

# REMOTELY PILOTED AIRCRAFT SYSTEMS (RPAS) ACQUISITION

February 7<sup>th</sup> 2018



OTTAWA POLICE SERVICE  
SERVICE DE POLICE D'OTTAWA

*A Trusted Partner in Community Safety*  
*Un partenaire fiable de la sécurité communautaire*

[ottawapolice.ca](http://ottawapolice.ca)

**PURPOSE: TO UPDATE THE POLICY &  
GOVERNANCE COMMITTEE ON THE  
PROPOSED PURCHASE OF TWO RPAS BY  
THE OPS, PRIVACY CONSIDERATIONS  
AND THE DEVELOPMENT OF SOPS**



**OTTAWA POLICE SERVICE  
SERVICE DE POLICE D'OTTAWA**

*A Trusted Partner in Community Safety  
Un partenaire fiable de la sécurité communautaire*

[ottawapolice.ca](http://ottawapolice.ca)

# OUR APPROACH



- Ongoing, iterative internal consultation process
- Consultation with other police services including the OACP UAV sub-committee
- Researched best practices and technology/platforms
- Considered privacy concerns

# BENEFITS



## **Emergency Services Unit – Missing Persons**

Potential to find missing persons faster, search faster, reduced service effort, provide overview of search area, officer safety

## **Collision Investigation**

3D rendering of collision scenes, survey in minutes not hours, improved court disclosure, time savings for reopening roads

## **Forensic Identification**

Detailed aerial view/rendering of crime scenes

## **Tactical**

Aerial perspective of critical incidents, increase officer safety, live video streaming to Command Post

# SAFETY & PRIVACY



- All RPAS operations will be conducted with the approval of Platoon Inspectors (Incident Commanders)
- All RPAS operations will be communicated with area air traffic control as required by T.C.
- RPAS flights for collision and crime scenes will be conducted over secured areas
- RPAS flight video recording will be kept as digital evidence as per OPS Photographic policy
- **Retention:** video to be archived and destroyed in accordance with the AI-007 Management of Police Records and OPS Retention and Destruction of Records policy

# RPAS PLATFORM



- **DJI Matrice 210 RTK**

- 2 RPAS: \$51,021   Software \$ 23,587   Training \$7,293  
Total: \$89,901 (one-time cost)

100% covered by SaferRoads Ottawa Funding



# CAPABILITIES



- 28 minute max flight time
- Dual heated battery power able to function in -20°C temperature
- Obstacle avoidance sensors
- High quality 4K camera system with thermal imaging capabilities (Flir)
- 'Airsense' – provides real-time information about nearby aircrafts

# OVERSIGHT



## ■ Transport Canada

- Staff Instruction (SI) No. 623-001
- Special Flight Operations Certificate
- Training (Compliant pilots) Ground school training (3 days)
- Pilots require Radio Communication Certificate

## ■ Judicial Authorities

- Any operation of RPAS in an area where there is an expectation of privacy must be completed with judicial authorization (warrant)



# STANDARD OPERATING PROCEDURES (SOPS)



## ■ Development

- Consultation with other police services with RPAS Programs (R.C.M.P., O.P.P., Toronto, Durham, Barrie, Peel, Halton, Niagara, London, Windsor, Chatham-Kent)
- Compliance with Transport Canada regulations

## ■ Internal review and approval by OPS Legal

## ■ Highlights:

- All RPAS operations are subject to current legislative and procedural obligations in relation to applicable search and privacy legislation
- All evidence collected is subject to full disclosure and related rules of evidence which shall be recorded, logged and accounted for in accordance with OPS policy – Crime Scene Preservation & Evidence
- RPAS will be used as an investigational aid for collision & crime scene investigation, search for missing persons & public safety investigations when there is no expectation of privacy (or judicial authorization required)

# OPERATIONS & TRAINING



- 12 officers trained (ground school)
- Ongoing mandatory monthly training (1 hr/officer) as required by T.C.
- Program manager to oversee operations, training, Flight logs, maintenance
- Platoon Inspector will grant approval for use when required

# IMPLEMENTATION



- Expected Purchase in March
- Operationalize RPAS by end of Spring
- Public Awareness Plan