

Dallas – Fort Worth TexITE Joint Meeting May 2018

Simulation and Capacity Analysis User Group (SimCap)

Adaptation of SimCap presentation created by David A. Petrucci (FHWA).

<u>Outline</u>

- What is SimCap?
- History
- Locations & Organizations



About SimCap

- <u>SimCap</u> = <u>Sim</u>ulation & <u>Cap</u>acity Analysis User(s) Group
- <u>User(s) Group</u>: Group of motivated individuals who have organized to share information and enhance the practice of a common subject area
- Open to all persons with any level of interest or experience in traffic simulation, capacity analysis, and related practice areas.



Mission Statement

"A volunteer network of professionals working across geographic and organizational boundaries to share information, experiences, and to disseminate, promote, and develop guidance and best practices in the application of traffic simulation and capacity analysis tools, methods, and related practice areas."

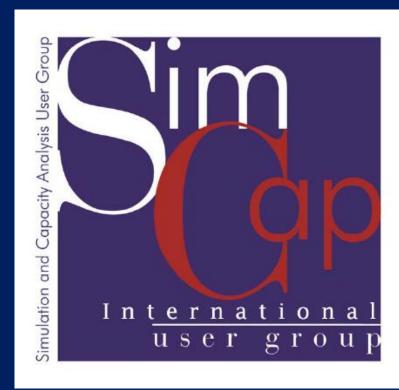


<u>Goals</u>

- **<u>Provide</u>** a forum for the meaningful exchange of ideas, research, questions, and trends
- <u>Serve</u> as a resource for practitioners and organizations by sharing experiences and developing guidance and best practices
- <u>Advocate</u> for consistency, reliability, and advances to the current state of the practice







History to Date

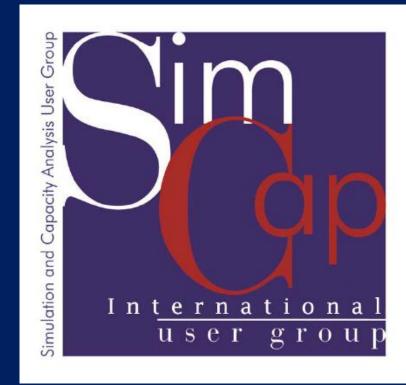
- Initially founded in June 2006 under the ITE North Carolina Section as a technical Users Group within the local traffic engineering council
- Created to improve the practice and understanding of traffic simulation and capacity analysis
- Initial meetings held as "Lunch & Learns" at local restaurants across the state



