

# ICTC Report

CIVA Plenary Meeting 2017, Aix-en-provance, France

## Overview

ICT Committee has been established to overview and supervise IT technologies used at CIVA.

Chairman: Vladimir Machula

Members: Bernhard Drummer, Ringo Massa, Nick Buckenham, Philippe Kuechler, Peter Rounce

## Wind measurement

Drone wind measurement system has been used during 2017 at EAAC and WAC. Use of the system provided good level of experience and I am sure system become reliable. Only one issue with loss of control has been experienced during EAAC. Approximate total number of drone use (measurements) was over 220 takeoffs. Measurement is quick (3-4 minutes), can be done more often and precision is around 3 deg / 0,2 ms. These parameters raised questions which were not experienced before. Precision and quick wind profile measurement shown confusion when dealing with multilevel (altitude) wind vector differences. We were facing a lot of requests for other levels to measure to provide more precise info about wind conditions within the box. I believe those requests are legitimate and with this technology fulfillable.

Therefore, I propose to CIVA to change and add upper wind levels of 300 meters and 600 meters to measure and report to competitors. More details of the proposal can be found in Safety and Expedited proposals package as proposal #3.

## OpenAero

I would like to use this opportunity and thank to Mr. Ringo Massa for his very good job in OpenAero tool development and improvements. It's not just software to draw sequence it also extremely simplify and speedup process of Championship operation (unknown figures drawing, sequence checking and so on).

## Online Scoring

During 2017 we have been testing new technologies for instant score input during special events and during few national events. I would like to make a test event with live scoring as duplicate to current methods at WGAC&WAGAC 2018 in Zbraslavice. Improved technology contains fast response E-ink display and on the server side improvements on instant scoring calculations. More details will be provided later during 2018.

## Conclusion

Few other topics were investigated during season 2017, like improved way of scoring sheet archiving at Judge line, but without any specific outputs. For coming season I would like to focus on improvement of drone wind measurement platform to make it kind of open source and available to be build and used by other users and to continue develop other mentioned topics as well.

Vladimir Machula

30<sup>th</sup> October 2017

Prague, Czech Republic