#### **CDTC**

### Freight Advisory Committee



MEETING MINUTES
November 14, 2018 9:00 AM
CDTC Office, 1 Park Place, Albany, NY
12205

#### 1. Attendees

Maria Chau FHWA – NY (via phone)

Jeff Gritsavage New York State Canal Corporation

Louis Esposito Owner Operator Independent Drivers Association/Town of Princetown

Tony Vasil Port of Albany

Jeff Wojtowicz

Jose Holguin-Veras

Tom Werner

John Scavo

Rensselaer Polytechnic Institute

Rensselaer Polytechnic Institute

Saratoga Co./CDTC Policy Board

Town of Clifton Park (via phone)

Kendra Hems
Jacob Beeman
Michael Franchini
Chris Bauer

Trucking Association of New York (via phone)
Capital District Transportation Committee
Capital District Transportation Committee
Capital District Transportation Committee

#### 2. Statement from FHWA-NY (Maria Chau, FHWA-NY)

Maria Chau (FHWA-NY) gave a brief statement notifying the committee of a potential upcoming funding opportunity. Maria stated that there will be an INFRA grant solicitation coming sometime in the near future and that interested agencies should be prepared for application, as these grants typically have a short turnaround for submission (1-2 months). Chris Bauer added that this short turnaround was noted during the last round of INFRA grants and supported the statement that interested agencies should already be thinking about potential projects now.

Jose Hoguin-Veras asked what types of projects are typically funded through this type of grant. Maria responded that they are typically looking for projects over \$25 million and that have a positive impact on economic development.

## 3. Presentation — Overview of Freight Transportation Research at Rensselaer Polytechnic Institute (RPI) (Jose Holguin-Veras, Jeff Wojtowicz, RPI)

Jose Hoguin-Veras, William H. Hart Professor, Director of the Center for Infrastructure, Transportation, and the Environment, gave a presentation about the freight-related transportation research conducted at RPI. Jose began the presentation by providing some background on the



Center of Excellence for Sustainable Urban Freight Systems. RPI has completed several research projects by building on past projects and testing the theories in real-world environments. Many of their projects center on applying new technologies to changes in freight operations and travel behaviors. Some of the projects described in more detail included the pilot off-hours delivery program, Freight Trip Generation (FTG) software, and freight initiative selector.

The group discussed the pros and cons of the some of the behavior-based programs. Jose mentioned that often these programs can reduce costs to shippers and receivers. Chris Bauer emphasized the importance of the relationship with RPI, and the outcomes have been mutually beneficial.

## 4. Presentation — 2019-2024 Transportation Improvement Program (TIP) solicitation (Mike Franchini, CDTC)

Mike Franchini, Executive Director of the Capital District Transportation Committee (CDTC), gave a presentation describing the CDTC Transportation Improvement Program (TIP) update process to the FAC. The presentation began with a brief description of CDTC, our members, and the role of Metropolitan Planning Organizations (MPOs). Mike then highlighted the importance of the TIP and how the projects included for funding must reflect the recommendations, goals, and priorities that are outlined in CDTC's long-range regional transportation plan (New Visions 2040). In addition to supporting the goals in the regional long range plan, Mike noted that projects must now also support achieving seven new federal performance targets.

Mike then described the process that NYSDOT will use to determine funding levels for the region, and subsequently, how CDTC staff will determine funding necessary for the remaining projects on the existing TIP. Once this value has been determined, the remaining balance will be the funding left to solicit for new projects. Mike's presentation went on to elaborate on the process that CDTC staff uses to evaluate and compares each new candidate project's quantitative and qualitative benefits and the proposed schedule for the 2019-24 project solicitation. Finally, Mike outlined how the FAC (as well as all other CDTC advisory committees) are asked to evaluate candidate projects using their expertise in their particular field to make project recommendations to the Planning Committee and Policy Board to aid in the final selection of funded projects.

For more information on the 2019-24 TIP solicitation, please see the attached PowerPoint presentation.

#### 5. Update - NYS Freight Plan

There were no NYSDOT representatives at the meeting; however, Chris Bauer provided a brief update on the plan from a recent NYSAMPO Freight Working Group Meeting. Chris stated that plan is under executive review, which at the time was expected to be completed by the end of the calendar year. Chris highlighted the following three National Highway Freight Program (NHFP) projects in the Capital Region that are expected to be included in the plan.

- 1. Rehabilitate I-90 Bridge over Fuller Rd (City of Albany) \$7.3 mil
- 2. I-87 Exit 4, Airport Connector (ALB) \$2.7 mil
- 3. Construct turn lanes at NY 67 & Norfolk Southern, Mechanicville entrance \$1.0 mil



#### 5. Discussion - CDTC Freight Planning Initiatives

Chris Bauer stated that CDTC has been working on expanding their Freight Advisory Committee mailing list and reaching out to potential new members. Jacob Beeman added that if any of the current members have anyone they think may be interested in participating feel free to invite them to be a part of the committee.

Chris Bauer mentioned that CDTC will be beginning work on the Rt. 7 Freight-Land Use Study in Princetown, Duanesburg, and Rotterdam in the next few months.

Jose mentioned that RPI would be able to provide data on the Freight Priority Network roads if needed.

#### 6. Discussion - Member Items

Tony Vasil stated that the Port of Albany recently had a dedication ceremony for the new warehouse that will be operated by Dagen Trucking. The warehouse was originally built for GE, however, changes in their business plan did not allow for them to operate the building.

#### 7. Action Items/Next Meeting

Action items:

Complete Doodle Poll by Friday November 16th to choose the next meeting date for the FAC.

Next Freight Advisory Committee Meeting Date:

- January 8, 2019, 1:30 3:00 PM
- Remaining 2019 Meeting Schedule (tentative) May 15, August 21, November 20

All meetings will begin at 9:00 AM unless otherwise specified. The meeting was adjourned at approximately 10:30 AM.



# Capital District Transportation Committee Freight Advisory Committee Meeting

November 14, 2018



## Today's Agenda

- 1) Welcome and Introductions
- 2) Presentation Overview of Freight Transportation Research at RPI (Jose Holguin-Veras, Jeff Wojtowicz, Rensselaer Polytechnic Institute)
- Presentation 2019-2024 Transportation Improvement Program (TIP) Solicitation (Mike Franchini, CDTC)
- 4) Update NYS Freight Plan (Dave Rosenberg, NYSDOT or rep.)
- 5) Discussion CDTC Freight Planning Initiatives (Chris Bauer, CDTC)
- 6) Discussion Member Items
- 7) Action Items/Next Meeting
  - 2019 Meeting Dates: January 2-11 (TBD), May 15, August 21 (Tour), November 20
- 8) Adjourn



## Winter 2019 Freight Advisory Committee Meeting

- Typically held in February
- Will need to be rescheduled to allow comments on TIP projects
- January 2-11
- Please complete Doodle Poll by COB Friday, November 16
- Doodle Poll direct link: <a href="https://doodle.com/poll/wypiuw44kuatcwkm">https://doodle.com/poll/wypiuw44kuatcwkm</a>



## NY State Freight Plan

- National Highway Freight Program (NHFP) Projects, Capital Region
  - 1. Rehabilitate I-90 Bridge over Fuller Rd (City of Albany) \$7.3 mil.
    - State of Good Repair on FPN
  - 2. I-87 Exit 4, Airport Connector (ALB) \$2.7 mil.
    - Intermodal Connection
  - 3. Construct turn lanes at NY 67 & Norfolk Southern, Mechanicville entrance \$1.0 mil.
    - Safety, Intermodal Connection
    - CUFC designation change



## **Action Item**

- Winter FAC Meeting January 2-11
  - Please complete Doodle Poll by COB Friday, November 16
  - Doodle Poll direct link:
     https://doodle.com/poll/wypiuw44kuatcwkm



## CAPITAL DISTRICT TRANSPORTATION COMMITTEE TIP Candidate Project Evaluation FAC Meeting 11/14/18





**Federal Transportation Programming Process** 

## What is CDTC?

- □ CDTC is a regional, public, federally-funded planning agency, a Metropolitan Planning Organization (MPO) established to:
- ☐ Plan for future transportation improvements, and program millions of dollars in federal transportation funding
- ☐ Provide local input to the regional transportation process
- ☐ The Federal Highway Act of 1962 required the formation of MPO's for any urbanized area with a population greater than 50,000

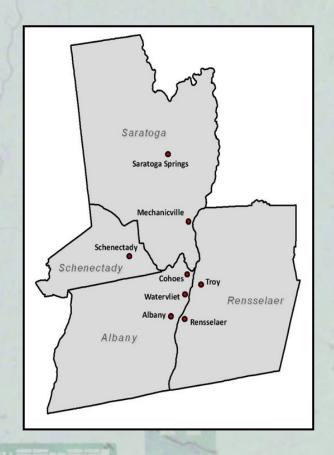


## Who are the Members?

- ☐ CDTC established in 1964
- ☐ 21 members including elected officials and representatives from:
  - Each County
  - All 8 Cities (2 metropolitan areas)
  - The Town of Colonie
  - 2 rotating town representatives
  - Every regional transportation agency including CDTA, CDRPC, NYSDOT, NYS Thruway, Albany International Airport, and Albany Port District Commission



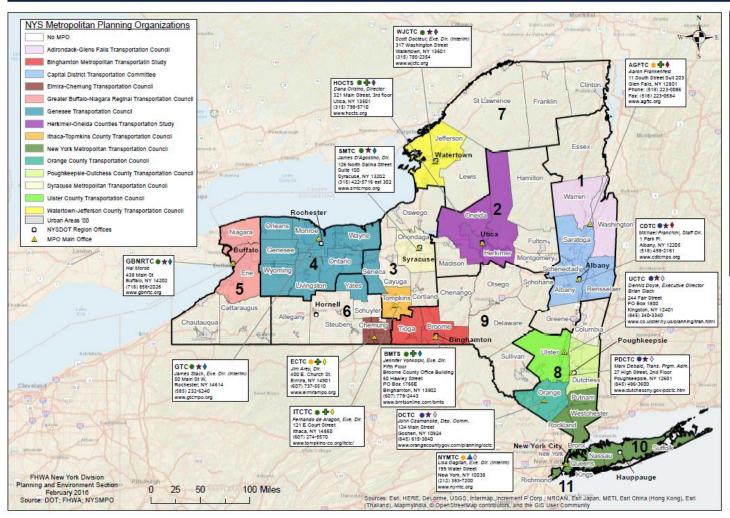
Planners & Engineers





## Where are the other MPOs?

#### **New York State Transportation Planning Contacts**



#### Federal Contacts

#### FHWA

- ★ Maria Chau (518) 431-8878 Senior Community Planner
- ▲ Karen Rosenberger (212) 668-6091
- Intermodal Transp. Coordinator
  Benjamin Fischer (518) 431-8863
  - Transportation Specialist
- Valeriya Remezova (518) 431-8862 Planning and Environment Team Leader

#### Anna Price - (518) 431-8858 Director, Office of Program Management

#### FTA

- Nancy Danzig- (212) 668-2177 • James Goveia- (212) 668-2325
- James Goveia- (212) 668-2328
   Daniel Moser- (212) 668-2326
- Nina Chung- (212) 668-2180 • Victor Waldron- (212) 668-2183

#### FHWA NY Division Area Engineer Region Assignments (through March 2016)

Regio	on Assignment	s (through
1-	Weibel	x 8891
2-	Millington	x 8841
3-	Millington	x 8841
4-	Anker	x 8896
5-	Anker	x 8896
6-	Kowalczyk	x 8892
7-	Toni	x.8867
8-	Kowalczyk	x 8892
9-	Weibel	x 8891
10-	Nickelson	x 8887
11-	Mondillo/Beers	x 8859

#### **NYSDOT Contacts**

#### Statewide Planning Bureau

Marty Neveu, Dir. (Acting)	(518) 457-3438
Cathy Kuzsman	(518) 457-6144
Lisa Cataldo Colleen Smith-Lemmon	(518) 485-7556
♦ Korle McAllister	(518) 457-6201
O Harriet Lewis	(518) 485-0990
V namet Lewis	(518) 485-0196

#### Project Management Bureau

Supervisor	Bill Hebert	(518) 457-4086
Region 1, 5	Mike Jackson	(518) 457-1716
Region 2, 3, 9	Tammy Stollker	(518) 485-7551
Region 4, 6, 7	Mike Shaker	(518) 457-0726
Region 8, 10, 11	John Morrone	(518) 457-7478
Recreational Trail		3/05/3/05/05/05/05

#### Regional Planning & Program Managers

1-	Frank Bonafide	(518) 485-8459
2-	Alice Romanych	(315) 793-2450
3-	Mark Frechette	(315) 428-4409
4-	Dan Hallowell	(585) 272-3410
5-	Ramsey Kahl	(716) 847-3241
6-	Andrew Williams	(607) 324-8411
7-	Scott Docteur	(315) 785-2354
8-	Tom Weiner	(845) 431-5723
9-	Pam Eshbaugh	(607) 721-8250
10-	(Acting) Glenn Murrell	(631) 952-6108
11-	Luis Calderon	(718) 482-4765

- 5-year capital plan for federal transportation funding
- For CDTC about \$63 million per year including all State and local projects
- Must reflect recommendations, goals, and priorities in the long-range regional transportation plan (New Visions)!
- Must contribute to achieving (07) new performance targets!



