



### TRB Urban Freight Transportation Committee (AT025) Meeting

Monday, January 11, 2021

2:00 pm – 4:30 pm (Eastern Time)

Zoom Link: To be provided within 48 hours of the meeting

Presiding: Bill Eisele, Texas A&M Transportation Institute, AT025 Chair

Welcome, Member Roll call, Committee Overview and Agenda Review (Bill Eisele) (2:00-2:10 pm)

- Use Google form for attendance, enter info in chat box if Google form doesn't work
- Rotation in April
- Leadership notes
- Overview of key dates – aim to in person Innovations Freight Data, Sept 21-23, Long Beach. *UPDATE: It has been determined that this conference will be virtual.*
- NCHRP problem statements, try to move up to Oct 1.
- Freight resilience conference Apr 8 – Joe Bryan
- Call for abstracts for workshop already mentioned – Alison Conway

TRB Staff Report (Scott Babcock) (2:10-2:20 pm)

- 100<sup>th</sup> annual meeting, Going well
- Server issues last week, resolved
- Freight data Beckman in Irvine; *UPDATE: this will be a virtual meeting*
- Next week workshops, posters, then lectern sessions
- Posters have a variety of files, open 24 hours a day, sessions are live Q&A, Videos for posters limited to 200mb
- Posters and lecterns available for 30 days; Lectern sessions recorded
- Exceeded 18,000 registrations (previous record 14k)

TRB Freight Group Update (Rick Bornhorst) (2:20-2:30 pm)

- Principle at FACTOR
- Appreciate everyone's flexibility during pandemic
- Equity is important to TRB, focus area
- 2022 theme: Innovating a more equitable, resilient, sustainable, and safe transportation system.
- Participate in Dean Lecture, Jan 25<sup>th</sup>.
  - o The Thomas B. Deen Distinguished Lecture will be given by Mr. Dorval R. Carter, Jr., President of the Chicago Transit Authority. Mr. Carter is recognized for his leadership in the transit industry and legal community, and for spearheading significant advances to public transportation. As the head of the nation's second largest transit agency, he oversees the delivery of some 500 million rides annually within Chicago and its suburbs. His lecture, entitled "Our Work is Never Done: Examining Equity Impacts in Public Transportation," will be on Monday, January 25, at 5:30 PM ET.
- Freight day:
  - o Atypical disruptions, supply chain, 1-2:30 Jan 25<sup>th</sup>,
  - o Tues 26<sup>th</sup>, 1-2:30 session on atypical disruptions changing freight tranpo
  - o Wed 1pm, transformative tech challenges opps
  - o Thurs 1: atypical disruptions shaping freight systems.

#### TRB Annual Meeting – AT025 Sessions/Activities (Bill Eisele) (2:30-2:40 pm)

- 2021 Theme: *Launching a New Century of Mobility and Quality of Life*
- See our session line-up (page 3)
  - See last page of agenda for details
  - DJ & Tamiko prepped workshop
  - Erica pulled together drone session
  - Ivan organized papers into two thematic sessions
- Committee members, contact info in agenda
- Other sessions of note (drop into the chat box)
  - n/a

#### (Old) Business – Summary of Dec 4, 2020 Business Meeting & Other Highlights (Bill Eisele) (2:40-2:45 pm)

- See meeting minutes available on website (<http://urbanfreight.tti.tamu.edu>)
- Problem statements submitted (see last page)
  - Survey, ranked, developed, worked with AASHTO, sent to them for prioritization
- Partner conferences
  - FHWA Urban Freight Roundtable, 11 March 2021 noon-2:00 pm ET
    - Usually at end of TRB, trying to give breathing room
  - VREF Conference on Urban Freight, 23-25 March 2021, Gothenburg, Sweden
    - Virtual event, all online. Dates the same. Working on schedule, aiming for more discussion than presentations.
  - 9<sup>th</sup> International Urban Freight Conference (I-NUF), 4-8 October 2021, Long Beach, California
    - State of industry on 4<sup>th</sup>, conference 5-8.
    - At the Hyatt. Stay tuned for call for abstracts, hope to do conference in person.
  - Innovations in freight data, Sept 21-23, Beckman Center, Irvine.
    - Possible midyear meeting opportunity. UPDATE from *BILL*: *this conference will be a virtual event now*
- Any other old business of note?

