

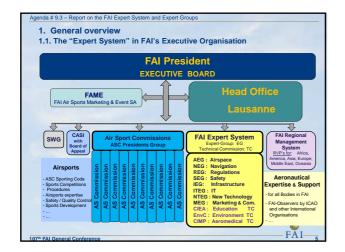


Agenda # 9.3 - Report on the FAI Expert System and Expert Groups Agenda General Overview of the Expert System > Actual situation of the Expert System and Expert Groups > Tasks 2013 to the Expert Groups «The UAS challenge» – measures taken by FAI Planned actions for 2014 Expert Group results 2013, presented by the PoC's : Airspace AEG Günther Bertram Lars Holmström Navigation NEG Regulation REG Otto Lagarhus -SEG Safety Otto Lagarhus New Technology NTEG Visa Matti Leinikki IT ITEG Visa Matti Leinikki

Agenda # 9.3 - Report on the FAI Expert System and Expert Groups

Agenda

- General Overview of the Expert System
- > Actual situation of the Expert System and Expert Groups
- > Tasks 2013 to the Expert Groups
- «The UAS challenge» measures taken by FAI
- Planned actions for 2014
- > Expert Group results 2013, presented by the PoC's :
- Airspace AEG Günther Bertram
 Navigation NEG Lars Holmström
 Regulation REG Otto Lagarhus
 Safety SEG Otto Lagarhus
 New Technology NTEG Visa Matti Leinikki
 IT ITEG Visa Matti Leinikki



8 Exper	t Groups		
Airspace Navigation Safety Regulation Airsport Facilities	Expert Group Expert Group Expert Group	AEG NEG SEG REG FEG	FAI's Aeronautical Expertise & Support
New Technology IT Marketing and Com.	Expert Group Expert Group Expert Group	NTEG ITEG MCEG	- as FAI-Observers by ICAO and by other international
3 Technical	Commissions		Organisations
Education Environmental	TC TC	CIEA EnvC	
Medico-Physiological		CIMP	

1. General overview 1.3.The benefit of the "FAI Expert System"

nda # 9.3 - Report on the FAI Expert System and Expert Groups

- FAI is able to <u>handle a lot of new challenges</u> with the Expert-System composed of Expert Groups and TC's
- Efficient system with clear defined goals, mid-term action plans and standardised Tasking & Reporting
- Output in a wide field of technical expertise in favor of the whole FAI : EB, NAC's, ASC's, ...
- Information & results to all members at the same time by Head Office
- Strengthen FAI: «showing the flag of airsports» by ICAO and other international aviation organisations!

	enda		_		
		verview of the			
> Ac	tual situa	ation of the Exp	ert Sys	tem and Expert Group	S
Ta	sks 2013	3 to the Expert	Groups		
⊳ «⊺	he UAS	challenge» – r	neasure	es taken by FAI	
> Pl	anned ac	tions for 2014			
N E.	nort Cro	up requite 2012	propost	ad by the DeC's t	
P <u>E</u>	pen Gio	up results 2013,	present	ed by the PoC's :	
		Airspace	AEG	Günther Bertram	
		Navigation	NEG	Lars Holmström	
	-	Regulation	REG	Otto Lagarhus	
	-	Safety	SEG		
	-	New Technology	NTEG	Visa Matti Leinikki	
		IT	ITEG	Visa Matti Leinikki	





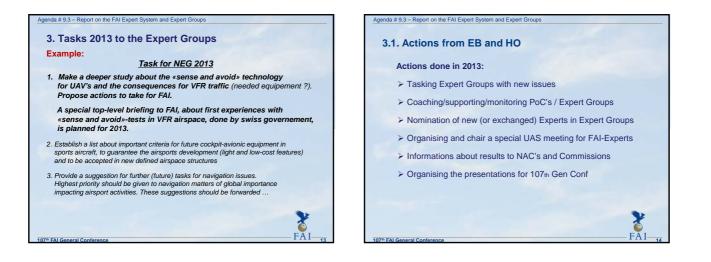
2013 problems observed:

- Some experts must be «waked-up» from time to time by PoC's
- HO-priorities in 2013 more by FAME, Anti Doping, Competitions etc
- NT- and IT- EG's with no/reduced output (no tasks from HO in 2013

