STIC INCENTIVE FUNDING: PROCESS & OPPORTUNITIES

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WHO? Eligible Entities

- NJDOT
- MPOs
- Local governments
- Tribal governments

WHAT DO I NEED?

- Description of the proposed work;
- End product/ result;
- Amount of STIC Incentive funding requested;
- Commitment of other funding;
- Budget justification;
- 20% Match (FHWA = 80%)
- Project schedule.

WHAT? Eligible Projects/Activities

- Statewide impact in innovation
- Must align with TIDP goals
- Be eligible for Federal-aid assistance and adhere to applicable federal requirements
- Start preferably within 6 months after approval
  - No later than a year
  - Funds expended w/in 2 years

HELP?

FHWA Guidance

www.fhwa.dot.gov/innovation/stic/guidance.cfm

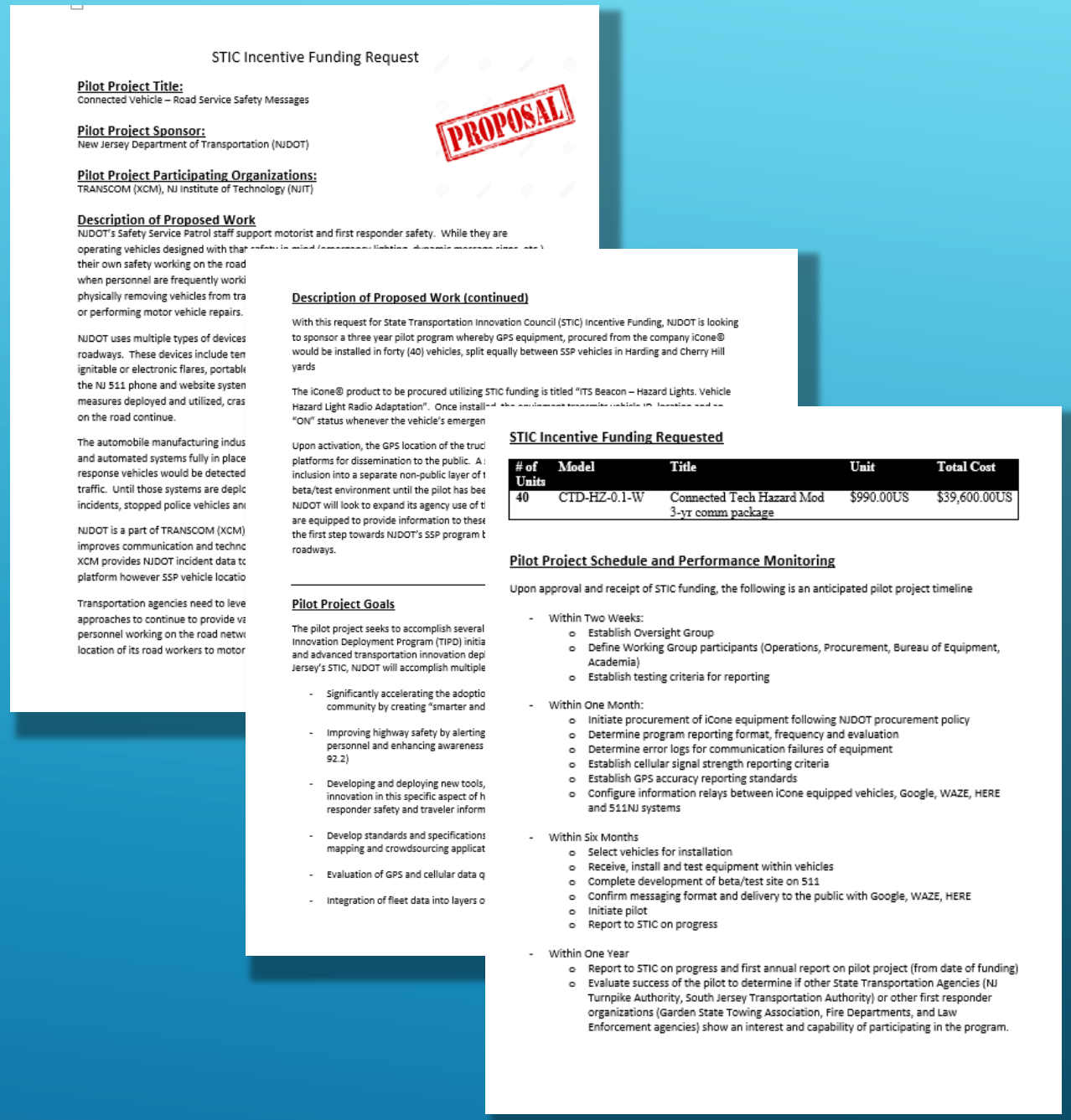
STIC Exec. Team

609-530-5637 or amanda.gendek@dot.nj.gov

WHEN?

Preferred dates below allow us to meet our fiscal year obligations for STIC Incentive Projects.