#### Recognitions and Membership Highlights (2:45-3:00 pm)

- Best paper awards (Ivan Sanchez-Diaz)
  - Application of the HARMONY Tactical Simulator to a Case Study for Zero Emission Zones in Rotterdam
    - Michiel De Bok, Delft University of Technology
    - Lorant Tavasszy, Delft University of Technology
    - Ioanna Kourouniotti, Delft University of Technology
    - Sebastiaan Thoen, Significance
    - Larissa Eggers, Significance
    - Victor Nielsen, Significance
    - Jos Streng, Gemeente Rotterdam (City of Rotterdam)
  - Commercial Vehicle Driver Behaviors and Decision Making: Lessons Learned from Urban Ridealongs
    - Giacomo Dalla Chiara, University of Washington
    - Klaas Fiete Krutein, University of Washington
    - Andisheh Ranjbari, University of Washington
    - Anne Goodchild, University of Washington
- Member rotation – recognition of service
  - Many with more than 9 years. Excellent mentors, will be missed.
    - Dr. Giorgio Ambrosino, MemEx
    - Dr. Michael Browne, University of Gothenburg
    - Dr. Tom Cherrett, University of Southampton

- Mr. Chip Millard, FHWA
- Mr. Peter Plumeau, EBP US
- Mr. John Tompkins, Minnesota DOT
- Ms. Akiko Yamagami, LA County Metropolitan Transportation Authority
- New member roles in April 2021
  - Erica Wygonik Vice Chair
  - Seekin Ozkul step into secretary, still problem statement help

AASHTO Freight Program Update (3:00-3:20 pm)

**Ms. Caroline Kieltyka, Program Manager for Freight, AASHTO**

Special committee on Freight: contributes to overall policy, central

Council on Water Transportation: policy water transportation programs, ports, waterways. Policy, regulatory, safety,

coastal, Great Lakes, inland waterways

Council on Rail Transportation: all policy, regulation, safety, operation, investment in

freight & pass rail, specific group within focus on freight rail (freight state)

Comm on Trans System Operations, Working Group on Freight Operations: focus on freight system operations goal of improving safety and system reliability, system performance, permitting standard, truck parking, av platooning

Committee on Planning, Freight Planning Task Force. Freight planning issues, only discuss freight planning. All 50 states, 4 regions.

Special committee on freight:

6 goals.

G1: develop support legislation, regulation, and other policy

G2: improve freight trans planning practices

G3: increase understanding of emerging tech

G4: Improve urban, rural, multi-state, cross-border and international freight mobility

G5: promote a freight transportation system that supports community and environmental goals

G6: inform member departments of federal and state regulatory, policy, and program requirements and funding opportunities related to freight transportation

Key priorities

Surface transportation reauthorization

House bill \$4 mil for freight per year, not senate. Continue to advocate for it

MPO outreach

Capacity building & webinar series development

Trucking parking

Economic impacts of freight system improvements

Research needs:

Truck parking, past NCHRP 2 funded projects

08-140 identifies national interoperability standards, 08-141 guidance for local truck parking regs

Bridge strikes, nchrp 08-139 method to prevent bridge strikes by trucks

Other areas: congestion freight bottlenecks, covid-19 impacts, rural & urban goods movement, CAV/AV

## Freight at AASHTO

- **Special Committee on Freight**

- Chair: Luke Reiner, Wyoming DOT
- Vice Chair: Caroline Mays, Texas DOT
- AASHTO Staff Liaison: Caroline Kieltyka

- **Council on Water Transportation**

- Chair: Kevin Thibault, Florida DOT
- Vice Chair: Cheryl Ball, Missouri DOT
- AASHTO Staff Liaison: Caroline Kieltyka

- **Council on Rail Transportation (Freight Rail)**

- Chair: Joseph Giulietti, Connecticut DOT
- Vice Chair: Matt Dietrich, Ohio Rail Development Commission
- AASHTO Staff Liaison: Caroline Kieltyka