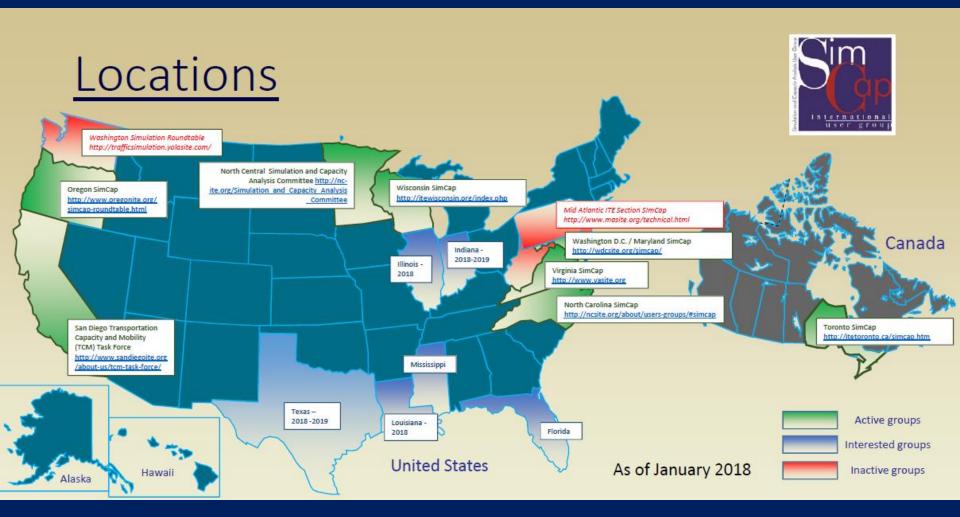
08-15-2017 Meeting

- 1. Overview of Analysis, Modeling, and Simulation Efforts, including the Transportation Systems Simulation Manual (TSSM)
- 2. Results from the TSSM State of the Practice Survey and Traffic Analysis Virtual Roundtable Findings
- Updates to the FHWA Traffic Analysis Toolbox (TAT) Volume III Microsimulation Guidelines and Scoping and Conducting Data-Driven 21st Century Transportation System Analyses
- 4. The Enhanced Transportation Flow Open-source Microscopic Model (ETFOMM) and Surrogate Safety Assessment Model Update (SSAM3.0) Project
- 5. USDOT Policy Review of Level-of-Service (LOS)



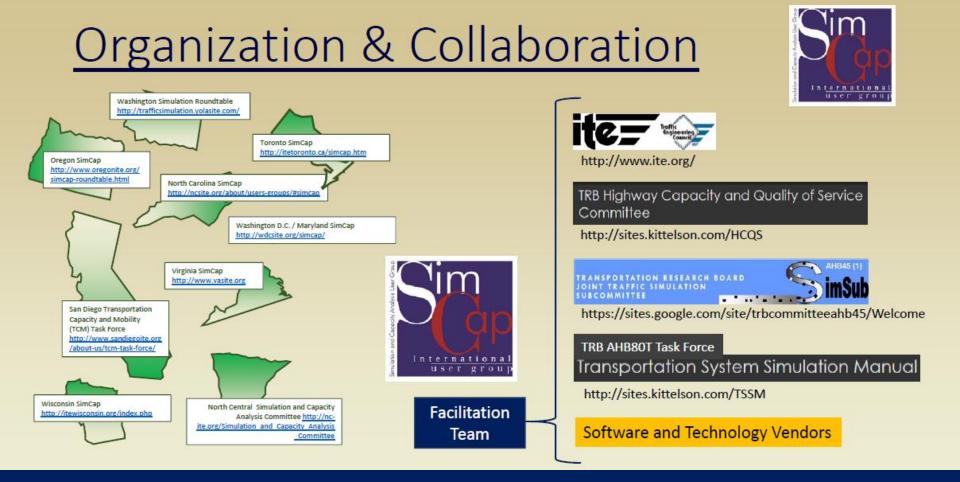


Locations & Organization





Dallas/Fort Worth TexITE Joint Meeting | 5/11/2018





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SimCap Facilitation Team

- Jess Billmeyer (AECOM) jess.billmeyer@aecom.com
- Matt Davis (City of Toronto) matthew.davis@toronto.ca
- Christa Greene (ITE) christa.greene@stantec.com
- Sanhita Lahiri (VDOT) sanhita.lahiri@vdot.virginia.gov
- Chris Melson (LSU) cmelson1@lsu.edu
- Dave Petrucci (FHWA) david.petrucci@dot.gov
- Bastian Shroeder (Kittelson) bschroeder@kittelson.com





Simulation and Capacity Analysis User Group

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Making Connections

- Communicating between members and others who are interested in the subject matter
- Training and presentations
- Modeling decisions and best practices



Possibilities

- Increase knowledge base
- Improve modeling consistency
- Influence perception of capacity analysis by nonengineers
- Emphasize importance of best practices
- Provide hub for user experience & perspective
- Build bridge between research & practice
- Sharing calibration techniques



Non-Possibilities

- Endorsing specific software products
- Advertising/marketing for your firm





Next Steps

National Level

- Potential meeting at TRB January 2019
- Develop a SimCap website (through 2018)
- Additional collaboration with TRB SimSub, TSSM Task Forse, ITE TENC, etc.



Dallas/Fort Worth Level

- Goal of having <u>quarterly</u> meetings
- First DFW meeting TBA (coming July/August)
- Collaboration with SimCap in Houston



Thank you!





Brian Kellogg, PE, PTP Transportation Engineer Stantec, Inc. brian.kellogg@stantec.com