

February 08, 2018



**USDOT Research Hub 2.0:
Improving Research Access at US DOT's Research Hub**

Beyan Johnson

<http://ntl.bts.gov/networking/roundtable.html>

Audio call-in number: 877-336-1274; Access code: 5759713

The featured speaker for this TLR is Beyan Johnson of the U.S. Department of Transportation (US DOT). His presentation is entitled “US DOT Research Hub 2.0: Improving Research Access at US DOT’s Research Hub.” Beyan will talk about the role of the Research Hub for transportation research and the improvements in this regard that currently underway.



USDOT Research Hub 2.0

Beyan Johnson

OST-R RDT

USDOT Research Hub Program Manager

Beyan Johnson: I am a IT Specialist in OST-R Office Research Development and Technology (RDT). My Background is in computer engineering/computer science. One of my duties includes the management of the Research Hub Program. This includes the development, management, and maintenance of the Research Hub Application.

Summary

- Background
- Research Hub 1.0 v 2.0
 - Database
 - Indexing
 - Look and Feel
 - Search
 - Filters
- What we need



Background

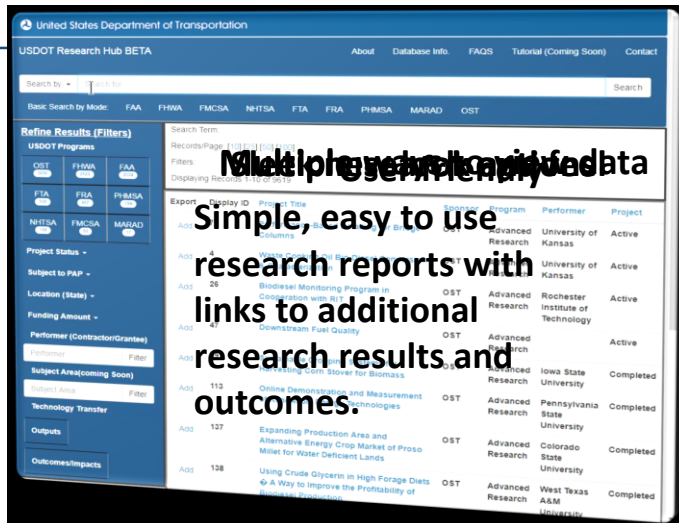
- What is the Research Hub?
- Public Access
- Fast Act
- Why Research Hub 2.0?
- What happened to 1.0?



Research Hub 1.0 v 2.0



What's New



Extensive filtering options including by mode, program office, project status, location, funding amounts, outputs and the list goes on!

Visit the Research Hub at: researchhub.bts.gov/Search

Database

- Research Hub 1.0
 - Oracle Database
 - Relational Database
- Research Hub 2.0
 - DocumentDB
 - Mixture of Relation & Non-Relational

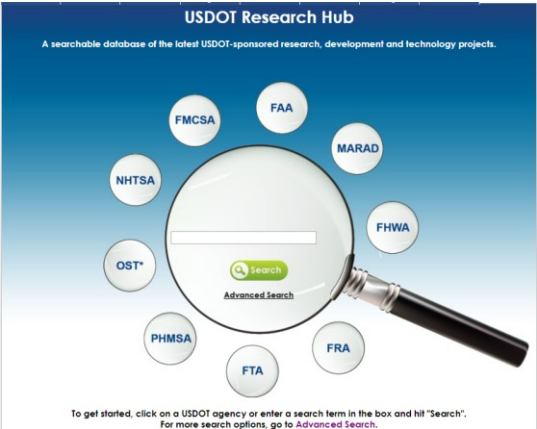


Indexing

- Research Hub 1.0
 - SOLR
 - Installed on Server
- Research Hub 2.0
 - Azure Search
 - Cloud-Based Service



Research Hub 1.0 Home



USDOT Research Hub
A searchable database of the latest USDOT-sponsored research, development and technology projects.

FMCSA, FAA, MARAD, FHWA, FRA, FTA, PHMSA, OST, NHTSA

[Search](#)
[Advanced Search](#)

To get started, click on a USDOT agency or enter a search term in the box and hit "Search".
For more search options, go to [Advanced Search](#).



