

Drones / UAV's Their Impact on Airports



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Challenges of Measuring Drone Risks

- New Risk Segment to the Industry
- Lack of Claims Data
- Limited Aviation Experienced Operators
- Rapid Growth of Industry
- Consistent Legislation Changes



Drones & UAVs – Sample Uses & Sources of Business

- Agricultural
 - Crop Spraying
 - Terrain Mapping
 - Delivery
 - Mobile Data Networks
 - Law Enforcement – Border Patrol
 - Search and Rescue
 - Space
 - High Altitude Data Gathering – University Research
 - Wildfire Support
 - Pollution Response
- Traffic Monitoring
- Filming/Photography
- Wildlife Monitoring
- News Gathering
- Emergency Response
- Real Estate
- Inspection
- Power lines
- Pipelines
- Wind Farms
- Towers
- Disaster Recovery



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Drone Sighting by Airline Captain

- <https://www.youtube.com/watch?v=Sj5kplrXLXg>



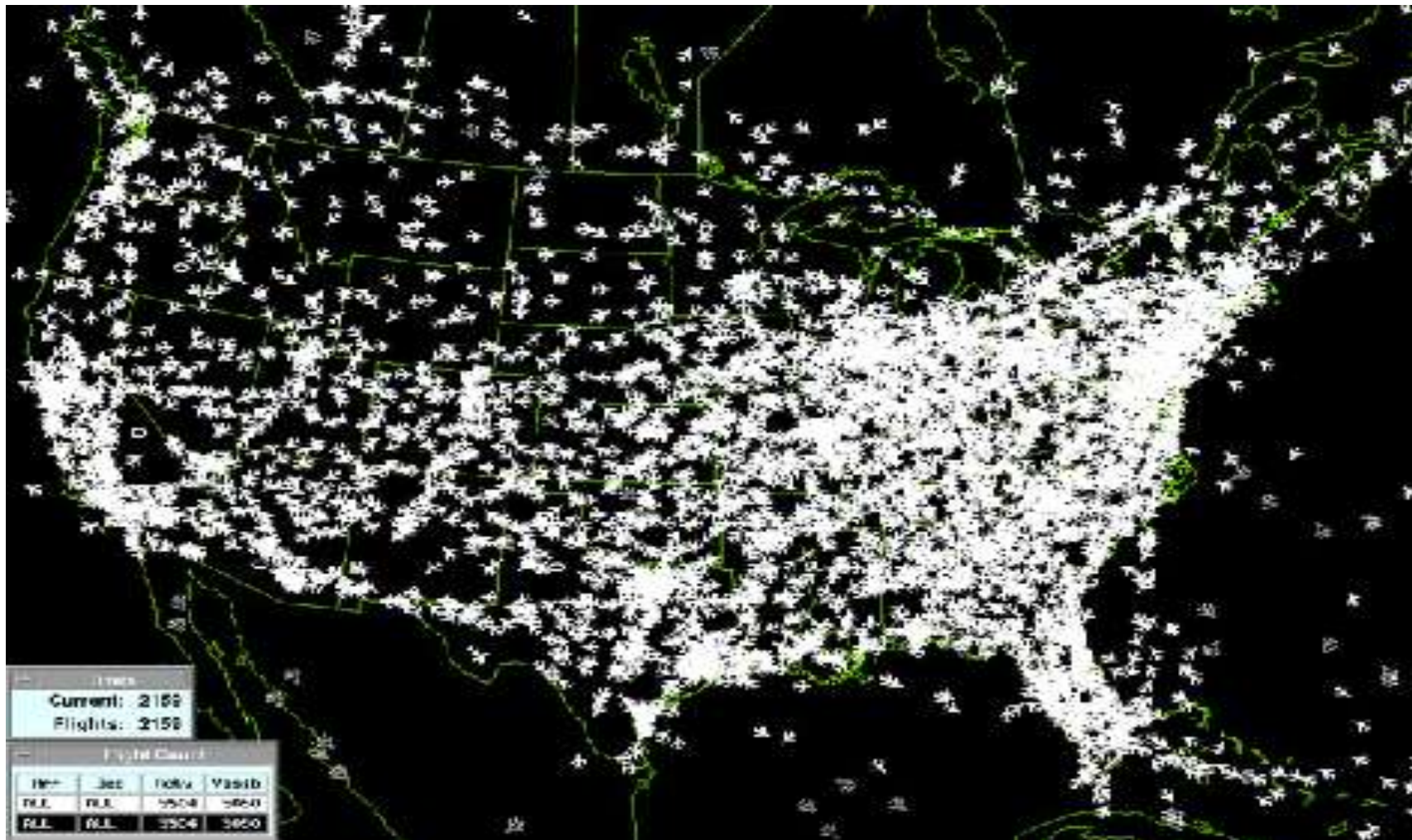
Threats that Drones Pose to Airports

- Mid Air Collision with Manned Aircraft
- Intentional Acts Involving UAV's
- Terrorism
- Inside Terminal Threat
- Fuel Farm
- The Unknown Possibilities



Federal Government Action

- Registration of Drones
- State and Local Legislation vs. Federal
- FAA Rules
- Notifying the Consumer Public



Commercial Drones & UAVs – Testing & Development

- At any given time, there are multiple new drone platforms being introduced. From a university build to a drone startup, these assets require safe test areas



- These areas allow drone research and development on everything from the air vehicles to the control systems and the payloads carried.
- This airspace is NOTAMed (a notice filed with an aviation authority to alert pilots of potential hazards and restrictions along a flight route) as a drone only area and manned aircraft can only enter at their own risk.

Drones & UAVs –Used as Model Aircraft



- System Cost--\$1,000-\$7,000
- System contains an Aircraft, Gimbal/Payload
- Some are streaming video capable
- Upgraded controller, propulsion systems
- 1080p camera with tilt feature

Commercial Drones & UAVs – Hexa & Octa Copters



- System Cost--\$1,500-\$75,000
- System contains an Aircraft, Gimbal and Payload as well as possible ground support equipment
- Payloads range from pizza's to multi spectrum cameras
- Some systems require a pilot, spotter and camera operator for maximum effectiveness



Drone Hunter

- <https://www.youtube.com/watch?v=jlXwQVFt8Ho>

Thank You!

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