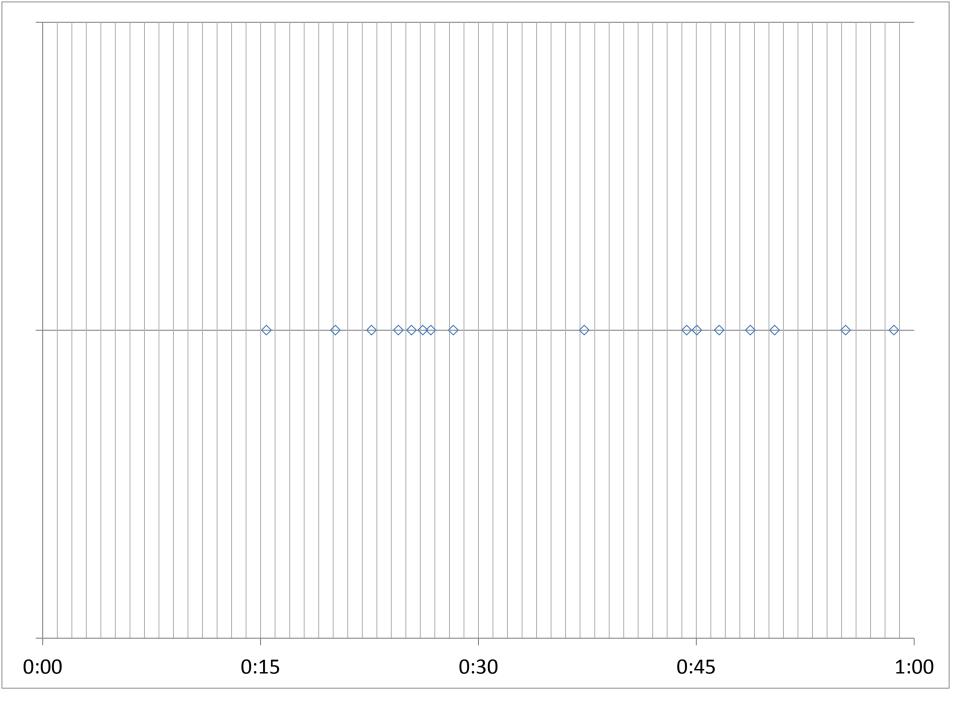
Data collection

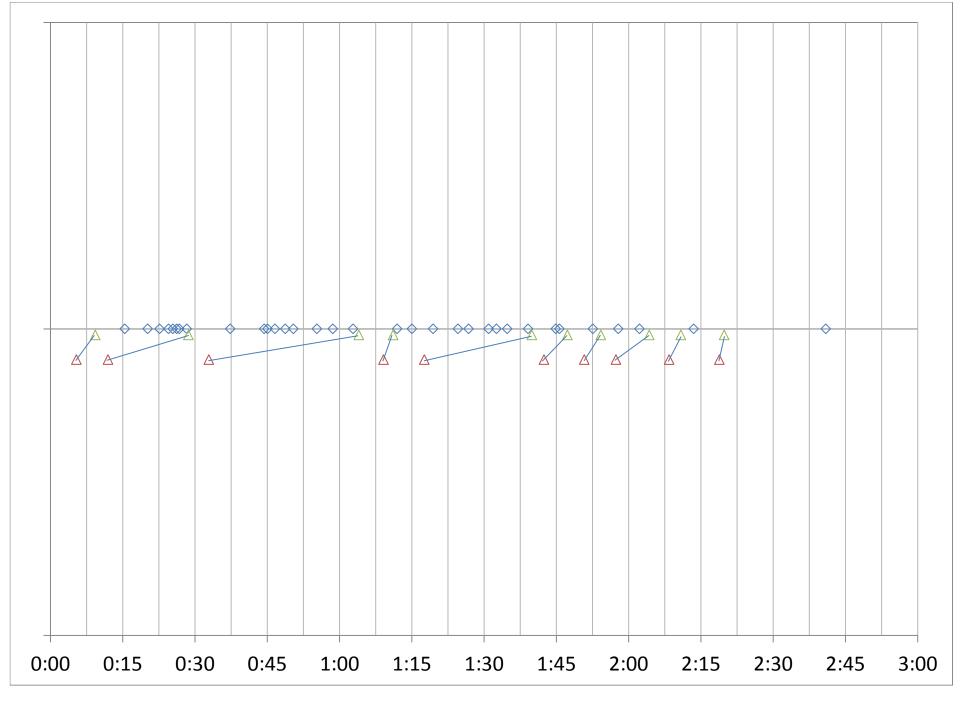


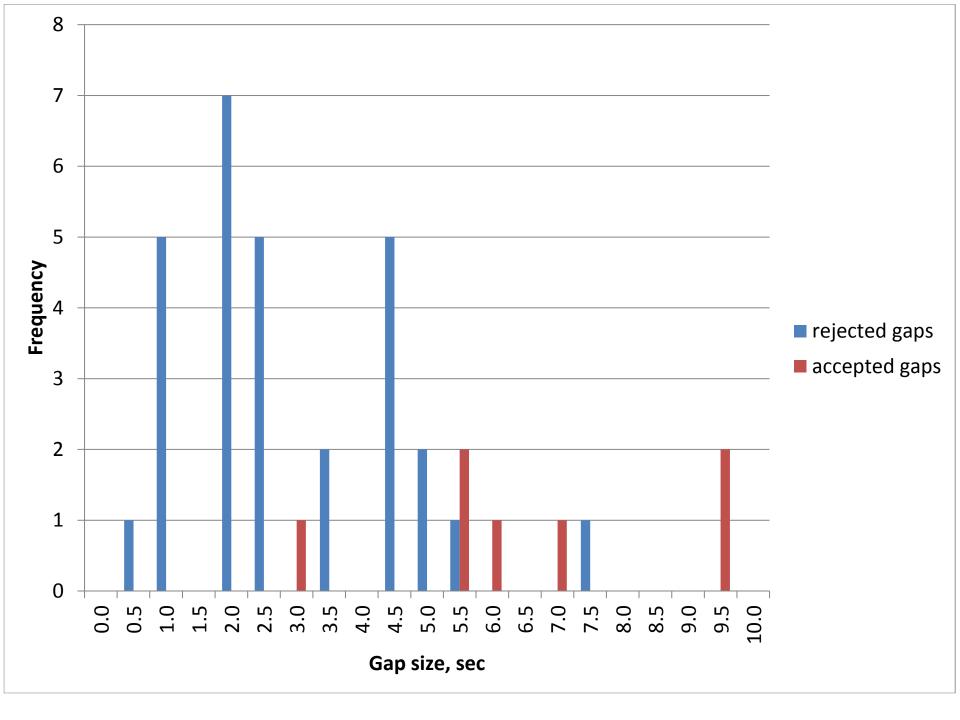






