Fédération Aéronautique Internationale

106th FAI Annual General Conference
Antalya, Turkey
19 and 20 October 2012

Navigation systems
Lars Holmström (SWE)
President CANS
Expert Group/Navigation

- GPS Sat Nav over almost 20 years
- More Sat Nav systems in the future
- Digital display (Glass cockpit) becoming standard in most new GA Aircraft

- Moving Map display simplifies navigation
- High terrain warning
- Sat Nav + datalink (ADS-B) offers many new services:
  - Situation Awareness
  - Flight Information Service
  - Traffic Information Service
  - Weather Information

How can FAI influence the introduction of new technology?

Some items of urgent topical interest:

- Mandatory Mode S in some areas
- 8.33 kHz VHF channel separation
- ADS-B dual systems
  - Separate systems for higher altitudes and for lower altitudes (1090 ES and UAT)
  - High costs for GA (a low cost maritime system AIS is in global use)

- Low cost systems for gliders, etc. (Flarm/Power Flarm)
- Modernize the radio communication system (we currently use a 50-year-old system with simplex and AM modulation)
- IT technology offers many apps that can be used on iPad
**User requirements for new equipment**

1. Improve flight safety and ensure access to airspace

2. Simple to operate and supplies the required innovative functions enabled by the latest technology

3. Low price – to benefit the entire GA community

**Thank you for your attention**

Questions?

Lars Holmström
lars@rex.nu