Research 1.0 Search Results

Filter Options

FMCSA (83)
 Other (0)

By Funding Level
 Under \$500,000(2)
 \$500,000 to \$1,000,000(13)
 Greater than \$1,000,000(12)
(Unavailable)

By Status
 Active(2)
 Completed(11)
 Unavailable(3)

Search by Sponsor
 FAA
 FHWA
 FMCSA
 FTA
 FTA
 MARAD
 NHTSA
 OST
 PHMSA

Search Results

Sponsor: FMCSA
Sort by: project title ascending

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Project Title	Start Date	End Date	Sponsor	Project	Category	Status	Funding
<input type="checkbox"/> A Study of Electronic Logging Devices and Driver Performance	2010-02-01	2014-10-31	FMCSA	Produce Tether Drivers	Mainway Services	Completed	\$400,000
<input type="checkbox"/> Advanced Vehicle Braking for Individual Operators	2012-05-08	2015-05-08	FMCSA	Produce Safer Drivers	Palmer Information Int.	Active	\$750,000
<input type="checkbox"/> Anti-Lock Brake System Compliance Test Tool			FMCSA	Improve Safety of Drivers	TSD	Active	\$278,091
<input type="checkbox"/> Assessment of Commercial Driver License (CDL) Holders' Self-Inspection Capabilities and Suspensions			FMCSA	Produce Safer Drivers	TransAnalytics, LLC in collaboration with Utah State Office of Transportation (Utah State University) and Utah	Active	\$340,438
<input type="checkbox"/> Attitudes of Truck Drivers and Carriers on the Use of Electronic Logging Devices and Driver Impairment	2010-03-14	2013-08-14	FMCSA	Improve Safety of Drivers	Mainway Services	Completed	\$400,000
<input type="checkbox"/> Augment Access to Commercial Driver License Information System (CDLIS) to States and Supporting Capabilities in FMCSA's CDLIS System	2018-05-31		FMCSA	Information-Based Initiatives	The American Association of Motor Vehicle Administrators and OBI/AV	Active	\$148,547
<input type="checkbox"/> Case Study of Minnesota Truck and Entry-Level Commercial Driver Training Program	2015-08-31		FMCSA	Produce Safer Drivers	Mainway Services	Active	\$128,218
<input type="checkbox"/> Commercial Driver Individual Differences Study	2010-08-30	2015-09-29	FMCSA	Produce Safer Drivers	Virginia Technical Transportation Institute	Active	\$3,000,000
<input type="checkbox"/> Commercial Driver Training Survey	2011-08-23	2015-08-22	FMCSA	Produce Safer Drivers	John A. Logan National Transportation Systems Center	Active	\$380,000
<input type="checkbox"/> Commercial Driver's License Test-Pilot Survey and Pilot Software Tools to Support the Commercial Driver License Examination Management	2009-01-01	2014-01-03	FMCSA	Produce Safer Drivers	American Association of Motor Vehicle Administrators	Completed	\$250,000



Research Hub 1.0 Record

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Filter Options

PMCSA (33)

By Funding Level

Under \$100,000(3)

\$100,000 to \$1,000,000(13)

Greater than \$1,000,000(17)

(Unselected)

By State

AK(0)

AL(0)

CA(1)

CO(1)

CT(0)

DC(0)

FL(0)

GA(0)

IA(0)

IL(0)

IN(0)

KS(0)

LA(0)

MA(0)

MD(0)

MI(0)

MN(0)

MO(0)

MT(0)

NC(0)

ND(0)

OH(0)

OK(0)

OR(0)

PA(0)

RI(0)

SC(0)

SD(0)

TN(0)

TX(0)

VA(0)

VT(0)

WA(0)

WI(0)

WV(0)

WY(0)

Search Results

Sponsor: PMCSA

Sort by: project title ascending

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DATA EXPORT OPTIONS [Export](#) | [Download as PDF](#) | [Download as Excel](#) | [Download as CSV](#) | [Download as JSON](#)

Project Detail

Display ID: 7027

Subject to DOT FMP: No

Grant ID:

Project Title
A Study on Electronic Logging Devices and Driver Harassment

Program
To benefit learning the issue of driver harassment and to determine the extent to which hours-of-service (HOS) monitoring devices (HOSDs) are used to other harass drivers and/or monitor driver productivity. The research will explore the research issues from the perspective of both drivers and carriers. Based on the research findings, the project objectives is to achieve a set of recommendations of best practices that will ensure the HOSDs are not used to punish for driver harassment. On August 28, 2011, the U.S. Court of Appeals for the Seventh Circuit vacated the Agency's 4, 6th 2011 Final Rule on the use of electronic logging devices (ELDs). The Court stated that contrary to statutory requirements, the Agency failed to address the issue of driver harassment, including how ELDs could potentially be used to harass drivers and addressing ways to ensure that ELDs were not used to harass drivers. The Federal Motor Carrier Safety Administration (FMCSA) is conducting a study and gathering data to determine the most effective definition of driver harassment as related to HOSDs, the prevalence of harassment as related to productivity measures, satisfaction from their management technologies, motor carrier usage, productivity measures, ways to address HOSDs are not used to harass drivers, and the perceived effectiveness of current remedies and suggestions for FMCSA enforcement and regulatory actions.

