



The Belgian Airspace Infringements Action Plan, a joint venture.

Belgian Aeroclub – Belgian Military – BCAA – Belgocontrol

Alain Du Bois
Safety Advisor
Steenokkerzeel, 03/12/2013



What is it about?

✈ EBBR occurrence

- ▶ 31/07/2013
- ▶ Inadequate separation
- ▶ Partly involved
- ▶ Severity B



✈ EBCI occurrence

- ▶ 23/09/2011
- ▶ Inadequate separation
- ▶ Partly involved
- ▶ Severity B

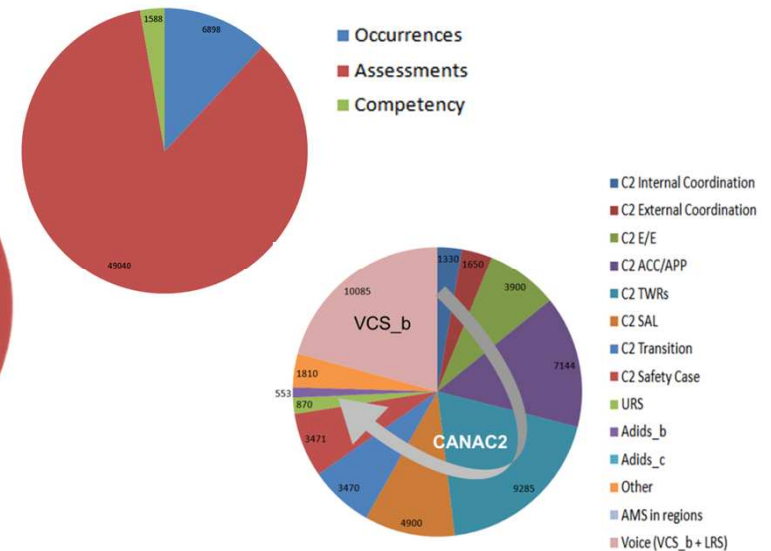
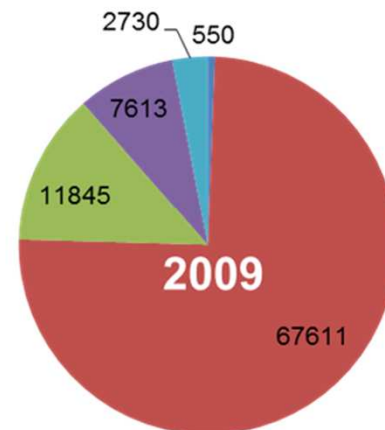
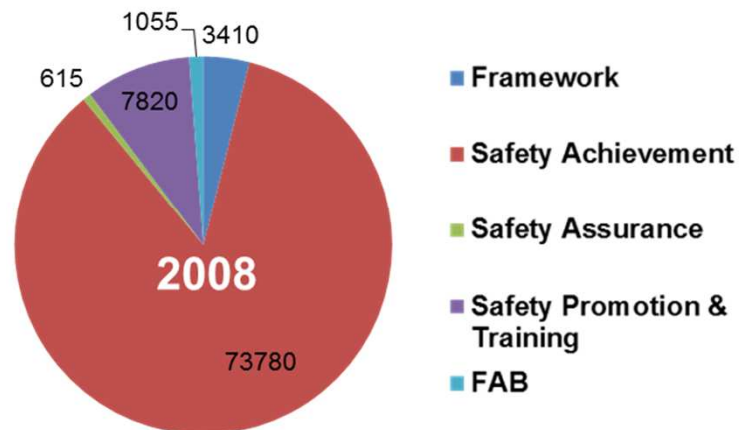


