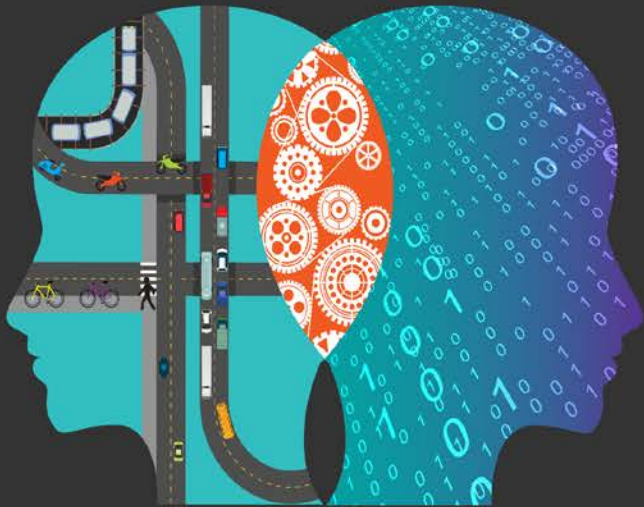


# HOW DO YOU SEE SAFETY?

## Solving for Safety Visualization Challenge



### Challenge Introductions Webinar

July 18, 2018 | 1:00 - 2:00 PM ET

**Contact:** [solve4safety@dot.gov](mailto:solve4safety@dot.gov)

**Visit:** [transportation.gov/solve4safety](http://transportation.gov/solve4safety)

**Engage:** [#solve4safety](https://twitter.com/solve4safety)



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# HOUSEKEEPING

## AUDIO OPTIONS

Audio Number: 1-866-390-1828

Access Code: 6499380#

## TO ASK A QUESTION

Please use the chat pod to ask questions throughout the webinar.

# AGENDA

- Challenge Overview
- FAQs
- Innovation Agent Support
- Questions & Answers



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# CHALLENGE OVERVIEW

The Challenge, Judging, Prizes, Dates, Roles



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# The Challenge



**Select an [ANALYTICAL VISUALIZATION TOOL](#) to develop:**

- Discover Insights Tool
- Simulation Tool



**Address one or more of the priority [SAFETY FOCUS AREAS](#):**

- Conflict Points Impacts
- High Risk Factors
- Vulnerable System Users



**Design for a [USER](#):**

- Policy makers and influencers
- Providers/Operators
- Public



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# Select an ANALYTICAL VISUALIZATION TOOL to develop:



## Discover Insights Tool

- Analyze data to reveal patterns and trends
- Use compelling visualizations to explain what is happening
- Understand the meaning behind the data and draw conclusions

## Scenario Analysis Tool

- Assist in decision-making by visualizing data, allows users to visualize outputs of existing model simulations and scenarios
- Identify issues, determine correlations, and assign probabilities
- Highlight different conditions and results of sensitivity and parametric analysis to visually assist in decision-making



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# Address one or more of the priority SAFETY FOCUS AREAS\*:



## Vulnerable System Users

- Pedestrians
- Cyclists
- Motorcyclists
- Persons with disabilities
- Persons with declining vision and hearing

## High Risk Factors

- Impaired drivers
- Drowsy drivers
- Older drivers
- Speeding drivers

## Conflict Points Impacts

- Road intersections
- Rail grade crossings

\*Note: Examples given for each focus area are not exhaustive.



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# Design for a USER:



## Policy Makers & Influencers

- Incentivize/disincentivize transportation system developments
- Address needs using personnel, funding, or laws and regulations

## Providers/Operators

- Design equipment and facilities
- Evaluate safety effectiveness
- Develop operations, countermeasures and techniques

## Public

- Use, rely on, and fund the transportation system
- Interest in protecting themselves and others in the community



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# Judging Criteria

*A judging panel of cross-functional technical experts and senior level staff will select finalists and award prizes.*

## Stage I, Ideation

- Insights/Simulation
- Data
- Benefits
- Technology
- Cost to Implement

## Stage II, Concept

- Technical Approach
- Design and Desirability
- Analytical Depth
- Technology Transfer
- Readiness Level
- Feasibility
- Scalability
- Team

## Stage III, Tool

- Quality of Methods
- Sustainability
- Functionality and Technical Effectiveness
- Expected Return on Investment



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# Prizes



## Stage I, Ideation

Solvers develop ideations. Four Stage I semi-finalists will be invited to develop their ideations into proofs of concept and compete for a cash prize.



## Stage II, Concept

**\$100,000**

Four semi-finalists develop ideations into proofs of concept and compete for part of a \$100,000 prize purse. Two semi-finalists advance to Stage III.



