



U.S. Department of Transportation  
Federal Motor Carrier Safety Administration

# Commercial Vehicle Information Systems and Networks (CVISN) Program

*65<sup>th</sup> Annual Traffic Engineering & Safety Conference*

**Presented by: Dan Meyer, FMCSA**  
**Date: October 2015**



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Office of Research and Information Technology

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# Agenda

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- CVISN Background
- CVISN Successes To Date
- Benefits of CVISN
- CVISN Trends and Priorities
- Future ITS/CVO Technologies

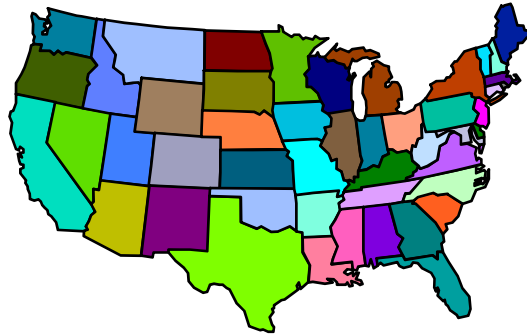
# CVISN Background

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- The CVISN program (conceptualized in 1996) is a key component of the FMCSA's drive to improve commercial motor vehicle safety
- The CVISN program is designed to:
  - Improve safety and productivity of motor carriers, commercial vehicles and their drivers
  - Improve efficiency and effectiveness of commercial vehicle safety programs through targeted enforcement
  - Improve data sharing within States and between States and FMCSA
  - Reduce regulatory/administrative costs (Federal/State and industry)

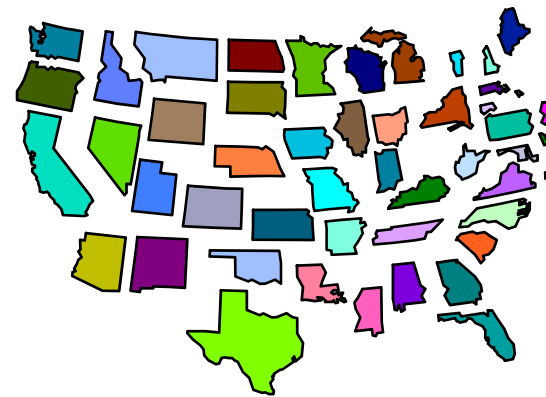
# CVISN Connects Islands of Technology

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*Roads were built to allow traffic flow within and between States.*

*Information systems were built primarily to allow information to flow within a State agency, resulting in difficulties in responding to external requests for information sharing.*



**CVISN – An Information Super Highway Connecting States with Each Other and FMCSA**

# State and Industry Pioneering Efforts enabled CVISN Success

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- Successful field operational tests (FOTs) leading to deployment
  - HELP/Crescent -- HELP, Inc./PrePass
  - Advantage I-75 – NORPASS
  - Oregon Greenlight
  - Electronic One-Stop Shopping FOTs -- E-credentialing for IRP/IFTA
- State and Industry Leadership Laid Foundation for Success
  - Prototype States: MD, VA
  - Pilot States: CA, CO, CT, KY, MI, MN, OR, WA
  - Development and validation of CVISN guiding principles, architecture, data sharing agreements between government and industry
  - Support for enabling CVISN legislation – TEA-21, SAFETEA-LU, MAP-21



# CVISN Successes

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- 36 States have deployed Core CVISN Functionality
  - Core CVISN Functionality:
    - **E-Credentialing** – Online Application for IRP/IFTA and Participation in IRP/IFTA Clearinghouses
    - **Safety Information Exchange** – Exchanging IRP/IFTA data with SAFER (CVIEW Implementation) and ASPEN Implementation
    - **E-Screening** – Automated Weight and Credentials Screening (fixed, mobile or virtual sites)
  
- These States are further enhancing their CVISN programs
  - Expanded CVISN:
    - **Upgrading outdated CVISN systems (CVIEW, IFTA/IRP/OS-OW e-Credentialing)**
    - **Improving online CVIEW User Interfaces**
    - **Extending E-screening implementations to other sites within their State (Fixed, Virtual, and Mobile)**
    - **Implementing Trucking Portal Websites to enhance customer experience**

