

# Ian Glenn

## Presentation to WiSEE 2019

### 2019 PWST Workshop

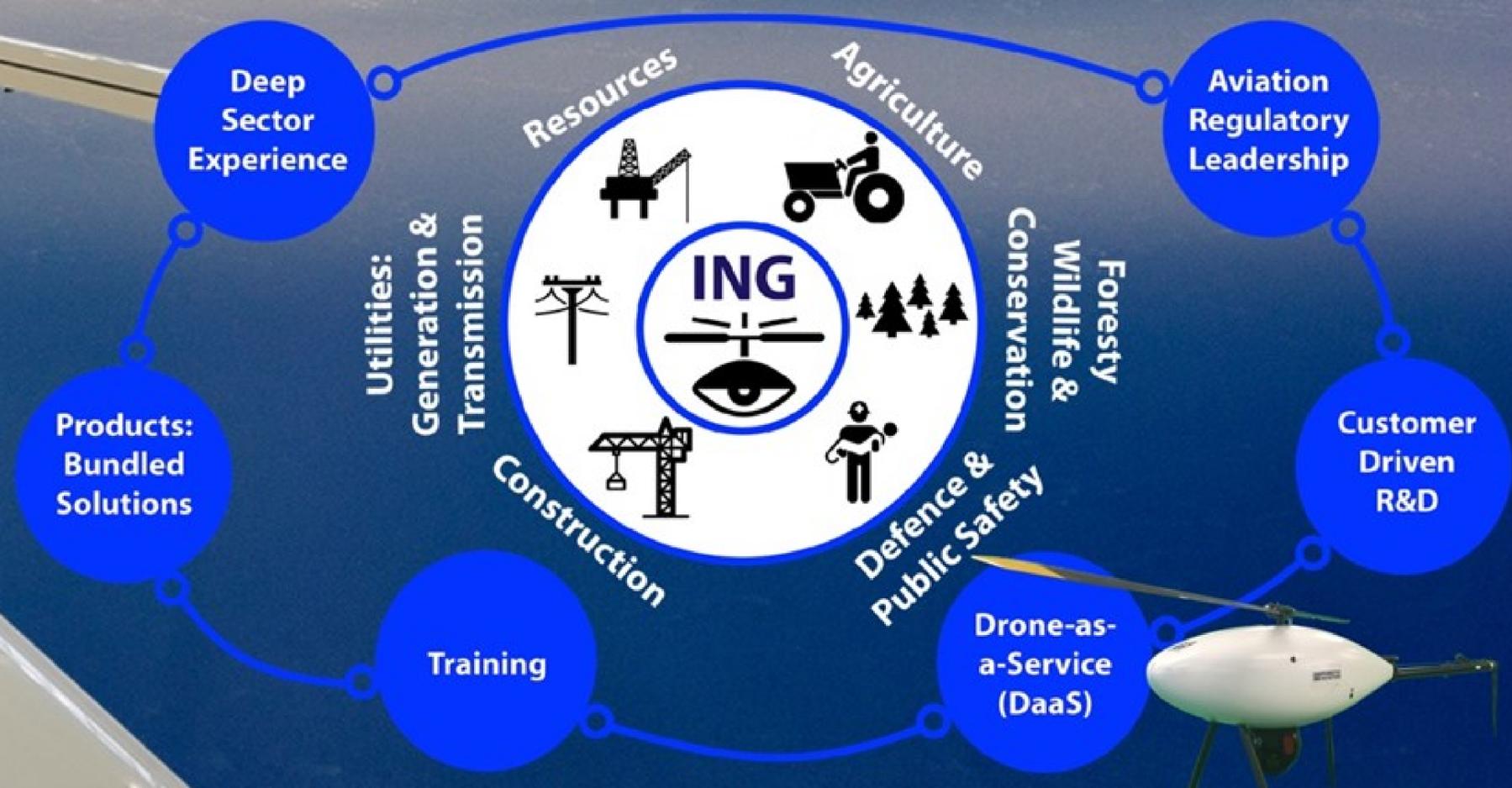