Preferred Timeline	Activities
October 1st Federal Fiscal Year Begins	• FHWA STIC Rep notifies NJDOT that solicitation period is open • STIC Exec. Team will make formal call for proposals and provide guidance
November 1st December 1st January 1st	• STIC Exec. Team sends monthly email reminders for proposals
February 1st	• Proposals submitted to STIC Exec. Team and/or respective STIC CIA Team Leaders • Proposals are reviewed and evaluated • No later than February 28th
March 1st	• STIC Exec. Team forwards vetted proposals to FHWA STIC Rep • FHWA STIC Rep evaluates and may comment on proposals • No later than March 15th
March 15th	• FHWA STIC Rep forwards selected proposals to FHWA Headquarters and awaits a determination • No later than March 31st
	• FHWA STIC Rep notifies STIC Exec. Team of determination • STIC Exec. Team notifies and provides guidance, if necessary, to secure funding



STIC Incentive Funding Request

Pilot Project Title:
Connected Vehicle – Road Service Safety Messages

PROPOSAL

Pilot Project Sponsor:
New Jersey Department of Transportation (NJDOT)

Pilot Project Participating Organizations:
TRANSCOM (XCM), NJ Institute of Technology (NJIT)

Description of Proposed Work

NJDOT's Safety Service Patrol staff support motorist and first responder safety. While they are operating vehicles designed with that safety in mind (emergency lighting, dynamic message signs, etc.) their own safety working on the road when personnel are frequently worki physically removing vehicles from tra or performing motor vehicle repairs.

NJDOT uses multiple types of devices roadways. These devices include ten ignitable or electronic flares, portable the NJ 511 phone and website systen measures deployed and utilized, cras on the road continue.

The automobile manufacturing indus and automated systems fully in place response vehicles would be detected traffic. Until those systems are deplo incidents, stopped police vehicles an

NJDOT is a part of TRANSCOM (XCM) improves communication and techno XCM provides NJDOT incident data to platform however SSP vehicle locatio

Transportation agencies need to leve approaches to continue to provide va personnel working on the road netw location of its road workers to motor

Description of Proposed Work (continued)

With this request for State Transportation Innovation Council (STIC) Incentive Funding, NJDOT is looking to sponsor a three year pilot program whereby GPS equipment, procured from the company iCone® would be installed in forty (40) vehicles, split equally between SSP vehicles in Harding and Cherry Hill yards

The iCone® product to be procured utilizing STIC funding is titled "ITS Beacon – Hazard Lights. Vehicle Hazard Light Radio Adaptation". Once install[illegible] "ON" status whenever the vehicle's emergen

Upon activation, the GPS location of the truc platforms for dissemination to the public. A inclusion into a separate non-public layer of t beta/test environment until the pilot has bee NJDOT will look to expand its agency use of t are equipped to provide information to these the first step towards NJDOT's SSP program b roadways.

Pilot Project Goals

The pilot project seeks to accomplish several Innovation Deployment Program (TIPD) initia and advanced transportation innovation depl Jersey's STIC, NJDOT will accomplish multiple

- Significantly accelerating the adoptio community by creating "smarter and
- Improving highway safety by alerting personnel and enhancing awareness 92.2)
- Developing and deploying new tools, innovation in this specific aspect of h responder safety and traveler inform
- Develop standards and specifications mapping and crowdsourcing applicat
- Evaluation of GPS and cellular data q
- Integration of fleet data into layers o

STIC Incentive Funding Requested

# of Units	Model	Title	Unit	Total Cost
40	CTD-HZ-0.1-W	Connected Tech Hazard Mod 3-yr comm package	$990.00US	$39,600.00US

Pilot Project Schedule and Performance Monitoring

Upon approval and receipt of STIC funding, the following is an anticipated pilot project timeline

- Within Two Weeks:
  - Establish Oversight Group
  - Define Working Group participants (Operations, Procurement, Bureau of Equipment, Academia)
  - Establish testing criteria for reporting
- Within One Month:
  - Initiate procurement of iCone equipment following NJDOT procurement policy
  - Determine program reporting format, frequency and evaluation
  - Determine error logs for communication failures of equipment
  - Establish cellular signal strength reporting criteria
  - Establish GPS accuracy reporting standards
  - Configure information relays between iCone equipped vehicles, Google, WAZE, HERE and 511NJ systems
- Within Six Months
  - Select vehicles for installation
  - Receive, install and test equipment within vehicles
  - Complete development of beta/test site on 511
  - Confirm messaging format and delivery to the public with Google, WAZE, HERE
  - Initiate pilot
  - Report to STIC on progress
- Within One Year
  - Report to STIC on progress and first annual report on pilot project (from date of funding)
  - Evaluate success of the pilot to determine if other State Transportation Agencies (NJ Turnpike Authority, South Jersey Transportation Authority) or other first responder organizations (Garden State Towing Association, Fire Departments, and Law Enforcement agencies) show an interest and capability of participating in the program.

SUBMIT PROPOSALS TO:

STIC Exec. Team

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STIC CIA Team Leaders

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NJ's STIC Incentive Accomplishments

Innovations	Project	Status	Amount
Federal Fiscal Year 2018			
NJ - STIC Communications Plan	Development of a NJ-specific STIC Communications Plan	Developing Proposal	TBD
Road Weather Management - Weather-Savvy Roads	Connected Vehicle - Road Service Safety Messages	Submitted Proposal	$39,600
		2018 Total	**$39,600**
Federal Fiscal Year 2017			
Data-Driven Safety Analysis	Hold Local Agency Peer Exchanges for Local Safety Program delivery utilizing Data-Driven Safety Analysis tools	In Progress	$18,564
e-Construction	Purchase and evaluate the use of tablets for construction and work zone inspection.	In Progress	$32,404
Unmanned Aerial System	Purchase, use, and evaluate Unmanned Aerial Systems (UAS) with the goal of developing guidance and specifications for bridge inspection and traffic incident monitoring	In Progress	$47,956
		2017 Total	**$98,924**
Federal Fiscal Year 2015			
Data-Driven Safety Analysis	Advancement of Data-Driven Safety Analysis	Complete	$41,600
e-Construction, Stakeholder Partnering	Advancing the use of mobile devices in the administration and oversight of the Local Public Agencies program	Complete	$21,464
		2015 Total	**$63,064**