

SimCap/SimSub Joint Meeting

June 9, 2022 | 2:00 – 3:30 PM EST

Held Virtually

Meeting Notes

1. Welcome

- Eric Tripi (SimCap Chair) initiated the meeting and welcomed attendees.
- Chris Melson (SimSub Co-Chair) facilitated the meeting.
- Doug Noble (ITE) provided the following ITE updates:
 - The next ITE SimCap Committee meeting will be held in-person—as part of the [2022 ITE Annual Meeting](#) in New Orleans, LA. It will be held on August 1 from 2:00 – 3:30p CST in the Proteus/Zulu rooms (Sheraton New Orleans).
 - Early bird registration for the [2022 ITE Annual Meeting](#) ends June 10.
 - The [2022 AASHTO Committee on Traffic Engineering Annual Meeting](#) will be held June 12–16 in Virginia Beach, VA.

2. Summary of Previous SimCap/SimSub Joint Meeting (March 23, 2022)¹

- The previous meeting (held virtually) included updates from several SimCap chapters, updates on FHWA traffic operations research, and updates from SimSub and its liaison committees. It included a presentation by TRB’s Traffic Simulation Research Subcommittee [ACP80(2)] on current, traffic simulation-related research needs. McTrans also presented on their TSIS-CORSIM 2022 software. Meeting notes were posted to the [ITE SimCap e-Community](#).

3. Summary of “Traffic Simulation through the Decades” ITE Webinar (April 28, 2022)¹

- SimCap held an ITE webinar that highlighted key advancements to the traffic simulation field, with presentations on: (1) the development of the first FHWA-produced traffic simulation model, (2) the FHWA-led NGSIM effort, and (3) current trajectory-level research. SimCap would like to thank the presenters: Mark Yedlin (GPI), Dr. Karl Wunderlich (Noblis), Dr. John Halkias (formerly FHWA), and Dr. Rachel James (FHWA). At its peak, there were 151 attendees.
- If you missed the webinar, the two former presentations were also presented at previous SimCap Louisiana meetings. A repository of those materials is located at: <https://simcap.eng.lsu.edu/meeting-archive/>.

4. SimCap Updates¹

- *Local:* The Oregon ITE SimCap chapter—jointly with the [Oregon Modelers Users Group](#)—held an expert dynamic traffic assignment panel on May 12th.
- *Local:* SimCap Louisiana plans to host their next meeting in late July (date TBD). It will include

a presentation by McTrans on the “Best Practices while Applying the HCM Methods”. More information will be disseminated once finalized.

5. SimSub Updates¹

- *SimSub*: SimSub’s User Needs Task Group developed a survey to better understand current uses and common challenges of traffic simulation. The survey was disseminated February through May 2022—and gathered over 140 responses. The survey is closed, and the User Needs Task Group is currently compiling the results. Chris Melson believes the results are useful for SimCap (can inform our activities)—and hopes to further discuss them at the next ITE SimCap Committee meeting.
- *SimSub Liaison Committees*:
 - *ACP20*: The TRB Freeway Operations Committee has scheduled their 2022 Mid-Year Committee Meeting for August 30–31 in Washington, DC.
 - *ACP40*: The TRB Committee on Highway Capacity and Quality of Service will hold their Mid-Year Meeting on June 20–22 in Washington, DC.
- *ACP80*: The TRB Committee on Traffic Simulation will host their Mid-Year Meeting sometime in September. More information will be disseminated once finalized.

6. Presentations

- James Colyar (FHWA), Mohammed Hadi (FIU), Dennis Mitchel (DKS), and David Hale (Leidos) presented on the FHWA-funded project to develop a “Traffic Analysis Capability Maturity Framework”. The framework (based on the TSMO capability maturity model, but significantly expanded and customized to traffic analysis) is to be used by agencies for self-assessment and to identify actions to improve their capability. It includes nine dimensions: culture, workforce, collaboration, business process, supporting data, analysis process and documentation, tool availability and capability, and performance estimation and measures. The final report is in the publication (508 compliance review) process. Please see the corresponding presentation slides for more details.
- David Stanek (Fehr & Peers) provided a useful, succinct overview of the changes/additions in the 7th Edition of the HCM. This included: enhanced pedestrian volume estimation and evaluation, capacity impacts of connected and automated vehicles (CAVs), a revised procedure for two-lane highway analysis, and a new network analysis method. Please see the corresponding presentation slides for more details.

7. Discussion

- Did not have time for discussion outside of the presentations.

8. Upcoming Meetings

- ITE SimCap Committee Meeting (at the 2022 ITE Annual Meeting)
 - Will be held on August 1 from 2:00 – 3:30p CST in the Proteus/Zulu rooms (Sheraton New Orleans).
- Next SimCap/SimSub Joint Meeting – October; details TBD

9. Adjourn

¹ Due to time constraints and prioritizing the two featured presentations, updates in Sections 2, 3, 4, and 5 were not discussed. For completeness, they are reported in this document.