## **Federal-Aid Eligibility**

- Based on FHWA highway functional classification
- Based on
  - service provided & traffic volume
  - connectivity to the system
  - road condition
  - urban or rural
- Must meet high standard



## STEPS:

- 1. NYSDOT determines the federal funding for each DOT Region. If the DOT Region has more than 1 MPO, they determine funding for each MPO.
- DOT Region and MPO staff determine the funding needed for projects on the existing TIP and regional set-asides. Planning Committee approves.
- 3. Depending on the fund balance, call letters are mailed to all 77 municipalities requesting project candidates.



## STEPS:

- 4. Staff reviews applications and contacts sponsors to clarify information and answer any questions.
- 5. Staff evaluates each project for eligibility, calculates a benefit/cost ratio, and scores qualitative benefits.
- 6. Planning Committee reviews project scopes and evaluations, and programs projects



#### 2019-24 TIP Schedule:

- October 17: New Candidate Project Solicitation emailed and mailed.
- November 5 16: TIP Applications (PJP) Workshops
- November 28: New Project Proposal Deadline (Sponsors have 6 weeks to submit proposals.)
- December 28: Staff initial evaluations complete (Staff has 4 weeks to evaluate.)
- January 9: Planning Committee meeting Candidate
   Project lists available
- January 2 11: CDTC Advisory Committees meet to discuss projects



#### 2019-24 TIP Schedule:

- January 14: Project evaluation results provided to sponsors for review
- January 18: Sponsor comments on evaluations due to CDTC
- January 29 or 30: February Planning Committee mail out with completed CDTC project evaluations
- February 5 or 7: Planning Committee meeting Project programming
- April 3: Planning Committee meeting Complete project programming and begin 60-day public comment period
- June 6: Policy Board meeting 2019-2024 TIP approval



## **Advisory Committee Roles**

- 5 Advisory Committees: Bike/Pedestrian,
   Complete Streets, Freight, Human Services
   Transportation, and Regional Operations & Safety
- Experts in their field meant to advise the Planning Committee and the Policy Board
- Review all TIP projects and provide input
- For example, priority of projects, positive and negative impacts, information not available to us which may be useful for evaluation, etc.



## **Project Evaluations**

- Quantitative (Benefit/Cost ratio)
  - Use our travel demand computer model to develop the costs of not improving the facility for each project, and calculate safety, travel time, operating, user costs, and facility life benefits.
- Qualitative (Merit Scoresheet)
  - Use a merit scoresheet with 12 categories, maximum points based on New Vision priorities, scores specifically defined.

## **New Merit (Qualitative) Scoresheet**

#### PROJECT NAME:

MERIT CATEGORIES	NUMERI	C V	ALU	ES	SCO
COMMUNITY QUALITY OF LIFE & EQUITY (10 POINTS POSSIBLE)					
Land Use Compatability	SCORE	-1	to	+3	0
Smart Growth	SCORE	-1	to	+3	0
Environmental Justice	SCORE	-1	to	+2	0
Accessibility / ADA / Universal Design/Human Services Transport	SCORE	-1	to	+2	0
<u> </u>	SUBTOTAL	-4	to	+10	0
APPROPRIATE INFRASTRUCTURE (10 POINTS POSSIBLE)					
Preservation/Renewal of Existing	SCORE	-2	to	+5	0
Complete Streets	SCORE	-2	to	+5	0
·	SUBTOTAL	-4	to	+10	0
MULTI-MODALISM (10 POINTS POSSIBLE)					
Transit	SCORE	-2	to	+5	0
Pedestrian	SCORE	-1	to	+3	0
Bicycle	SCORE	-1	to	+2	0
7, .	SUBTOTAL	-4	to	+10	0
ENVIRONMENT & HEALTH (8 POINTS POSSIBLE)					
Sensitive Area Protection/Mitigation	SCORE	-1	to	+2	0
Greenhouse Gas Emissions Reduction	SCORE	-1	to	+2	0
Alternative Fuels Support	SCORE	-1	to	+2	0
Other Environmental/Health Benefit	SCORE	-1	to	+2	0
	SUBTOTAL	-4	to	+8	0
REGIONAL BENEFIT (5 POINTS POSSIBLE)					
Benefit beyond project to transportation system or quality region	SCORE	-2	to	+5	0
benefit beyond project to transportation system or quality region	SUBTOTAL	-2	to	+5	0
ECONOMIC DEVELOPMENT (5 POINTS POSSIBLE)	505101742	_			
Economic Impact	SCORE	-2	to	+5	0
Economic impact	SUBTOTAL		to	+5	0
SAFETY & SECURITY (5 POINTS POSSIBLE)	505101742	-			
Additional Safety Benefit Beyond Crash History	SCORE	-1	to	+3	0
Security and Resiliency to Natural Hazards and Human Caused Events	SCORE	-1	to	+2	0
Security and Resiliency to Natural Hazards and Human Caused Events	SUBTOTAL	-2	to	+5	0
OPERATIONS & TECHNOLOGY (5 POINTS POSSIBLE)	JODIOTAL		10	.,,	Ů
Traffic Operations & Reliability Improvements	SCORE	-1	to	+3	0
Use of Beneficial Advanced Technologies	SCORE	-1	to	+2	0
Osc of Beneficial Advanced Technologies	SUBTOTAL	-2	to	+5	0
FREIGHT (5 POINTS POSSIBLE)	JOBIOTAL	-2	ιυ	73	
Freight and Goods Movement	SCORE	-2	to	+5	0
Freight and doods Movement	SUBTOTAL		to	+5	0
PERFORMANCE (3 POINTS POSSIBLE)	SUBTUTAL	-2	ιο	τɔ	0
, ,	SCORE	1	**	٦,	0
Anticipated Effect on all Performance Targets		-1	to	+3	0
AND CALLED A CONTRACTOR OF THE	SUBTOTAL	-1	to	+3	0
INNOVATION (2 POINTS POSSIBLE)	CCODE	^			
Innovative Solutions	SCORE	0	to	+2	0
	SUBTOTAL	0	to	+2	0
PROJECT DELIVERY (2 POINTS POSSIBLE)					
On Schedule/On Budget	SCORE	-2	to	+2	0
	SUBTOTAL	-2	to	+2	0
PROJECT MERIT CATEGORY SUB TOTAL					
Total from Line Items Above	SUBTOTAL	-29	to ·	+70	0
Scaled to 50 points					0.0



B/C RATIO

B/C Ratio Value (imported from separate analysis)

SUBTOTAL 0 to +50

B/C SCORE CONVERTED TO POINT SCALE

PROJECT TOTAL (UP TO 100 POINTS)

Merit Categories + R/C Value

4

TOTAL PROJECT SCORE



Project is a significant investment in operations or reliability such as installation of new roundabout, corridor signalization improvements, TMC operations funding, or an initiative involving adaptive signal control, self-organizing signals initiative, speed harmonization, dynamic lane assignment or other appropriate active traffic management strategy.  Project is located on the ITS priority network and includes substantial features targeting operations and reliability improvements such as traffic signal intersection improvements (including signal coordination, transit signal priority, and/or pedestrian signals), or ITS/CCTV signage or infrastructure.  Project is not located on the ITS priority network but includes substantial features targeting operations and reliability improvements such as traffic signal intersection improvements (including signal coordination, transit signal priority, and/or pedestrian signals), or ITS/CCTV signage or infrastructure.  Project has neutral effect (no known impact, positive or negative) on operations and reliability.  Project introduces a new impediment to or reduction of traffic operations or reliability.  TRAFFIC OPERATIONS & RELIABILITY IMPROVEMENTS SCORE  Use of Beneficial Advanced Technologies (2 points)
Project is located on the ITS priority network and includes substantial features targeting operations and reliability improvements such as traffic signal intersection improvements (including signal coordination, transit signal priority, and/or pedestrian signals), or ITS/CCTV signage or infrastructure.  Project is not located on the ITS priority network but includes substantial features targeting operations and reliability improvements such as traffic signal intersection improvements (including signal coordination, transit signal priority, and/or pedestrian signals), or ITS/CCTV signage or infrastructure.  Project has neutral effect (no known impact, positive or negative) on operations and reliability.  Project introduces a new impediment to or reduction of traffic operations or reliability.  TRAFFIC OPERATIONS & RELIABILITY IMPROVEMENTS SCORE
Project is located on the ITS priority network and includes substantial features targeting operations and reliability improvements such as traffic signal intersection improvements (including signal coordination, transit signal priority, and/or pedestrian signals), or ITS/CCTV signage or infrastructure.  Project is not located on the ITS priority network but includes substantial features targeting operations and reliability improvements such as traffic signal intersection improvements (including signal coordination, transit signal priority, and/or pedestrian signals), or ITS/CCTV signage or infrastructure.  Project has neutral effect (no known impact, positive or negative) on operations and reliability.  Project introduces a new impediment to or reduction of traffic operations or reliability.  TRAFFIC OPERATIONS & RELIABILITY IMPROVEMENTS SCORE
improvements (including signal coordination, transit signal priority, and/or pedestrian signals), or ITS/CCTV signage or infrastructure.  Project is not located on the ITS priority network but includes substantial features targeting operations and reliability improvements such as traffic signal intersection improvements (including signal coordination, transit signal priority, and/or pedestrian signals), or ITS/CCTV signage or infrastructure.  Project has neutral effect (no known impact, positive or negative) on operations and reliability.  Project introduces a new impediment to or reduction of traffic operations or reliability.  TRAFFIC OPERATIONS & RELIABILITY IMPROVEMENTS SCORE
Project is not located on the ITS priority network but includes substantial features targeting operations and reliability improvements such as traffic signal intersection improvements (including signal coordination, transit signal priority, and/or pedestrian signals), or ITS/CCTV signage or infrastructure.  Project has neutral effect (no known impact, positive or negative) on operations and reliability.  Project introduces a new impediment to or reduction of traffic operations or reliability.  TRAFFIC OPERATIONS & RELIABILITY IMPROVEMENTS SCORE
improvements (including signal coordination, transit signal priority, and/or pedestrian signals), or ITS/CCTV signage or infrastructure.  Project has neutral effect (no known impact, positive or negative) on operations and reliability.  Project introduces a new impediment to or reduction of traffic operations or reliability.  TRAFFIC OPERATIONS & RELIABILITY IMPROVEMENTS SCORE
Project has neutral effect (no known impact, positive or negative) on operations and reliability.  Project introduces a new impediment to or reduction of traffic operations or reliability.  TRAFFIC OPERATIONS & RELIABILITY IMPROVEMENTS SCORE
Project introduces a new impediment to or reduction of traffic operations or reliability.  TRAFFIC OPERATIONS & RELIABILITY IMPROVEMENTS SCORE
TRAFFIC OPERATIONS & RELIABILITY IMPROVEMENTS SCORE
Use of Beneficial Advanced Technologies (2 points)
Project's primary purpose is, and over 50% of budget is devoted to, upgrades to advanced technological features or introduction of new advanced technological features, such
as signal coordination, transit signal priority, pedestrian signals, adaptive signal control, self-organizing signals, bluetooth based detection, CCTV, variable message signs,
central software, in pavement detection, speed harmonization, variable speed limits, dynamic lane assignment, queue warning, etc.
Project includes appropriate upgrades to advanced technological features or introduction of new advanced technological features.
Project has neutral effect (no known impact, positive or negative) on advanced technology.
Project removes useful advanced technology without replacing or upgrading or fails to include appropriate advanced technology in scope.
USE OF BENEFICENT ADVANCED TECHNOLOGIES SCORE
OPERATIONS & TECHNOLOGY SUBTOTAL SCORE
(5 POINTS POSSIBLE)
Freight and Goods Movement (5 points)
Award 1 point for each of these criteria (for a cumulative total of up to 5 maximum):
Project improves a MPO or NYSDOT identified freight movement issue.
Project removes/substantially improves a freight related land-use compatibility, noise, or safety issue.
<ul> <li>Project is located on, or provides access to, the CDTC Freight Priority Network, and provides a travel time and/or reliability benefit(s).</li> </ul>
• Project enhances access to a key freight generator (Ex: Airport, Ports, Major Distribution Centers, Industrial Park/cluster of industrial land uses).
<ul> <li>Project enhances access to any intermodal freight movement (Ex: air to truck/rail, rail to truck/water, water to rail/truck/air, etc.).</li> </ul>
Project has neutral effect (no known impact, positive or negative) on freight and goods movement.
Project is located on, or provides access to, the CDTC Freight Priority Network, and increases travel time and/or decreases reliability.
Project negatively affects freight movement or safety in an area with a known MPO or NYSDOT identified freight movement or freight-related safety issue; alternatively,
project introduces a specifically freight-related land use incompatibility (e.g., substantial increase to freight traffic load in residential area, introduction of significant freight



