



High-Level Conference on Drones: Drones as a leverage for jobs and new business opportunities

23-24 November 2016, Warsaw, POLAND



Panel 3

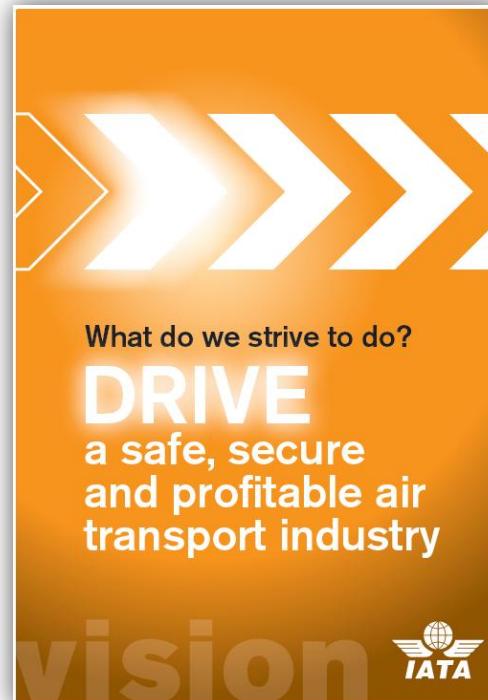
International Outlook: How can the global drone technology provide solution for all?

Rafael Schwartzman – IATA's Regional Vice President, Europe.



