



Corona Police Department

Unmanned Aerial Systems

Chief George Johnstone

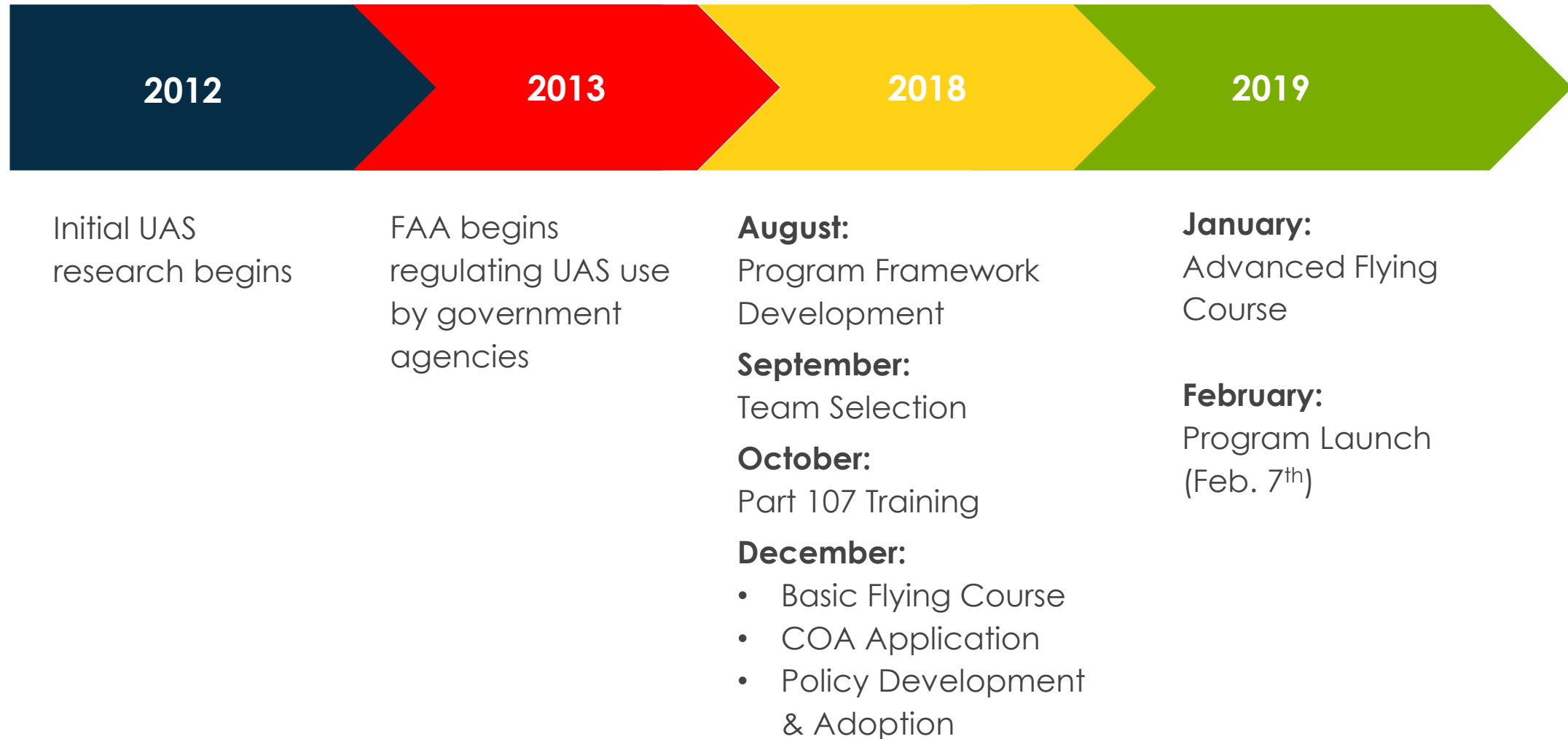
City Council Presentation - February 6, 2019

Overview



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Background





Task & Purpose

Develop and deploy a UAS team that is:

- **Versatile** – multiple UAS platforms that provide options
- **Flexible** – use not just limited to traditional enforcement activities
- **Reliable** – repeatable success
- **Safe** – comprehensive training and reliable technology
- **Growable** – build on department successes by expanding the program to maximize potential

In order to:

- Enhance safety and service
- Leverage technology in a fiscally responsible manner

Process



Team Composition/Selection

- Field Services Division
- Consists of: 1) Lieutenant 1) Sergeant 1) Corporal
5) Patrol Officers 1) Professional Staff

Initial Training and Pilot Certification (56 hrs)

- Introduction to UAS Programs
- FAA Part 107 Test Preparation
- Basic Flying
- Advanced Flying
- FAA Part 107 Examination

Equipment Procurement

Policy Development

FAA Certification/Certificate of Authorization

Capabilities

- Day/Night Capable
- Forward Looking Infrared (FLIR)
- 4K Video/Stills
- Inclement Weather
- Cost Effective
- Responsive
- Versatile



Intended Uses



- Perimeter Searches
- Foot Pursuits
- Barricaded Suspects
- Search & Rescue
- Missing Persons
- Mapping (Crime Scene & Traffic Accident)
- Supporting Fire Operations
- City Sponsored Community Events
- Assist Other Departments
- Training/Recruitment







Public Concerns

- Privacy concerns are addressed in department policy
- 4th Amendment and helicopter case law guide use
- Not for random “patrols” – narrow in scope
- Committed to ethical use
- UAS are not weaponized
- Use guided by FAA policies and procedures
- No reportable public safety UAS crashes

Current Inventory

DJI Matrice 200

Zenmuse XT2 FLIR Camera
4K Video/Stills
38 Minute Flight Time



DJI Phantom Pro 4

4K Video/Stills
30 Minute Flight Time



DJI Mavic Air

4K Video/Stills
20 Minute Flight Time



Other Agencies

- Torrance Police Department
- Alameda County Sheriff's Department
- Stockton Police Department
- Riverside Police Department
- Riverside County Sheriff's Department
- Beaumont Police Department
- Ventura County Sheriff's Department
- Los Angeles Police Department
- Chula Vista Police Department
- Chino Police Department
- El Segundo Police Department (In Development)
- Irvine Police Department (In Development)

Community Support

- Corona Police Community Partnerships (CPCP)
- H.E. Enterprises, Inc.
- Wal-Mart Store # 2487
- Sally's Barbershop
- Robert Sims, CEO/President, Hoosier Precision Machining
- Hangar 21, Fullerton CA



QUESTIONS?



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