



## *A Pilot Program for Testing and Evaluation of HG\_Flow Modeling and Simulation Capabilities for Critical Infrastructure Protection*

### Program Description

The time period covered by this Program is January 1, 2012 through December 31, 2012. During this time period, HyGie-Tech USA is offering a formal Pilot Program, which includes specific testing and evaluation guidelines, to eligible government agencies and standards organizations. Under this program, HyGie-Tech and various funding entities will offer the basic program at no cost to qualified organizations, with a more comprehensive program available at a discount to other participants. The basic program includes testing in a single facility with up to three (3) individual case studies. The participant commits to adherence to the testing and evaluation guidelines and unbiased report on findings. Under the basic program the participant will not receive an HG\_Flow license nor will any equipment be provided.



This HG\_Flow Pilot Program is extended to each participant for testing and evaluation purposes. The goal of the program is to observe and validate HG\_Flow performance in real-world situations designed to test system capabilities and demonstrate its effectiveness for modeling indoor environments and ability to establish a viable simulation. Validation will be based on HG\_Flow accuracy and level of precision in determining where various contaminants will travel when emitted into the test facility.

### Program Eligibility

At the time of registration for the program, a participant must be either:

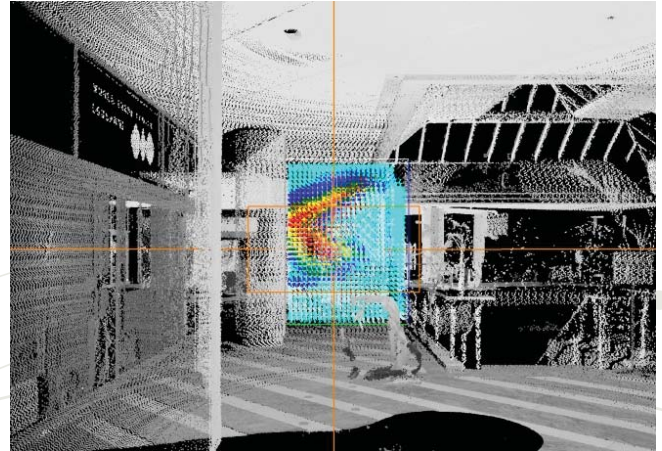
- 1 A Federal Agency working in the areas of Critical Infrastructure Protection (CIP), Biological and Medical Countermeasures Research, Chemical and Biological Research and Environmental Detection and other CBDP program participants
- 2 Involved in or funded by Focused Innovative Technology (FIT) programs
- 3 The Responder community including, Law Enforcement and Hospitals
- 4 DOD and Homeland Security, including Homeland Response Force and the National Guard Bureau
- 5 Other Chemical, Biological Defense Program (CBDP) participants



## Program Highlights

Participation in the program includes, but is not limited to the following:

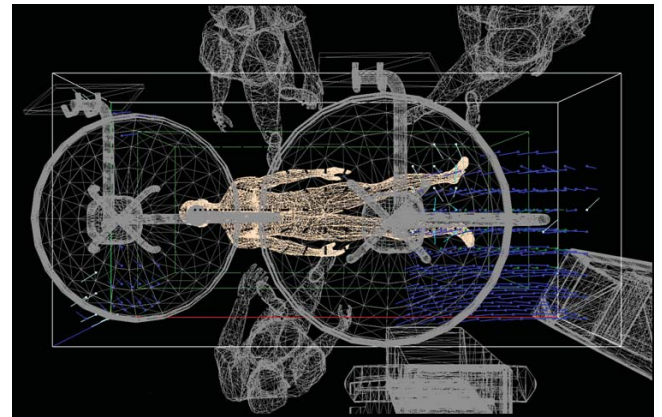
- A** Facility: Selected facility can be up to ten (10) stories and should not exceed 100,000 square feet of space per floor
- B** HVAC Characteristics: Participant will provide manufacturer and model information on HVAC systems in use within the facility
- C** Air Flow Readings: Readings will be taken as part of the exercise
- D** Architectural: If available, facility drawings will be provided in Computer Aided Design (CAD) or Building Information Modeling (BIM) format
- E** Technicians: HyGie-Tech certified technicians will work collaboratively with participant personnel to scan facilities
- F** Test Materials: HyGie-Tech will work with participant on selection of contaminants or simulants
- G** Training: participant personnel will be trained as necessary
- H** Reporting: Detailed feedback will be provided to HyGie-Tech USA by program participants
- I** Assessment: HyGie-Tech USA will provide a complete assessment and solution guidelines
- J** Data: Will be owned by participating organization



## Program Assessment

At the conclusion of the pilot program HyGie-Tech will work with program participants to establish the solution document, which addresses the objectives of the assessment. The final assessment and analysis includes the following deliverables:

- 1** Wireframe and block form representations of the scanned facility
- 2** Full virtual 3D model of the scanned environment
- 3** Animated dynamics of airflow and particle movement through the facility
- 4** Vector field data showing particle velocities, direction and patterns
- 5** Specific values for level of toxicity by contaminating agent
- 6** Full case study report detailing overall solution



## For More Information Contact:

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