ICAO SAFETY

RPAS2017

2nd RPAS Symposium

Summary and Next Steps

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RPAS/2 outcomes

1. Recognition of the need for an international regulatory framework;
2. ICAO needs to be the focal point, ensure global harmonization, standardization;
3. Unregulated operations in complex environments are resulting in aviation safety risks;
4. Harmonized categorization can assist in addressing regulatory challenges;
5. Collaboration by all is crucial.

RPAS/2 outcomes

1. Understanding competency-based training;
2. CBT is being used in different fields and is adapted to remote pilots;
3. ICAO is promoting CBT in PANS-Training and Annex 1;
4. Licensing authorities and RPAS operators must learn to apply and assess CBT programmes.

RPAS/2 outcomes

1. Changes required on ATCOs' perspective of RPAS and ATM in different fields
2. Not acceptable to change regulations for manned aviation to accommodate UAS
3. Automation will be a key driver in the evolution of unmanned aviation
4. Consensus for incremental evolution of pragmatic and performance-based regulations as operations and technologies develop
5. Security and data management are important emerging issues to be managed
6. Interaction between UTM and ATM

Mark your calendars

UPCOMING EVENTS RELATED TO RPAS AND DRONES

UTM, Outcomes of DRONE ENABLE, Operations above FL650 Commercial space

https://www.icao.int/Meetings/GANIS-SANIS

Third Global Remotely Piloted Aircraft Systems Symposium (RPAS2018)

Chengdu, China

10 to 12 September 2018


ICAO

International Civil Aviation Organization
Unmanned Aircraft System
Traffic Management (UTM)

Request for Information

Introduction:

ICAO recognizes that the challenge in integrating unmanned aircraft (UA) into national airspace will be facilitated by agreeing upon a globally harmonized, common framework. To ensure sound technical approaches are used for constructing such a framework, the broader industry, academic and science community research and development initiatives are being solicited as well as any national implementations from which lessons can be learned. The global aviation community will benefit from these contributions of potential solutions. ICAO will serve as the global facilitator as States, industry, academia and other interested stakeholders collaborate on conceptualizing a common regulatory framework to support integration of unmanned aircraft into national airspace. This activity is separate from ICAO's on-going work to build a full regulatory framework for the integration of remotely piloted aircraft systems (RPAS) in accordance with instrument flight rules. Although no traditional work for ICAO, Member States have requested that ICAO serve as the global civil aviation facilitator to assist with the challenge of unmanned aircraft systems (UAS).

Problem statement:

Multiple States and regions have expressed interest in developing UTM to provide services for UAS operations, particularly in urban environments. A common agreement on the framework and core boundaries of UTM will facilitate harmonization between UTM systems globally and enable industry, including manufacturers, service providers and end users to grow safely and efficiently without disrupting the existing manned aviation system.

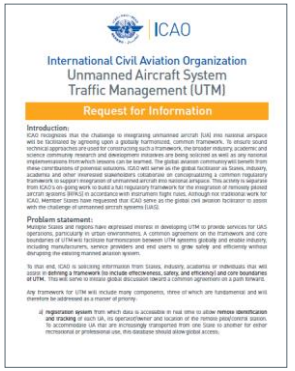
To that end, ICAO is soliciting information from States, industry, academia or individuals that will assist in **defining a framework to include effectiveness, safety, and efficiency) and core boundaries of UTM.** This will serve to initiate global discussion towards a common agreement on a path forward.

Any framework for UTM will include many components, three of which are fundamental and will therefore be addressed as a matter of priority:

a) **registration system** from which data is accessible in real time to allow **remote identification and tracking** of each UA, its operator/owner and location of the remote pilot/control station. To accommodate UA that are increasingly transported from one State to another for either recreational or professional use, this database should allow global access.

Request for Information Announcement

31 January 2018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THANK YOU!