

Introduction to SIDRA USER GROUP MEETING

Rahmi Akçelik

**Presentation at the SIDRA USER GROUP MEETING
Melbourne, Nov 2019**

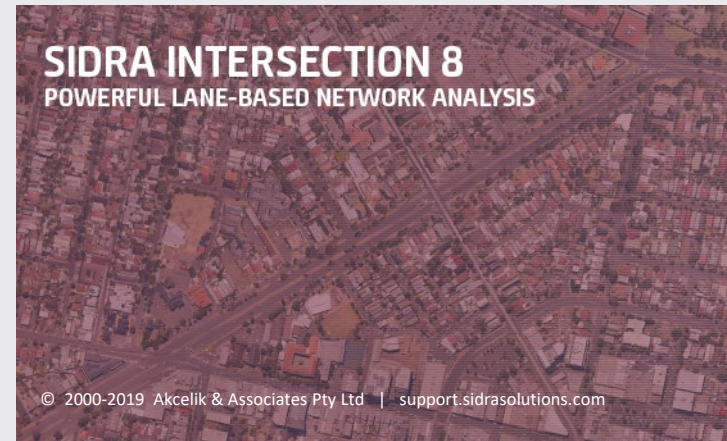
Updated: 17 Nov 2019

**SIDRA
SOLUTIONS**
CELEBRATING 20 YEARS

Meeting Objectives

To discuss

- ❖ areas of interest and modelling and other issues arising from the use of the software
- ❖ user case studies
- ❖ issues raised by users
- ❖ user needs
- ❖ **Application Programming Interface for SIDRA INTERSECTION (SIDRA API)** with presentations on a number of **practical SIDRA API program examples.**



Presentations

- ❖ **Meeting Objectives and SIDRA INTERSECTION Software Status**
Rahmi Akçelik, SIDRA SOLUTIONS
- ❖ **Some important issues raised in User Support Queries**
Mark Besley and Rahmi Akçelik, SIDRA SOLUTIONS
- ❖ **An introduction to using API for SIDRA INTERSECTION 8 and VOLUMES Utility**
Mark Besley, SIDRA SOLUTIONS
- ❖ **SIDRA BATCH Python program using SIDRA API**
Harry Cai, SIDRA SOLUTIONS
- ❖ **TRACKS – SIDRA Link**
Grant Smith, Transportation and Traffic Systems Ltd
- ❖ **Aimsun – SIDRA Interface**
Mohammad Saifuzzaman, Aimsun - A Siemens Company

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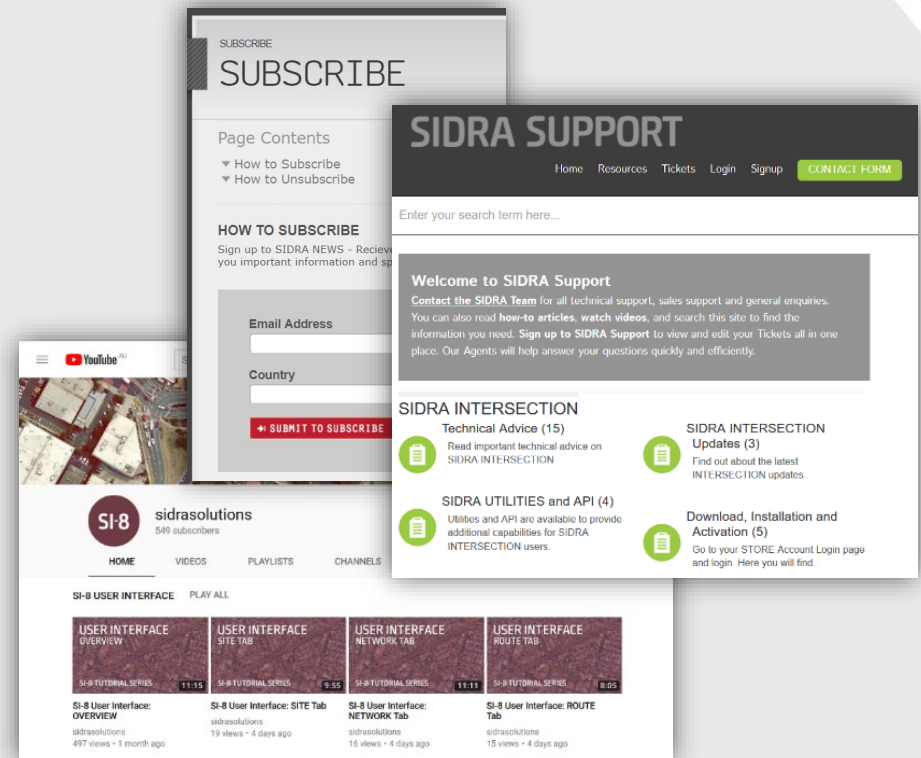
Presentations