Sponsor

#### Pavement Preservation Projects (as of February 24, 2016) Sorted by Total Project Score

_										Benefits (\$1,					st (Matched)	Actual	Scaled	Total		Potential Fund	Sponsor	Preferred	
ID#	Sponsor	Project Name	Facility Owner	Locatio			t Score		Travel	_	User	Facility	Total	Proposed	Annualized	B/C	B/C	Project	Sponsor	Source	Preferred	Construction	Notes
	City of Albany	Madison Avenue Rehabilitation Project –	City of Albany	Municipality(ies)  Albany	County	Actual 24	Scaled 18.0	Safety 824	Time N/A	Operating N/A	Costs	Life 2,645	Benefits 3,479	(\$M) 0.642	(\$1,000's) 66	52.7	(Max. 50)	Score 68.0	Priority	Eligibility NHPP STP Flex	Design Year 2016-17	Year 2017-18	How is Design related to A349 (PIN 1759.74) Madison Avenue Road Diet, North Allen Street to Partridge Street
L		New Scotland Avenue to Lark Street Madison Avenue																		STP Urban HSIP			which includes Design from North Allen to Delaware/Lark? How is Design related to A549 (PIN
59	City of Albany	Rebabilitation Project -	City of Albany	Albany	Albany	23	17.3	399	N/A	N/A	14	3,283	3,896	0.684	70	55.7	50.0	67.3	6	STP Flex STP Urban HSIP	2016-17	2017-18	1739.74) Madison Avenue Road Diet, North Allen Street to Partridge Street which includes Design from North Allen to Delaware/Lark?
115	City of Schenectady	Erie Boulevard Preservation Project	City of Schenectady	Schenectady	Schenectady	23	17.3	412	N/A	N/A	54	9,064	9,530	1.517	156	61.1	50.0	67.3	18	NHPP STP Flex STP Urban	N/A	2016-17	The federal aid share of the project will involve the mill and fill of the roadway and inclusion of required ADA improvements and complete street initiative as mentioned within the application.
39	NYSDOT	NY 377 and NY 378 Resurfacing Project	NYSDOT	Menands Colonie	Albany	22	16.5	118	N/A	N/A	19	8,397	8,534	1.426	147	58.1	50.0	66.5	Tier 1	STP Flex STP Urban	2016-17	2016-17	
61	City of Albany	New Scotland Avenue Rehabilitation Project – S. Manning Boulevard to Onderdonk Ave.	City of Albany	Albany	Albany	22	16.5	153	N/A	N/A	4	1,505	1,662	0.319	33	50.4	50.0	66.3	8	STP Flex STP Urban	2016-17	2017-18	
112	City of Schenectady	Broadway Pavement Preservation Project	City of Schenectady	Schenectady	Schenectady	21	15.8	618	N/A	N/A	37	9,470	10,125	1.209	125	81.0	50.0	65.8	3	STP Flex STP Urban	2017-18	2018-19	
63		Pearl Street Rehabilitation Project – Clinton Avenue to Madison Avenue	City of Albany	Albany	Albany	22	16.5	481	N/A	N/A	21	3,328	3,830	0.776	80	47.9	47.9	64.4	1	NHPP STP Flex STP Urban	2016-17	2017-18	
65	City of Watervliet	NY 32 Project - 3rd Avenue Watervliet	City of Waterviet and NYSDOT	Watervliet	Albany	15	11.3	148	N/A	N/A	22	3,298	3,468	0.649	67	51.8	50.0	61.3	Priority 1	STP Flex STP Urban	2016-17	2016-17	
9	NYSDOT	I-787 Pavement Joint Preservation	NYSDOT	Albany Watervliet Cohoes Menands Colonie	Albany	10	7.5	N/A	N/A	N/A	517	32,733	33,250	2.313	549	60.6	50.0	57.5	Tier 1	NHPP STP Flex STP Urban	2017-18	2018-19	
56	NYSDOT	US 20 Resurfacing	NYSDOT	Guilderland	Albany	9	6.8	282	N/A	N/A	33	7,363	7,678	0.541	56	137.1	50.0	56.8	Tier 2	NHPP STP Flex STP Urban	2016-17	2016-17	
22	NYSDOT	NY 9N Resurfacing	NYSDOT	Greenfield Saratoga Springs	Saratoga	13	9.8	277	N/A	N/A	156	13,133	13,566	2.811	289	46.9	46.9	56.7	Tier 2	STP Flex	2016-17	2016-17	
89	Saratoga County	CR 47 (Rowland Street): Ballston Spa Village Line to CR 45/CR 47	Saratoga County	Milton	Saratoga	6	4.5	18	N/A	N/A	7	1,412	1,437	0.267	28	51.3	50.0	54.5	2	STP Flex STP Urban	2017-18	2017-18	
90	Saratoga County	CR 47 (Rowland Street): Kaatskill Way to NY 29	Saratoga County	Milton	Saratoga	6	4.5	47	N/A	N/A	21	3,901	3,969	0.446	46	86.3	50.0	54.5	2	STP Flex STP Urban	2017-18	2017-18	
29	NYSDOT	NY 85A Recycling and Paving	NYSDOT	New Scotland	Albany	10	7.5	66	N/A	N/A	124	7,919	8,109	2.111	184	44.1	44.1	51.6	Tier 2	STP Flex	2018-19	2018-19	
58	City of Albany	Clinton Avenue Rehabilitation Project – Quail Street to Lexington Avenue	City of Albany	Albany	Albany	18	13.5	283	N/A	N/A	4	2,101	2,388	0.680	70	34.1	34.1	47.6	4	STP Flex STP Urban	2016-17	2017-18	
37	NYSDOT	NY 335 Resurfacing	NYSDOT	Bethlehem	Albany	12	9.0	67	N/A	N/A	13	2,965	3,045	0.774	80	38.1	38.1	47.1	Tier 2	STP Flex STP Urban	2017-18	2018-19	
18	NYSDOT	NY 2 Resurfacing	NYSDOT	Colonie	Albany	7	5.3	13	N/A	N/A	96	6,682	6,791	1.761	181	37.5	37.5	42.8	Tier 2	NHPP STP Flex STP Urban	2017-18	2018-19	
33	NYSDOT	NY 150 Recycling & Paving	NYSDOT	Sand Lake Poestenkill North Greenbush	Rensselaer	8	6.0	139	N/A	N/A	65	7,469	7,673	2.525	220	34.9	34.9	40.9	Tier 1	STP Flex	2016-17	2016-17	
57	City of Albany	Broadway Rehabilitation Project – Loudonville Road to North First Street	City of Albany	Albany	Albany	21	15.8	81	N/A	N/A	3	1,080	1,164	0.466	48	24.3	24.3	40.1	3	STP Flex STP Urban	2016-17	2017-18	



## Questions



## **Contact:**

Michael V. Franchini, Executive Director

mfranchini@cdtcmpo.org

Chris Bauer, Senior Planner 518-458-2161

cbauer@cdtcmpo.org

or go to

http://www.cdtcmpo.org/tipupdate



## CRITICAL ISSUES IN THE TRUCKING INDUSTRY – 2018



#### Presented to the

American Trucking Associations

#### Prepared by

The American Transportation Research Institute
October 2018



950 North Glebe Road Arlington, VA 22203 (703)838-1966 atri@trucking.org www.atri-online.org

#### **ATRI BOARD OF DIRECTORS**

#### Ms. Judy McReynolds

Chairman of the ATRI Board Chairman, President and Chief Executive Officer ArcBest Corporation Fort Smith, AR

#### Mr. Andrew Boyle

Co-President Boyle Transportation Billerica, MA

#### Mr. Mike Ducker

Retired Chief Executive Officer FedEx Freight Memphis, TN

#### Mr. Rich Freeland

President and COO Cummins Inc. Columbus, IN

#### Mr. Darren D. Hawkins

Chief Executive Officer YRC Worldwide Overland Park, KS

#### Mr. Dave Huneryager

President and CEO Tennessee Trucking Association Nashville, TN

#### Mr. Derek Leathers

President and CEO Werner Enterprises Omaha, NE

#### Mr. Robert E. Low

President and CEO Prime Inc. Springfield, MO

#### Mr. Rich McArdle

President UPS Freight Richmond, VA

#### Mr. Benjamin J. McLean

Chief Executive Officer Ruan Transportation Management Systems Des Moines, IA

#### Mr. Dennis Nash

Executive Chairman of the Board Kenan Advantage Group North Canton, OH

#### Mr. Gregory L. Owen

Head Coach and CEO Ability/Tri-Modal Transportation Services Carson, CA

#### Mr. James D. Reed

President and CEO USA Truck Van Buren, AR

#### Ms. Annette Sandberg

President and CEO
Transsafe Consulting, LLC
Davenport, WA

#### Ms. Rebecca Brewster

President and COO ATRI Atlanta, GA

#### Mr. Chris Spear

President and CEO American Trucking Associations Arlington, VA

#### ATRI RESEARCH ADVISORY COMMITTEE

## Karen Rasmussen, RAC Chairman

Chief Executive Officer HELP Inc.

#### Jon Blackham

Policy and Government Affairs Canadian Trucking Alliance

#### **Amy Boerger**

Vice President, Sales Cummins, Inc.

#### Bill Brown

Manager of Fleet Telematics Southeastern Freight Lines

#### **Bob Costello**

Senior Vice President and Chief Economist American Trucking Associations

#### **Tom Cuthbertson**

Vice President, Regulatory Compliance Omnitracs, LLC

#### **Dennis Dellinger**

President Cargo Transporters

#### Chip Duden

Vice President, Strategic Business Analytics Werner Enterprises

#### Paul J. Enos

Chief Executive Officer Nevada Trucking Association

#### **Thomas Fansler**

President Trimble Transport Mobility

#### **Scott George**

Chief Executive Officer TCW, Inc.

#### Mike Golias

Director for Research Intermodal Freight Transportation Institute University of Memphis

#### Victor Hart

Director of Safety DOT Transportation, Inc.

#### Sanford Hodes

Ryder System, Inc. Senior Vice President and Deputy General Counsel

#### Ken Howden

Director, 21st Century Truck Partnership U.S. Department of Energy

#### Kelly Killingsworth

Vice President of Inbound Transportation Wal-mart Stores, Inc.

#### Victoria King

Vice President Public Affairs UPS

#### **Dustin Koehl**

Vice President, Sales and Marketing Total Transportation of Mississippi

#### **Caroline Mays**

Director, Freight and International Trade Section Texas DOT

#### **Lisa Mullings**

President and CEO National Association of Truck Stop Operators

#### **Tom Murtha**

Senior Planner Chicago Metropolitan Agency for Planning

#### **Brenda Neville**

President Iowa Motor Truck Association

#### **Dean Newell**

Vice President, Safety Maverick, Inc.

#### **Steve Raetz**

Director of Research and Market Intelligence C.H. Robinson Worldwide, Inc.

#### Wellington F. Roemer, III

President and CEO Wellington F. Roemer Insurance, Inc.

#### Lee Sarratt

Director of Safety J.B. Hunt

#### Mark Savage

Deputy Chief Colorado State Patrol

#### **Andrea Sequin**

Director, Regulatory Services Schneider National, Inc.