Chronology of effort 2008 / 2009

→ CANAC 2 implementation

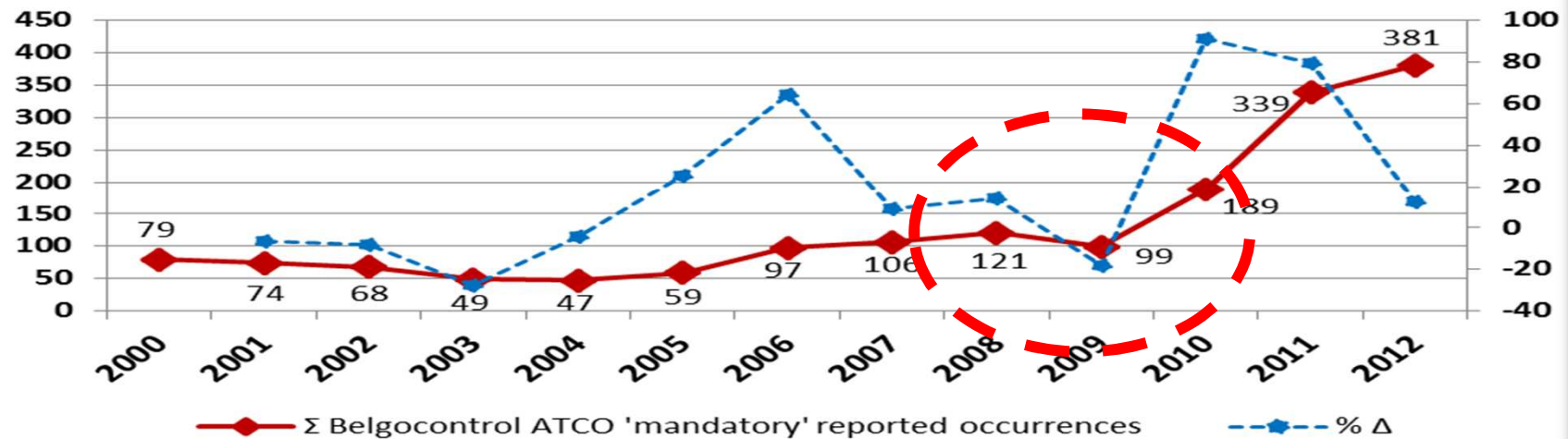


SMS effort

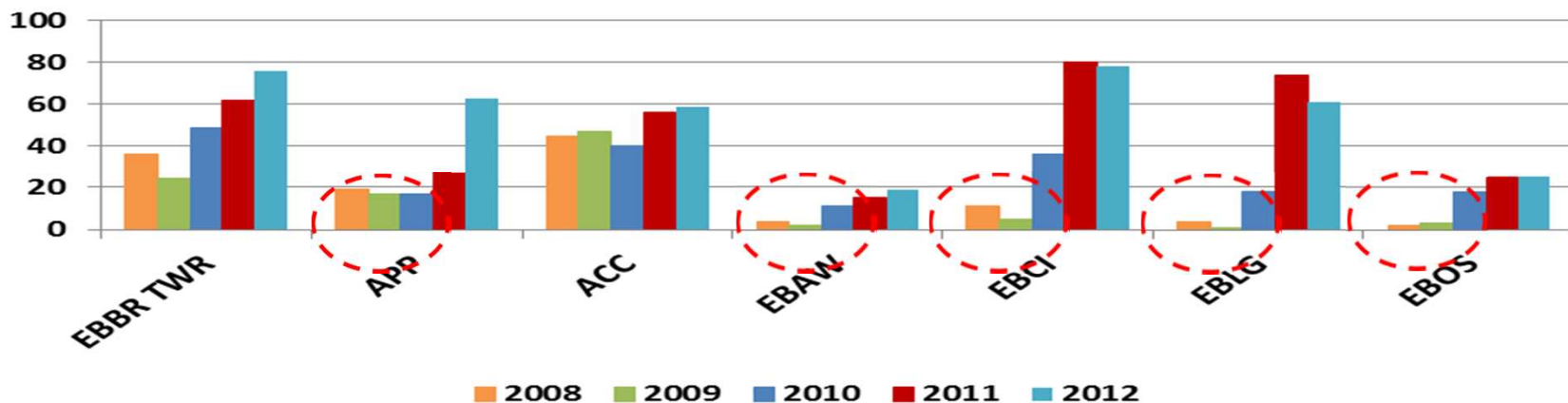


Belgocontrol Reporting Culture

Belgocontrol ATS Yearly reporting



Belgocontrol ATS unit reporting




Belgocontrol Reporting Culture



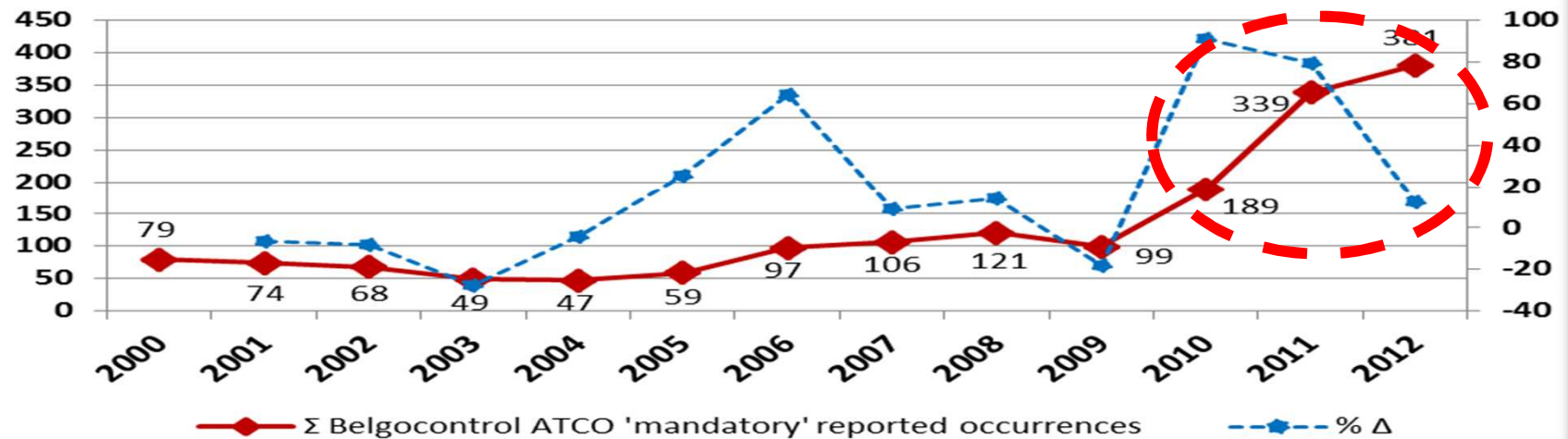
- ✈ 2008/2009: General culture: mandatory reporting limited to losses of separation, runway incursions, ...
- ✈ 2010: Safety Culture Survey
 - ▶ Recommendation: ... Lack of feedback ...
- ✈ Resulting in Roadshow
 - ▶ Every unit / Every single ATCO
