**Call for Innovation (CFI)**

**Public Safety Software Applications & Tools**

The Center for Emergency Informatics and The EDGE Innovation Center are seeking public safety mobile applications that support first responder activities with the eventual goal of integrating with 700MHz BC14 high speed wireless networks. The mobile applications are to be integrated and tested during simulated public safety and disaster response scenarios.

**Objective:**
Seeking EDGE member technologies of mid to high Technology Readiness Level (TRL) to explore how the respective capabilities can be leveraged for the benefit of the First Responder community with the additional expectation of providing direction regarding product development.

*The intent is to demonstrate the "Art of the Possible" and show what can be accomplished utilizing a dedicated broadband network to create a net-centric response capability where first responders and their leadership have available to them timely video and situational awareness data as well as the means to conduct command and control in a joint/multi-agency environment.*

---

**Requested Innovative Technologies**

Software applications that would help a First Responders conduct their mission during several realistic rescue scenarios. Below are some examples but not limited to these potential applications:

1. Location Based Services: ability for first responders to share their location inside or outside of buildings
2. Collaboration: to include video and voice
3. Communication: to include push to talk ability
4. Situational awareness: across multi functions and organizations
5. Information sharing: management of information flow and types of information
6. Other

---

***Opportunities to participate in the Winter Institute experiment are limited***. Participants will be selected based upon maturity of technology (TRL level). If you are selected you have to provide your own resources for equipment, integration and travel to the experiment. There will be opportunities to coordinate advanced testing prior to the exercise for those selected to participate. Experiment dates are November 14-17, 2016, and you must be onsite during those times. This event brings together government, industry and academia in a live operational scenario. There will be scenarios built around selected applications for first responders to employ these tools in the live experiment. There will be structured data collection of end user feedback about the applications.

**Timeline for Responses:**
***Due to the nature of the effort supported by this request, responses are required no later than close of business, September 14, 2016.***

**Instructions for Responses:**
Please submit responses to this CFI by email to edgeinnovation@gd-ms.com. Please use the attached quad-chart format and be sure to include availability, estimated Technical Readiness Level (learn more about TRL levels here), and a technical point of contact, you may also submit a data sheet or short 1-2 page white paper describing how you would employ your application in our simulated disaster recovery effort.

**For Assistance with this CFI:**
Please contact Sheila Lucas at sheila.lucas@gd-ms.com or 480-441-5556.

**Learn More About this Innovation Center Issuing the CFI** The EDGE Innovation Center for Emergency Informatics, located on the campus of Texas A&M University, connects industry with the world's largest training facility for emergency professionals and with research at a top 10 engineering institution to accelerate transfer of advanced defense technologies and products that will revolutionize how disasters, big and small, are handled worldwide.

Due to the unique facilities and operations already in place at Texas A&M University and the direct access to customers in the field, the Emergency Informatics Center is recognized as both user- and capability-focused. These capabilities are captured by:

- The Dwight Look College of Engineering which is a Top 10 public engineering program with over 30 faculty in six departments actively researching key aspects of emergency informatics, including artificial intelligence, distributed computing, human factors, data mining, security, sensors, social networks, unmanned systems, visualization, and wireless networks.
- The Texas A&M Center for Applied Technology (TCAT) which manages test and evaluation programs for energy, water, environmental, and military programs and can assist EDGE members in developing and transitioning technology into the emergency responder community by utilizing faculty technical
- expertise and innovation.
- The Texas A&M Engineering Extension Service (TEEX) which trains over 200,000 professionals from all 50 states and as many countries annually in Firefighting and Emergency Services, Homeland Security, Law Enforcement, Public Works and Safety, Technology and Economic Development,
  and Search and Rescue. TEEX is the Texas state agency for urban search and rescue and hosts
  Texas Task Force 1. TEEX operates numerous training facilities including:
- Disaster City®--A 52-acre site featuring full-scale collapsible structures designed to simulate various levels of disaster and wreckage which can be customized for the specific needs of any group.
- Emergency Operations Training Center (EOTC)--Provides realistic, scenario-based incident management training using simulation and computer-based technologies to train incident managers, supervisors, executives, public officials and military personnel to manage a large-scale crisis.
- The Internet2 Technology Evaluation Center (ITEC) a center within the Academy for Advanced Telecommunications and Learning Technologies, was established in June 2004 as an integral part of the research agenda at Texas A&M University. Scientists at the ITEC work with the Internet2 organization and more than 200 leading research universities in the United States to develop strategies for the deployment of advanced communication and collaboration services. The ITEC supports the advancement and deployment of internet technologies, with special expertise in areas associated with Next Generation 9-1-1 (NG9-1-1), Voice-over-Internet Protocol (VoIP) and Information Assurance.

**Learn More About this EDGE member Issuing the CFI**

The Center for Emergency Informatics (CEI) brings together 30 engineering faculty members at Texas A&M University and TEES researchers who have been working together since 2008 to create unmanned systems, new sensors, wireless networks, data mining, simulation and visualization, social networking, and other technologies that can revolutionize response and recovery. The center is unlike any other in the United States, because it focuses on how new and evolving information technologies can be improved, integrated, and put to use for disaster prevention, preparedness, response and recovery. The EDGE Innovation Center for Emergency Informatics is sponsored by Texas A&M University.
Read more