- ❖ **Using SIDRA API for Emme and Dynameq - Practical Example**
Matthew van den Bos, Freelance Transport Modeller
- ❖ **Modelling High Capacity Flows in Emme, SIDRA and Dynameq**
Paul van den Bos, Freelance Transport Modeller
- ❖ **GTASIDRA - A Process Integration**
Rebecca Strachan, GTA Consultants
- ❖ **SIDRA INTERSECTION Version 9 demo and discussion on features**
Mark Besley, SIDRA SOLUTIONS
- ❖ **Melbourne P Turn example**
Rahmi Akçelik and Mark Besley, SIDRA SOLUTIONS
- ❖ **Saturation flow surveys with lane blockage**
Rahmi Akçelik, SIDRA SOLUTIONS
- ❖ **On SIDRA INTERSECTION model calibration**
Rahmi Akçelik, SIDRA SOLUTIONS



SIDRA SOLUTIONS Website

- ❖ **Subscribe** to SIDRA NEWS
- ❖ **SUPPORT** system
(Technical and Sales)
- ❖ **YouTube** Channel for latest **TUTORIAL** and **SUPPORT** videos
on all our software:
www.youtube.com/sidrasolutions
- ❖ **Training & Events**
About **370** training workshops with over
6600 delegates attending
during 2000 - 2019



SIDRA INTERSECTION: Strong Research Base

Empirical and theoretical methods combined ...

20 years at Australian Road Research Board
20 years at Akcelik & Associates (1999 – 2019)



Metering Signals Research for VIC ROADS



Documentation: Articles Page and Research Gate

Articles:

❖ sidrasolutions.com
ARTICLES page

❖ **RESEARCH GATE**

SIDRA ACADEMIC PACKAGE

Software Training:
sidrasolutions.com/Training/Directory

❖ **SIDRA MODEL Fundamentals**

The image shows a collage of three overlapping screenshots. The top screenshot is the SIDRA website header with navigation links: STORE, SOFTWARE, TRAINING, COMPANY, EVENTS, NEWS, ARTICLES, SUBSCRIBE, CONTACT, and SUPPORT. Below this is the 'ARTICLES' page, which lists 'ARTICLES FOR DOWNLOAD' and includes a link to 'AKÇELİK, R. (2017) SIDRA Glossary'. The bottom screenshot is a ResearchGate profile for Rahmi Akçelik, showing a circular profile picture, the name 'Rahmi Akçelik', and a ResearchGate logo. Below the name are two statistics: 'Reads 43,595' and 'Citations 1,993'. At the bottom right of the profile, it says 'Updated: 1 Nov 2019'. A small text box at the bottom of the profile states: 'Your total Research Interest is higher than 96% of researchers on ResearchGate.'

STORE SOFTWARE TRAINING COMPANY EVENTS NEWS ARTICLES SUBSCRIBE CONTACT | SUPPORT

ARTICLES / ARTICLES

ARTICLES



ARTICLES FOR DOWNLOAD

The following is a selected list of downloaded publications: [Highway Capacity](#), [SIDRA for Signals](#), [SIDRA Network](#), [CAITR](#), [SIDRA Glossary](#)

AKÇELİK, R. (2017) [SIDRA Glossary](#)

This glossary has been prepared to help in preparing this document are the SIDRA

SIDRA ACADEMIC PACKAGE
For the Traffic and Transport Engineers of the Future

 **Rahmi Akçelik** 

Reads
43,595

Citations
1,993

Updated: 1 Nov 2019

Your total Research Interest is higher than 96% of researchers on ResearchGate.