#### **Carl Stebbins**

Corporate Director of Admissions and Marketing New England Tractor Trailer Training School

#### Harold Sumerford, Jr.

Chief Executive Officer J&M Tank Lines

#### James E. Ward

President and CEO D.M. Bowman

#### **Tom Weakley**

Director of Operations
Owner-Operator Independent
Drivers Association
Foundation



#### Critical Issues in the Trucking Industry – 2018

The strengthening economy and robust freight demand have made 2018 a strong year for the trucking industry. However, the economic activity fueled, in part, by federal tax reform has not been without challenges for motor carriers and professional drivers. The driver shortage continues to exacerbate industry capacity and the questions of how to fund transportation infrastructure continue to go unanswered, leaving roads in a state of disrepair and congestion levels at all-time highs.

The implementation of the Electronic Logging Device (ELD) mandate at the end of 2017 has allowed trucking industry stakeholders to shift to other issues on the legislative and regulatory agenda, such as the Federal Motor Carrier Safety Administration's (FMCSA) Hours-of-Service (HOS) provisions, tolls, and the federal preemption of state regulation of interstate trucking (F4A).

The long-running economic expansion gained momentum in 2018 with the passage of significant corporate and personal tax cuts in December 2017. Due to this growing economic activity, the trucking industry is thriving in a business environment characterized by strong demand for freight and industry capacity constraints. These capacity constraints, attributable to shipper demand exceeding truck volume capacity and truck driver availability, have resulted in substantial increases in driver compensation – pay, benefits, and bonuses – as well as commensurate increases in the rates charged to shippers. With the economic consequences of the driver shortage and growing levels of driver turnover clearly articulated, the capacity constraints have provided national attention to these critical trucking industry issues.

Moreover, driver turnover has continued to impact fleet operations. The structural, demographic factors that underpin the truck driver shortage crisis remained firmly in place over the past year, and viable solutions to this pervasive staffing challenge have been slow to emerge. One potential solution – the DRIVE-Safe Act – was proposed this year in the U.S. House of Representatives. This legislation proposes to create an entry-level path for truck drivers between the ages of 18 and 21. While the potential implementation of such a policy may mitigate the effects of an aging truck driver workforce by recruiting younger drivers to the industry, its deployment will require strong industry and government partnerships to ensure success.

<sup>&</sup>lt;sup>1</sup> Clevenger, Seth. "Strongest Trucking Market in History Has Legs, ATA's Bob Costello Says." Transport Topics. July 25, 2018. Available online: <a href="https://www.ttnews.com/articles/strongest-trucking-market-history-has-legs-atas-bob-costello-says">https://www.ttnews.com/articles/strongest-trucking-market-history-has-legs-atas-bob-costello-says</a>.

<sup>&</sup>lt;sup>2</sup> "Several Carriers Fine-Tune Compensation in Face of Driver Shortage." Transport Topics. July 16, 2018. Available online: <a href="https://www.ttnews.com/articles/several-carriers-fine-tune-compensation-face-driver-shortage">https://www.ttnews.com/articles/several-carriers-fine-tune-compensation-face-driver-shortage</a>. <sup>3</sup> "ATA Driver Compensation Study." American Trucking Associations. March 2018.

<sup>&</sup>lt;sup>4</sup> Black, Thomas. "There Aren't Enough Truckers, and That's Pinching U.S. Profits." February 9, 2018. Available online: <a href="https://www.bloomberg.com/news/articles/2018-02-09/there-aren-t-enough-truckers-and-that-s-pinching-u-s-profits">https://www.bloomberg.com/news/articles/2018-02-09/there-aren-t-enough-truckers-and-that-s-pinching-u-s-profits</a>.

<sup>&</sup>lt;sup>5</sup> Abt, Neil. "Proponents say DRIVE-Safe Act will create safe way to bring in younger drivers." FleetOwner. March 26, 2018. Available online: <a href="https://www.fleetowner.com/driver-management/proponents-say-drive-safe-act-will-create-safe-way-bring-younger-drivers">https://www.fleetowner.com/driver-management/proponents-say-drive-safe-act-will-create-safe-way-bring-younger-drivers</a>.



The final implementation of FMCSA's ELD mandate on December 18, 2017 ended a heated debate within the trucking industry that made its way all the way to the U.S. Supreme Court.<sup>6</sup> Since implementation, the industry's focus has quickly shifted to the closely related issue of HOS reform. In response, FMCSA issued an Advanced Notice of Proposed Rulemaking (ANPRM) in August seeking public comment on several HOS provisions, including split sleeper-berth, in an effort to add more flexibility to the regulations.<sup>7</sup>

The trucking industry has also had to fend off the expansion of tolls, targeted specifically at trucking, to fund much-needed infrastructure improvement. Rhode Island, for instance, imposed tolls on out-of-state tractor-trailers to fund a \$5 billion program to repair and upgrade roads and bridges throughout the state.<sup>8</sup> While Rhode Island is currently being sued by the trucking industry over this funding approach, a similar plan was recently announced in Indiana. The state's proposed \$1 billion infrastructure plan will rely on an increase in the rates charged to trucks classified as Class 3 and above on the Indiana Toll Road.<sup>9</sup>

Given these and numerous other issues impacting the nation's freight system, the American Trucking Associations (ATA) and its Federation partners in the State Trucking Associations (STA) continually seek opportunities to identify and prioritize the industry's most pressing concerns. For the past 14 years, the industry has relied on the American Transportation Research Institute's (ATRI) annual survey to better understand trucking's most critical issues as well as to identify preferred strategies for addressing these issues.

ATRI's Top Industry Issues report is based on a robust survey methodology. The initial issues and potential strategies are first identified by a collaboration of various trucking stakeholder groups. ATRI then conducted a large-scale survey distribution using its own contact database, ATRI's regular Sirius/XM radio shows, major trucking industry trade press, and through the 50 State Trucking Associations.

Survey respondents were asked to select their top three choices from the list of 26 critical issues, and subsequently rank their top three preferred strategies corresponding to each selected issue.

As evidence of the numerous and varied challenges currently facing the industry, this year's survey generated 1,539 responses. Respondents represented industry stakeholders across North America. A plurality of respondents were motor carriers (47.5%), with commercial drivers making up 41.3 percent of the respondent pool, and other industry stakeholders accounting for 11.2 percent. Recognizing that the top

<sup>&</sup>lt;sup>6</sup> "Supreme Court Denies Hearing on ELD Lawsuit." Transport Topics. June 12, 2017. Available online: <a href="http://www.ttnews.com/articles/house-rejects-bid-delay-dec-18-eld-mandate">http://www.ttnews.com/articles/house-rejects-bid-delay-dec-18-eld-mandate</a>

<sup>&</sup>lt;sup>7</sup> Miller, Eric. "FMCSA Seeks Industry Comment on Several Potential HOS Changes." Transport Topics. August 21, 2018. Available online: <a href="https://www.ttnews.com/articles/fmcsa-seeks-industry-comment-several-potential-hos-changes">https://www.ttnews.com/articles/fmcsa-seeks-industry-comment-several-potential-hos-changes</a>.

<sup>&</sup>lt;sup>8</sup> Seay, Bob. "Rhode Island Sued Over Truck Tolls." WGBH. August 7, 2018. Available online: <a href="https://www.wgbh.org/news/local-news/2018/08/07/rhode-island-sued-over-truck-tolls">https://www.wgbh.org/news/local-news/2018/08/07/rhode-island-sued-over-truck-tolls</a>.

<sup>&</sup>lt;sup>9</sup> Lamb, Eleanor. "Trucks Targeted for Toll Increase in Indiana's Infrastructure Plan." Transport Topics. Available online: https://www.ttnews.com/articles/trucks-targeted-toll-increase-indianas-infrastructure-plan.



industry issues impact motor carriers and commercial drivers differently, this report includes separate "Top Ten" lists specific to commercial drivers and motor carriers, in addition to the overall ranking.

This report presents the findings of the 2018 annual survey and analysis, and compares the findings of previous years' results (Table 3) – providing insight into both the changing and emerging priorities of the trucking industry.



#### **Top Issues Summary**

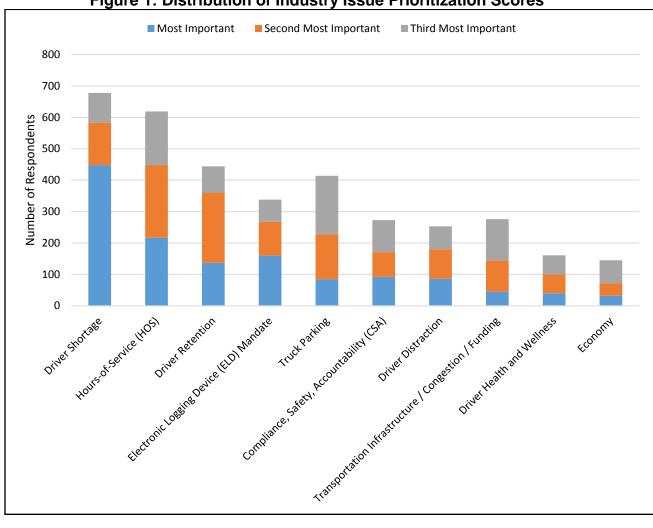
Among all respondents, the Driver Shortage held firmly atop the list of industry concerns while the potential for regulatory reform boosted the profile of the HOS rules as the second most-critical industry issue. Given the capacity constraints exacerbated by shortage of drivers, Driver Retention moved up two spots to become the number three issue in 2018. Post-implementation, the ELD mandate dropped two spots this year to the number four issue and the lack of safe parking locations for trucks moved down one spot to round out this year's top five issues (Figure 1).

ATRI develops the "Top Ten" list using a formula assigning quantitative values to respondents' rankings of issues facing the industry. An issue that is ranked by a respondent as most important receives three points, while an issue ranked second receives two points and an issue ranked third receives one point. Issues that were not ranked by respondents do not receive any points.

The total number of points for each issue are used to generate a prioritized list of industry concerns. The issue with the highest number of points is identified as the top industry issue and an Industry Concern Index (ICI) is presented to illustrate the relative level of concern from one issue to the next. The Top Industry Issue receives an ICI of 100, and then all other issues are indexed against this value. For example, if an issue receives an ICI of 50, it was calculated to have half the level of concern as the top issue.

Each respondent was asked to rank three strategies to address their top three issues. The strategies were identified by trucking stakeholders for their potential to impact or mitigate each industry challenge. Values were assigned to respondents' rankings for each of the three strategies and an average score is calculated based on all of the rankings to determine the most preferred strategy.







#### 1. Driver Shortage

Ranked 1st	Ranked 2 <sup>nd</sup>	Ranked 3 <sup>rd</sup>	Total Share 39%	Industry Concern Index
29%	9%	6%		100

The Driver Shortage, a perennial top industry issue, ranked as the industry's top concern for the second consecutive year in 2018. Growing demand for truck transportation over the past year has exacerbated industry capacity constraints as carriers continue to struggle with recruiting and retaining a qualified truck driver workforce. The current driver shortage, which the American Trucking Associations (ATA) estimates to be over 50,000 drivers, <sup>10</sup> and the competitive freight market have served to boost driver pay<sup>11</sup>, benefits, and bonuses<sup>12</sup> over the past year.

#### Proposed Strategies (in rank order):

a) Advocate for Congress and federal agencies to develop an apprenticeship program to attract, train and retain safe 18-20-year-old interstate drivers to the industry. With 28 percent of truck drivers age 55 and older, <sup>13</sup> the aging demographic of the trucking industry's workforce puts significant pressure on the industry to increase the available pool of qualified truck drivers. To combat the pending wave of driver retirements, nearly half of respondents (47.5%) indicated that the industry must continue to work with state and federal authorities to attract a new generation of qualified drivers to the industry. This strategy gained some traction this year with the introduction of the DRIVE-Safe Act to the House of Representatives. The DRIVE-Safe Act would lower the interstate commercial truck driving age to 18 in concert with on-the-job training for these potential new entrants to the trucking industry. <sup>14</sup>

However, there are some who feel that the industry's focus on recruiting younger drivers may create additional safety concerns. To this end, ATRI is currently researching how to identify and recruit safe, younger drivers to the trucking industry.<sup>15</sup> Building from a volume of research that has identified the characteristics associated with both safe and unsafe driving habits, this research seeks to develop an assessment tool the trucking industry can use to identify younger individuals whose personality traits more closely mirror those of safe, older drivers. ATRI's Driver Safety Assessment tool is currently being tested on experienced truck drivers to validate its efficacy.

b) Work with the U.S. Department of Transportation and the Department of Labor to harmonize regulations with the White House efforts to expand apprenticeships and

<sup>&</sup>lt;sup>10</sup> Kingston, John. "ATA's Costello projects out the driver shortage, and it's a big number." Freight Waves. April 3, 2018. Available online: <a href="https://www.freightwaves.com/news/driver-shortage-ata-estimates">https://www.freightwaves.com/news/driver-shortage-ata-estimates</a>.

