Unmanned Aircraft Systems (UAS or "Drones") in Fairfax County Parks PUBLIC COMMENT MEETING - OAK VIEW ELEMENTARY MONDAY, DECEMBER 11, 2017



Tonight's Agenda



- Project Background
- Proposed Sites: Lake Fairfax and Popes Head Parks
- Moderated Comment Period

Informal Q&A

Park Authority at a Glance



Park Authority Board



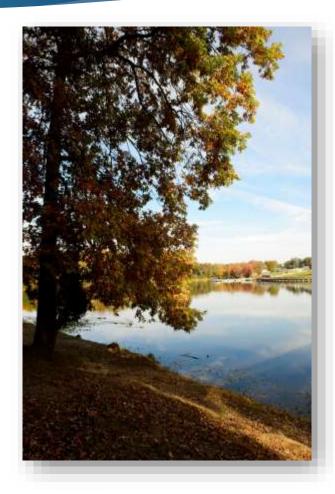
12-member Board appointed by the Board of Supervisors

One representative per Magisterial District and three At-Large members

Park Authority Mission

Enhance citizens' quality of life through:

- Natural and Cultural Resource Stewardship
- Recreational Opportunities
- Quality Facilities and Services



Project Scope

Provide FCPA Board members and leadership with guidance on:

- Responding to market trends
- Providing opportunities for UAS within the park system
- Protecting public safety and minimizing risk
- Balancing the needs of other park
 resources, users and activities



Project Team & Subject Matter Experts

Park Operations

- Natural & Cultural Resource Management
- Park Services/Programs
- Park Planning & Development
- Site Staff

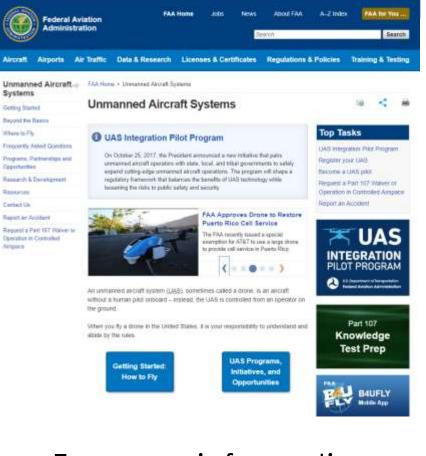
- Federal Aviation
 Administration
- sUAS Community
- Environmental Advocates
- County Attorney
- Office of Emergency Management
- Public Comments

The Issue: Emerging UAS Technology

- sUAS "drones" have increased in usage, availability, and application
- This increase is projected to continue as drones become commonplace in recreation, education, and commerce.
- sUAS are already in the parks
 - Successful, safe partnership at Poplar Ford Park
 - And elsewhere, although currently unauthorized

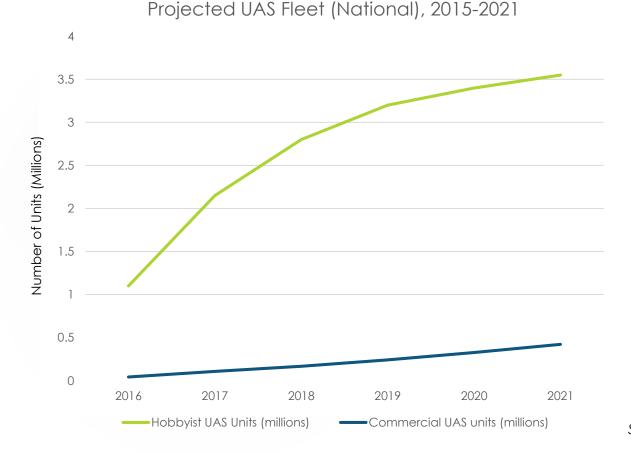
On Airspace

- The FAA is the regulatory authority for the nation's airspace
- Park Authority does not control airspace
- sUAS users are expected to follow FAA rules and all federal, state, and local laws
- Special Flight Rules Area in greater DC area - Rules continually changing
- Ultimately, pilots are liable for the safe operation of their aircraft



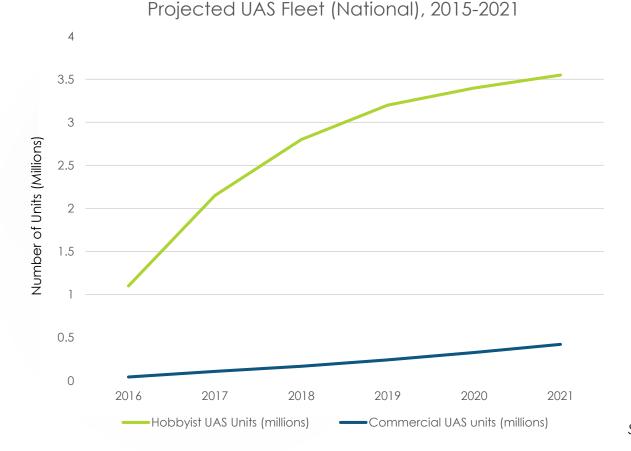
For more information: www.faa.gov/uas

National Trends



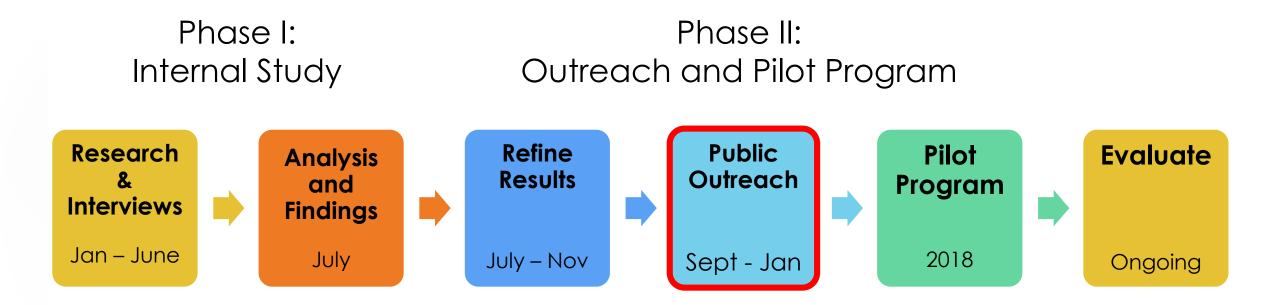
- Recreational use continues to grow:
 - ► Falling prices
 - New technologies
 - Market availability
- Rate of adoption and prices eventually settle

