

## CIAM BUREAU MEETING

Dubaï - 3 & 4 December 2015



## **CIAM & DRONES ITEM**



## Impact of the CASI decision relative to UAV

- Decision: UAV activities moved to CIAM
- Argumentation
  - Drone is a 'hot' worldwide subject at the moment and has to be handled globally by FAI regarding impact on sport CIAM activities
  - The same product can be used both both for commercial and recreational / sportive purposes
  - CIAM has the focus on the subject and the expertise to handle all types of drones records and CASI is not the best place to develop record activities
  - Allows reduction of the number of sub-classes for records
- → As approved by CASI Meeting in Rotterdam, CIAM will now cover all drones activities including class U (UAV)

### **CIAM** classes

- 2 classes relative to models:
  - Class F- Model Aircraft
  - Class S Space Models
- 2 classes relative to aircraft which does not carry a human being:
  - Class F- Model Aircraft
  - Class U Unmanned Aerial Vehicle (UAV)
    - → Sporting Code Section 12 (Class U records activities) to be included in Section 4 (Records Volume)



### **Definitions**

- Model Aircraft (Class F)
  - a) A model aircraft is an aircraft of limited dimensions, with or without a propulsion device, not able to carry a human being and to be used for competition, sport or recreational purposes
  - b) For the whole flight, a radio-controlled model aircraft must be within visual line of sight (VLOS) of the person who assumes directly its control or who is in a situation to take the direct control at any moment, including if the model is being flown automatically to a selected location
- UAV (Class U): An aerodyne with means of propulsion that does not carry a human, and which is designed for scientific research, commercial, governmental or military purpose
- Visual line of sight (VLOS): The flight operator who assumes directly the control of the model aircraft must maintain direct unaided visual contact with the model aircraft

## 'Drones' regulatory context is moving

- International Civil Aviation Organization (ICAO)
  - Circular 328 AN/190 relative to Unmanned Aircraft Systems (UAS) published in 2011
  - Remotely Piloted Aircraft Systems Panel (RPASP) created to produce for 2018 a draft Standards and Recommended Practices (SARPs) focused on international operations
- European Aviation Safety Agency (EASA)
  - Advance Notice of Proposed Amendment 2015-10 (31 July 2015)
    'Introduction of a regulatory framework for the operation of drones'
  - EASA finally followed the general usage of the term 'drone' with the following definition: 'aircraft without a human pilot on board, whose flight is controlled either autonomously or under the remote control of a pilot on the ground or in another vehicle'
  - Federal Aviation Administration (FAA): Small UAS Notice of Proposed Rulemaking (NPRM) proposed in March 2015

CIAM must take attention to this moving context



## **CIAM** general considerations

- Impact of technology on the actual FAI model aircraft classes (competition and records)
  - Actual FAI model aircraft classes are defined for competition purposes only
  - Use of electronic devices offers possibility of increased performances
  - ⇒ Each CIAM Sub-Committee defines how such devices can (or cannot) be used and the appropriate requirements and limitations
- New types of aircraft with possibility of different events (recreational, competition and records)
  - CIAM must take attention on new activities possible with current available technology especially FPV Racing
  - CIAM must show its interest for new types of model aircraft such as multi-rotor (multi-copter)

## **CIAM UAV Working Group**

• Terms of Reference: Version 1.0 - June 2014

#### Mission

- Evaluation of the impact for CIAM activities of the current available technology especially regarding the sporting activity and events
- Preparation of a draft rule to be considered as a base for future sporting events and consider whether a test event can be organized

#### Produced documents

- UAV WG Report Edition 2 20 January 2015 (final report as evaluated by the CIAM Bureau and presented at the CIAM Plenary Meeting)
- Draft Rule for Drone Model Aircraft Events Edition 1 1st May 2015 covering two types of events:
  - Contest event for multi-rotors (FPV Racing and Freestyle Aerobatics)
  - Recreational event for based on a list of flight tasks to be done (for multi-rotors and/or fixed wing drones)
- Term: appointed from June 2014 to April 2015



# CIAM Organising Committee for FAI International Events for Drones

- Terms of Reference: published ined in July 2015
- Mission
  - Identify contact persons in FAI members countries interested in sporting events for drones
  - Define the best format for FAI International Sporting Events to be organised from 2016 and common rules for these events
  - Encourage organisation of FAI International Sporting Events for Drones in as many countries as possible
  - Find partners and sponsors for the FAI International Sporting Events for Drones
  - Work closely with the FAI Media and Communication office to make all this activity public
- Term: appointed from 1st July 2015 to 2017 CIAM Plenary Meeting

# Composition of the CIAM Organising Committee for FAI IED

Chairman: Bruno DELOR - France (CIAM 1<sup>st</sup> VP and CIAM delegate)

#### Members:

- Bob BROWN USA (CIAM Delegate)
- Robert HERZOG Belgium (CIAM Delegate)
- John LANGFORD USA (CIAM Space Models Delegate)
- Bengt LINDGREN Sweden (CIAM Delegate and CASI member)
- ⇒ In complement, contact persons (PoC) in about 20 FAI members countries interested in sporting events for drones.



## **Context analysis**

 CIAM must be proactive and flexible regarding drones sport activities if we want to be an effective and recognized actor in that field.

We have to consider that drone sport concerns a new breed of participants (pilots and investors) who **never** heard about FAI and CIAM, or national established bodies, or even regulations authorities

- FPV Racing has a high potential of development:
  - Rapid worldwide development
  - Exciting for competitors
  - Well adapted for spectators (possibility to report pilot video camera view on large screens), for medias (possibility of a large audience by use of Watch HD Live Streaming video possibilities) and for sponsors

Priority for 2016 on FPV Racing activities

## **Proposals for FPV Racing development**

- F3U provisional class (Multi-rotor FPV Racing)
  - Rules based on the experience of the 2015 international events (FPV Race 28 in June in Chartres and US National Drone Racing Championships in September in Sacramento)
  - Effective 1<sup>st</sup> January 2016 as provisional rules with possibilities of amendments on behalf the CIAM Organising committee for FALIED
- FPV Racing World Cup to encourage organisation of FAI International competitions: to be effective in 2016 in case of a minimum of 5 FAI competitions
- CIAM Bureau proposals



## Other Drone Racing initiatives

- 2016 World Drone Racing Championships (20 to 22 October at Kualoa Ranch in Hawaï)
  - Four world-class courses (250 Class, 1000 Class, Wing Class, EMS Class) and six separate racing events
  - Announced with \$ 200.000 total cash, prizes and trophies
    - http://droneworlds.com/
- European Rotor Sport Association (ERSA) and World Rotor Sport Association (WRSA): associations made up with nations or organizations in order to promote rotor sports
  - ⇒ Proposal of an agreement (MoU?) with FAI/CIAM

