



# **FIT-FOR PURPOSE AIRWORTHINESS CERTIFICATION FOR (SMALLER) NON-IFR RPAS**

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# OUTLINE

- 1. Overview**
- 2. Importance of Airworthiness Certification for small UAS**
- 3. Need for cross-border UA operations**
- 4. Harmonization of AW certification for small UAS (role of ICAO)**
- 5. Recommendations**



# OVERVIEW

- **Unmanned Aircraft systems technology is rapidly evolving with many use cases being identified across the globe**
- **No globally agreed standards for design, manufacturing and certification**
- **Innovators need to meet certain harmonized requirements to be able to provide solutions to common problems facing communities in a country or countries in the same region.**



## Why Should we Certify Unmanned Aircraft?

- **UA is defined as Aircraft and should meet certain Airworthiness requirements that are harmonized**
- **Small UA are already being used for important use cases with significant impact on communities**
- **Cross-border operations will require harmonization of Airworthiness requirements to enable mutual acceptance of UAS operations between adjacent States to ensure safety**



## Need for cross-border UA operations

- Neighboring countries may identify drone use cases that can significantly impact communities across borders where one drone operator may serve those communities from a base in one of the neighboring countries**
- Sharing of drone operation infrastructure between two neighboring countries can make it easy for the communities to benefit from the drone Technology**
- Communities near borders can equally benefit from drone operations**



## Importance of Airworthiness Certification for small UAS

- Small UA can still pose a risk to other Aircraft in the Air or people and property on ground if not Airworthy**
- Small UA can be used for important use cases that communities within neighboring countries may find impactful to them thus requiring cross-border operations**
- Harmonization can enable easy approvals of UA operations originating from one State to another**



## Recommendations

- ICAO Should support use of small UA operations for use cases that may involve cross-border operations**
- ICAO through coordination with other stakeholders should establish Airworthiness certification requirements for small UA to enable cross-border operations**
- ICAO support States in their endeavors to develop oversight capacity for small and Large UAS**