Call for Innovation (CFI)
Summer Institute

Objective: To identify and demonstrate innovative technologies that are capable of assisting first responders during a flood scenario.

Background: The 2015 Summer Institute (June 15-19) will focus on all types of flooding disasters and all phases of an incident (preparedness, prevention, response, and recovery). June 16th will take place in College Station for sessions with stakeholders and technology demonstrations at Disaster City, June 17 and 18th as field exercises, and June 19 as a visioneering session.

Concept experimentation will be a large scale, geographical distributed event with highly realistic concurrent swift water rescue and flooding activities in Galveston feeding information to tactical responders and up through to an emergency operations center(s) in College Station along with crowd sourcing. The event will allow individual technologies to be inserted into operations, while challenging wireless networks and data-to-decision processes. The event will also have evacuees and injured, bringing medical response issues into play. It will be repeated on the next day.

Requested Innovation: The Summer Institute will consider any relevant TRL 7 or higher innovation. Topics of particular interest identified in the 2014 Summer Institute on Flooding are:
- Rapidly deployable and portable wireless networks
- Unmanned systems, particularly aerial and marine systems
- Geographical information systems and reasoning, especially tied into meteorology
- Sensors, especially measuring changing water levels, soil moisture and state of mitigation structures such as levees
- Crowd sourcing and social networking, social vulnerability
- Situation awareness and data-to-decision
- Security, especially protecting privacy of evacuees and injured, but allowing family members and care-givers

Timeline and Instructions for Responses: Please provide your innovative solutions to some or all of the requested information in quad chart format. Please use one quad chart format for each solution. Please submit quad charts to Murphy@cse.tamu.edu and courtesy copy edgeinnovation@gd-ms.com no later than March 17, 2015.

For Assistance with this CFI
Please contact Dr. Robin Murphy by email.

Learn More About this EDGE Innovation Center:
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. Read more

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