

ENABLING BVLOS 2025



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INTRODUCTION

**BVLOS operations are being normalized in the
latest Transport Canada regulations**

but...

We are up against the next wall

DETECT AND AVOID



DAA gives sufficient warning to drone pilots of an approaching aircraft to take action to avoid a conflict.



It can be accomplished with human resources (Visual Observers), but ties up resources and is limited in **range to 2nm from the observer.**



Radar and Optical scanning DAA systems are emerging technologies that have several limitations including a cost of **\$500K to \$1M** for permanent installations.



IMPACTED MARKETS



Critical Infrastructure

- Pipelines
- Powerlines
- Power Generation
- Military Installations



Public Safety

- Police Operations
- Paramedics
- Medical transports
- Search and Rescue
- Forest Fires
- Disasters



Security, Surveillance and Mapping

- Mining
- Forestry
- Prisons
- Industrial complexes
- Environmental scans
- Surveying



Agriculture

- Crop Health Monitoring
- Spraying
- Seeding
- Biocontrols

ELECTRONIC CONSPICUITY



Technology

The technology exists for Electronic conspicuity of all crewed aircraft in all airspace. This would provide a DAA system to drone pilots. Most aircraft are already equipped.

Cost

The cost to update a crewed aircraft that wants to cooperate with drone traffic below 500' is less than \$4000 CDN one time cost including installation.

Safety

Not only would electronic conspicuity enable BVLOS at an effective cost, it would enhance the safety of VLOS flights, and reduce conflicts between crewed aircraft.

How Can You Help?

Let the government know that unlocking BVLOS is an essential driver for the economy and aviation safety. Let them know how your operations are impacted by going to the [resource page](#) and making your voice heard.

BENEFITS AND IMPACT



- **Economic Drivers**

RPAS hardware and services will expand rapidly to meet the market needs. Resources will be freed up and allow business expansion.



- **Increased Safety**

Safer skies for crewed aviation in Canada



- **Modernisation**

Canada can retain its reputation as a world leader in enabling safe RPAS operations. Europe and the US have already started implementing their solutions to the BVLOS DAA problem.

The Path Forward



The Problem

Drones proliferate the skies below 400 ft AGL. True DAA requires electronic conspicuity of the few crewed aircraft wanting share the airspace below 500' AGL.



The Solution

There are cost effective solutions available for crewed aircraft electronic conspicuity in uncontrolled airspace, but there is no mandate from Transport Canada to require it.



Call to Action

It is imperative that we call upon all stakeholders to let the Government know how the economic and safety benefits of BVLOS are not possible without electronic conspicuity.



Need More Info?

Resources



<https://indrorobotics.ca/enable-bvlos>

Contact



EnableBVL0S@indrorobotics.com

