Station 3: Drone-Carried On-Demand Wi-Fi Networks

Communication Infrastructure for Emergencies

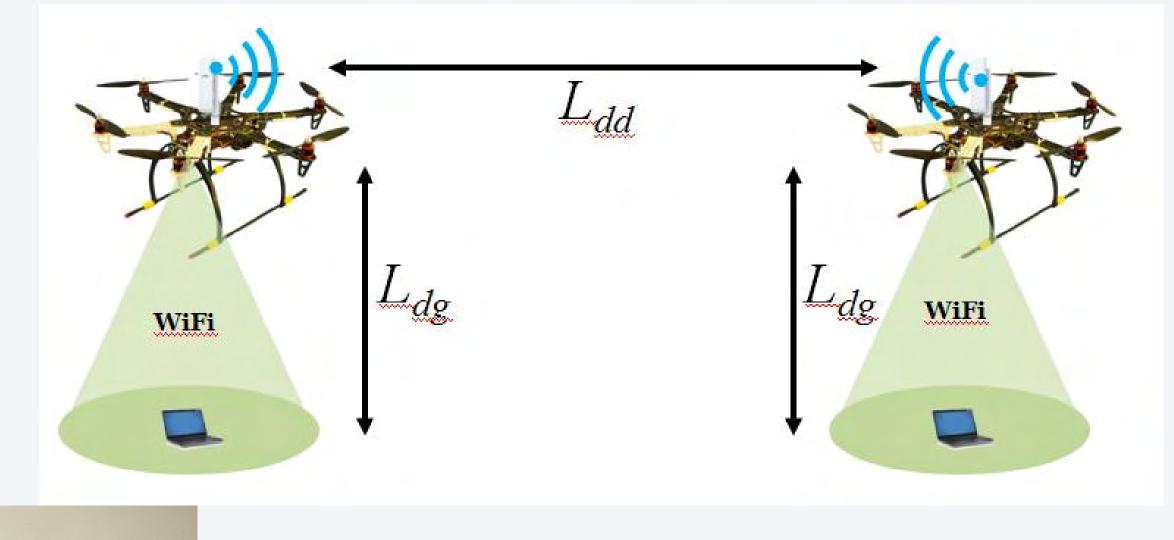


Key Features

- Fast and flexible Wi-Fi networks deployment using drones
- Directional antennae and heading control for robust and longrange aerial communication on the move

Broad Impacts

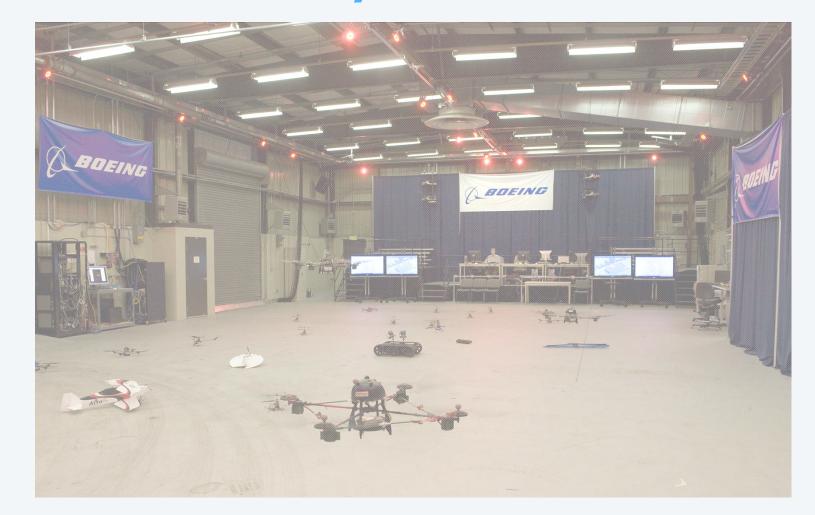
• New commercial drone applications and job markets



- New technologies for on-demand communication
- Fast emergency response to save lives



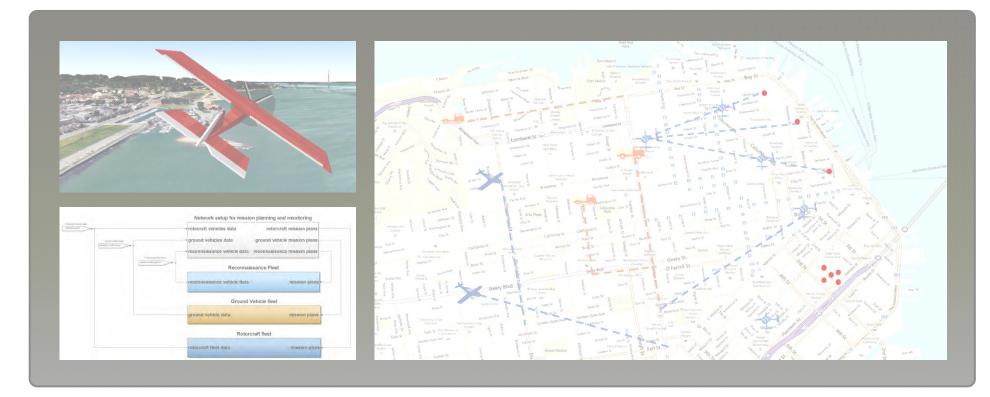
Collaborative Systems Lab (Boeing)



Booth Map

Station 4 Mission Command and Control Center

(MathWorks)

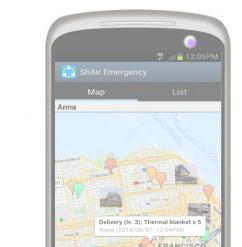


Station 3 Drone-Carried On-Demand Wi-Fi Networks (University of North Texas)





Station 2



Smartphone App for Emergency Response









Exit

Station 6 Teleoperated Robot for Emergency Response

(BluHaptics | National Instruments | University of Washington)

Station 1 Cyber-Physical Search and Rescue Dog (North Carolina State University)

<image>



(MIT Media Lab)





BluHaptics | Boeing | MathWorks | MIT Media Lab | National Instruments | North Carolina State University University of North Texas | University of Washington | Worcester Polytechnic Institute

Project realized for SmartAmerica Challenge, www.smartamerica.org, 2013–2014. Team Lead: Justyna Zander, MathWorks Fellow at WPI, MathWorks, 3 Apple Hill Dr., Natick, MA 01760, USA. Contact: dr.justyna.zander@ieee.org.