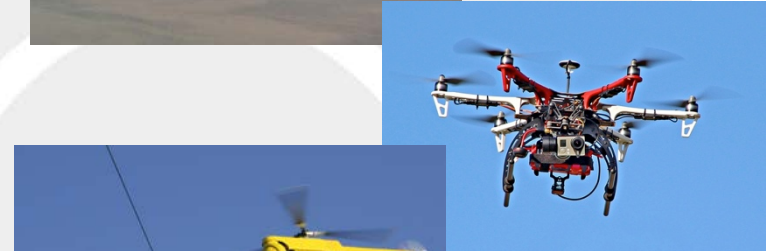


Understanding Community Needs and Desires

- Military: Training, Surveillance
- Civil: Border, Fire, Search and Rescue
- Industry: Movies, Package Delivery, Photography, Line/Crop Inspection
- Academia: Research, Class Studies
- Public: Entertainment, Personal Use



Existing Policy and Regulations → Challenges

Air Traffic Management
Airspace Rules

See and Avoid

Remote Control and
Model Aircraft Regulations

Pilot Training

Privacy and Airspace
Rights

UAS Uniformity

- Size, Performance, Usage

Algorithm Support

- Define “Well Clear”

Sensor Availability

- Detect and Avoid

Traffic Volume and Experience

Public Perception

Coping with Challenges to Define Integration and Testing

UAS Uniformity

- Size, Performance, Usage

Algorithm Support

- Define “Well Clear”

Sensor Availability

Number of Vehicles and User Experience

Public Perception

Scope Manageable Pieces

- Detect and Avoid
- Human Systems Integration
- Command and Control Communication

Divide and Conquer

- RTCA Phase 1 MOPS
- RTCA Phase 2 MOPS
- UAS Traffic Management
- UAS Airspace Integration Joint Tests

Build Relevant Test Environment

Educate and Manage the Message