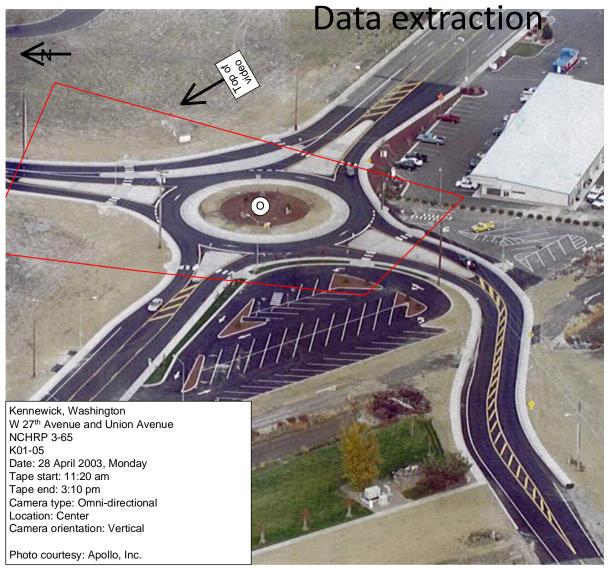


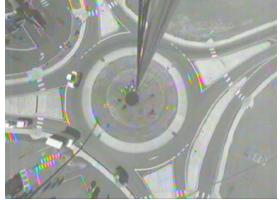




Data extraction







Data extraction



Project overview

Data collection