## Stage III, Tool

**\$225,000**

Two semi-finalists develop proofs of concepts into working tools and compete for a \$250,000 prize purse, with each receiving a minimum of \$50,000.



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### **Challenge Mechanics Webinar**

*June 19, 2018*

Learn more about the Challenge

### **Ideation Due**

*July 31, 2018*

### **Challenge Opens**

*June 14, 2018*

Solvers develop ideations

### **Challenge Connections Webinar**

*June 26, 2018*

Solver-Innovation Agent relationship building and Solver team building

### **Ideation Prizes Awarded & Proof of Concept Competitors Announced**

*August 2018*

Four semi-finalists advance to Stage II, developing ideations into proofs of concept

### **Proof of Concept Due**

*October 2018*

### **Proof of Concept Prizes Awarded & Working Tool Competitors Announced**

*Late October 2018*

Four semi-finalists awarded part of a \$100,000 prize purse. Two semi-finalists advance to Stage III, developing proofs of concepts into working tools

### **Working Tool Due, Prizes Awarded, & Recognition**

*December 2018 - January 2019*

Two finalists awarded part of a \$250,000 prize purse, with each receiving a minimum of \$50,000



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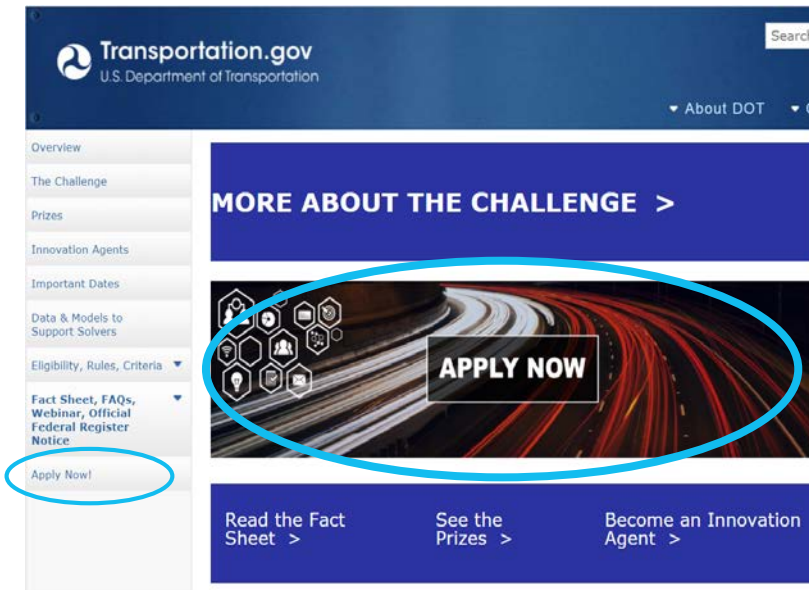
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# Solvers



The Challenge is open to Solvers in the United States or US territory, including:

- Business and Research Communities
- Technology Companies
- Analytics Firms
- Transportation Carriers
- Industry Associations
- Research Institutions
- Universities
- Mapping and Visualization Providers
- Individuals



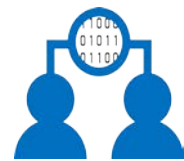
**THE CHALLENGE IS OPEN!**

**Submit your Ideation as a Solver:**  
[www.transportation.gov/solve4safety](http://www.transportation.gov/solve4safety)



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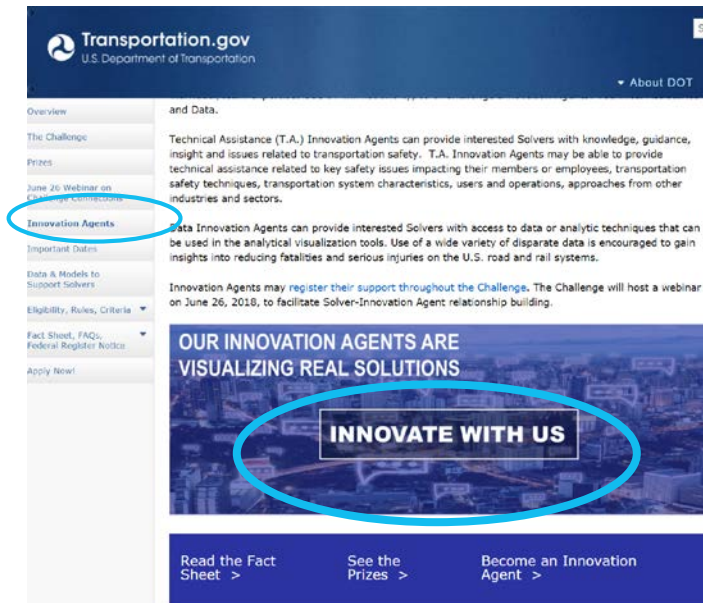


# Innovation Agents

Innovation Agents are companies and organizations interested in providing real world knowledge, guidance, insight, issues, and data to Solvers, especially those new to the transportation safety space.

