Task List for
Expert Groups / Technical Commissions

As of 18 January 2014

Date of Task Assignment :	**18 January 2014**
Date of interim report to EB :	**10 June 2014**
Date of final report to EB / GC :	**10 September 2014**

NAVIGATION EXPERT GROUP (NEG)

VFR Navigation :

1. To navigate safe in complex airspace, many modern tools are utilized, such as iPad, iPhone, FLARM, GPS etc. They generally give good results, but there are also some operational disadvantages. A deeper analysis of the performance of such tools is of global interest, as many countries are rapidly adopting them. *(See also the working paper from Eurocontrol, but this is a world wide issue)*

2. The «see and avoid» principle is the primary, and often the only means of separating aircraft under VMC conditions in VFR airspace. The main task 2013 for NEG was to analyse the development of remote piloting systems with „sesnse and avoid"-systems and the planned integration in civil airspace. The NEG report mentioned, that the threat from midsize UAS aircraft is probably rather high in the near future. It was recomended that FAI should follow up the progress and report how the problem is dealt with.

Tasks :

1. **Provide a report with recommended FAI guidelines** regarding the different cockpit-avionic systems (tools) for sports aircraft, such as navigation systems, airspace systems, collision warning systems etc., This report should include the main advantages and disadvantages of such equipment for the user/pilot in technology, ease of installations in small cockpits. It should also include evaluation of important operational aspects such as:
    a. User friendly handling
    b. Operational values
    c. Ease of situation awareness
    d. Safety aspects.

The safety aspects could be analysed in a joint work with dedicated experts from SEG.

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2. **Monitor the development of „see and avoid“ concept vs the UAS integration in civil airspace.** Evaluate the threats to air sports and recreational aviation by the increase in the number of midsize UAS aircraft. Provide a report of how this issue is handled; include advice and recommendations as appropriate.

In addressing this task, some coordination with REG regarding UAS regulations is recommended.

The suggestions for further NEG tasks should be forwarded to FAI EB Member Beat Neuenschwander (b.h.neuenschwander@bluewin.ch)

Note :

Additional information can be obtained by contacting the respective EB member, or the FAI Head Office ; contact person is the FAI Members & Services Manager, Segolene Rouillon (members@fai.org).

With best regards

p.p.
FAI Secretary General

Beat NEUENSCHWANDER
FAI Executive Board Director