

NAV CANADA ► PROPRIETARY

# NAV CANADA Remotely Piloted Aircraft Systems

SWIFT Airport Conference,  
September 2022



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# Agenda

NAV CANADA  
Remotely Piloted Aircraft System (RPAS)  
Swift Conference, 2022

- 1 NAV CANADA RPAS Strategy
- 2 NAV Drone
- 3 Future Initiatives

# NAV CANADA RTM

## Strategic Pillars



Safety



Research and Trials



Service Provision



Operations



Stakeholder Engagement

# RTM Strategic Pillars



## Safety

Safety and risk mitigation is foundational  
Safety Management System

Specific focus on:

Drone Incursion Risk

Non-Collaborative Detection

Coordinated Response Plans

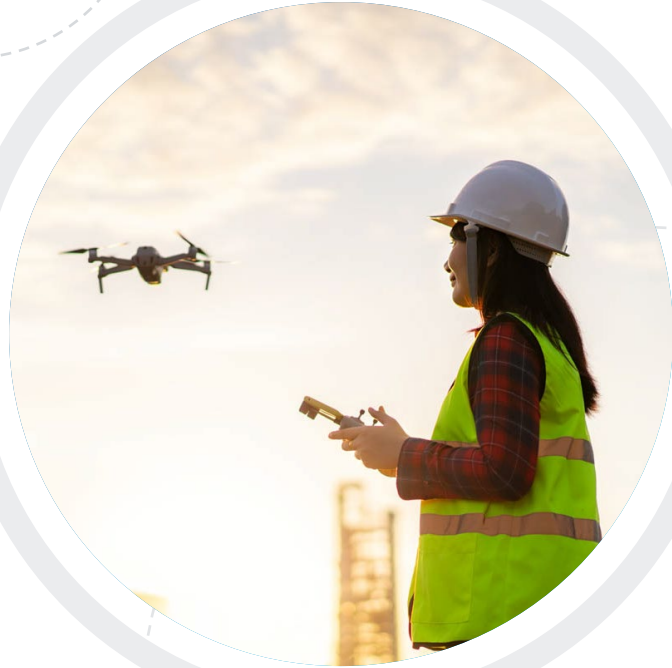


# RTM Strategic Pillars



## Research and Trials

Collaboration with Transport Canada and Industry  
Establishing Trials Program (RTMAC)  
Research and Proof of Concept (POCs)  
Engagement with Standards Bodies  
Monitoring International Research and Trials



# RTM Strategic Pillars



Service Provision / NAV Drone

NAV Drone

Permission to Access Controlled Airspace

Canadian Aviation Regulations - Part IX

Visual Line of Sight

Small RPAS

Control Zones





## RPAS OPERATOR



### AIRSPACE INFORMATION

Provides operators with airspace information including classification, restrictions & NOTAMs



### FLIGHT PLANNING

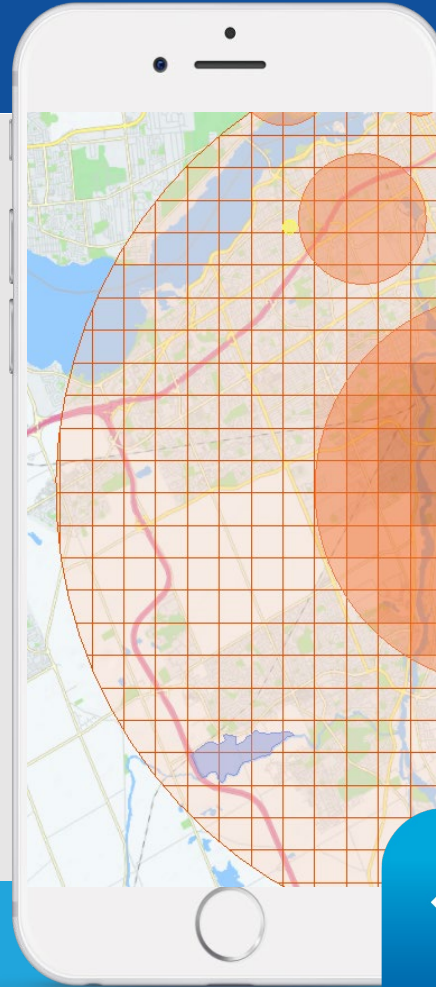
Provides capabilities to schedule and plan flights in controlled airspace



### FLIGHT AUTHORIZATION

Automates authorization responses to fly in controlled airspace

OPERATION MANAGEMENT /  
SAFETY AWARENESS



## NAV CANADA

### WORKLOAD AUTOMATION

Automates majority of authorization requests based on preapproved flight areas.