- **Committee on Transportation System Operations, Working Group on Freight Operations**

- Co-Chairs: Geno Koehler, Illinois DOT & Dave Huft, South Dakota DOT
- AASHTO Staff Liaison: Pat Zelinski

- **Committee on Planning, Freight Planning Task Force**

- Chair: Tom McQueen, Georgia DOT
- Vice Chair: Mike Vanderhoof, Illinois DOT
- AASHTO Staff Liaison: William Lusk

## NCHRP

5.5% of each state's planning & research funds → About \$40 million/year.

### Applied research program

Priority 1: important to state DOTs

P2: national, shared issues.

Research by contractors, oversight expert panels, facilitation/contract management by TRB staff

Proposal submitted by State DOTs, AASHTO councils & committees, FHWA,

Selected by AASHTO special committee on research & innovation (R&I)

Once selected for funding, have to be approved by AASHTO board of directions (CEO of each DOT), has to receive 2/3rds approval vote, NAS & FHWA also approve projects

R&I gives extra points if supported by states/committees.

Special committee on freight and other committees have opportunity to provide additional input.

Sending proposals earlier helps. Idea is for AASHTO to host research symposium in cooperation with TRB research committees, generate ideas to fund in upcoming cycles, hopefully reauthorized freight research program. Would look broadly at different freight needs. Create dialogue, what research needs priority. Separate from symposium put together better timeline with TRB to submit proposals for our approval. Work with TRB over next months to determine logistics.

### Questions:

Dan Murray, ATRI: Are your modal reps (e.g. trucking) private sector members?

CK: no, leadership committee tasks with represent those modes. Special Committee starting, AASHTO as a whole, beginning to have friends of committee, have different association/private sector involvement.

Laetitia Dablanc Univ G. Eiffel: Caroline, what were the most useful freight research to States over the recent years?

CK: we've supported at least 4, in last cycle, we supported 7 freight related research projects. The most useful ones are from working together with TRB committees to develop the full proposals. Just from my experience in last 2 years.

Caroline Kieltyka, Program Manager for Freight, [ckieltyka@aaashto.org](mailto:ckieltyka@aaashto.org), 202-624-8489

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### *Urban Freight Movement Challenges, Solutions and the "New Normal"* (presentation/Q&A) (3:20-4:00 pm)

Mr. Tom Madrecki, Vice President of Supply Chain, Consumer Brands Association

Consumer Brand Ass: unites the \$2 trillion consumer packaged goods industry, handful that aren't, but if a product with a brand name, probably a member. Goal to shape the landscape for growth across supply chain, packaging, and product regulation. (he leads supply chain) low margins, supply chain costs have substantial business impact.

- Pandemic raised profile of supply chains. Mostly recovered, still stressed. Supply chain managers working overtime to ensure essential goods are available.
- COVID-19 challenges: worker health & safety, absenteeism & labor availability, PPE scarcity & sourcing, rising transportation costs & capacity crunch, essential worker definitions & business continuity, radical demand shifts & elevated purchasing levels, retailer collaboration & shift to e-commerce, global pandemic – global supply chain disruptions.
- 5-10% front line worker absenteeism
  - o Most are not what seen on news, without spacing, etc.
- Masks, gloves not in supply. Run on soap, or plastic dispensers in commercial facilities that dispense soap.

- Trucking reliant.
- Tricky guidance in terms of what the covid rules were in different places. Not demand for stadium paper towel, but home, can't just put that in stores to meet demand.

Covid accelerated e-commerce, home delivery. Certain product categories, hand sanitizer, wipes. Clorox 200% increase demand still.

10% year over year growth in demand from at-home consumption, still in Oct.

2019, food & bev was 1.6% of ecommerce, doubled to 3.3%.

Shifted skeptics from online grocery buying, now consider that as an option or use as an option. Change how they think about buying schedule, how plan for meals.

Most members are manufacturing side, some have direct to consumer – dollar shave club from P&G, PepsiCo has snacks.com

All interrelated, order from whole foods on Instacart, whole foods owned by amazon.