FAI

Agenda # 9.3 - Report on the FAI Expert System and Expert Groups Agenda General Overview of the Expert System > Actual situation of the Expert System and Expert Groups Tasks 2013 to the Expert Groups «The UAS challenge» - measures taken by FAI Planned actions for 2014 > Expert Group results 2013, presented by the PoC's : AEG Günther Bertram Airspace Navigation NEG Lars Holmström Regulation REG Otto Lagarhus Safety SEG Otto Lagarhus New Technology NTEG Visa Matti Leinikki IT ITEG Visa Matti Leinikki

3.	Tasks 2013 to the Expert Groups
	Tasking/reporting process:
	 Tasking in January to all EG's First feedback from PoC as interim-reports in June <u>Final report mid September</u> to HO (offical report to GC)
	Task lists are on the FAI-Website
	Reportings from PoC to EB/HO are also in the FAI Website
	If needed, a Skype-meeting will be organised by PoC
	If requested, special informations from PoC's to EB/HO, NAC, ASC .
	> 2013 reports/presentations are fixed in the GC- agenda
	*



Agenda # 9.3 - Report on the FAI Expert System and Expert Groups

Agenda

- General Overview of the Expert System
- Actual situation of the Expert System and Expert Groups
- Tasks 2013 to the Expert Groups

IT

- «The UAS challenge» measures taken by FAI
- Planned actions for 2014
- > Expert Group results 2013, presented by the PoC's :

-	Airspace	AEG	Günther Bertram
144	Navigation	NEG	Lars Holmström
-	Regulation	REG	Otto Lagarhus
-	Safety	SEG	Otto Lagarhus
-	New Technology	NTEG	Visa Matti Leinikk

ITEG

Otto Lagarhus
Otto Lagarhus
Visa Matti Leinikki
Visa Matti Leinikki



Agenda # 9.3 - Report on the FAI Expert System and Expert Groups





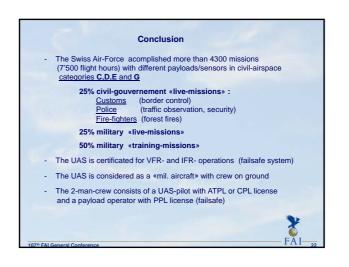


FAI

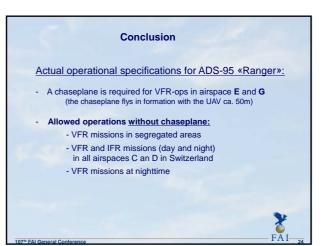
Why this meeting in Switzerland ?

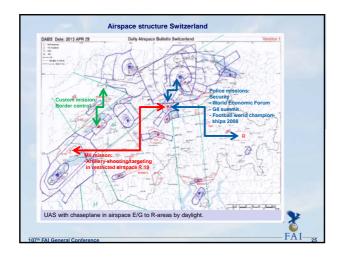
EU-nations, US and many other countries are working on UAS issues We have organised this meeting in <u>Switzerland, due to the fact that</u>:

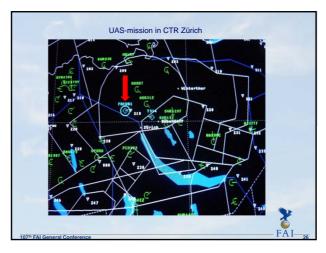
- Switzerland has many years of practical experiences in this field
- Switzerland has a common civil-military managed Airspace (unique in Europe)
- The Swiss Airspace is narrow, very complex and also challenged by the topography (mountains up to FL 130)
- Swiss Airforce (SAF) flies since 15 years with UAS in this complex airspace and is the most experienced Airforce in Europe with <u>UAS-operations integrated in civil airspace (VFR and IFR)</u>
- Swiss Civil&Military Air Navigation Services and NCAA are fully involved in the process
- The actual Swiss UAS «Ranger» successfully passed several safety assessments, conducted by *skyguide*.