### OPERATIONAL INSIGHT

Provides a visual of scheduled drone flights occurring in controlled airspace



### EMERGENCY MANAGEMENT

Provides capabilities to quickly notify emergency operators



AWARENESS /  
EMERGENCY CONTACT



Business Model

# RTM Strategic Pillars



## NAV CANADA Operations

Operational Integration of Regulations & Solutions  
Development of ATS standards and procedures  
Guidance and Support for Units  
Large RPAS (SFOC) Airspace Impact Analysis  
Managing sRPAS in controlled airspace  
Coordination with Transport Canada  
Solution Guidance (Roadmap Development)

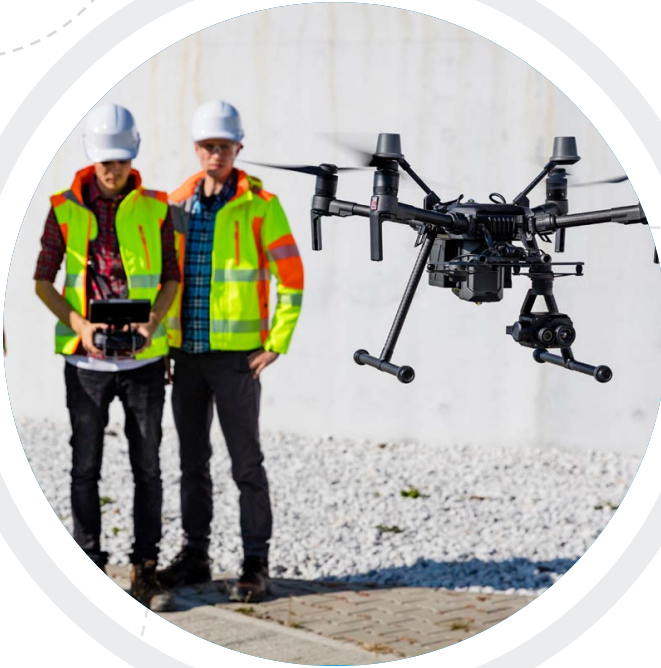


# RTM Strategic Pillars



## Stakeholder Engagement

Engagement with Government and Industry  
RTM Advisory Committee (RTMAC) and Sub-Groups  
Traditional Aviation Stakeholders; Associations, etc.  
Governing Bodies (Including ICAO)  
Standards Bodies



# Future Initiatives

## Next Steps for RPAS

Drone Incursion – Airport Alignment

NAV Drone Roadmap with New Features

## New Regulations

- Amendments to VLOS

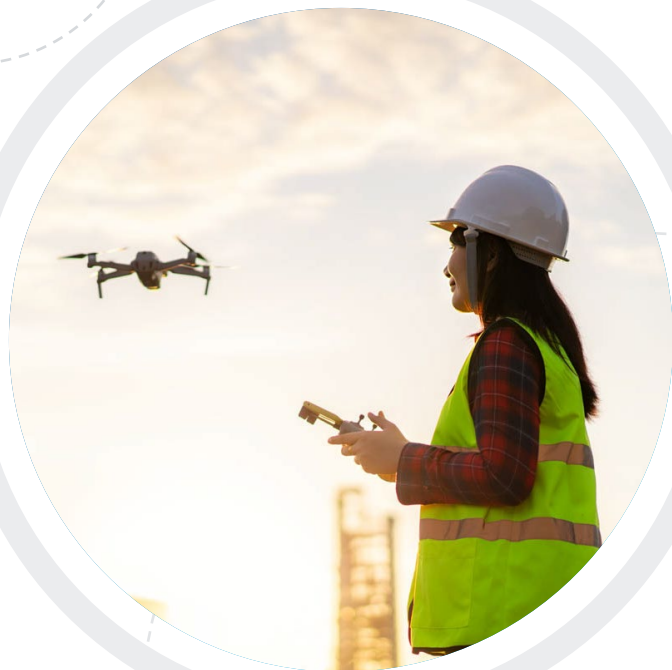
- Low Risk “Beyond Visual Line of Sight” (BVLOS)

## Medium and High Risk BVLOS

- RPAS Traffic Management Advisory Committee

- Trials Program

- New Solutions / Architecture



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Questions?