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

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# **Integration of emerging technologies in civil aviation** - *Challenges and opportunities*

# UAS Delivery Services Drive ATM Rethink

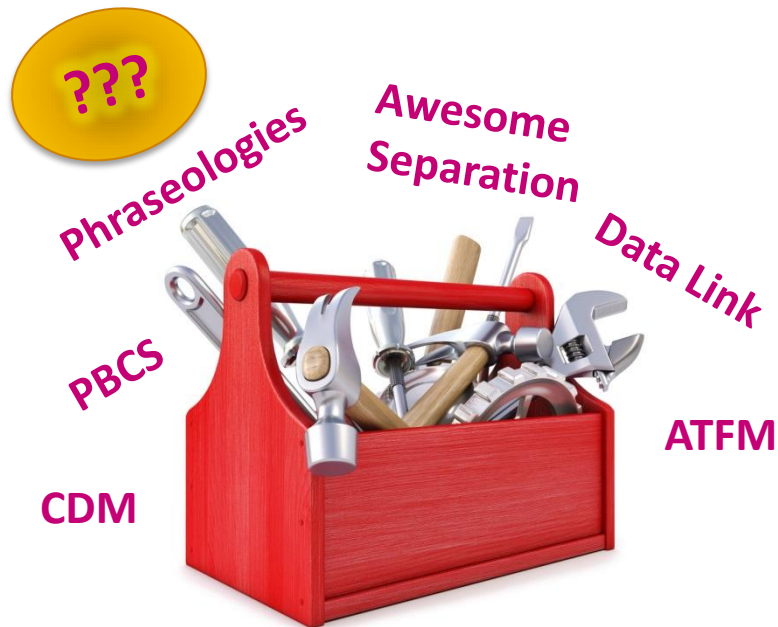
*Could UAS  
spark ATM  
revolution?*



Delivery drone “controllers” will primarily use automation to manage numerous vehicles flying to and from distribution centers and customers at 200-400 ft. above the ground, depicted here in a concept for the Amazon Prime Air service. Credit: Amazon Prime Air

# How can we allow the predicted growth?

- *Innovation* starts on the flight deck, at the control position and on the tarmac
  - People using the tools are the first to know how they can be improved





We need to balance  
**economic potential**  
and **safety**



# EMPOWER *Stakeholders*

# DELIVER *Measurable Results*



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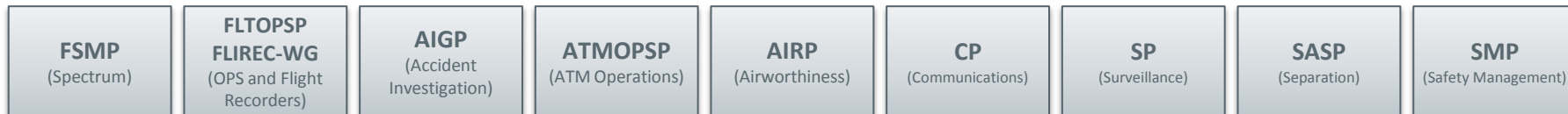


# RPAS: Safety and Efficiency

- **RPAS Panel**

- Developing the regulatory framework for RPAS to conduct IFR operations in controlled non-segregated airspace/aerodromes
- Alongside manned aircraft, as a predictable, cooperative airspace user:
  - With fundamentals of airworthiness, operations and licensing as pre-requisites to airspace integration
  - Meets all the standard equipment and capability requirements for the airspace/procedures
  - Must 'fit in' without requiring other airspace users or providers to equip

- **Other ICAO Panels supporting on technical matters**



# Education is Essential

- **Information on RPAS and other UAS**
  - Regulators - what and how to regulate
  - Industry, including manufacturers
  - Service providers
  - Operators and other airspace users
  - General public
- **General information is needed for each group**
  - Targeted information on how to operate safely
  - Where/why other areas are dangerous





# How can we allow the predicted growth?

- UAS stakeholders as *catalysts of innovation and agents of change*
  - Lead the change for creating innovative solutions
  - Every aviation professional as a ‘*safety authority*’



# Some thoughts about the Future

- **SARPs-ready proposals from Standards-making organizations and other aviation stakeholders**
- **Continued evolution of our standardization methodology**
- **Benefits for unmanned and manned aviation**





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