<sup>&</sup>lt;sup>11</sup> "Several Carriers Fine-Tune Compensation in Face of Driver Shortage." Transport Topics. July 16, 2018. Available online: <a href="https://www.ttnews.com/articles/several-carriers-fine-tune-compensation-face-driver-shortage">https://www.ttnews.com/articles/several-carriers-fine-tune-compensation-face-driver-shortage</a>.

<sup>&</sup>lt;sup>12</sup> "ATA Driver Compensation Study." American Trucking Associations. March 2018.

<sup>&</sup>lt;sup>13</sup> Current Population Survey (CPS) 2016. U.S. Census Bureau and Bureau of Labor Statistics.

<sup>&</sup>lt;sup>14</sup> "H.R. 5358: DRIVE-Safe Act." GovTrack. Last updated August 27, 2018. Available online: https://www.govtrack.us/congress/bills/115/hr5358/summary.

<sup>&</sup>lt;sup>15</sup> Boris, Carolina and Monica Luciana. "Developing a Younger Driver Assessment Tool Technical Memorandum #1." American Transportation Research Institute. Arlington, VA. August 2017.



other workforce development initiatives in the trucking industry. With truck driving projected to be one of the occupations with the most job growth between 2016 and 2026, recruiting a steady flow of new drivers into the industry workforce will prove essential in the years ahead. Further corroborating the industry's significant recruiting needs is the estimated 898,000 new truck drivers that will be needed over the next decade, half of whom are needed just to *replace* retiring truck drivers. As such, one-third of respondents believe that the industry should focus on workforce development initiatives in concert with the U.S. Department of Labor and Department of Transportation to meet the industry's growing workforce needs.

c) Collect and analyze safety performance data on 18-20 year olds who operate commercial vehicles intrastate. Current law allows 18-20 year olds to operate commercial vehicles within state borders in 48 states. This means that a commercial driver 18-20 years of age can drive from Miami to Tallahassee, Florida (482 miles) but that same driver is not legally allowed to drive from Tallahassee, Florida to Thomasville, Georgia (34 miles). To better understand the real-world driving experience of commercial drivers 18-20 years old, 19.7 percent of respondents believe that research on the safety performance of those drivers would better inform the discussion of lowering the age for an interstate CDL.

<sup>&</sup>lt;sup>16</sup> "Occupations with the most job growth." United States Department of Labor, Bureau of Labor Statistics. Last updated April 11, 2018. Available online: <a href="https://www.bls.gov/emp/tables/occupations-most-job-growth.htm">https://www.bls.gov/emp/tables/occupations-most-job-growth.htm</a>
<sup>17</sup> Costello, Bob. "Truck Driver Shortage Analysis 2017." American Trucking Associations. Arlington, VA. October 2017.



#### 2. Hours-of-Service (HOS)

Ranked 1 <sup>st</sup> Ranked 2 <sup>nd</sup> Ranked 3 <sup>rd</sup> Total Share Industry Concern Index 14% 15% 11% 40% 75.1
--

HOS is a top-three industry issue for the eighth consecutive year in 2018, as the final implementation of FMCSA's ELD mandate in December 2017 has underscored the industry's desire for increased flexibility in the current HOS provisions. The industry has continued to push for increased flexibility in the current sleeper berth provision over the past year, which was ranked as the top strategy to address HOS issues in 2017. These efforts have culminated in FMCSA's ANPRM seeking comment on several HOS provisions, including split sleeper-berth.<sup>18</sup>

#### Proposed Strategies (in rank order):

- a) Continue to push for increased flexibility in the current sleeper berth provision. Added flexibility in the current sleeper berth rule was selected as the top strategy by a majority of respondents (54%). The current rule specifies that drivers using the provision must take at least eight consecutive hours in the sleeper berth, plus a separate two hours in either the sleeper berth, off duty, or any combination of the two. Additional flexibility in the rule would allow drivers to rest when tired and would provide an opportunity for drivers to adjust their driving schedules to avoid some of the worst congestion chokepoints. A recent ATRI study into the latter point identified potential productivity gains and industry operational cost savings (\$150+ million) by using a more flexible 6-4 split rest schedule to avoid operating during peak traffic congestion. FMCSA also has a pilot study underway assessing how more flexible split-rest provisions affect driver safety and fatigue. Additional flexibility in the current rule was selected as the top strategy by a majority of respondents (54%).
- b) Research and quantify the true safety and economic impacts of customer detention on truck drivers and trucking operations. Concern over the adverse safety and economic impacts of driver delays at customer facilities resulted in 37 percent of respondents selecting this as the top strategy. This follows the release of the U.S. DOT Office of Inspector General's (OIG) audit of customer detention impacts, which found that dwell time increased crash risks and also reduced incomes for drivers and motor carriers in the for-hire sector.<sup>22</sup> However, the OIG's report also emphasized the lack of

<sup>&</sup>lt;sup>18</sup> Miller, Eric. "FMCSA Seeks Industry Comment on Several Potential HOS Changes." Transport Topics. August 21, 2018. Available online: <a href="https://www.ttnews.com/articles/fmcsa-seeks-industry-comment-several-potential-hos-changes">https://www.ttnews.com/articles/fmcsa-seeks-industry-comment-several-potential-hos-changes</a>.

<sup>&</sup>lt;sup>19</sup> Federal Motor Carrier Safety Administration. "Summary of Hours of Service Rules." Last updated March 9, 2017. Available online: <a href="https://www.fmcsa.dot.gov/regulations/hours-service/summary-hours-service-regulations">https://www.fmcsa.dot.gov/regulations/hours-service/summary-hours-service-regulations</a>.

<sup>20</sup> Short, Jeffrey. "Technical Memorandum: Hours-of-Service Flexibility." American Transportation Research Institute. Arlington, VA. August 2018.

<sup>&</sup>lt;sup>21</sup> Michel, Nicole. "Overview of FMCSA Pilot Programs: Flexible Sleeper Berth and Military Under-21 Studies." U.S. Department of Transportation, Federal Motor Carrier Safety Administration. January 9, 2018. Available online: <a href="https://www.fmcsa.dot.gov/sites/fmcsa.dot.gov/files/docs/safety/research-and-analysis/research/395151/michel-trb-pilot-program-overview-final-508c.pdf">https://www.fmcsa.dot.gov/sites/fmcsa.dot.gov/files/docs/safety/research-and-analysis/research/395151/michel-trb-pilot-program-overview-final-508c.pdf</a>.

<sup>&</sup>lt;sup>22</sup> "Estimates Show Commercial Driver Detention Increases Crash Risks and Costs, but Current Data Limit Further Analysis." U.S. Department of Transportation, Office of Inspector General. January 31, 2018. Available online: <a href="https://www.oig.dot.gov/sites/default/files/FMCSA%20Driver%20Detention%20Final%20Report.pdf">https://www.oig.dot.gov/sites/default/files/FMCSA%20Driver%20Detention%20Final%20Report.pdf</a>.



accurate data on driver detention, and recommends improving future data collections to facilitate further study of driver detention issues. The ELD mandate may provide the opportunity for collecting this data in a more robust way than has been done in the past. Additionally, ATRI has collected commercial driver input on detention impacts on safety, productivity and HOS compliance and will publish the results of this study in early 2019.

c) Analyze how HOS rules might be modified for highly automated trucks, and identify what research and data would be necessary to justify future rules changes. The U.S. Department of Transportation recently issued updated guidance on the deployment of highly automated vehicles.<sup>23</sup> As the federal and state role in highly automated vehicles continues to evolve, 10.7 percent of respondents believe that it will be important to define what changes might be necessary to the HOS rules once drivers are operating highly automated trucks. The current rules were developed to ensure adequate off-duty time for truck drivers operating large vehicles requiring full driver attention.<sup>24</sup> However, ATRI is conducting additional research into how these rules might be amended to allow for increased flexibility as more advanced automated technologies are adopted.

<sup>&</sup>lt;sup>23</sup> "Preparing for the Future of Transportation." U.S. Department of Transportation. October 11, 2018. Available online: https://www.transportation.gov/av/3.

<sup>&</sup>lt;sup>24</sup> Short, J., and Dan Murray. "Identifying Autonomous Vehicle Technology Impacts on the Trucking Industry." American Transportation Research Institute. Arlington, VA. November 2016.



### 3. Driver Retention

Ranked 1st	Ranked 2 <sup>nd</sup>	Ranked 3 <sup>rd</sup>	Total Share 29%	Industry Concern Index
9%	15%	5%		55.1
3 70	1370	370	29/0	33.1

With a strong economy bolstering demand for both truck capacity and truck drivers, Driver Retention has continued to move up the list of critical industry issues. Driver turnover increased through the first half of 2018, particularly at large truckload carriers, and the industry is on pace to have the highest annual turnover rate since 2013.<sup>25</sup> To combat turnover, which dramatically increases recruitment and training costs, motor carriers continue to seek new retention strategies, including raising sign-on and retention bonuses.<sup>26</sup>

- a) Research the relationship between driver compensation models and driver productivity. While driver pay is only part of the equation, it plays a leading role in maintaining and/or enhancing driver satisfaction. However, understanding the various truck driver compensation models and their relationship to driver productivity and retention is a necessary first step in advancing the most appropriate compensation schema. 48.3 percent of respondents believe an analysis of driver compensation approaches to be the best strategy for addressing Driver Retention.
- b) Study the effectiveness of carrier retention programs that financially incentivize drivers for performance in the areas of safety, fuel economy, and trip productivity. Financial incentive systems that award the safest and most productive drivers in a fleet may potentially boost driver retention; performance-based bonuses, in particular, could also improve overall fleet safety and productivity as more truck drivers in a fleet work toward receiving the bonuses. ATRI's latest Operational Costs of Trucking analysis found that motor carriers paid drivers an average of \$1,317 in safety bonuses in 2017, while drivers awarded on-time delivery bonuses received \$2,542.<sup>27</sup> 33.4 percent of respondents believe that understanding the role of such bonuses in driver retention is an important step in mitigating driver turnover.
- c) Create an online compendium of retention strategies and best practices, customizable by carrier fleet size and sector. Once research into the effectiveness of carrier retention programs and compensation models has been completed, it will be important to establish a centralized repository for this information to facilitate the adoption of the best retention strategies and practices. Accordingly, roughly one-fifth of respondents (18.2%) indicated that compiling the results of this research was their preferred strategy to address the Driver Retention problem.

 <sup>&</sup>lt;sup>25</sup> Gilroy, Roger. "Driver Turnover Rises 4% at Large Truckload Fleets, ATA Reports." Transport Topics. October 3,
 2018. Available online: <a href="https://www.ttnews.com/articles/driver-turnover-rises-4-large-truckload-fleets-ata-reports">https://www.ttnews.com/articles/driver-turnover-rises-4-large-truckload-fleets-ata-reports</a>.
 <sup>26</sup> "ATA Driver Compensation Study." American Trucking Associations. March 2018.

<sup>&</sup>lt;sup>27</sup> Hooper, A., and Daniel Murray. "An Analysis of the Operational Costs of Trucking: 2017 Update." American Transportation Research Institute. Arlington, VA. October 2017.



# 4. Electronic Logging Device (ELD) Mandate

Ranked 1st	Ranked 2 <sup>nd</sup>	Ranked 3 <sup>rd</sup>	Total Share	Industry Concern Index
10%	7%	5%	22%	44.8

After full implementation of the ELD Mandate at the end of 2017, concern over the mandate's implications have begun to abate, dropping this issue two places to fourth overall in 2018. In the first full year of the mandate, the industry is beginning to assess how ELD deployment is affecting industry safety and productivity, while some concerns remain regarding how the data collected may be used beyond HOS compliance.