National Trends



- Commercial fleet expected to be 10 x greater in 2021 than 2016.
 - Photography (34%)
 - ▶ Inspections (26%)
 - ▶ Real Estate (26%)
 - Agriculture (21%)
 - A single sUAS may be used for many applications

Timeline



Methodology



Study Findings & Identified Issues

Opportunities and Partnerships

- Recreational & Educational Programming
- Commercial & Park
 Authority Uses

Limit Conflicts

- Natural Resources
- Other Park Users and Activities

Community Safety is Paramount

- For all park visitors & community
- Limit unsafe conditions though adopted rules

Partnerships = Success

- Provide expertise/supervision
- Education & training

Public Outreach

- Safety
- Regulatory/Liability
- Limit Park Conflicts

Site Selection Criteria

- Natural Resources
- Safety & Nuisance
- Park Use/Visitors

Key Recommendations

- Consider a sUAS "pilot program" at 1-2 outdoor park locations, at sites evaluated and approved by the Park Authority
 - Sites chosen after careful consideration of safety and impacts to habitat, facilities, existing activities and the surrounding community
 - Pilot program would be conducted in partnership with suitable organizations
 - Indoor locations provide additional opportunities
- Develop sUAS programming, classes, and camps
- Incorporate sUAS to advance the Park Authority mission
- Ongoing public outreach and engagement

Recreational Site Selection Criteria

- Consider all park types, RECenters, and field houses
- Minimize natural resource conflicts
- Exclude golf courses
- Adequate parking, bicycle, and pedestrian access
- Open space for safe flights, separation of spectators
- Nearby park and public uses
- Scheduling capacity
- Preference for partnerships
- Consistent with approved Park Master Plans



Outdoor Site Evaluation

- Evaluation of outdoor locations suitable for safe recreational drone takeoff/landing – a land use exercise
- Application of site selection criteria
- Public input and comment needed
- Eventual selection of 1-2 sites for a pilot program if sites are suitable
- Considered sites are in active recreation areas

Study Recommendations:

- Baron Cameron
- Frying Pan Farm Park Field House
- Lake Fairfax
- Laurel Hill
- Mason Neck West
- Popes Head
- Rock Hill District
- South Run District Field House

Lake Fairfax Park – Large Field Area Hunter Mill District

- Large open area
- Ample parking
- Single access road for safe access
- Defined boundary, generally isolated
- Near staffed facilities
- Scheduling opportunities
- No identified natural resource conflicts
- Proximity to restricted airspace?
- Currently active Park Master Planning process



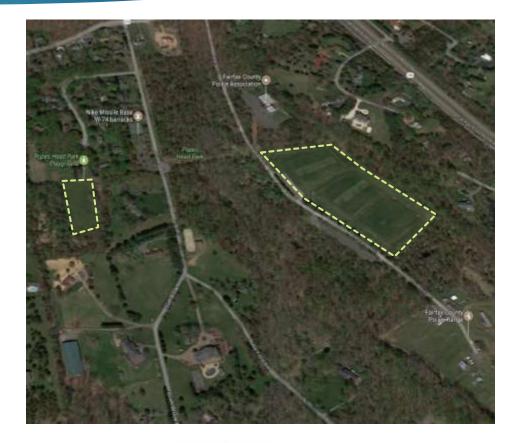
Popes Head Park – Fields & Open Play Area Springfield District

Athletic Fields

- Coordination required with adopting partner
- Adjacent to police range
- Ample parking
- Generally scheduled March-Oct., nights and weekends

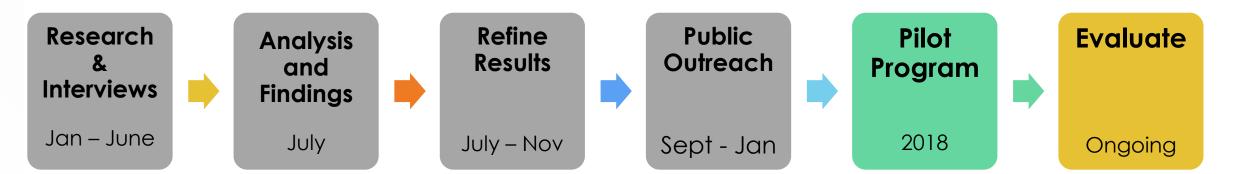
Open Play Area

- Smaller area adjacent to playground, courts
- Parking lot requires walk-in
- Well-defined border



Next Steps





Public Comment Period Ends <u>January 11</u> Staff to Finalize Recommendations in January – February Pilot Program in Spring 2018

Public Comments

Open Through January 11, 2018

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Fairfax County Park Authority Planning & Development Division 12055 Government Center Parkway, #406 Attention: Ryan Stewart, Project Manager

https://www.fairfaxcounty.gov/parks/plandev/poplarford.htm