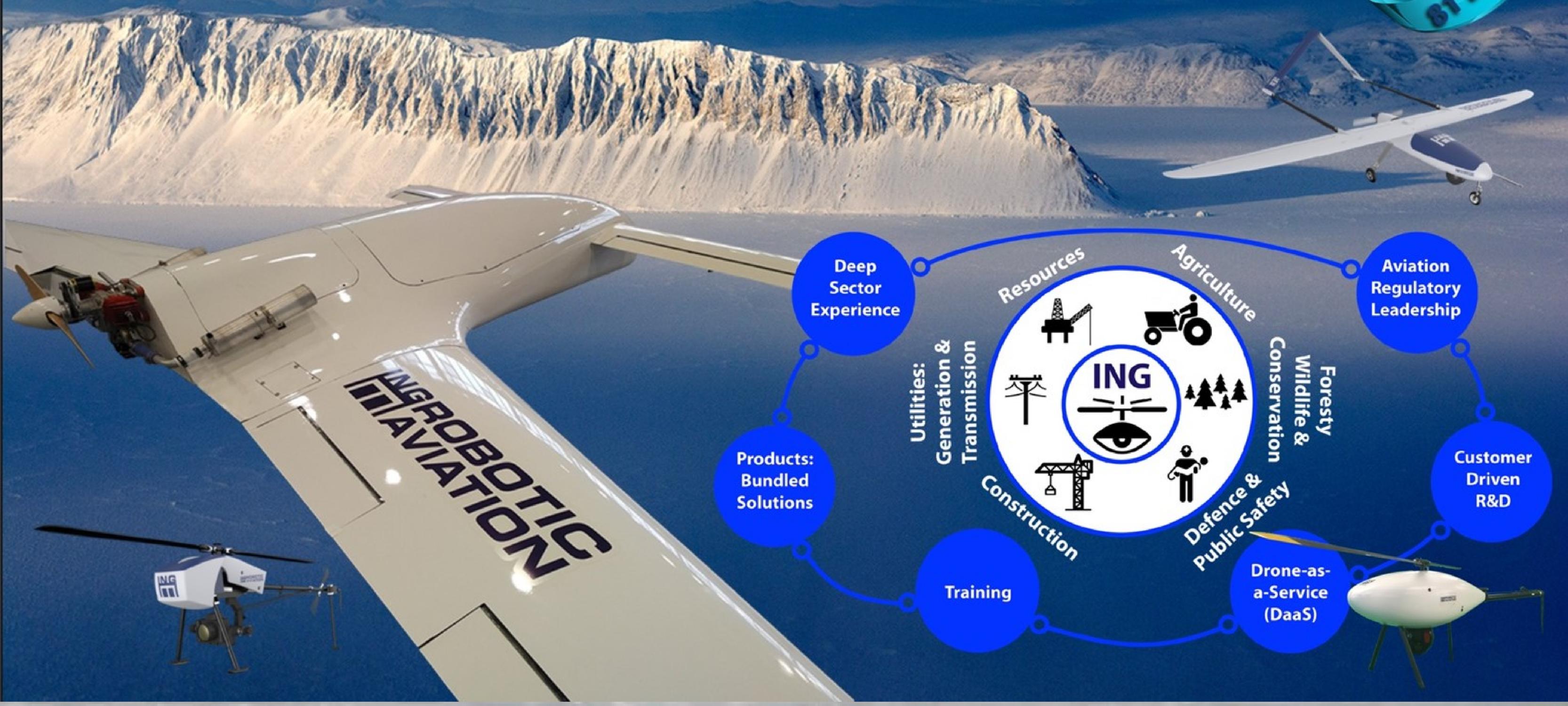
Contact:  
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REAL WORLD. REAL WORK.  
REAL DRONES