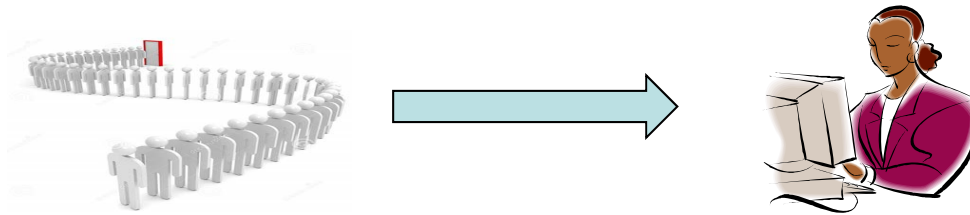
# Core CVISN Deployment by Functional Area

CVISN Functionality	Status	Percent of Deployment Complete
<b>Electronic Credentialing Administration</b> (NOTE: 49 jurisdictions required to participate)		
Supporting Electronic Credentialing For IRP	42	86%
Supporting Electronic Credentialing For IFTA	40	82%
Participating in IRP Clearinghouse	48	98%
Participating in IFTA Clearinghouse	48	98%
<b>Safety Information Exchange</b>		
Deployed CVIEW (or equivalent)	41	82%
Deployed ASPEN (or equivalent)	51	100%
<b>Electronic Screening</b>		
E-screening deployed at one or more fixed/mobile sites	46	90%

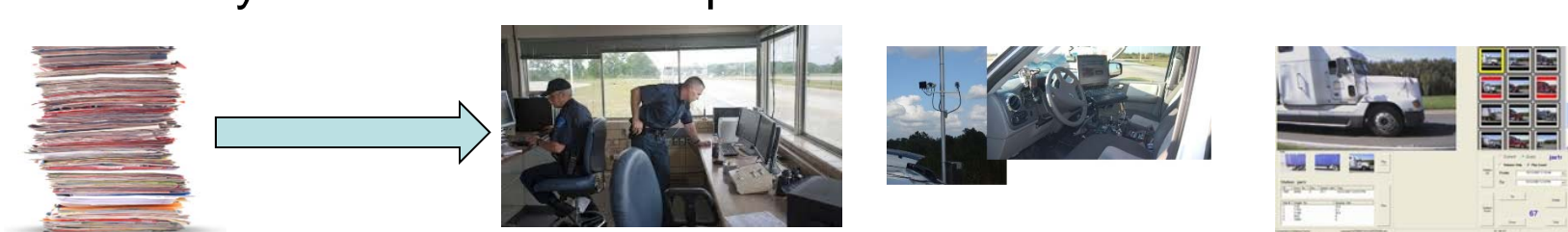


# CVISN Benefits

- Moving away from manual/paper processes and embracing ITS/CVO - CVISN Technology has improved productivity and operational efficiencies for the states and motor carriers
  - No more standing in line for obtaining credentials



- No more browsing through paper stacks or making phone calls to verify carrier/vehicle compliance at the roadside