 - ▶ Main topics : How to report? / What to report?
 - ▶ Discussions revealed
 - > difficulty to report
 - > lack of feedback
 - > a gap between the legislation and the practices ... such as airspace infringements
 - ▶ General comments: If we have to do that, we will have to report one every 2 days ...

Commitment

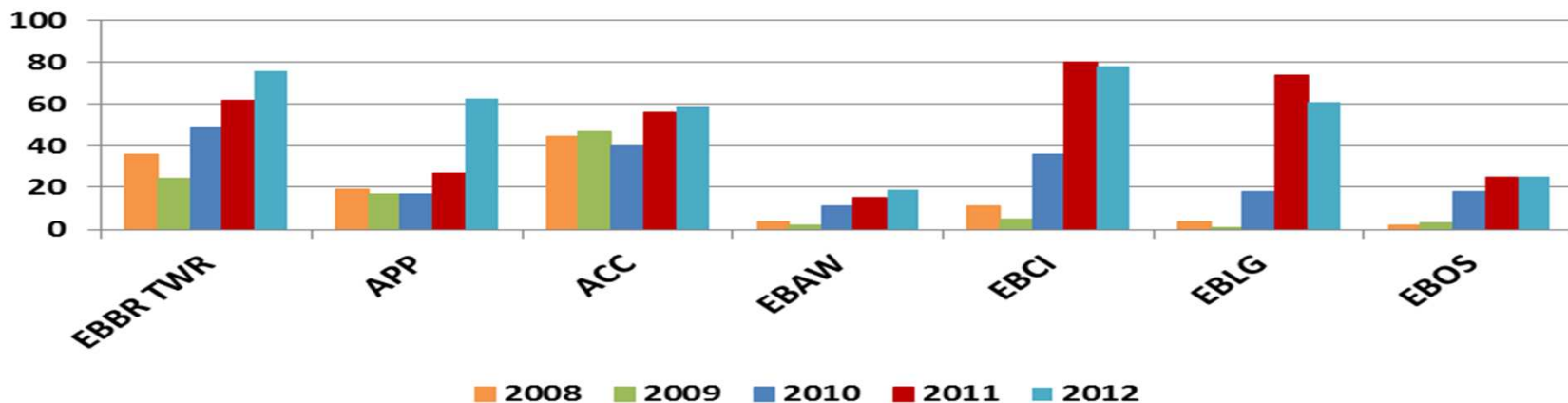
- 
- A horizontal decorative bar with a blue sky and white clouds pattern.
- ✈ Work hard on feedback
 - ✈ Make reporting easier
 - ✈ Influence the CAA to define airspace infringements as a safety risk

