ICAO UPDATE

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Agenda Item 5.1 : Operations above Flight Level 600
Recommendation 5.1/1 — Operations above flight level 600

That States:

a) with relevant experience in higher airspace operations, share their experience and expertise with other States and provide assistance to other States on the regulatory aspects of these operations;

b) expected to benefit from higher airspace operations, agree to consider risk-based operational trials in their airspace;
Recommendation 5.1/1 — Operations above flight level 600

That ICAO:

e) consider establishing a multidisciplinary group of ...;

f) develop a performance-based global framework for higher airspace operations considering current and future work in emerging technologies...; and

g) ensure that the framework includes flights transitioning through controlled airspace and to and through airspace above FL600, as necessary.
Sub Orbital – Launch - Re-Entry

Low Earth Orbit
150 km

>FL600

Conventional
60 000 ft

UTM
1000 ft
Challenges

• Technical challenges:
  • How to regulate new technologies
  • Meet legacy requirements but collect data - massive amounts - to help forge new techniques for approvals and control for further generations of new entrants
  • Safety approvals and the accommodation of social economic priorities
  • Airspace Fragmentation

• Non Technical challenges
  • Sovereignty
  • Other applicable laws (particularly space laws)
Opportunities

• Technical challenges:
  • No legacy aircraft (so no need to slow down or become heavy to accommodate least common performer)
  • Similarity with UTM
  • First adopters for new (not so new) ideas:
    • Trajectory Based Operations
    • FF-ICE
    • SWIM
Opportunities

• Launch sequence for ICAO work
  • States of design, manufacture, operations, and approvals will continue to collect experience
  • States will brief ICAO (probably the Air Navigation Commission) on their experience – specifically on how it can be used as a draft for a framework
  • ANC will task the work on the framework to a group (either new or existing)
NO COUNTRY LEFT BEHIND

THANK YOU