New ways: direct delivery, click and store, curbside. Still figuring out what's the best model. Not a single best from business perspective, depends on products selling, consumers, circumstances, retail landscape in area, physical location of store.

Not sure stuff they were ordering online, opened more perishable goods online, furthering that.

Nearly 80% of consumers will use online ordering for at least some groceries. Pre-pandemic more lukewarm.

Change how people approach shopping. More big stuff in person. When go out to make most of their time.

Shift in demand cycle, require companies to step up and around-the-clock operation.

Accelerates e-commerce 5-10 years.

Other ways of doing business, do they need in town Walmart of just dark store outside city that ships stuff in.

Exposes margin issues for click-and-collect and home delivery. Neither works well.

e-commerce works well for make up jewelry, high value. Harder to make margins work when it comes to bring target, 2 boxes Kleenex, someone pick and deliver, waste and excess company incurring consumer like it, but companies need to figure out, what is the right model for last mile, situation, contrary to old position at UPS, onus on retailers, delivery companies, platform providers.

Role for robots/automation to fill delivery gap need

Product design/sku/changes, what is packaging of products, more home delivery, degree of consideration in terms of packaging to save money/make easier.

Dark stores, what retail means, what fulfillment models suited to urban environment. Some stores try to convert existing operations, footprint in city, pivot to micro-fulfillment in back, others no store front, dark store, automate it, operates out of city, delivers into city, changing landscape. Watch monitor.

Space quickly changing, new business start-ups venture capital, last mile, trying to figure it out. growth in e-commerce. Not just grow and cause congestion. Account for, address. If e-commerce continue to rise, changing needs curbside management, what happens more upstream to facilitate more efficient last mile. Encourage govt focus on supply chains issues, CBA, [], Iowa state urban freight issues forthcoming report.

From Anne Strauss-Wieder to Everyone: 03:32 PM

Tom -- could you also please talk about BOPIS -- how much it has grown, whether it is factored into ecommerce figures, future trend thoughts, etc. Thx.

TM: it's definitely grown, I'd have to go back to the data, what is ecommerce or buy online pick up in store, if that's in ecommerce. What is going to be sustainable for retailer community to execute on, after pandemic. Right now, willingness to use it to have as part of value proposition to customers, point of attraction. Refine model, what is cost structure that works with it. Hierarchy of interest on part of consumers. In ideal perfect

world, just get it to their home, 2 hour free delivery window, if not available, swing by whole foods, pick up order. Tier it down to what suits their needs.

From James Shankel to Everyone: 03:48 PM

Will the referenced forthcoming report regarding supply chain and resiliency also include any sort of focus on equity considerations?

TM: there is in the context of, both the cost sampling as well as affordability, intersection of keeping supply chain efficient, making goods accessible in all areas. The report surveys existing roles of governments, id different policy levers that might be pulled going forward. Threaded throughout in access affordability.

From Sandra Rothbard to Everyone: 03:49 PM

What do your members think about autonomous delivery? While they aren't carriers themselves, is this something they'll see as a good opportunity for them or at the very least, something their customers would be interested in?

TM: had a lot of conversations with members, beholden to carrier base, owner-operators, small trucking companies. Number 1 issues from supply chain execs, volatility in trucking marketplace, claro pp for CPG to position as leading advocate for AVs, a number of companies have done tests, sample use cases, Land o Lakes, AV truck across the country, move AV butter. Clear opp, try to predict when more viable one, area of interest, this year for our association, trying to partner and think about what are right opp out there for CPG community to increase investment and interest in that regard.

From Fatemeh to Everyone: 03:50 PM

@Tom. very informative presentation . Do you mind sharing ?

He is open to that, post on website.

have you published a paper/ report about your findings?

From Julia Thayne to Everyone: 03:51 PM

Tom - thanks for your presentation (which was great). You mentioned that some CPG companies are looking to invest in their own fleets for transportation. Would this be for long-haul or last-mile delivery, and what might owning their own fleets mean for the rest of the logistics industry?

Tm: each company has different systems. Some send their employee in to do sticking in addition to stocking.