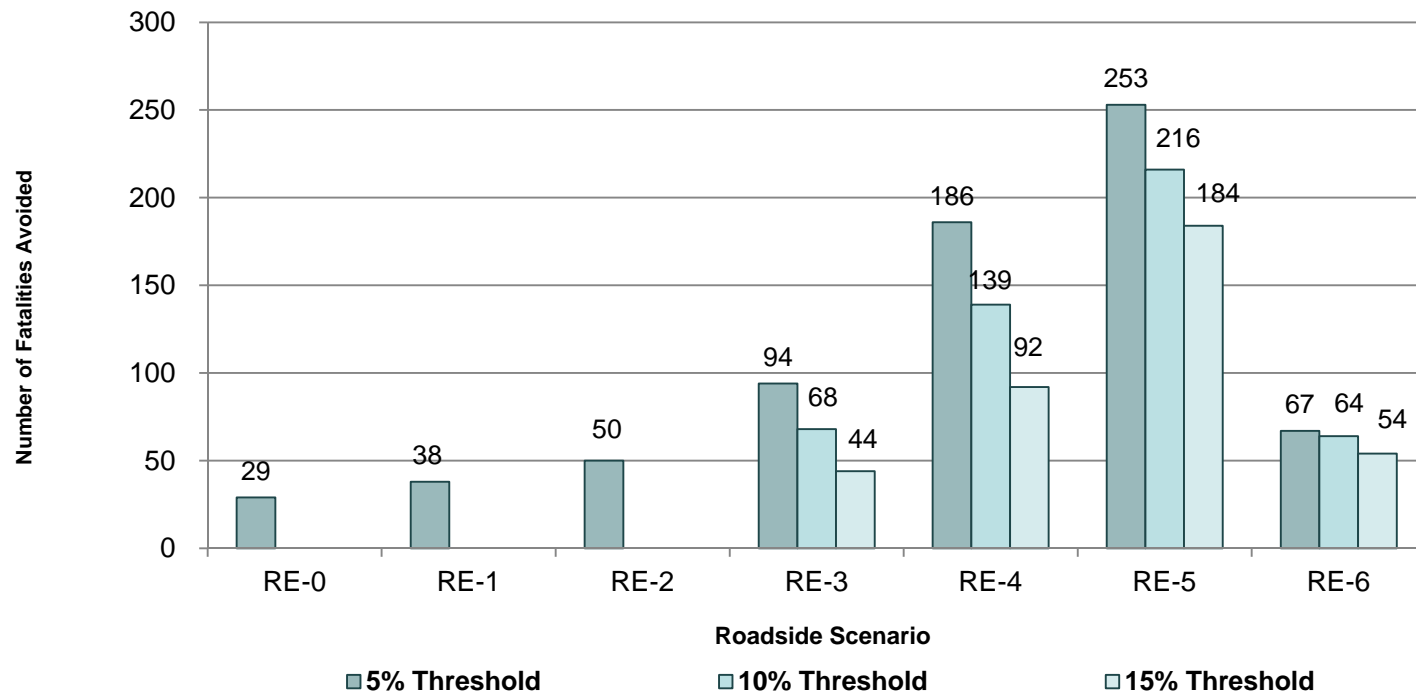


# CVISN Benefits for States and Carriers

Benefits	BENEFIT TO	
	STATE	CARRIER
Targeted enforcement focused on high-risk carriers and vehicles	✓	✓
More effective use of roadside enforcement resources	✓	
Real-time access to online data at fixed, virtual and mobile inspection facilities	✓	
Improved access to credential and safety information from other jurisdictions	✓	
More efficient and cost effective processing of credential applications	✓	✓
Improved customer service/Ability to receive select credentials 24X7	✓	✓
Improved accuracy and timeliness in credentials processing	✓	✓