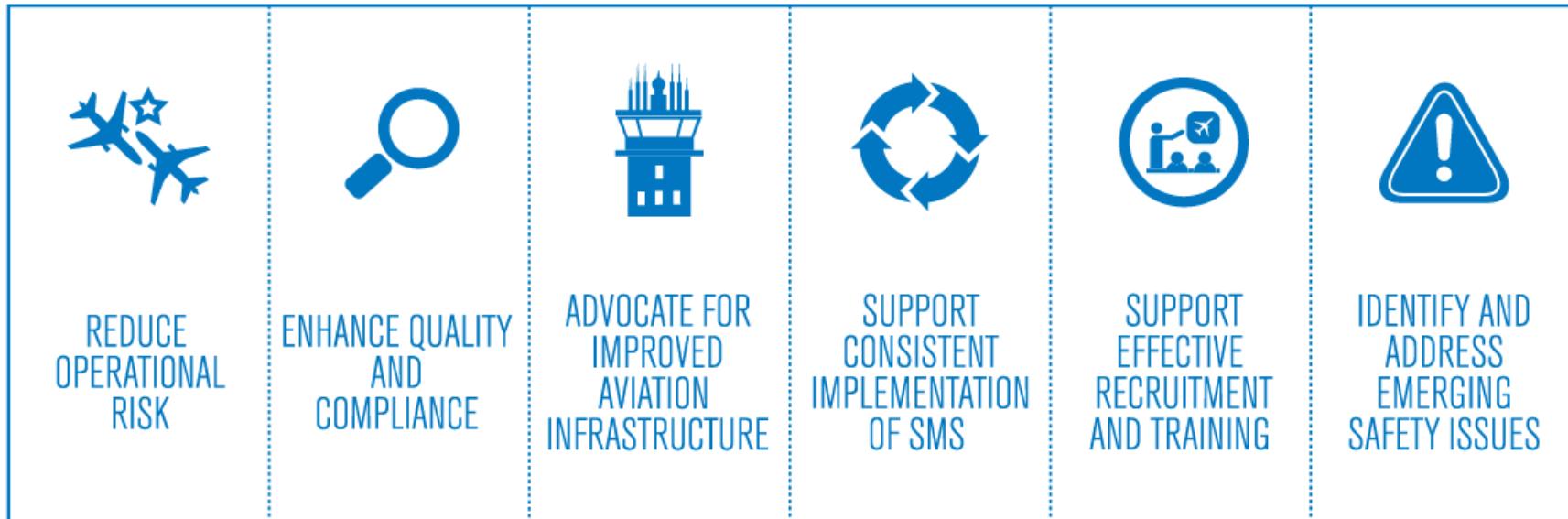
IATA's Mission and Vision

Our mission is to represent, lead and serve the airline industry



Continuously Improve Aviation Safety

IATA's Six-Point Safety Strategy covers the key safety areas



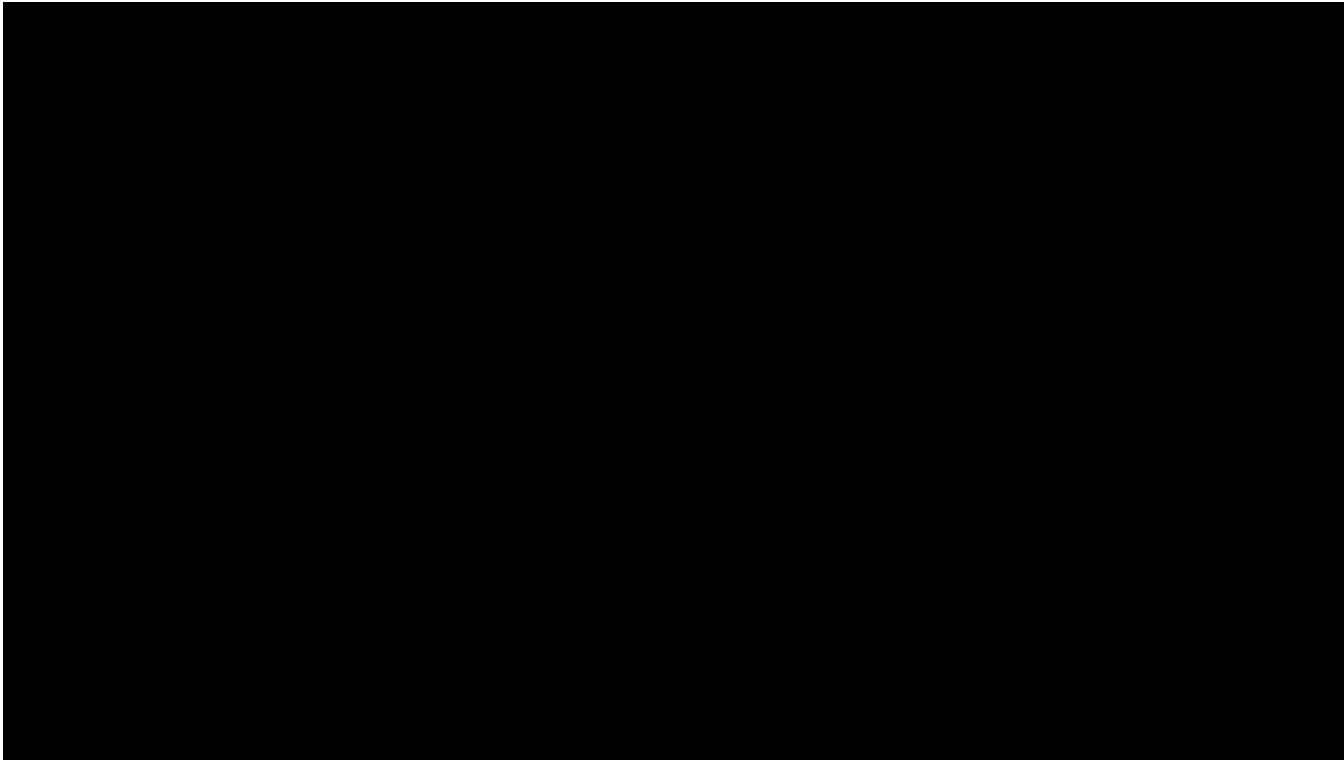
Risks Associated with RPAS

Key areas that pose a concern

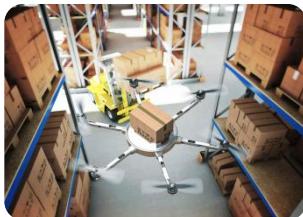


- ↗ Safety risks
- ↗ Security risks
- ↗ Efficiency risks
- ↗ Impact on aviation spectrum
- ↗ Lack of effective and harmonized regulations

How to Fly Your Drones Safely



But there are also business opportunities.....



Logistics solutions & Enhanced Cargo Operations

- ↗ Small parcel delivery (last mile delivery)
- ↗ Warehouse sorting
- ↗ Futuristic look to commercial air transport of cargo

Enhanced airport Operations

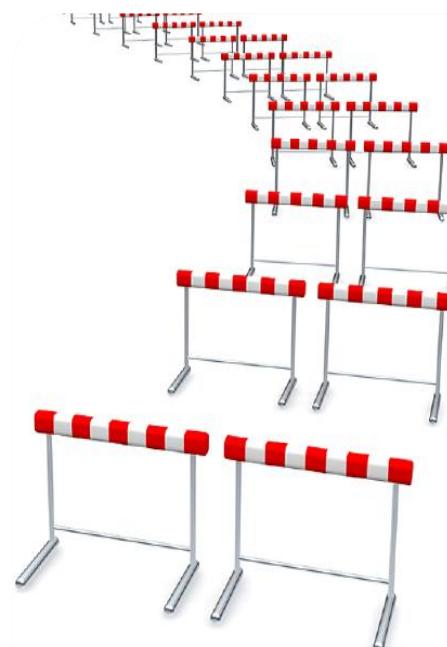
- ↗ Ramp inspection
- ↗ Infrastructure surveillance

Humanitarian Aid

- ↗ Delivery of medical supplies to remote areas

Our approach to ensure the safe and efficient integration of RPAS

To enable manned and unmanned vehicles to safely and efficiently co-exist, IATA has been working on a number of activities and initiatives, globally and specifically within Europe.