From Alison Conway to Everyone: 03:51 PM

Thanks, Tom. You mentioned a 5-10 year acceleration in e-commerce strategies. Do you think (public) infrastructure will be a barrier? Or what do you think are the implications for cities, etc.?

TM: question some of previous work at UPS, 100% think public infrastructure and regulation of it can be a barrier. Not enough curb space in general for number of trucks in NYC. Demand for curb space only going to increase. Way cities consider what is available. Onus on cities to keep pace with evolving marketplace. Not just delivery companies ups fedex, dhl, all the sudden, guy white unmarked car also making freight delivery, guy on a scooter. Different uses need to be accounted for. Need to adapt curb to end goal/vision of city. Silver lining to covid, some cities have given thought to change use of parking or road for deliveries or restaurants.

From Joseph Bryan to Everyone: 03:58 PM

Have there been any restriction of Amazon vans as not commercial vehicles?

TM; I haven't seen anything, or portrayed as commercial vehicles. A

JB: advertising new vans, 4 wheeled, not require commercial license.

TM: I haven't seen that. To drive a UPS long haul trailer, to have a commercial drivers license, but you don't to drive certain package cars. I was driver at UPS didn't need commercial driver's license but still comply with commercial parking.

From Paul Bingham IHS Markit to Everyone: 04:00 PM

Non commercial vans just because they are under 26,000 lbs

From Anne Strauss-Wieder to Everyone: 04:00 PM

Joe -- have not seen that as an issue in our region.

From Stephen Holliday, JD MBA - LADOTD to Everyone: 04:01 PM

Sprinter van drivers usually do not need a commercial driver's license (CDL), though a few states require that you obtain a chauffeur's license if you transport passengers professionally. ... Owner operators need to register their vehicle with their state's Department of Transportation and obtain insurance

Announcements & Discussion (adjourn by 4:30 pm) (4:00-4:30 pm)

- Fill in form
- Bill will set up quarterly calls.
- Will do a photo of screen with members.
- Allison: innovations in freight data conference in Sept. Link in chat box call for abstracts, official TRB announcements hasn't gone out. collecting abstracts, slightly different focus.
  - o First year was let's see what's out there, 2<sup>nd</sup> year, demo way using innovative data sources, this year also increased focus on invited panels on using these tools for decision making, how integrating innovative data sources into innovative decision making.
  - o Announcement Link for Innovations Workshop (abstract deadline feb 8<sup>th</sup>): <https://www.dropbox.com/s/yq5i2xlo3od0cwi/FDW2021.CFA1-Pager.v2.pdf?dl=0>
  - o Do anticipate other freight committees to meet with it for midyear, AT045.
- Noel Comeaux – marine passenger ferry can carry packages, ups, bikes, etc.
- Chip Millard: The January Talking Freight webinar will be held on Wednesday 1/13 and focus on current developments in connected and automated trucks. Talking Freight webinar registration link and description:  
[https://connectdotcpub1.connectsolutions.com/content/connect/c1/7/en/events/event/shared/default\\_template\\_simple/event\\_registration.html?connect-session=breezbreez3yfi25urwbbyfpaa&scoid=1298500256&\\_charset\\_=utf-8](https://connectdotcpub1.connectsolutions.com/content/connect/c1/7/en/events/event/shared/default_template_simple/event_registration.html?connect-session=breezbreez3yfi25urwbbyfpaa&scoid=1298500256&_charset_=utf-8)
- Special Issue "Information Systems and Technology of City Logistics and Urban Freight" see the link: [https://www.mdpi.com/journal/logistics/special\\_issues/information\\_systems\\_logistics](https://www.mdpi.com/journal/logistics/special_issues/information_systems_logistics)
- Miguel A Jaller Martelo : Freight track at the World Symposium on Transport and Land Use Research. The deadline is February 15th. <http://wstlur.org/symposium/2021/callforpapers/index.html>
- Alison Conway Resiliency: <https://trb.secure-platform.com/a/page/freightsystem> Feb 8th early reg deadline.
- Trina Martynowicz, U.S. EPA. August 16-18th in person (hopefully) in Tacoma, WA- The 10th annual Green Transportation Summit & Expo (GTSE) is the region's premier clean transportation convening event. With this year's theme of Reflecting + Refocusing on a Resilient Future, we are giving particular attention to recent events affecting our communities and livelihood. We will be creating space to ensure these critical topics are addressed. The GTSE focuses on the clean fleet at the intersection of policy, technology, practice, equity, and the future of mobility with a regional focus and national lens. This conference is co-hosed by the U.S. EPA's West Coast Collaborative, which brings stakeholders key to reducing heavy-duty diesel reductions in significant fleets across the continent.  
<https://www.gtsummitexpo.socialenterprises.net/>
- The Chicago Metropolitan Agency for Planning (CMAP) is requesting proposals from interested consultants for a truck routing and communities study for south Cook County, as described in the enclosed Request for Proposals (RFP).  
<https://www.cmap.illinois.gov/documents/10180/1172518/RFP+249+South+Cook+Truck+Routing+FINAL.pdf>
- Offer to meet during INUF in October.