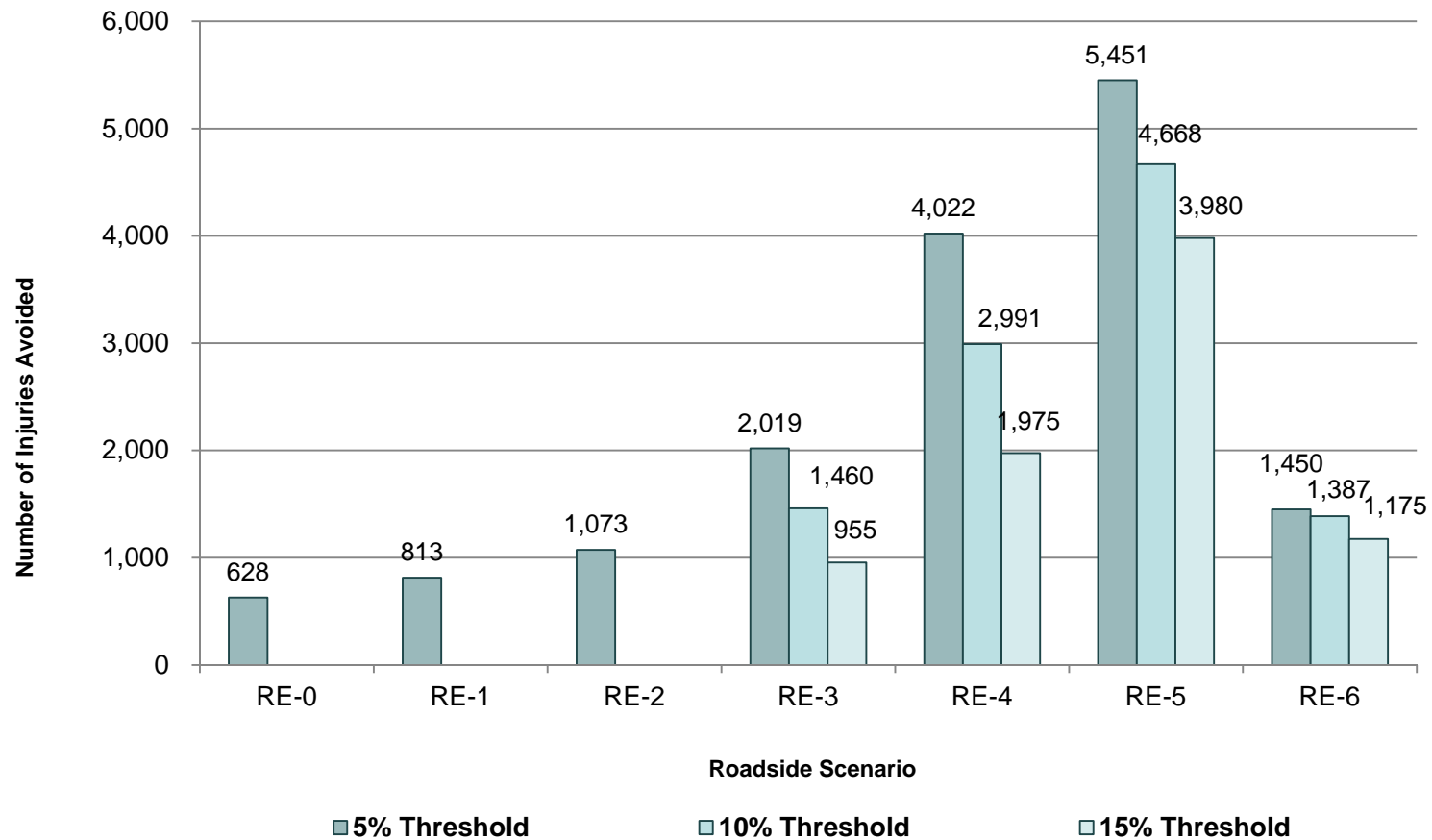
# National Evaluation of CVISN Program

- *A National Evaluation of CVISN Program was published in 2009 including:*
  - Formal evaluation of benefits and costs of national CVISN Deployment Program
  - Definitive assessment of state, motor carrier, and societal benefits associated with CVISN



