Stephen Luxion

Alliance for System Safety of UAS through Research Excellence (ASSURE)
Big Picture Overview

NIST PSCR UAS Workshop
February 7-8, 2024

Steve “Lux” Luxion, Colonel (USAF-Retired)
Executive Director, ASSURE
SLuxion@assure.msstate.edu
ASSURE is divided into three key sectors.

1. **FAA Center of Excellence**

2. **ASSUREd Safe**
   (Training, Educating, and Certifying First Responders)

3. **ASSURE Global**
   (Independent Partnerships with Industries and Governments worldwide)
Current Funding per Sector

1. **FAA COE**
   - $14M (per year FY18-22)
   - 78 Total Projects
     - 30 active, 40 completed, 4 proposed
   - $70M Active Projects
   - $180M Total Level of Effort Since Inception

2. **Non-COE/ASSURE Global**
   - ASSUREd Safe
     - $6M FEMA (FY21-24)
     - $4M NIST

3. **ASSURE Global**
   - $4.6M (to date)
   - 9 Total Projects
ASSURE FAA COE

Research Capabilities
Related Work – Highlights

- Public Safety – Disaster Prep/Recovery
- Cyber Security – Oversight
- C-UAS – Safety to the NAS
- Beyond Visual Line of Sight Enablers
  - Detect & Avoid (DAA)
  - Right-of Way Rules
  - Shielding
  - Increase sUAS Conspicuity
- GPS & ADS-B Risks for UAS
- Multi-Aircraft Control
- Standards V/V (Remote ID, Detect & Avoid…)

www.ASSUREuas.org