SIDRA INTERSECTION network model background

First released in 1984



Continuous development
in response to user feedback



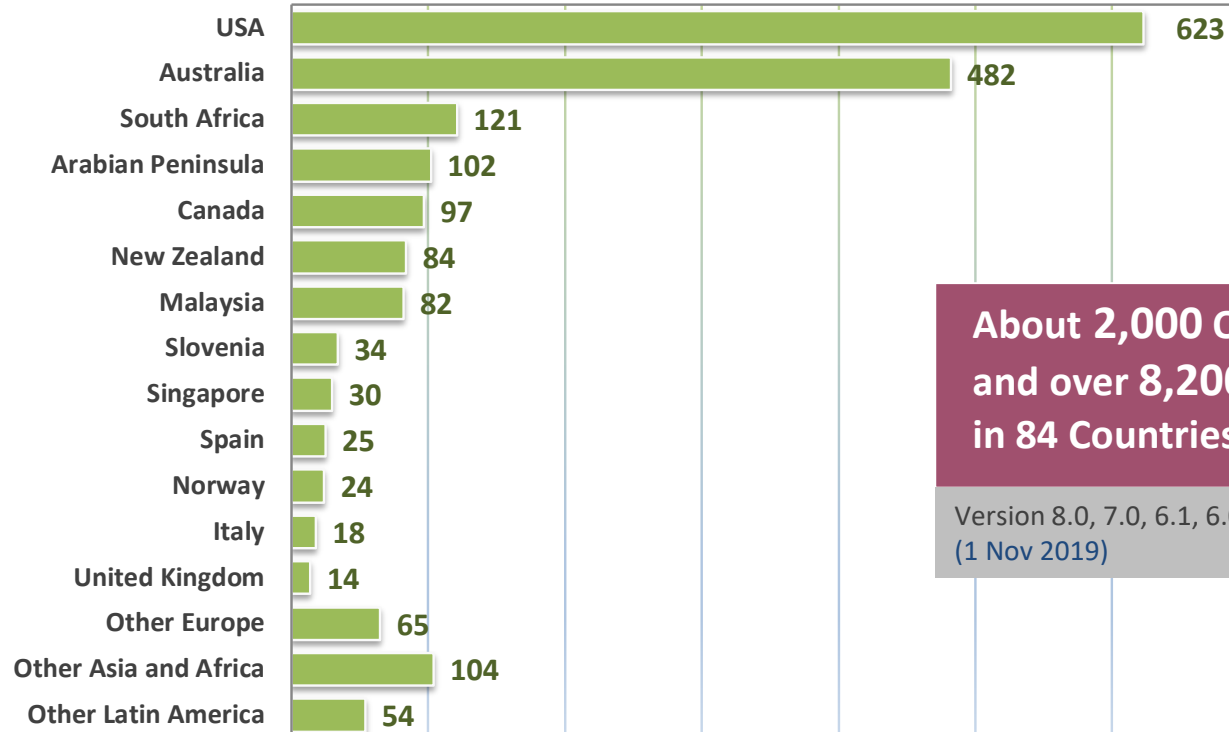
SIDRA INTERSECTION 8

Versions 6.0 | 6.1 | 7.0 | **8.0**
released during April 2013 - 2018

Biggest changes in the 35-year
history of the software

- ❖ Network Model
- ❖ Network Timings
- ❖ Routes
- ❖ Movement Classes
- ❖ Workflow Efficiency

SIDRA INTERSECTION Users



**About 2,000 Organisations
and over 8,200 Licences
in 84 Countries**

Version 8.0, 7.0, 6.1, 6.0, 5.1, 5.0 Users Only
(1 Nov 2019)

SIDRA INTERSECTION API, UTILITIES and LINKS

EXCEL applications

- **VOLUMES**
- **SIDRA Saturation Flow Survey**
- **SIDRA Back of Queue Survey**
- **SIDRA HOURS PER YEAR**
(for annual values)

Links with other software

- **TORUS**
- **AIMSUN**
- **TRACKS**
- **EMME - DYNAMEQ**

API sample programs (C#, C++ and Python)



END OF PRESENTATION

Thank you!



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