Source: CVISN National Evaluation Report, Volume 1 , page xxi

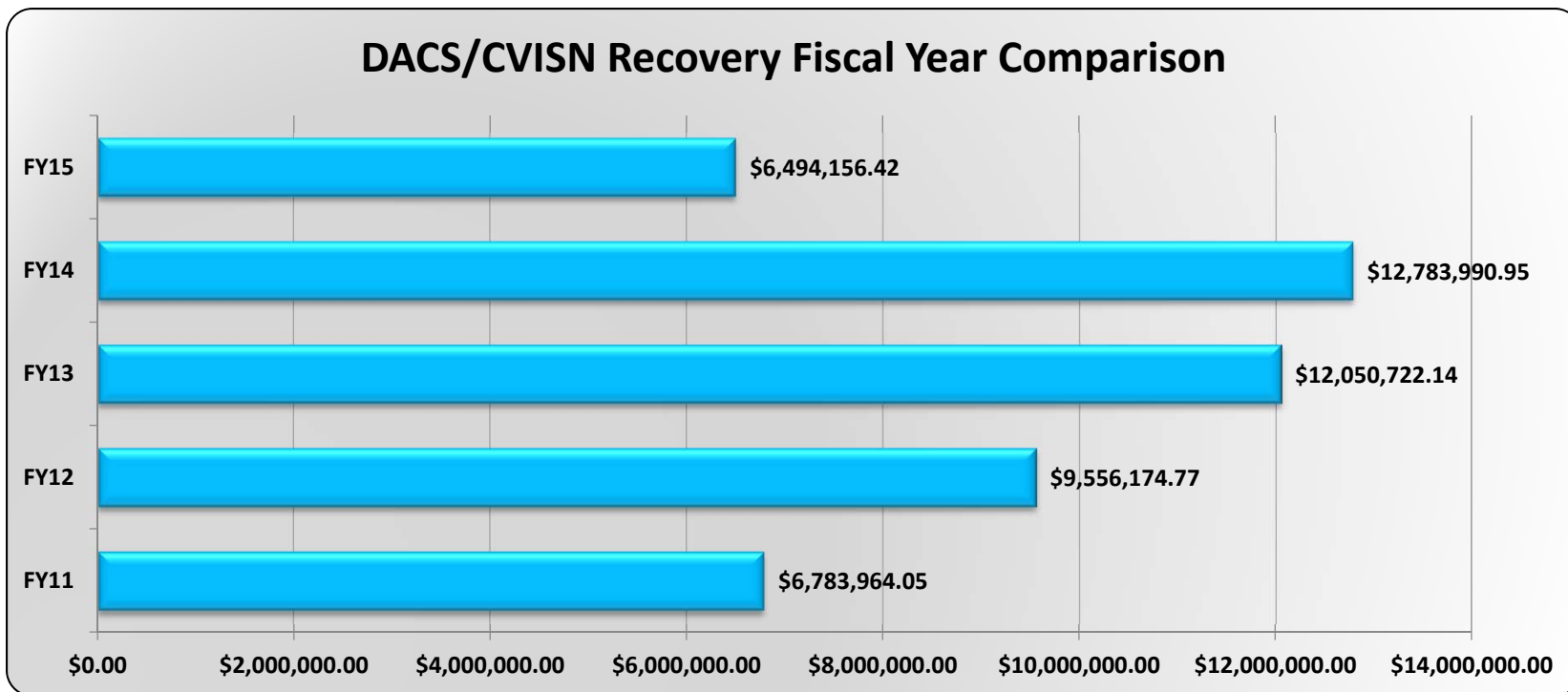
# National Evaluation of CVISN Program (continued)



Source: CVISN National Evaluation Report, Volume 1 , page xxi

# CVISN Benefits – Florida Example

- The Florida Department of Agriculture reviews bill of ladings (BOLs) at its interdiction stations
- As part of their Expanded CVISN program certain BOLs are scanned and sent to DOR to determine if taxes need to be collected on the products being brought into the state. The chart below illustrates the amount of taxes collected during this process



2015 CVISN Workshop Day 1 Presentation

# Why Getting to Core CVISN is Important

- Ability to access real-time data and make quick enforcement decisions at the roadside

Click To Print close

Mon Aug 17 13:30:49 2015

**FAIL Carrier FTA/FPF**  
This carrier has an FTA/FPF

**FAIL IFTA status, tax ID**  
IFTA status code = 4 (Closed), MS  
Fail: IFTA status code = C (Revoked), IL  
IFTA status code = 7 (Canceled), OH  
IFTA status code = 1 (Active), TX  
IFTA status code = 8 (Canceled Pending), VA  
IFTA status code = B (Released), VA  
Fail: IFTA status code = C (Revoked), MD  
IFTA status code = 9 (Inactive), NY

