

A NEED FOR NEW TECHNOLOGY

From July 18 through July 22, in venues throughout the New York City Metropolitan area, the Science and Technology Directorate (S&T) will provide first responders with the opportunity to experiment with emerging technologies in realistic, urban settings. These experiments will allow first responders to evaluate the latest technology solutions that may help them address evolving threats and hazards such as, but not limited to, coordination of mass casualty events, protecting mass gatherings, and fire response in complex structures and subterranean environments.

WHAT IS URBAN OPEX 22?

Urban OpEx 2022 seeks to introduce innovative technology solutions to first responders that meet identified capability gaps arising from operating in a complex urban environment. This will be an opportunity to evaluate new technology in a realistic environment and provide feedback to technology developers. The results of Urban OpEx will enable S&T and the National Urban Security Technology Laboratory (NUSTL) to:

- Identify regional priority capability gaps and potential technology solutions
- Obtain a deeper knowledge of first responder mission objectives and constraints
- Better understand the trends, capabilities, and limitations of innovative technologies being developed for the homeland security enterprise
- Collect feedback on technologies for refining and guiding future homeland security technology investments

S&T and NUSTL will select 10 technologies suitable for operational experimentation in urban environments. The following technology categories may address any or all of the documented capability gaps:

- Fixed, on-body, or hand-held sensors
- Unmanned aircraft systems
- Situational awareness platforms
- Response and evacuation tools
- Deployable communications systems
- Indoor and outdoor personnel location tracking systems
- Video content analysis and video analytics
- Deployable robotics

IMPACT

First responders participating in the S&T Urban OpEx benefit by:

- Field-testing technologies before making potential technology investment decisions
- Influencing the development of new technologies to best meet their needs through their feedback
- Collaborating with technology developers, responders, and a broad range of state and local agencies to refine the technologies in order to meet the needs of first responders
- Informing fellow urban first responders across the nation of the evaluated technologies through published reporting of their feedback and thoughts

Urban OpEx 22 will provide first responders with potential innovative technology solutions to their most pressing challenges faced during day-to-day and large-scale emergencies.

KEY PARTNERS AND STAKEHOLDERS

- New York City Police Department
- Fire Department New York City
- New York City Metropolitan Transportation Authority
- New York City Office of Emergency Management
- Port Authority of New York and New Jersey



First responders inject a sample into the Tridion-9 portable gas chromatograph during Urban OpEx 2016