Canadian Owned  
Canadian Run



# Ian Glenn, COO/CTO

- **Founded and ran as a volunteer Unmanned Systems Canada, the leading national non-profit sector association**
- **Shaped Canadian Civil UAV regulations over the past 20 years - now and future.**
- **Recognized as a Pioneer in Canadian Aviation by the Canadian Aeronautical and Space Institute (CASI) with the prestigious Roméo Vachon award.**
- **Recipient of multiple national and international awards for his contribution to Unmanned Aviation over 20 years.**



stay for a lifetime of learning and fe

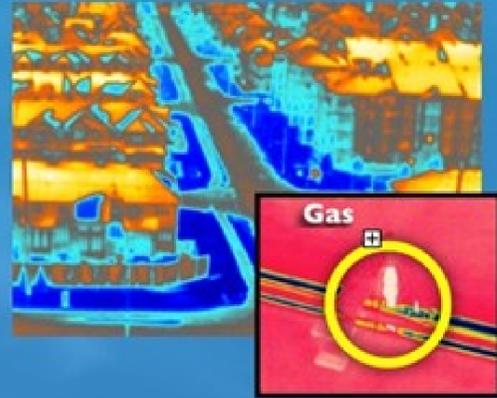
# Multiple Advanced Mission Payloads



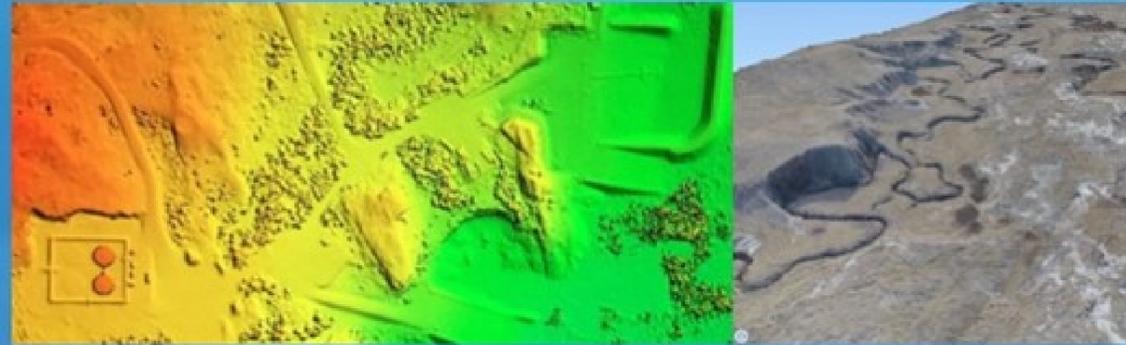
**Realtime EO/  
IR**



**Thermographic  
IR**



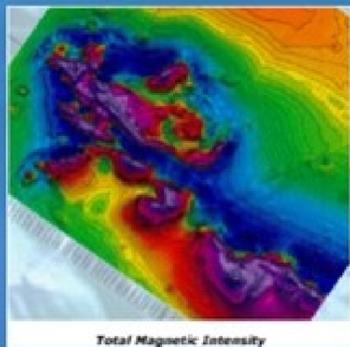
**Ultra-High Resolution Sensors for  
Mapping, Inspecting & Monitoring**



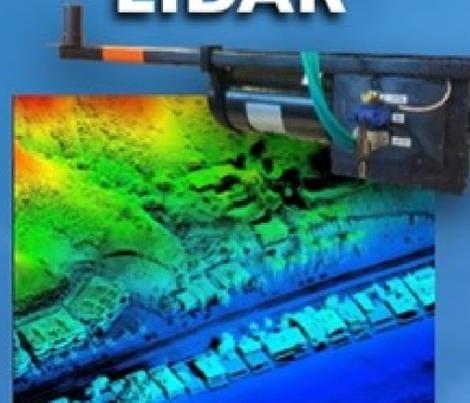
**Multi/HyperSpectral**



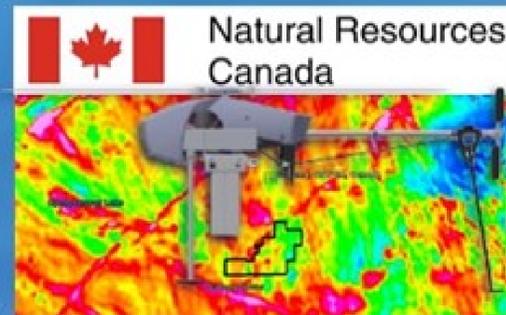
**Magnetometer**



**LIDAR**



**Radiation Detector**



**Gamma Radiation  
Detector**

**Oil Spill Response**



**Slung Loads**

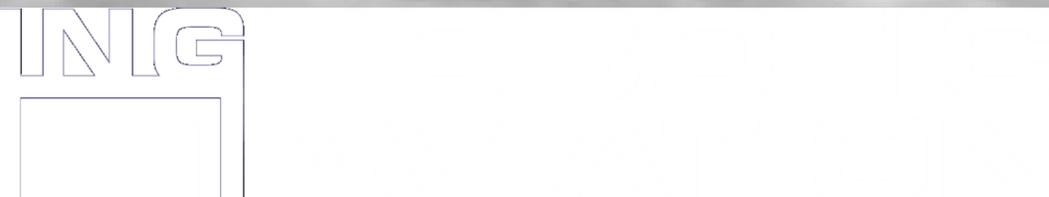


**& More...**

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# ING Responder Flying for UN MONUSCO in CONGO since August 2016