Sponsoring Organization
Federal Motor Carrier Safety Administration

Performing Organization
Kierulff Services

Project Status
Completed

Project Start Date
2012-03-01

Project End Date
2014-10-31

Project Create Date
2013-10-23

Project Ready Date
2013-10-23

Project Funding
\$402,000

Links to Project Report(s)
[Abstract_of_The_Study_on_Electronic_Logging_Devices_and_Driver_Harassment_V11-FINAL.pdf](#)

Project Outcome
The study will identify any policy changes that could be used to mitigate the harassment issue.

Project Outcomes
The study will identify any policy changes that could be used to mitigate the harassment issue. Number of Previous Views: 512



Research Hub 2.0 Home/Search Results

USDOT Research Hub BETA

Search for:

Basic Search by Mode: FAA, FHWA, FMCSA, NHTSA, FTA, FRA, FIMSA, MARAD, OST

Search Term:

Records Page: [10] [20] [50] [100]

From:

Displaying Records 1-10 of 3733

Export

Display ID	Project Title	Sponsor	Program	Performer	Status
ADD 3642	Analysis of Travel Time Reliability for Freight Corridors Connecting the Pacific Northwest	OST	University Transportation Centers	Portland State University	Completed
ADD 3646	Combined Seismic plus Live Load Analysis of Highway Bridges	OST	University Transportation Centers	Oregon State University, Corvallis	Completed
ADD 3679	Making Mobility Improvements a Community Asset	OST	University Transportation Centers	Texas A&M University, College Station, Texas Transportation Institute, College Station	Completed
ADD 3682	GRE Best Practices for Transportation Agencies in the Inland Empire of Southern California	OST	University Transportation Centers	California State Polytechnic University, Pomona	Completed
ADD 3702	Alaska Bridge Best Practice Software Including Concrete Confinement Effects	OST	University Transportation Centers	Oregon State University, Corvallis	Completed
ADD 3723	Feasibility of Using Cellular Telephone Data to Determine the Truckload of Ball Truck Intermodal Facilities	OST	University Transportation Centers	University of Kansas, Lawrence	Completed
ADD 3735	Risk Mitigation for Highway and Railway Bridges	OST	University Transportation	Middle America Transportation	Completed

Refine Results (Filters)

USDOT Programs: OST, FHWA, FAA, FTA, FRA, NHTSA, FIMSA, FMCSA, MARAD

Project Status:

Subject to PAP:

Location (State):

Funding Amount:

Performer (Contractor/Company):

Publication:

Subject Area (Select up to 4):

Design and other structures:

Construction:

Design:

Construction/Technology:

Technology Transfer:

Outputs:

Outcomes/Impacts:



Search

Research Hub 1.0



Research Hub 2.0



Research Hub 1.0 Filters

Filters

Filter Options

- FMCSA (53)

By Funding Level

- Under \$500,000(0)
- \$500,000 to \$1,000,000(13)
- Greater than \$1,000,000(12)
- Unavailable(0)

By Status

- Active(0)
- Completed(11)
- Unavailable(5)

Search By Sponsor

- FAA
- FAWA
- FMCSA
- FRA
- FTA
- MARAD
- NHTSA
- OGT
- PHMSA

Filter Complexity

Search Results 53

Sponsor: FMCSA
Status: Completed
Sort by: project title ascending

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Research Hub 1.0 Filters

Advanced Search Help | Logout

Display Results: **Project Title** Sort Order: Ascending Descending

Search Field: **Keyword (multiple fields)** Search Term:

Sponsor Agency: FAA FHWA FMCSA FRA FTA MARAD NHTSA OST PHMSA

Managing Agency: Performer States:

Co-Sponsor:

Performing Organization:

Status: Active Completed Unavailable

Level of Funding: Under \$500,000 \$500,000 to \$1,000,000 Greater than \$1,000,000 Unavailable

Subject to DOT PAP: Yes No None

Date Range: between year and (yyyy)



Research Hub 2.0 Filters

Filters

Refine Results (Filters)

USDOT Programs

OST	FAWA	FAA
FAA	FAA	NTDFA
FRASIA	FRADIA	MARAD

Project Status -

Subject to PMP -

Location (State) -

Funding Amount -

Performer (Contractor/Grantee)

Performer

Subject Area (Select up to 4)

- Bridges and other structures
- Construction
- Design
- Seotechnology
- Filter

Technology Transfer

Outputs

Outcomes/Impacts

Filter Complexity

Search Term: =

Records/Page: [10] [] [] []

Filters: Sponsor: OST [x]; Program: UTC [x]; Status: Completed [x]; Funding Level: 0-100000 [x]; State: NJ [x];

Displaying Records 1-10 of 23

Overview



What we Need

- BETA runs through May 1, 2018
 - Testing & User Feedback



Thank You!

Questions/Comments:

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Research Hub 2.0 BETA: researchhub.bts.gov/search



Thank you for attending!
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To Be Announced

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<https://ntl.bts.gov/networking/tlrchive/index.html>