



# How SBIR Supports the Mission of DOT

- DOT's mission is to ensure a fast, safe... transportation system that ... enhances the quality of life of the American people
- SBIR addresses high priority research gaps within DOT's R&D
- SBIR topics are aligned with Secretary's strategic priorities, specific modal priorities, and SBA



# Administering the DOT's SBIR Program

- ❑ Secretary of Transportation chose the Volpe Center to direct the Department's SBIR Program in November 1982
- ❑ SBIR Program Office, located at the Volpe Center, directs all activities required under the SBIR law and executes the policy established by the Small Business Administration
  - Coordinates with eight DOT Operating Administrations
  - Integrates SBIR in DOT's R&D Program through DOT's RD&T Council

# Snapshot of Phase I Participation in DOT's SBIR Program by Agency

DOT Operating Administration	2012	2013	2014	2015
Federal Aviation Administration*	X		X	
Federal Highway Administration/ ITS Joint Program Office	X	X	X	X
Federal Railroad Administration	X	X	X	X
Federal Transit Administration	X	X	X	X
Federal Motor Carrier Safety Administration	X	X		
National Highway Traffic Safety Administration			X	X
Office of the Secretary	X	X	X	
Pipeline and Hazardous Material Safety Admin.	X	X	X	

\*Excused by Legislation: FAA contributed to the U.S. DOT's SBIR Program from 1985 to 2005.

## DOT's SBIR Program Details

- ❑ Budget: Annual SBIR budget ~\$9M
- ❑ Topics: 15-20 SBIR Topics per year
- ❑ Award Funding Limits Vary by Topic-
  - Phase I: Up to \$150K
  - Phase II: \$350K to \$1M
  - Phase IIB: \$350K to \$1M
- ❑ Number of Awards per year Funding
  - Phase I: 15 to 30
  - Phase II: 5 to 10
  - Phase IIB: 2 to 4

# DOT's SBIR Program Details

## ❑ Solicitations

- 1 or 2 solicitations per year
- 16.1 Solicitation Currently Open
- Sign up for our email list for notification of Open and Close dates

## ❑ Administers Contracts not Grants

## ❑ Majority VC firms not eligible

- ❑ *FAA is exempt from the Competition in Contracting Act (CICA) and is excluded from the SBIR assessment per the DOT and Related Agencies Appropriations Act of 1996, PL 104-50*

# 2016.I Solicitation Schedule

Visit [www.volpe.dot.gov/sbir](http://www.volpe.dot.gov/sbir) to sign-up to receive alerts on new solicitations

Action	Start Date	End Date
Solicitation Open and Close Dates	10/14/2015	12/16/2015
Evaluation Period Initiation and Completion	12/28/2015	2/12/2016
Announce Award Recommendations	NLT 3/16/2016	
Award Contracts	NLT May 2016	

# DOT Solicitation Process

- ❑ Solicitations are posted at <http://www.volpe.dot.gov/sbir> and <http://www.fbo.gov>
- ❑ Requests for clarifications/questions on research topics can be submitted to the Program Office staff
- ❑ Submission of proposals via secured website is a requirement
- ❑ Selection notifications issued to all applicants within 90 days of solicitation close date
- ❑ Program Office does not accept unsolicited proposals

# DOT SBIR Recent Updates

- Commercialization Assistance Program for U.S. DOT SBIR awardees began in the 15.1 Solicitation
  - Focus on increasing commercialization potential for the Phase I award and preparing for entry into the marketplace for Phase II
- Pre-proposal conference calls for Phase II
- Improved cost appendices
- Funding for CORs to travel to project sites

# DOT SBIR Success Story: Solar Roadways

FHWA: Solar Roadways for Phase I, 2009 and a Phase II in 2011. Plus a Phase II B proposal for further funding.



- Using SBIR funds, **developed solar panels for use in place of pavement on parking lots, roads and highways.** Their goal is:  
“To cover all concrete and asphalt surfaces that are exposed to the sun with Solar Road Panels. This will lead to the end of our dependency on fossil fuels of any kind.”
- Received > **\$2 Million in crowdfunding** as a result of the prototype they developed through the SBIR program.
- Honored at the **First Annual White House Makers Faire** and was mentioned in **President’s 2015 State of the Union Address**

# Opportunities Outside of DOT SBIR Program

- ❑ Information on SBIR programs across the federal government- <http://www.SBIR.gov>
- ❑ DOT/Office of Small and Disadvantaged Business Utilization – <http://www.osdbu.dot.gov>
- ❑ Fed Biz Ops – <http://www.fbo.gov>
- ❑ University Transportation Center Program – <http://utc.dot.gov>
- ❑ <https://www.volpe.dot.gov/work-with-us/small-business-innovation-research>
- ❑ <http://www.faa.gov/go/techtran/>

# U.S. DOT SBIR Contact Information

Rachael Sack, Program Director

[Rachael.Sack@dot.gov](mailto:Rachael.Sack@dot.gov)

617.494.6352

Jeanne Rossetsky, Program Contracting Officer

[Jeanne.Rossetsky@dot.gov](mailto:Jeanne.Rossetsky@dot.gov)

617.494.3853

DOT SBIR Hotline: 617-494-2051

<http://www.volpe.dot.gov/sbir>

[DOTSBIR@dot.gov](mailto:DOTSBIR@dot.gov)



# FAA Technology Transfer Program Office

- ❑ Part of FAA's Aviation Research Management Division (ANG-E4)
  - <http://www.faa.gov/go/techtran/>
  - Aviation R&D outreach & collaboration activities
- ❑ Enables FAA and other non federal government entities to collaborate on mutually beneficial projects.
  - Can lead to commercialization of your innovation
- ❑ Your intellectual property is protected
- ❑ Technology Transfer Program Manager – Mr. John Hensyl  
(609) 485-7140

# Collaboration Outreach Opportunities

- Other activities known to FAA's TT office which may be of interest
  - Fuel Cell Propulsion Technology
  - Fire Resistant Resin Systems
  - Multi-Core Processors for Avionics
  - Rotor Fatigue Life Evaluation