*Questions? Want to get more involved? Contact us!*

Bill Eisele, Chair, [b-eisele@tti.tamu.edu](mailto:b-eisele@tti.tamu.edu), 979-317-2461; <https://urbanfreight.tti.tamu.edu/>

## AT025 TRB Urban Freight Transportation Team

As of April 2021, thanks for the 9+ years of service from each person in ***bold/italics*** below!

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## **AT025 Co-sponsored Activities**

Online Program here: <http://www.trb.org/AnnualMeeting/AnnualMeeting.aspx>

- (Workshop 1024) "Food Deliveries in Times of Uncertainty," Thurs, Jan 21, 200pm-500pm ET (DJ Mason & Tamiko Burnell), with AT015, AT030, AT045
- (Workshop 1038) "Freight Planning & Operational Logistics for the 'New Normal,'" Fri, Jan 22, 1000am-100pm ET, with AT015
- (Workshop 1033) "Breaking Down Silos to Embrace Life in a Multimodal Performance Based Solution," Fri, Jan 22, 1000am-100pm ET, with AKD10, ACH10, ACH20, ACP40, ACP60, ACS20, AJE40, AJL70
- (Session 1057) "Drone Delivery May be Useful, but Annoying: What Can be Done to Mitigate Noise Impacts to Ensure the Success of Drone Use?" Mon, Jan 25, 1000am-1130am ET (Erica Wygonik)
- (Session 1096), Freight Day, Part 1: "Atypical Disruptions in Supply Chains," Mon, Jan 25, 100pm-230pm ET
- (Session 1200), Freight Day, Part 2: "Atypical Disruptions Reshaping Marine Transportation," Tues, Jan 26, 100pm-230pm ET
- (Session 1292), Freight Day, Part 3: "Transformative Technologies: Challenges and Opportunities," Wed, Jan 27, 100pm-230pm ET
- (Poster 1335) "Policy and Planning Applications Impacting Urban Freight Transportation," Wed, Jan 27, 400-pm-530pm ET (Ivan Sanchez-Diaz)
- (Session 1389), Freight Day, Part 4: "Atypical Disruptions Reshaping Freight Systems," Thurs, Jan 28, 100pm-230pm ET
- (Poster 1423) "Tools and Techniques to Improve Home Deliveries and the Last Mile," Fri, Jan 29, 1000am-1130am ET (Ivan Sanchez-Diaz)

## **Statements Submitted for NCHRP FY 22 Program (Team Members)**

- "A Best Practices Handbook for Overcoming Just-in-Time Delivery Challenges," (Lead: Alireza Ermagun; with Robyn Bancroft, Carole Delion, Heather Monteiro, Sushant Sharma)
- "Communicating the Value, Interactions, and Impacts of Freight to Stakeholders)," (Lead: Laura Gilmore; with John Tompkins, Casey Wells, Verena Ehler, Alissa Torres, Sushant Sharma, Brian Hunter)
- "COVID-19's Influence in Shaping E-commerce and It's Last-Mile Impact," (Lead: Vijay Sivaraman)