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# Innovation Ecosystem



Academia

Industry

Government

Comms  
Systems

Artificial Intelligence

Deep Learning

Advanced Aircraft Design

Sensors  
Advanced



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# Innovation Ecosystem

# INGROBOTIC AVIATION



## Academia

COLLÈGE MILITAIRE ROYAL DU CANADA  
ROYAL MILITARY COLLEGE OF CANADA

uOttawa

Carleton UNIVERSITY

UBC THE UNIVERSITY OF BRITISH COLUMBIA

UNIVERSITÉ DE SHERBROOKE

ÉTS

ALGONQUIN COLLEGE

LA CITÉ LE COLLÈGE D'ARTS APPLIQUÉS ET DE TECHNOLOGIE

UNIVERSITY OF WATERLOO

UNIVERSITY OF CALGARY

UNIVERSITY OF ALBERTA

UNB

UNIVERSITY OF TORONTO

FANSHAWE

Queen's UNIVERSITY

## Industry

RADIATION SOLUTIONS

EION WIRELESS

Tallysman Wireless

Lumenera Corporation

TELEDYNE DALSA  
A Teledyne Technologies Company

GEM SYSTEMS

itres

COGNITIVE

PEGASUS

SUNCOR

Canadian Natural

TransCanada

Honeywell

## Government

Canada NRC-CMRC

LOOKNorth

NSERC CRSNG

Alberta Energy Regulator

Natural Resources Canada

Fisheries and Oceans Canada

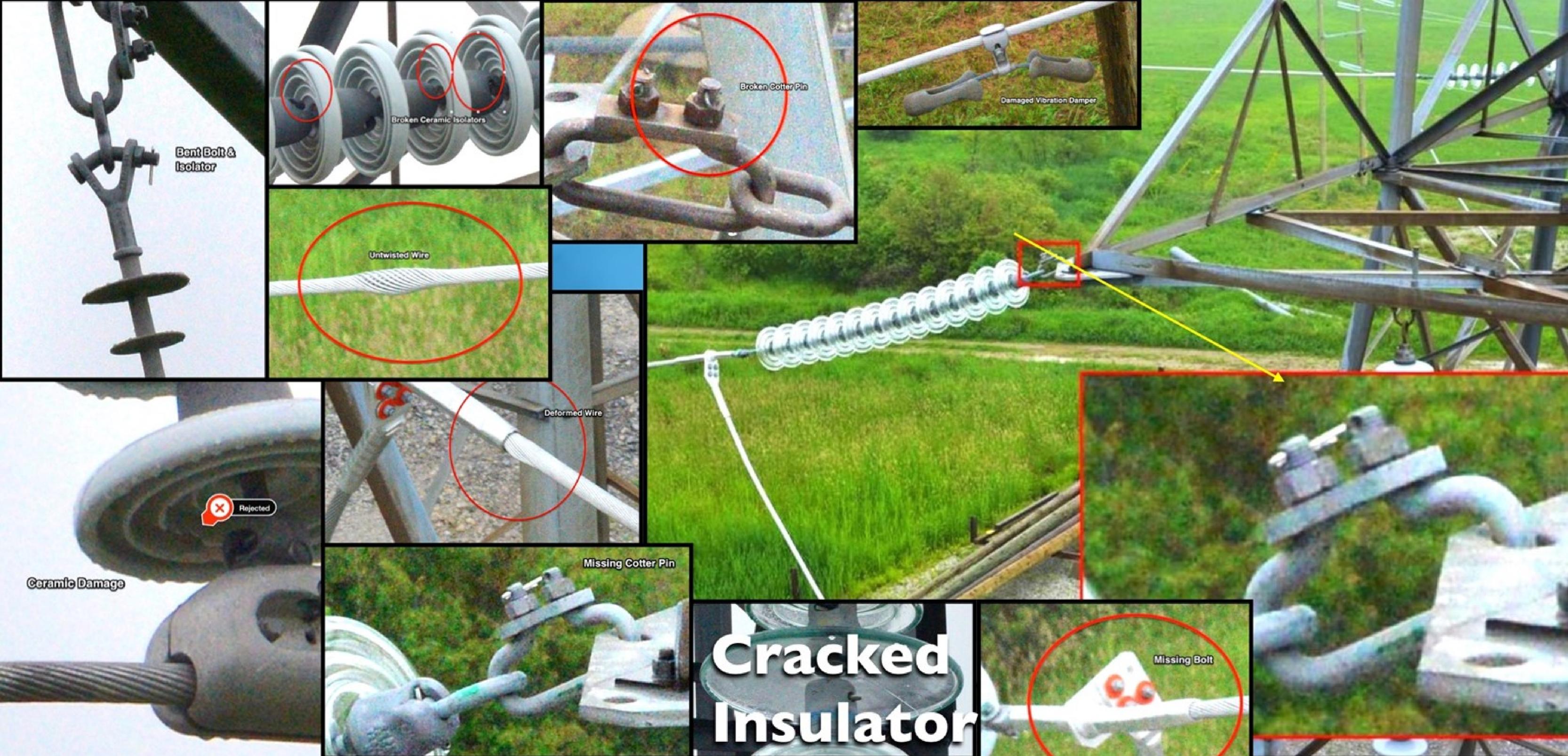
Transport Canada

Ontario  
Ministry of Natural Resources and Forestry

# INGROBOTIC AVIATION

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# Leading Unmanned Aviation Since 2001

Thank you!



**INGROBOTIC  
AVIATION**