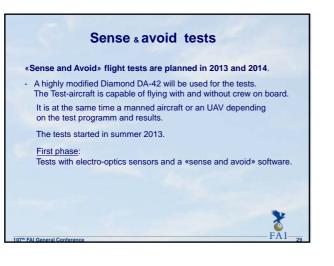








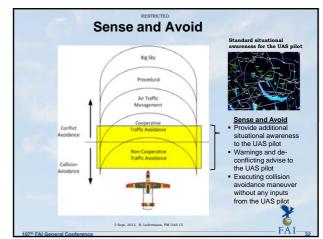
RESTRICTED Conclusion New generation of UAS Short List Candidates The Swiss Gouvernement is evaluating a MALE-UAS (medium alt. long with 16m wingspan to replace the existing UAS «Ranger» in the next couple of years (procurement progr. 2015, op-readyness early 2018) dium alt. long end.) One of the goals is to **operate autonomous**, flying VFR- & IFR-missions in all civil-airspace categories without chaseplane. Next step: to evaluate a technology without any impact or specific regulations for other airspace users ! Aircrafts equiped with ADS-B; FLARM, XPDR Mode S etc. are recogniced by UAS. The information is displayed in the ground-control-station to provide best situation-awareness to the UAS pilot. Different technologies as electro-optics, IR and Radar will be tested so as to be able to detect <u>all</u> airspace users (incl. gliders, balloons, paragliders etc) without XPDR or other techn. equipement. IAI, «HERON 1» ELBIT, «HERMES 900» Goal: No negative impact for GA / airsports ! FAI 2 pt. 2013, R. L





FAI









Running steps

- 1. Each Expert Group had to take out the main issues from this briefing and to finalize the «Exp-Group Report» to EB and HO
- Our main interest are UAS wich are operating from about <u>300 ft/ground</u> <u>up to FL 160</u>. For UAS classification, we use international standards and we don't define FAI-own criterias.
- Otto Lagarhus will analyse the reports and the UAS-inputs to establish a «<u>FAI Policy-Paper</u>», which can be used:
 on strategic/internatioanl level by FAI President & Executive Directors
 by all our members for discussions with national authorities
- 4. A first draft of this «FAI Policy-Paper» was discussed at the Executive Board meeting and Otto Lagarhus will present it to the GC.
- Each PoC of an EG has prepared a short presentation of the results from Expert Group tasks 2013 in general (UAS was only one issue).

FA

Agenda

- General Overview of the Expert System
- Actual situation of the Expert System and Expert Groups
- > Tasks 2013 to the Expert Groups

Agenda # 9.3 - Report on the FAI Expert System and Expert Groups

- > «The UAS challenge» measures taken by FAI
- Planned actions for 2014
- Expert Group results 2013, presented by the PoC's :

1 1 1 1 F		Airspace	AEG	Günther Bertram	
- 10		Navigation	NEG	Lars Holmström	
-		Regulation	REG	Otto Lagarhus	
-		Safety	SEG	Otto Lagarhus	
		New Technolog	y NTEG	Visa Matti Leinikki	
- 10.000		IT	ITEG	Visa Matti Leinikki	
					*
					6
107th FAI General Confe	erence				$-FAI_{3}$

Agenda # 9.3 - Report on the FAI Expert System and Expert Groups Agenda # 9.3 - Report on the FAI Expert System and Expert Groups 4. Planned actions for 2014 4. Planned actions for 2014 FAI Executive Board / Head Office: FAI Expert Groups: > Finalise the FAI «Policy Paper» All Expert Groups had in 2013 also the task, to propose important items as new tasks for 2014 and to study this > Make an official and clear FAI statement to ICAO issues deeper Nominating an FAI representative for ICAO and if possible, also for other in Int. Organisations We are looking forward to the coming presentations of the > Tasking Expert Groups with new issues PoC's about the reports and their proposed next steps in the > Appointing new Experts (or exchange) if needed **Expert Groups** > Coaching/supporting/monitoring POC's / Expert Groups > Information about results to all NAC's and Commissions

FA



Agenda # 9.3 - Report on the FAI Expert System and Expert Groups

Agenda

- General Overview of the Expert System
- > Actual situation of the Expert System and Expert Groups
- > Tasks 2013 to the Expert Groups
- ➢ «The UAS challenge» measures taken by FAI
- Planned actions for 2014
- Expert Group results 2013, presented by the PoC's :
 - Airspace AEG Günther Bertram - Navigation NEG Lars Holmström
 - Regulation REG Otto Lagarhus
 - Safety SEG Otto Lagarhus
 - New Technology NTEG Visa Matti Leinikki
 - IT ITEG Visa Matti Leinikki