- a) Research and quantify industry impacts on safety and productivity from full deployment of ELDs. A majority of respondents (55.3%) indicated that further research is needed in order to fully assess the industry impacts of ELDs. In its Regulatory Impact Analysis, FMCSA projected that the industry would save \$2.44 billion in administrative costs and save 31 lives annually.<sup>28</sup> Additional research is needed that utilizes more robust ELD data to help the industry and FMCSA understand if the estimated benefits have been realized.
- b) Assess the extent and impact associated with growing requests for ELD exemptions. As the April 1, 2018 hard enforcement date for the ELD Mandate approached, there were petitions filed with the agency by various industry groups requesting exemptions from the mandate. Included in these petitions was one submitted by agricultural haulers who were successful in obtaining a temporary exemption, and legislation has been proposed to make this exemption permanent.<sup>29</sup> As a result, nearly one-quarter of respondents (24.3%) selected assessing the extent and impact of these exemption requests as their top strategy in relation to the ELD Mandate.
- c) Assess the landscape of appropriate and inappropriate uses of newly available ELD data. Given the scope of information that ELDs are capable of tracking and the scale of their adoption, concern remains regarding how this information will be used beyond the stated purpose of logging HOS. While language in FMCSA's final rule prohibits driver harassment and provides a channel for drivers to file a complaint regarding harassment, 30 21.8 percent of respondents indicated a desire to establish limitations on the use of ELD-generated data.

<sup>&</sup>lt;sup>28</sup> "Electronic Logging Devices and Hours of Service Supporting Documents." U.S. Department of Transportation, Federal Motor Carrier Safety Administration. Available online:

https://www.fmcsa.dot.gov/sites/fmcsa.dot.gov/files/docs/ELD%20Final%20Rule.pdf.

29 Straight, Brian. "ELD ag exemption's fate tied to government funding deadline." FreightWaves. September 28, 2018. Available online: <a href="https://www.freightwaves.com/news/federal-regulation/eld-ag-exemption-expiring">https://www.freightwaves.com/news/federal-regulation/eld-ag-exemption-expiring</a>.

30 "Electronic Logging Devices and Hours of Service Supporting Documents." Federal Motor Carrier Safety Administration. Washington DC. December 16, 2015. Available online: <a href="https://www.gpo.gov/fdsys/pkg/FR-2015-12-16/pdf/2015-31336.pdf">https://www.gpo.gov/fdsys/pkg/FR-2015-12-16/pdf/2015-31336.pdf</a>.



## 5. Truck Parking

Ranked 1st	Ranked 2 <sup>nd</sup>	Ranked 3 <sup>rd</sup>	Total Share	Industry Concern Index
6%	9%	12%	27%	42.5

The growing scarcity of available truck parking creates a dangerous and costly dilemma for truck drivers who are often forced to drive beyond allowable HOS rules or park in undesignated and, in many cases, unsafe locations. The Federal Highway Administration (FHWA) is preparing this year to update the original 2015 *Jason's Law Truck Parking Survey Results and Comparative Analysis*, 31 which confirmed that the lack of safe truck parking continues to be a major issue in the United States. FHWA has indicated that the new survey will include drayage and short-haul drivers in order to assess the parking situation around the nation's port facilities. 32 The results of this year's top industry issues survey corroborate the truck parking challenges faced by drivers. While the issue is ranked fifth overall, it is the number two concern among truck driver respondents.

- a) *Identify strategic locations on the National Freight Network for new or expanded truck parking due to increased traffic congestion and industry / regulatory changes.* A majority of survey respondents (50.2%) have indicated that identifying strategic locations to expand truck parking capacity is their preferred strategy for addressing the pervasive shortage of truck parking. In particular, re-opening shuttered parking facilities and investing in new facilities are the most direct strategies aimed at alleviating the chronic and growing shortage of truck parking along the National Freight Network. Other options, such as repurposing vacant urban and suburban land parcels for truck parking, are also being explored as potential solutions to this critical industry issue.<sup>33</sup>
- b) Educate the public sector on the safety consequences that result from closing public parking facilities and/or failing to expand truck parking availability. The Jason's Law Report first brought attention to the safety risks commercial drivers face as a result of the truck parking shortage, and more recent research continues to quantify the safety impacts of an inadequate supply of truck parking.<sup>34</sup> ATRI's truck parking diary research quantified the frequency in which drivers are forced to park in undesignated or unauthorized truck parking locations like highway shoulders or ramps, with 48.7 percent of drivers reporting that the parking shortage leads them to do so between three to

<sup>&</sup>lt;sup>31</sup> Federal Highway Administration and Department of Transportation. "Jason's Law Truck Parking Survey Results and Comparative Analysis." August 2015. Available Online:

http://www.ops.fhwa.dot.gov/freight/infrastructure/truck\_parking/jasons\_law/truckparkingsurvey/jasons\_law.pdf.

32 Fisher, Tyson. "Second Jason's Law parking survey to include drayage and short-haul drivers" Land Line. July 24, 2018. Available Online: http://www.landlinemag.com/story.aspx?storyid=72689#.W8yJamhKiM9

<sup>&</sup>lt;sup>33</sup> Perry, Earnest et al. "An Evaluation of Vacant Urban Land for Truck Parking." Mid-America Freight Coalition. February 2017. Available online: <a href="http://midamericafreight.org/wp-content/uploads/MAFC-White-Paper\_Truck-Parking.pdf">http://midamericafreight.org/wp-content/uploads/MAFC-White-Paper\_Truck-Parking.pdf</a>.

<sup>&</sup>lt;sup>34</sup> Hernandez, Salvador and Jason Anderson. "Truck Parking: An Emergency Safety Hazard to Highway Users." Oregon State University. July 2017. Available online: https://ntl.bts.gov/lib/62000/62200/62247/SPR783\_TruckParkingHaz.pdf.



seven times per week.<sup>35</sup> As such, this is the preferred strategy for 38.2 percent of respondents, up from 29 percent in 2017, as a growing number of industry stakeholders hope that educating state and local officials on the critical need for safe truck parking facilities could lead to new investments.

c) Research the role and value of real-time truck parking information availability and truck parking reservation systems. Leveraging technological advancements to develop real-time truck parking solutions was the preferred strategy for a small, but growing percentage of respondents. The share of respondents selecting this strategy increased from 7.2 percent to 11.7 percent reflecting the considerable public sector interest and investment in these systems. ATRI initially designed the Truck Parking Information Management System concept (TPIMS) used by the Minnesota Department of Transportation, which was later expanded to the Mid America Association of State Transportation Officials (MAASTO) Truck Parking Information Management Systems (TPIMS), which is being funded through a \$25 million TIGER grant. On track to be launched by the summer of 2019 after a soft launch this fall, <sup>36</sup> the MAASTO TPIMS will deliver real-time truck parking availability information to commercial drivers in eight Midwest states when fully deployed. <sup>37</sup>

<sup>35</sup> Boris, Caroline and Rebecca Brewster. "Managing Critical Truck Parking Case Study – Real World Insights from Truck Parking Diaries." American Transportation Research Institute. Arlington, VA. December 2016.

<sup>&</sup>lt;sup>36</sup> Fisher, Josh. "Real-time truck parking data aims to strengthen Midwest freight corridors." FleetOwner. May 2, 2018. Available online: <a href="https://www.fleetowner.com/driver-management/real-time-truck-parking-data-aims-strengthen-midwest-freight-corridors">https://www.fleetowner.com/driver-management/real-time-truck-parking-data-aims-strengthen-midwest-freight-corridors</a>.

<sup>&</sup>lt;sup>37</sup> "Truck Parking Information Management Systems." MAASTO Regional Truck Parking. Available online: <a href="http://www.maasto.net/documents/TPIMS-Summary.pdf">http://www.maasto.net/documents/TPIMS-Summary.pdf</a>.



# 6. Compliance, Safety, Accountability (CSA)

	ked 2 <sup>nd</sup> Ranked 3 <sup>rd</sup> 7%	Total Share 18%	Industry Concern Index 31.4
--	---	--------------------	--------------------------------

CSA held steady as the sixth-ranked issue facing the trucking industry in 2018. Earlier this year, FMCSA withdrew a 2015 proposal to revise the safety-scoring program that was intended to better align BASIC scores with a carrier's crash risk.<sup>38</sup> Instead, the agency is now pursuing the recommendations proposed by the Congressionally-mandated National Academies of Sciences review of CSA.<sup>39</sup> The recommendations include a carrier rating system based on Item Response Theory (IRT) and improving both data collection and the system's transparency. Meanwhile, FMCSA continues to accept Requests for Data Review for eligible crashes as part of its Crash Preventability Demonstration Program.<sup>40</sup>

- a) Advocate for FMCSA to expand the list of crash types currently available for review and reclassification as non-preventable as part of the federal crash accountability pilot program. ATRI's crash accountability research quantified how carrier Crash BASIC scores can be impacted once non-preventable crashes are removed from the calculation and industry interest is high in ensuring that FMCSA's pilot program delivers similar results.<sup>41</sup> However, the pilot program has limited the types of crashes that are eligible for review,<sup>42</sup> and nearly half of respondents (49.1%) indicated a desire to expand the pilot program to include more crash types as their top strategy for addressing CSA in 2018.
- b) Advocate for CSA score reductions in existing BASICs rather than a new BASIC for carriers who choose to participate in FMCSA's Beyond Compliance program. As proposed by FMCSA, motor carriers participating in the Beyond Compliance program would voluntarily implement programs that exceed regulatory requirements to reduce both the number and severity of crashes.<sup>43</sup> The program was modeled after ATRI's "Alternative Compliance" research from 2011, which listed among the potential

<sup>&</sup>lt;sup>38</sup> Jaillet, James. "FMCSA scraps 2015 proposal to alter CSA to pursue larger reforms to program." Commercial Carrier Journal. July 13, 2018. Available online: <a href="https://www.ccjdigital.com/fmcsa-scraps-2015-proposal-to-alter-csa-to-pursue-larger-reforms-to-program/">https://www.ccjdigital.com/fmcsa-scraps-2015-proposal-to-alter-csa-to-pursue-larger-reforms-to-program/</a>.

<sup>38</sup> Ibid.

<sup>&</sup>lt;sup>40</sup> "Crash Preventability Demonstration Program Overview." U.S. Department of Transportation, Federal Motor Carrier Safety Administration. April 3, 2018. Available online: <a href="https://www.fmcsa.dot.gov/safety/crash-preventability-demonstration-program">https://www.fmcsa.dot.gov/safety/crash-preventability-demonstration-program</a>.

<sup>&</sup>lt;sup>41</sup> Boris, Caroline and Dan Murray. "Assessing the Impacts of Non-Preventable Crashes on CSA Scores." American Transportation Research Institute. Arlington, VA. November 2015.

<sup>&</sup>lt;sup>42</sup> "Crash Preventability Demonstration Program Frequently Asked Questions (FAQs)." U.S. Department of Transportation, Federal Motor Carrier Safety Administration. March 2018. Available online: https://www.fmcsa.dot.gov/sites/fmcsa.dot.gov/files/docs/safety/81271/crashfaqd26.pdf.

<sup>&</sup>lt;sup>43</sup> "Beyond Compliance Program." Federal Motor Carrier Safety Administration and U.S. Department of Transportation. Docket No. FMCSA-2015-0124. 23 April, 2015. Available online: <a href="https://www.gpo.gov/fdsys/pkg/FR-2015-04-23/pdf/2015-09463.pdf">https://www.gpo.gov/fdsys/pkg/FR-2015-04-23/pdf/2015-09463.pdf</a>



incentives a reduction in corresponding CSA BASIC scores for participating carriers.<sup>44</sup> However, the agency has proposed incorporating this credit into a newly created BASIC. As such, 28.6 percent of respondents indicated that they would like to see the credit as a reduction in existing BASICs as opposed to creating a new BASIC, up from 20.3 percent of respondents in 2017.

c) Work with FMCSA to ensure that the recommendations of the Congressionally-mandated National Academies of Sciences review of CSA are successfully implemented. The 132-page NAS study provided FMCSA with multiple recommendations to improve the evaluation of carrier safety performance.<sup>45</sup> Chief among these recommendations is a call for adopting a data-oriented Item Response Theory model for assessing carrier crash risks.<sup>46</sup> As this program is piloted by FMCSA, 23.7 percent of respondents indicate that it will be critical for the industry to remain actively involved to ensure that the recommendations are successfully implemented.

<sup>44</sup> Murray, Daniel C. et al. *Assessing the Benefits of Alternative Compliance*. American Transportation Research Institute. Arlington, VA. January 2011.

<sup>&</sup>lt;sup>45</sup> Miller, Eric. "FMCSA Outlines Plans for Public Meeting on CSA Study." Transport Topics. August 25, 2017. Available online: <a href="http://www.ttnews.com/articles/fmcsa-outlines-plans-public-meeting-csa-study">http://www.ttnews.com/articles/fmcsa-outlines-plans-public-meeting-csa-study</a>.

<sup>46</sup> Ibid.