Awareness & Education



Safety Awareness for Users of Remotely Piloted Aircraft (RPA) in Close Vicinity of Airports
IATA, ACI, IFALPA
February 2016

I. Background:

- 1.1 Remotely Piloted Aircraft (RPA), commonly known as drones, are increasingly being used, for commercial and recreational purposes.
- 1.2 There has been a very large increase in reports from all regions of the world of instances in which drones have been observed being flown dangerously close to aircraft and airports.
- 1.3 A review of 856 safety reports was carried out, to analyze the safety risks associated with drones.¹
 - The analysis showed a significant increase in the monthly number of reported drone encounters.
 - There was no correlation between the distance from the airport or the altitude of the drone and the likelihood of a near collision. Therefore, risk of collision with aircraft is at all altitudes and locations.
 - The drones encountered were primarily small in size (less than 6 feet in length/diameter).
 - Reports were not limited to recreational drones.

II. Safety Risks:

Flying a drone in the close vicinity of an airport or an aircraft can pose a serious risk to the safety of those on board the aircraft. In the event of a collision or near-collision between the drone and the aircraft, the resulting accident could cause loss of life.

- ↗ Educational videos
- ↗ Joint Statement with IFALPA & ACI
- ↗ Promotion & advocacy
- ↗ Partnerships with other awareness campaigns



**KNOW
BEFORE YOU FLY**



Engagement with ICAO, regulators, and key stakeholders



Federal Aviation Administration



ASSOCIATION FOR UNMANNED
VEHICLE SYSTEMS INTERNATIONAL

Joint call to safely integrate Drones / UAS into Europe's Airspace (5th of Sep)



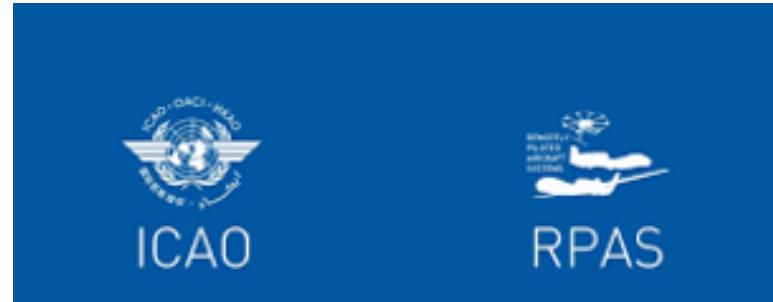
September 2016

Joint call to safely integrate Drones / UAS into Europe's Airspace

The Signatories of the Statement want to support the effort of the European regulator to produce a robust harmonized EU-wide regulatory safety framework for drones. At the same time, in this Joint Statement, the sector parties A4E, ACI EUROPE, ATCEUC, CANSO, EBAA, ECA, EHA, EHAC, ERAA, ETF, IACA, IAOPA, IATA, IFALPA, IFATCA, and IFATSEA express their serious concern about the safety of manned aircraft in controlled and uncontrolled airspace.

Working with ICAO

- ↗ A Working Paper was submitted to the ICAO 39th General Assembly
- ↗ On-going work to finalize ICAO's ConOps on RPAS IFR Operations
- ↗ Support the work of ICAO's Small UAS Advisory Group (UAS)



Future Air Traffic Management Architecture and Technology



- ↗ Support the development of a UAS Traffic Management Concept.
- ↗ Involvement in concepts of operations for the introduction of new technologies, for example sense and avoid.
- ↗ Develop a position on user charges for RPAS (including small UAS).
- ↗ Develop a common position for aviation spectrum use by RPAS (including small UAS).

Specific Activities in Europe

- ↗ EASA Rule Making
 - Notice of Proposed Amendment (NPA)
- ↗ JARUS
- ↗ Eurocae
- ↗ SESAR / SJU
- ↗ Eurocontrol

Seamless Operations

- ↗ Develop a strategy & working guidelines for;
- ↗ Enhanced cargo operations using drones, including warehouse sorting and last mile delivery
- ↗ Enhanced airport operations using drones, including ramp inspection and infrastructure surveillance



Key Considerations:

- ↗ Support of Airline and Associations Position!
- ↗ Coordination with all Stakeholders in Europe.
- ↗ Advocate at all levels and opportunities for safe integration and realizing proper rules!

- ❑ Integration of RPAS into SESAR Master Plan
- ❑ EASA (EC) and FAA regulations
- ↗ Coordination with all Stakeholder to ensure standardization with FAA and worldwide requirements!

Thank you

