Overview of the Unmanned Aircraft Systems Industry

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About AUVSI

• AUVSI’s mission is to advance the unmanned systems and robotics community through education, advocacy and leadership.
• AUVSI’s vision is to improve humanity by enabling the global use of robotic technology in everyday lives.
• In its 43rd year, AUVSI is the world’s largest non-profit association devoted exclusively to unmanned systems and robotics
  • Air, Ground and Maritime
  • Defense, Civil and Commercial
• AUVSI represents more than 7,500 members, including more than 600 corporate members from more than 60 countries
• Diverse membership from industry, government and academia
AUVSI Chapters

- AUVSI has more than 30 Chapters across the U.S., and others in the UK, Spain, Israel and China
- Many chapters have hosted events that include information on commercial uses for UAS
- Precision Agriculture
  - Cascade Chapter (Oregon and Washington)
  - USA-OK Chapter (Oklahoma)
  - Atlanta Chapter (Georgia)
  - Pathfinder Chapter (Alabama)
- First Responders/Law Enforcement/Search and Rescue
  - Cascade Chapter (Oregon and Washington)
  - Lone Star Chapter (Texas)
- Commercial/Consumer Robotics
  - Silicon Valley Chapter (N. California)
  - Twin Cities Chapter (Minnesota)
  - Mountain West (Utah and Idaho)
UAS Economic Potential

AUVSI’s Economic Report:

- The UAS global market is currently $11.3 billion
- Over the next 10 years, the UAS global market will total $140 billion
- The economic impact of US airspace integration will total over $13.6 billion in the first three years and will grow sustainably for the foreseeable future, cumulating to over $82.1 billion between in first decade
Small UAS Rule

Small UAS Rule (Part 107)

- Mandated by 2012 FAA Reauthorization Act
- Took effect on August 29
- First clear regulatory framework on civil and commercial UAS operations
- Established a flexible, risk-based approach to regulating UAS
- Allows anyone who follows the rules to fly
- Generally speaking:
  - Operators need to fly under 400 feet
  - Within visual line of sight
  - Only during daylight hours
- However, Part 107 allows for exceptions through an FAA waiver process
Looking Ahead

• On the first day the rule went into effect, more than 3,300 people signed up to take the aeronautical knowledge test, called the Unmanned Aircraft General (UAG) examination.

• Of the more than 530,000 people that have registered their UAS with the FAA since last December, more than 20,000 have indicated they are commercial operators.

• FAA projects more than 600,000 UAS could be flying for commercial use over the next year.
Exemptions Report

Top States

1. California
2. Florida
3. Texas
4. New York
5. Colorado
6. Illinois
7. North Carolina
8. Ohio
9. Pennsylvania
10. Georgia

Revenue

Business Applications

- Aerial Photo
- Real Estate
- Inspection
- Survey
- Construction
AUVSI Policy Priorities
Included in 2016 Federal Legislation

- Implement a “Risk-Based, Technology Neutral” Regulatory Framework
- Expand Section 333 Exemption Authority to Include Beyond-Line-of-Sight
- Develop a Holistic R&D Plan for UAS Integration
- Make FAA-Designated UAS Test Sites Eligible for Federal Funding
- Advance the Development of a UAS Traffic Management System
- Elevate UAS Integration into the National Airspace System as a national priority
Thanks for the Work You Are Doing!

AUVSI
www.auvsi.org