### 7. Driver Distraction

Ranked 1st	Ranked 2 <sup>nd</sup>	Ranked 3 <sup>rd</sup>	Total Share	Industry Concern Index
6%	6%	5%	16%	30.4

Distracted driving and its impact on highway safety remained a top priority for the trucking industry in 2018, as the growing use of smartphones has raised the profile of distracted driving as a major public safety issue. According to data from the National Highway Traffic Safety Administration (NHTSA), 3,450 people were killed in motor vehicle crashes involving distracted drivers in 2016,<sup>47</sup> while distracted driving was a factor in 14 percent of all police-reported traffic crashes.<sup>48</sup>

- a) Encourage harsher penalties and more aggressive enforcement of distracted driving violations for drivers of all vehicle types. Although all 50 states now have some form of restriction on the use of mobile phones while driving, there are significant differences in how states define and enforce these provisions. Some states ban use for novice drivers, while other states classify it as a primary or secondary citable offense. <sup>49</sup> Accordingly, 39.1 percent of respondents would like to encourage harsher penalties and more aggressive enforcement of existing laws as a means of reducing distracted driving, down from the 47.7 percent of respondents that selected this strategy as their top choice in 2017.
- b) Advocate for national standards for distracted driving laws for all motorists. With varying definitions and enforcement strategies employed at the state level, uniformity in laws across state lines would reduce motorist confusion and promote more uniform enforcement. To this end, 37.7 percent of respondents indicated a desire to develop a national standard for distracted driving laws as the top strategy for addressing Driver Distraction, up nearly 10 percentage points from 2017.
- c) Recognizing the growing role of onboard technologies, identify solutions that support safe technology usage in the truck cab. Use of in-cab technologies such as collision warning, automatic braking, and forward- and driver-facing cameras are proliferating throughout the trucking industry. In fact, roughly one-quarter of respondents (24.5%) believe that it would be counterproductive to ban certain telematics solutions that streamline decision-making and enhance vehicle safety. As such, it will be crucial to identify solutions that maintain this tenuous balance between technology-related safety and operational efficiency.

<sup>&</sup>lt;sup>47</sup> "2016 Fatal Motor Vehicle Crashes: Overview (Traffic Safety Facts Research Note No. DOT HS 812 456)." National Highway Traffic Safety Administration. Washington DC. October 2017. Available online: <a href="https://crashstats.nhtsa.dot.gov/Api/Public/ViewPublication/812456">https://crashstats.nhtsa.dot.gov/Api/Public/ViewPublication/812456</a>.

 <sup>48 &</sup>quot;Distracted Driving 2015." U.S. Department of Transportation, National Highway Traffic Safety Administration.
 March 2017. Available online: <a href="https://crashstats.nhtsa.dot.gov/Api/Public/ViewPublication/812381">https://crashstats.nhtsa.dot.gov/Api/Public/ViewPublication/812381</a>.
 49 Governors Highway Safety Association. "Distracted Driving Laws". Washington, D.C. September 2016. Available

online: http://www.ghsa.org/html/stateinfo/laws/cellphone\_laws.html.



# 8. Transportation Infrastructure / Congestion / Funding

Ranked 3%	Ranked 2 <sup>nd</sup> 6%	Ranked 3 <sup>rd</sup> 9%	Total Share 18%	Industry Concern Index 27.3
-----------	---------------------------	------------------------------	--------------------	--------------------------------

Recognizing that the trucking industry hauls 70.2 percent of the nation's freight tonnage and 79.3 percent of freight revenues,<sup>50</sup> the state of the nation's roadway infrastructure is a critical issue for trucking. Poorly maintained roads and traffic congestion create wear and tear on vehicles, waste fuel and increase emissions, create additional stress for drivers, and negatively impact industry productivity. ATRI research estimates that congestion-related delays cost the trucking industry \$74.5 billion in added operational costs during 2016.<sup>51</sup>

ATRI has also published research that details the significant and growing shortfalls to the Highway Trust Fund Highway Account -- resulting in a serious deterioration of the nation's road network.<sup>52</sup> This research documented federal fuel tax increases as the optimal mechanism to fund much-needed infrastructure improvements. While efforts to raise the federal fuel tax have stalled, multiple states have increased their fuel tax to help bolster local infrastructure budgets.<sup>53</sup>

- a) Continue to advocate for long-term highway funding through an increase in the fuel tax or other direct user fees, and prevent additional diversion of revenue to non-highway projects. The persistent shortfall of highway funding in the United States is due, in part, to an erosion of federal motor fuels tax revenue. This erosion can be attributed to improvements in fuel economy, inflation and stagnant fuel tax rates.<sup>54</sup> Research has demonstrated the administrative efficiency of the fuel tax,<sup>55</sup> and as such, 40.8 percent of respondents selected an increase in the fuel tax or other user fees as their top strategy to improve the nation's surface transportation infrastructure.
- b) Create a new funding program to focus federal resources on truck bottlenecks along major freight corridors. Another solution to address the broad range of transportation infrastructure issues is to target funding on transportation bottlenecks along major freight routes, a strategy that was selected by 30.5 percent of respondents. This is particularly timely as states are now required to identify and report on truck freight bottlenecks as part of FHWA's Transportation Performance Management (TPM)

<sup>&</sup>lt;sup>50</sup> American Trucking Trends 2018." American Trucking Associations. Arlington, VA. 2018.

<sup>&</sup>lt;sup>51</sup> Hooper, Alan. "Cost of Congestion to the Trucking Industry: 2018 Update." American Transportation Research Institute. Arlington, VA. October 2018.

<sup>&</sup>lt;sup>52</sup> Short, Jeffrey. "Highway Funding Analysis: Update 2017." American Transportation Research Institute. Arlington, VA. November 2017.

<sup>&</sup>lt;sup>53</sup> Lamb, Eleanor. "Several States Phase In Fuel-Tax Increases." Transport Topics. July 3, 2018. Available online: <a href="https://www.ttnews.com/articles/several-states-phase-fuel-tax-increases">https://www.ttnews.com/articles/several-states-phase-fuel-tax-increases</a>.

Short, J. et al.. "Defining the Legacy for Users: Understanding Strategies and Implications for Highway Funding."
 American Transportation Research Institute. Arlington, VA. May 2007.
 Ibid.



program.<sup>56</sup> To this end, ATRI monitors congestion at 300 freight-significant locations and produces an annual ranking of top truck bottleneck locations as a means for prioritizing infrastructure investments.<sup>57</sup> For example, the Jane Byrne Interchange (formerly Circle Interchange) in Chicago is the focus of a \$450 million reconstruction effort to improve truck freight mobility as a direct result of ATRI's bottleneck research.<sup>58</sup>

c) Utilize the Congressionally-mandated National Freight Policy and National Freight Network as tools to ensure adequate investment in critical highway infrastructure. As part of the MAP-21 authorization passed in 2012, Congress mandated that the U.S DOT develop a National Freight Policy and a National Freight Network to assist with long-term infrastructure planning and investment prioritization. Additionally, the FAST Act apportioned up to \$10.8 billion for improvement projects that take place on the National Freight Highway Network.<sup>59</sup> 29.9 percent of respondents considered this the best strategy for dealing with infrastructure funding in 2018, up from 21.8 percent of respondents in 2017.

<sup>56</sup> "Truck Freight Bottleneck Reporting Guidebook." U.S. Department of Transportation. Federal Highway Administration. July 2018. Available online: <a href="https://www.fhwa.dot.gov/tpm/guidance/hop18070.pdf">https://www.fhwa.dot.gov/tpm/guidance/hop18070.pdf</a>.

<sup>&</sup>lt;sup>57</sup> "2018 Top 100 Truck Bottleneck List." American Transportation Research Institute. Arlington, VA. January 2018. Available online: http://truckingresearch.org/2018/01/25/2018-top-truck-bottleneck-list/.

<sup>&</sup>lt;sup>58</sup> http://circleinterchange.org/about/. Accessed September 21, 2016.

<sup>&</sup>lt;sup>59</sup> Summary of FAST Act Issues of Interest to ATA Members. American Trucking Associations. Arlington, VA. December 2015. Available online:

http://www.trucking.org/ATA%20Docs/News%20and%20Information/Testimony%20and%20Comments/12%2002%2015%20--%20Highway%20Bill%20Comprehensive%20Issues%20Summary%2012%202.pdf.



### 9. Driver Health/Wellness

Ranked 1st	Ranked 2 <sup>nd</sup>	Ranked 3 <sup>rd</sup>	Total Share	Industry Concern Index
3%	4%	4%	10%	17.6

Driver Health and Wellness moved up one spot this year and now ranks as the ninth-biggest issue affecting the trucking industry. Many in the industry recognize the critical connection between improved driver health and wellness and the industry's ability to retain qualified drivers -- as roughly 20 percent of drivers that leave their jobs cite health problems as a factor in their decision. In addition to obvious lifestyle benefits, an improvement in driver health may also have positive implications for industry safety as research has identified a positive correlation between driver health and driver safety.

- a) Encourage increased availability of exercise facilities and healthy food choices at truck stops/travel plazas. Encouraging more exercise facilities and healthier food choices at truck stops remained the top strategy, for six years running. To this end, a majority of all respondents (51.2%) believe that healthier food options and exercise facilities will help mitigate the impacts of a sedentary occupation. This strategy ranked even higher among driver respondents, with 60 percent of drivers selecting it as the preferred approach for addressing driver health and wellness concerns. As the industry continues to push for solutions to the truck parking shortage, it will be important to ensure that parking facilities are equipped with amenities that address driver health and wellness concerns.
- b) Continue industry data collection and analysis on driver health-related issues to ensure that any future regulatory actions are based on recent and best available data. Just under one-quarter of respondents (24.1%) believe that up-to-date data and analysis on health-related issues will prove essential in improving the efficacy of future regulatory actions on the trucking industry. FMCSA's permanent suspension of the restrictive HOS restart provisions, in light of data showing that they did not lead to improved safety outcomes, is an example of how real-world industry data can be used to guide regulatory decisions.
- c) Undertake research that quantifies the return-on-investment for driver health and wellness programs. Similar to the previous strategy, many in the industry want to utilize data to better understand and quantify the effectiveness of driver health and wellness programs. 21.5 percent of respondents indicated this to be their preferred strategy to address the issue of Driver Health and Wellness.

 <sup>60 &</sup>quot;One in Five Truck Drivers Leaves Job Because of Health Issues, Survey Finds." Transport Topics. 11 May, 2016.
 Available online: <a href="http://www.ttnews.com/articles/one-five-truck-drivers-leaves-job-because-health-issues-survey-finds">http://www.ttnews.com/articles/one-five-truck-drivers-leaves-job-because-health-issues-survey-finds</a>
 61 Transportation Research Board. "Research on the Health and Wellness of Commercial Truck and Bus Drivers: Summary of an International Conference." November 8-10, 2010.



# 10. Economy

Ranked 1st	Ranked 2 <sup>nd</sup>	Ranked 3 <sup>rd</sup>	Total Share	Industry Concern Index
2%	3%	3%	9%	14.6

U.S. economic activity has grown at a robust pace through the first half of 2018, matching growth rates last seen during the early years of the recovery from the Great Recession. However, the Economy has re-emerged as a top-10 critical issue for the trucking industry as the otherwise positive economic outlook has been clouded by uncertainty surrounding emerging trade disputes. The U.S., Canada and Mexico were able to reach deals revamping the North American Free Trade Agreement (NAFTA) after more than a year of tense negotiations. Meanwhile, the growing trade dispute between the U.S. and China may devolve into a protracted trade war, with the two parties currently imposing tariffs on a wide variety of goods. This has generated significant concern among industry stakeholders, many of whom depend on strong import and export activity to drive freight demand.

- a) Advocate for reforming/repealing ineffective and burdensome regulations that add to industry costs without providing benefits. Given the scope and scale of regulations affecting the trucking industry, over half of respondents (56.4%) feel that regulatory reform is the best strategy for improving the economy and driving up the demand for freight. This is in line with the Trump administration's goal to broadly reduce regulations and red tape -- an effort that the White House estimates has already saved U.S. taxpayers roughly \$1.6 billion annually.<sup>64</sup>
- b) Continue to advocate for policies that will further stimulate the economy. Given the strong relationship between consumer spending and freight demand, 35.3 percent of respondents would like to see policies that boost consumer confidence and spending. The share of respondents selecting this strategy as their top strategy declined 5 percentage points over the year, likely due to the stimulus already provided to the economy with the passage of the Tax Cuts and Jobs Act at the end of 2017.
- c) Research and quantify the impacts of e-commerce on the trucking industry. Consumer spending is the biggest component of the U.S. economy, accounting for over

<sup>&</sup>lt;sup>62</sup> Diamond, J., Liptak, K., Newton, P., and Donna Borak. "US and Canada reach deal on NAFTA after talks go down to the wire." CNN. October 1, 2018. Available online: <a href="https://www.cnn.com/2018/09/30/politics/trump-nafta-canada/index.html">https://www.cnn.com/2018/09/30/politics/trump-nafta-canada/index.html</a>.