**Technical Assistance Innovation Agents** - provide interested Solvers with knowledge, guidance, insight and issues related to transportation safety

**Data Innovation Agents** - provide interested Solvers with access to data or analytic techniques that can be used in the analytical visualization tools



THE CHALLENGE IS OPEN!

Register your support as an Innovation Agent:  
[www.transportation.gov/solve4safety](http://www.transportation.gov/solve4safety)



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# FREQUENTLY ASKED QUESTIONS

**Mechanics, Eligibility, Intellectual Property Rights**

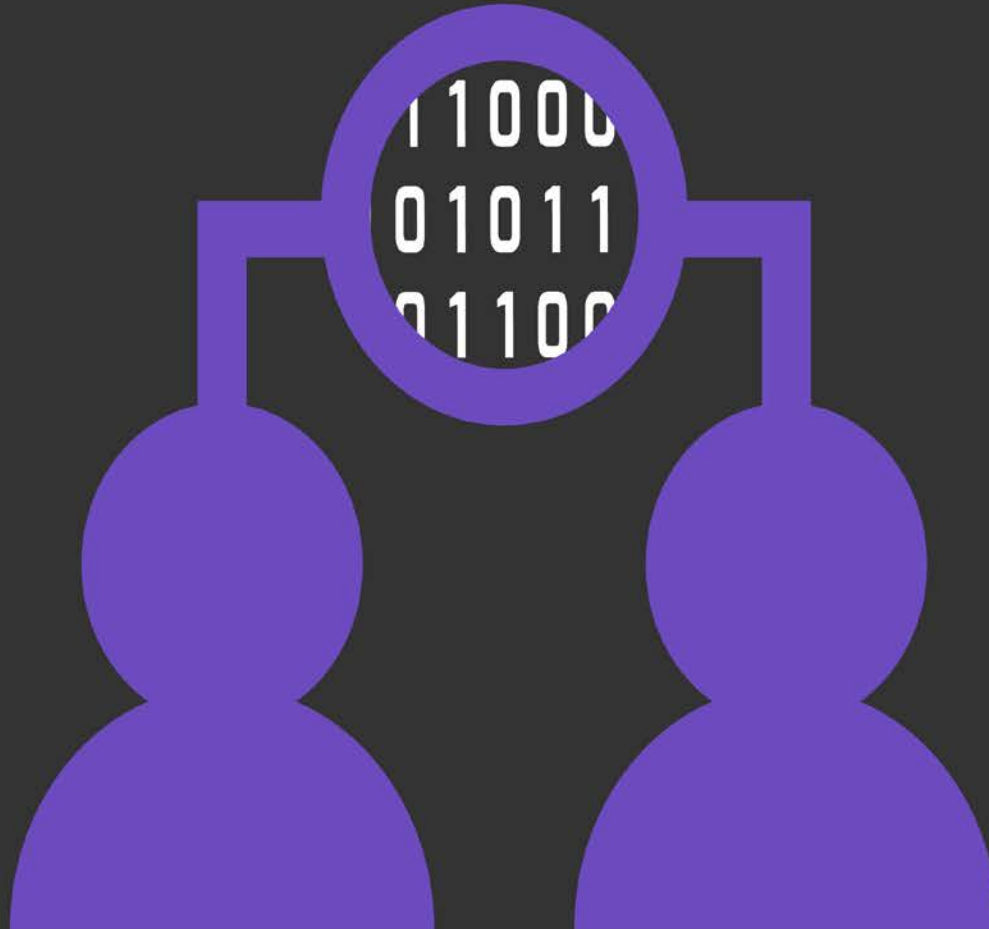


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# CHALLENGE INTRODUCTIONS