**FAIL MCMIS Status**  
MCMIS Status = I (Inactive)

**PASS IFTA Decal**  
Carrier has no IFTA decal data

**PASS Intrastate Fuel Decal**  
Carrier has no intrastate decal data

You are currently logged in as [Steve Duggan](#)

Carrier Vehicle Driver Reports Admin | Settings | Help

Overview IFTA/FPF Status Inspection L A I Cargo Vehicles UCR

UNDOT Unit Carrier Name State Tax ID SIC Number

DBA: none  
Last MCMIS Update 2012-03-03

**FAIL**

MCSIP	MCSIP Level = 0
MCSIP	MCSIP Level = 0
MCSIP Active Carrier	MCMIS Status = A - Active
ISS Score	ISS Score = 86
ISS Score	ISS Score = 86
UCR Interstate	UCR fee paid for year 2012

You are currently logged in as [Steve Duggan](#)

Carrier Vehicle Driver Reports Admin | Settings | Help

Overview IFTA/FPF Status Inspection L A I Cargo Vehicles UCR

UNDOT Unit Carrier Name State Tax ID SIC Number

DBA: none  
Last MCMIS Update 2010-08-18

**PASS**

MCSIP	MCSIP Level = none
MCSIP	MCSIP Level = none
MCSIP Active Carrier	MCMIS Status = A - Active
ISS Score	ISS Score = 10
ISS Score	ISS Score = 10

# CVISN Trends and Priorities

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## ■ CVISN Trends:

- Integrating mobility, safety and productivity
- Addressing resource and staffing constraints - shifting away from fixed inspection stations and scale houses to a more virtual/mobile weigh station scenario

## ■ CVISN Priorities:

- Data Quality - imperative that the data available to officers at the roadside is accurate and timely in order to make correct enforcement decisions
- Addressing present need for - Work Zone Safety, Emergency Notification Systems, Smart Park etc.
- **CVIEW** - *Only with all States deploying and maintaining CVIEWs, can CVISN's exponential safety and productivity benefits be fully realized!*

# SmartPark (Real-Time Truck Parking Information)

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- Real-time dissemination of truck parking space availability information using
  - Dynamic Message Signs
  - Interactive Voice Recognition
  - Smartphone app
  - SmartPark Research Project Web site





# Work Zone Safety Technology Research

- Currently exploring technology solutions to reduce commercial vehicle crashes when approaching work zones.
- Building on CVSA Symposium momentum
- Further defining pilot tests and model deployments within the Commercial Motor Vehicle Technology Consortium



# Wireless Roadside Inspection (WRI) Program

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- Real time safety assessment of commercial motor vehicles traveling at highway speeds
  - Identifier information used to query relevant databases for potential violations
  - Assesses driver hours of service (HOS) information
  - Envisioned to augment data available to the Safety Measurement System (SMS)
  - Although WRI vision is technology agnostic, Commercial Mobile Radio Services (CMRS) path being used in field testing



## Future “Connected” Concepts on the Horizon

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- Commercialized aftermarket trailer-tractor communication technologies for vehicle lengths and configuration to assist vehicle-to-vehicle apps
- Slow speed automated truck queues at ports and warehouses
- Pedestrian Safety Apps & CMV enhancements
- Bridge Strike Warnings
- Truck Platooning

# CVISN Grant Update

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- 2015 Awards
- 2016 NOFA
- Eligibility
- Program Priorities
  - CVIEW
  - Data Quality
  - WorkZone Safety

# Points of Contact

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## **or Administrative/Financial Aspects of the CVISN Grant Program:**

- FMCSA Division Office – Division Administrator/State Program Specialist
- FMCSA Grants Management Office
  - FMCSA\_GrantMgmtHelpdesk@dot.gov
  - (202) 366-0621
- Grants.Gov
  - 1-800-518-4726 (toll-free) or 606-545-5035
  - 24 hours a day, 7 days a week (except Federal Holidays)
  - support@grants.gov

# THANK YOU!

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## QUESTIONS?

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