



How should CAAs respond to rapidly escalating technology innovations in the aviation sector?

A practitioner's viewpoint

Graeme Harris
Chief Executive, Director of Civil Aviation



- Why ask the question?
- What is special about rapidly escalating technology innovations?

- Civil Aviation is largely regulated through prescriptive standards & technology change is currently leading standard development





So how should CAAs respond to rapidly escalating technology innovations in the aviation sector?

Carefully
&
Systematically

But also with an open mind and acting in the public interest.





Lessons from the NZ experience

- Interim Rule Structure
 - Part 101: prescriptive operating limitations
 - Part 102: performance-based approach if wishing to Operate outside Part 101 limits
- Use of JARUS SORA
- Establish the objectives early
 - Type of intended operation
 - Acceptable level of safety
 - Vehicle and software certification standards
- Focus on the outcome rather than the means



The innovator's perspective

- While aviation authorities can have a good framework in place - the unique and innovative aspects of new designs have little certification precedent and therefore require a different level of adaptability.
- There is a place for being part of acknowledging the inevitability of the environment we are now entering, setting the pace for its introduction and bringing stakeholders along.
- The challenge is to be part of the conversation in shaping the way new and cutting-edge technologies are certified and integrated.





End