<sup>&</sup>lt;sup>63</sup> Mayeda, A., and Enda Curran." "Trade War Reality Sets In as U.S. and China Stick to Their Guns." Bloomberg. September 24, 2018. Available online: <a href="https://www.bloomberg.com/news/articles/2018-09-24/trump-imposes-next-batch-of-china-tariffs-as-trade-war-escalates">https://www.bloomberg.com/news/articles/2018-09-24/trump-imposes-next-batch-of-china-tariffs-as-trade-war-escalates</a>.

<sup>&</sup>lt;sup>64</sup> Levin, A., and Alyza Sebenius. "Trump Claims \$1.6 Billion a Year Saved From Cutting Red Tape." Bloomberg. October 16, 2018. Available online: <a href="https://www.bloomberg.com/news/articles/2018-10-17/trump-administration-claims-23-billion-in-regulation-savings">https://www.bloomberg.com/news/articles/2018-10-17/trump-administration-claims-23-billion-in-regulation-savings</a>.



two-thirds of the nation's total economic output.<sup>65</sup> At the same time, e-commerce now accounts for nearly 10 percent of total retail sales in the U.S., and sales derived from e-commerce are growing more than three times as fast as overall consumer spending activity.<sup>66</sup> As such, 9.7 percent of respondents indicated that they would benefit from research into the impacts of e-commerce on the trucking industry. To this end, ATRI is conducting research on emerging e-commerce trends and mapping the effects of these trends to the industry's most critical issues.

<sup>&</sup>lt;sup>65</sup> Chandra, Sho. "U.S. GDP Grows Below-Forecast 2.6% on Trade, Inventory Drags." Bloomberg. January 26, 2018. Available online: <a href="https://www.bloomberg.com/news/articles/2018-01-26/u-s-gdp-grows-below-forecast-2-6-on-trade-inventory-drags">https://www.bloomberg.com/news/articles/2018-01-26/u-s-gdp-grows-below-forecast-2-6-on-trade-inventory-drags</a>.

<sup>&</sup>lt;sup>66</sup> Quarterly E-Commerce Report. "Estimated Quarterly U.S. Retail Sales (Not Adjusted): Total and E-Commerce." U.S. Census Bureau. Retrieved October 17, 2018. Available online: <a href="https://www.census.gov/retail/mrts/www/data/excel/tsnotadjustedsales.xls">https://www.census.gov/retail/mrts/www/data/excel/tsnotadjustedsales.xls</a>.



## **Emerging Issues**

As part of its analysis of the most critical industry issues, ATRI also tracks the emerging topics that generate significant industry interest but fall just outside of the top 10 concerns (Table 1). This analysis can provide insight on the issues that may emerge in the future as a top industry issue..

Table 1: Issues 11 - 13

Rank	Issue	ICI
11	Highway Safety and Crash Reduction	13.4
12	Tort Reform	10.9
13	Automated Truck Technology	10.7

Highway Safety and Crash Reduction ranks as one of the industry's emerging issues for the first time since this study's inception, as the trucking industry continues to place an emphasis on its safety record. Fatal crash rates for large trucks have been on a downward trend since 1975, declining 71 percent over the last four decades. However, the rate has started to climb again since reaching an all-time low in 2009.<sup>67</sup> As a result, respondents would like to gain a better understanding of truck crash increases by causal factors and vehicle type.

Last ranked as a top industry issue in 2011, Tort Reform is re-emerging as a critical industry issue, particularly among motor carriers. While Tort Reform ranks 12<sup>th</sup> overall, it is the 8<sup>th</sup> biggest issue from the perspective of motor carrier respondents (Table 2). This is driven, in part, by recent large jury awards against motor carriers regardless of negligence. Additionally, there are initiatives at the state level to address tort reform, including an item on the ballot in Arkansas aimed at capping attorney fees and damage awards in lawsuits (Arkansas Issue 1).<sup>68</sup>

Automated Truck Technology ranked as one of the industry's emerging issues among all respondents again in 2018 after cracking the list for the first time in 2017. Driver-assistive technologies have seen increased deployment in recent years, while high-profile demonstrations of emerging automated technologies continue to generate significant attention among industry stakeholders. For drivers, in particular, the potential job-changing impacts from greater deployment of automated truck technologies is creating concern. Previous research conducted by ATRI on Automated Truck Technology hinted at what truck drivers might expect from increased deployment

<sup>&</sup>lt;sup>67</sup> Large Truck and Bus Crash Facts 2016. "Trends Table 4. Large Truck Fatal Crash Statistics, 1975-2016." U.S. Department of Transportation, Federal Motor Carrier Safety Administration. Last updated May 8, 2018. Available online: <a href="https://www.fmcsa.dot.gov/safety/data-and-statistics/large-truck-and-bus-crash-facts-2016">https://www.fmcsa.dot.gov/safety/data-and-statistics/large-truck-and-bus-crash-facts-2016</a>.

<sup>&</sup>lt;sup>68</sup> "Arkansas Issue 1, Cap on Attorney's Fees and Damage Awards in Lawsuits Amendment (2018)." Ballotpedia. Available online:

https://ballotpedia.org/Arkansas Issue 1, Cap on Attorney%E2%80%99s Fees and Damage Awards in Lawsuit s Amendment (2018).

<sup>&</sup>lt;sup>69</sup> Clevenger, Seth. "Embark Self-Driving Truck Completes Coast-to-Coast Test Run." Transport Topics. February 6, 2018. Available online: https://www.ttnews.com/articles/embark-self-driving-truck-completes-coast-coast-test-run.



of driver-assistive technologies.<sup>70</sup> ATRI will be delving further into the effects that automated technologies will have on truck drivers in the year ahead, as this topic is one of ATRI's Research Advisory Committee top research priorities for 2018.

### **Commercial Driver vs Motor Carrier Issue Rankings**

The Top Industry Issues report details the results of the overall industry survey of industry stakeholders including company and independent drivers, motor carriers, and other trucking industry stakeholders. However, each of the stakeholder groups surveyed have different levels of involvement in and perspectives on how these topics impact them. As a result of these varied experiences, the selection and ranking of issues will differ across these groups. To account for the wide-ranging experiences of the ATRI survey sample, particularly those between commercial drivers and motor carriers, ATRI provides a break out to illuminate how these rankings differ by stakeholder (Table 2).

The rankings of industry issues by commercial drivers and motor carriers are invariably influenced by their day-to-day experiences. A divergence of opinions between these two groups can provide deeper insight into the consequences of an industry issue and allow for more targeted strategies to address those issues. The Driver Shortage, for instance, ranks as the top issue for motor carriers, but ranks as the ninth-biggest issue from the perspective of truck drivers (Table 2). The divergence of opinions on this issue is to be expected: drivers benefit from the shortage through more competitive compensation, as wages, benefits, and bonuses increase, as cited in ATRI's most recent analysis of motor carrier cost data.<sup>71</sup> At the same time, these growing compensation packages are squeezing profit margins for motor carriers, limited their ability to expand capacity in a strong market for truck transportation.<sup>72</sup>

There are also regulatory and legal issues that rank highly in the minds of motor carrier respondents, but have not gained much traction among commercial drivers. Tort reform and F4A, for instance, are top-ten issues for motor carriers, but were ranked as critical industry issues by only a handful of commercial drivers. Conversely, drivers placed a greater emphasis on their health (Driver Health and Wellness) and the potential impact that Automated Truck Technology may have on their careers, relative to motor carrier respondents.

<sup>&</sup>lt;sup>70</sup> Short, Jeffrey and Dan Murray. "Identifying Autonomous Vehicle Technology Impacts on the Trucking Industry." American Transportation Research Institute. Arlington, VA. November 2016.

<sup>&</sup>lt;sup>71</sup> Hooper, A., and Daniel Murray. "An Analysis of the Operational Costs of Trucking: 2018 Update." American Transportation Research Institute. Arlington, VA. October 2018.

<sup>&</sup>lt;sup>72</sup> Clough, Richard. "As Economy Heats Up, Truck Driver Shortage Burns More Companies." Transport Topics. June 8, 2018. Available online: <a href="https://www.ttnews.com/articles/economy-heats-truck-driver-shortage-burns-more-companies">https://www.ttnews.com/articles/economy-heats-truck-driver-shortage-burns-more-companies</a>.



Table 2: Commercial Driver and Motor Carrier Issues

Rank	Commercial Drivers	Motor Carriers
1	Hours-of-Service (HOS)	Driver Shortage
2	Truck Parking	Driver Retention
3	Electronic Logging Device (ELD) Mandate	Hours-of-Service (HOS)
4	Driver Distraction	Transportation Infrastructure/ Congestion/Funding
5	Driver Retention	Electronic Logging Device (ELD)  Mandate
6	Compliance, Safety, Accountability (CSA)	Compliance, Safety, Accountability (CSA)
7	Driver Health and Wellness	Driver Distraction
8	Transportation Infrastructure/ Congestion/Funding	Tort Reform
9	Driver Shortage	Truck Parking
10	Automated Truck Technology	Federal Preemption of State Regulation of Interstate Trucking (F4A)

That said, there are several instances in which the perspectives of commercial drivers and motor carriers are aligned – the ELD Mandate and Hours-of-Service ranked as top-five issues for both groups again in 2018. These stakeholder groups share a mutual concern regarding the flexibility of current HOS provisions, as well as how the move to ELDs is affecting industry safety and productivity. Driver Distraction, Driver Retention, CSA, and Transportation Infrastructure / Congestion / Funding round out the remaining similarities between the respective top ten lists compiled by commercial drivers and motor carriers.



Table 3: Top Industry Issue Rankings, 2009 – 2018

	Issue Rank									
	1	2	3	4	5	6	7	8	9	10
2018	Driver Shortage	Hours-of- Service	Driver Retention	ELD Mandate	Truck Parking	CSA	Driver Distraction	Infrastr./ Congestion/ Funding	Driver Health/ Wellness	Economy
2017	Driver Shortage	ELD Mandate	Hours-of- Service	Truck Parking	Driver Retention	CSA	Cumulative Impacts of Regs.	Driver Distraction	Infrastr./ Congestion/ Funding	Driver Health/ Wellness
2016	ELD Mandate	Hours-of- Service	Cumulative Impacts of Regs.	Truck Parking	Economy	CSA	Driver Shortage	Driver Retention	Infrastr./ Congestion/ Funding	Driver Distraction
2015	Hours-of- Service	CSA	Driver Shortage	Driver Retention	Truck Parking	ELD Mandate	Driver Health/ Wellness	Economy	Infrastr./ Congestion/ Funding	Driver Distraction
2014	Hours-of- Service	Driver Shortage	CSA	Driver Retention	ELD Mandate	Truck Parking	Infrastr./ Congestion/ Funding	Driver Health/ Wellness	Economy	Driver Distraction
2013	Hours-of- Service	CSA	Driver Shortage	Economy	ELD Mandate	Truck Parking	Driver Retention	Fuel Supply/ Fuel Prices	Infrastr./ Congestion/ Funding	Driver Health/ Wellness
2012	CSA	Hours-of- Service	Economy	Driver Shortage	Fuel Supply/ Fuel Prices	ELD Mandate	Driver Retention	Truck Parking	Driver Health/ Wellness	Congestion/ Truck Bottlenecks
2011	Economy	Hours-of- Service	Driver Shortage	CSA	Fuel Issues	Congestion	Transportatio n Funding	Tort Reform	Onboard Truck Technology	Truck Size and Weight
2010	Economy	CSA	Government Regulation	Hours-of- Service	Driver Shortage	Fuel Issues	Transportatio n Funding/ Infrastr.	Onboard Truck Technology	Environmenta I Issues	Truck Size and Weight
2009	Economy	Government Regulation	Fuel Issues	Congestion/ Highway Infrastr.	Hours-of- Service	Commercial Driver Issues	Environmenta I Issues	Tolls/ Highway Funding	Truck Size and Weight	Onboard Truck Technology

Note: **Bold** indicates first year in top ten.