## Innovation Agents



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# QUESTIONS & ANSWERS

**Challenge Hosts, Legal Team, Innovation Agents**

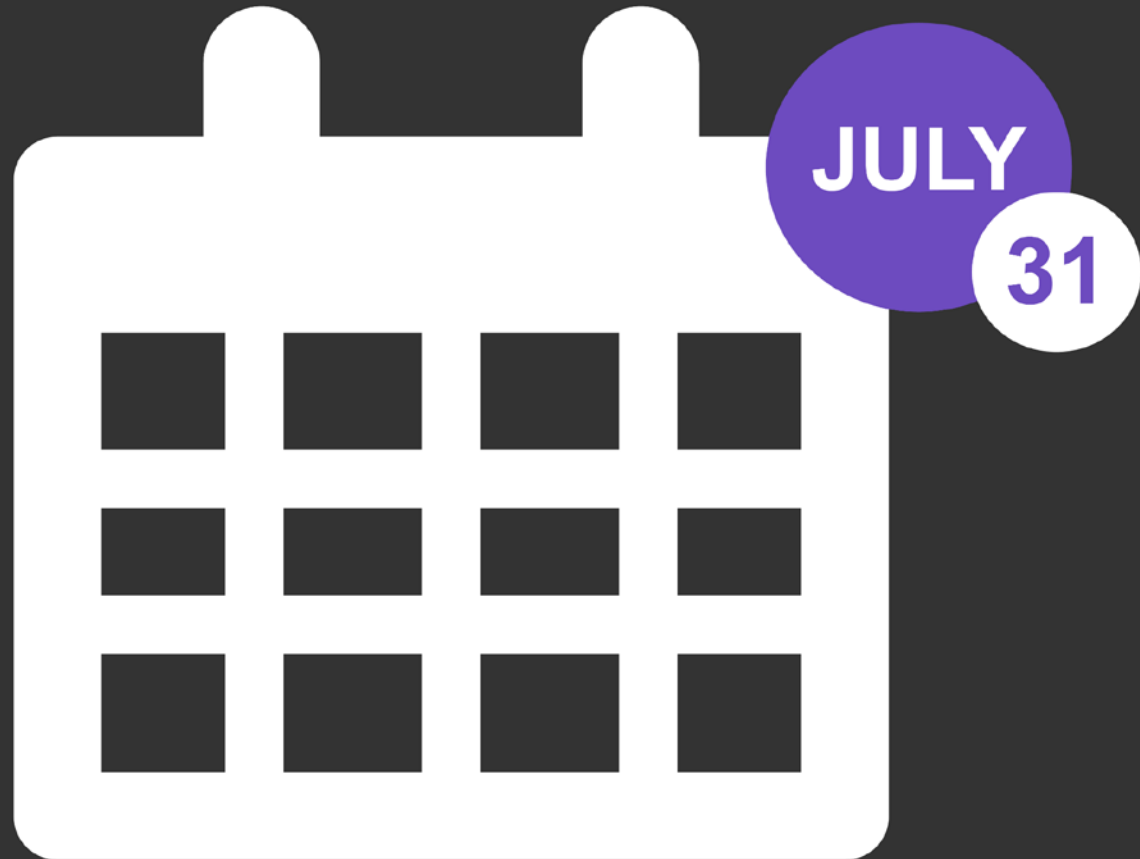


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# STAGE I, IDEATIONS DUE

**Submit Ideations by July 31, 2018 11:59 PM ET**



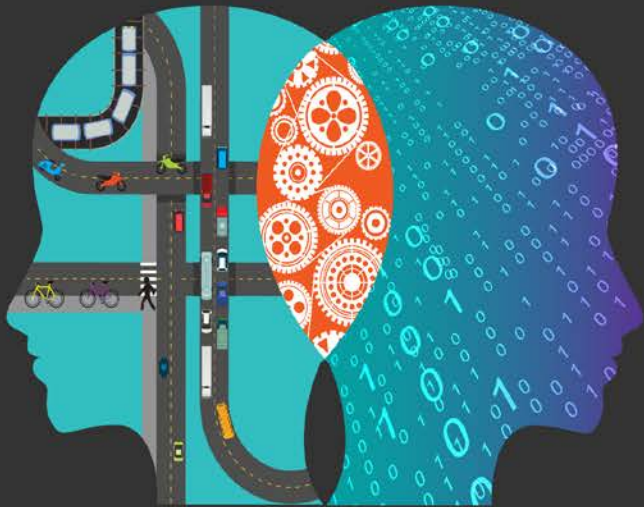
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# BECOME PART OF THE SOLUTION!

## Solving for Safety Visualization Challenge



**Contact:** [solve4safety@dot.gov](mailto:solve4safety@dot.gov)  
**Visit:** [transportation.gov/solve4safety](https://transportation.gov/solve4safety)  
**Engage:** [#solve4safety](https://twitter.com/solve4safety)