SIDRA INTERSECTION
Two-Day Training Workshop Contents (USA)

Workshop Day 1
Introduction to the Workshop
SIDRA INTERSECTION Introduction
  Workshop objectives, software status, principles and philosophy.
SIDRA INTERSECTION User Interface
  Projects, Sites, Networks and Routes. Overview of User Interface and Site Input dialogs..
  Strip islands and roundabout splitter islands. Volume Data Settings.
Using SIDRA INTERSECTION:
Example - Roundabout with Bus Bypass Lane
  HCM 6, HCM 2010 and SIDRA Standard roundabout capacity models.
Input Parameters
  Approach Distance and Exit Distance. Grade data. Approach Short Lane Length. Approach short lane model. Exit Short Lane Length (approach lane underutilisation). Free Queue parameter. Roundabout geometry parameters.
Using SIDRA INTERSECTION:
Example - Signalized Intersection with Bus Lane
  Input Comparison and Output Comparison.
Network Data
  Lane Blockage and Capacity Constraint. Paired Intersections. Network Connections.
  Network Movements. Extra Bunching.
Using SIDRA INTERSECTION:
Example - Two-Site Network (Signals and Roundabout)
  Inspect Network Flows (upstream and downstream flows, inflow / outflow). Define Eastbound and Westbound Routes. Inspect Route Displays and Route Summary.
Roundabout Modeling Issues
Using SIDRA INTERSECTION:
Example - Stop-Sign Controlled T-Intersection
Modeling of Signalized Intersection Networks

Using SIDRA INTERSECTION:
Example - Freeway Diamond Interchange (Signalized)
Special User Movement Classes. Lane Disciplines and Lane Movements. Operation under a single signal controller (Common Control Group). Inspect CCG, Network, and Route output reports and displays.

Discussion
End of Workshop Day 1

Workshop Day 2
Introduction to Workshop Day 2
Using SIDRA INTERSECTION:
Example - Roundabout Interchange
Use templates to form an interchange, use Special Movement Classes

Roundabout Design Review
Discussion: Midblock lane change calculations

Using SIDRA INTERSECTION:
Example - Roundabout with Signalized Pedestrian Crossings
Lane Changes on roundabout exit and the effect of unequal lane use at downstream Site.
Lane Changes report.

Using SIDRA INTERSECTION:
Example - Staggered T Roundabouts
Special Movement Classes using Network OD Volumes. Lane Changes with equal and unequal lane use on external approaches.

Using SIDRA INTERSECTION:
Example - Large Network
Form the Network in any possible configuration without connection error.

Using SIDRA INTERSECTION:
Example - Large Network (preset)
Open the preset example and use the Network Routes dialog. Inspect Network Summary and Network Displays By Routes. Network Cycle Time and Offset calculations.

Using SIDRA INTERSECTION:
Various Network Model Examples
Two-Way Sign Control Between Two Signals (Two-Way Sign Control model; Signal platoons in continuous lanes; Excess Back of Queue for upstream continuous lanes). Staged Crossing at Two-Way Sign Control. Fully Signalized Roundabout. Diverging Diamond Interchange.

Discussion: Model Calibration Overview
Using SIDRA INTERSECTION:

End of Workshop