

Topics To Be Covered

- Drone Basics
- Small UAS Rule (Part 107 Summary)
- Part 107 Waivers: Progress Made To-Date
- Making Your Waiver Safety Case
- Trump Administration UAS Integration Pilot Program
- What's Coming Next
- 2017: The Year UAS Revolutionized Disaster Response and Recovery Efforts
- Questions?



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Commercial Drone Applications and Industries

Delivery

- Energy/Oil and Gas
- Insurance
- Construction
- Mining
- Newsgathering
- Research
- Inspection
- CounterDrone
- Real Estate

Infrastructure

- Mapping
- Humanitarian Aid
- Film-making
- Railroad Monitoring
- Surveying
 - Entertainment
- Agriculture
- Monitoring
- Aerial Photography

- Public Safety
- Sports
- Telecommunications
- Research and Development
- Advertising
- Education
- Detection
- Environment
 - Security
- Transportation

Why Use a Drone?

- Deliver medical supplies and medicines to assist with catastrophe response
- Assess crop health, detect variations and map terrain
- Provide a birds eye view via topographical map of land, water, fields to reveal slopes, structures, terrain
- Provide high-res digital elevation models of construction sites, mines, structures
- Safely survey cell towers, pipelines, flare stacks, electrical wires, bridges
- Rapid deployment for search and rescue efforts
- Protect critical infrastructure and provide perimeter security for facilities

ALL ABOUT THE DATA, NOT ABOUT THE DRONE

State of the Industry

Key Findings

- Goldman Sachs forecasts a \$100 billion market opportunity between 2016-2021
 - Consumer + Commercial/Civil = \$30 billion
- PricewaterhouseCoopers estimates global market value of UAS-powered solutions at over \$127 billion
- Skylark Drone Research reports nearly 1 million drones registered with the FAA compared to 320,000 registered manned aircraft
 - ~100,000 registered for commercial use
 - FAA estimated 11M commercial UAS will have been sold in US by 2020
- As of May 9, 2018, there were over 90,000 pilots certified for commercial drone operations

According to FAA, demand for drone pilots could increase to 1.6M by 2021

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Drone Security

- "Known" Drone Numbers as of December 31, 2017
 - Over 1.1 million hobbyist drones
 - Double to 2.4 million hobbyist drones over the next 5 years
 - 110,000 commercial drones registered
- National security agencies raised drone security as an important policy issue:
 - Remote ID: Whose drone is that?
 - How to distinguish between legitimate and illegitimate use?
 - How to mitigate potential drone threats?
- June/November 2017: Domestic Drone Security Summits between industry and government
- October 2017: UAS Tracking and ID ARC presented recommendations to FAA; published December 2017
- May 2018: ANPRM under review at OIRA/WH

Policymakers worried about:

- Careless
- Clueless
- Criminal



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Title search: Legal and Policy Challenges in the Age of Drone Fever

Also available as part of the eCourse 2018 Technology Law eConference

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