Belgocontrol Reporting Culture

Belgocontrol ATS Yearly reporting

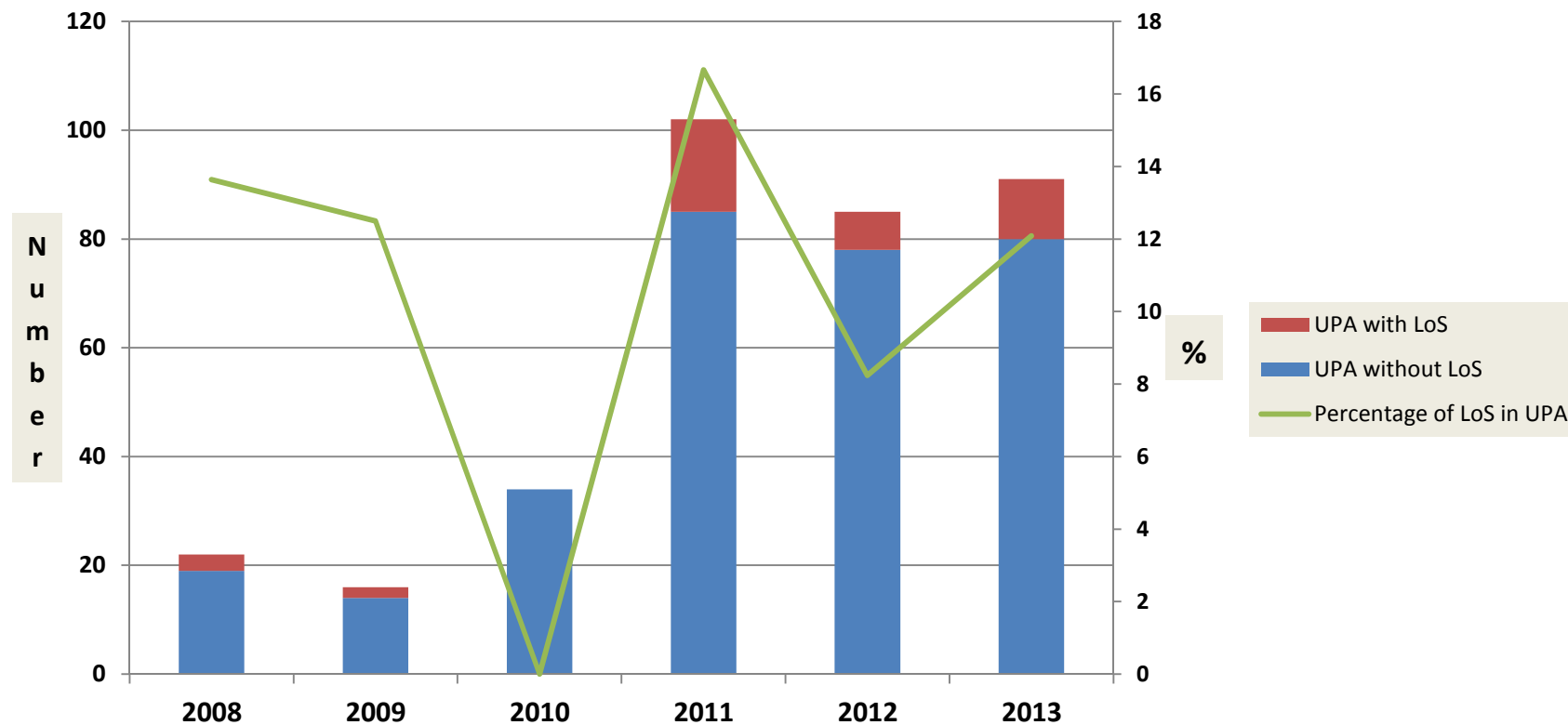


Belgocontrol ATS unit reporting

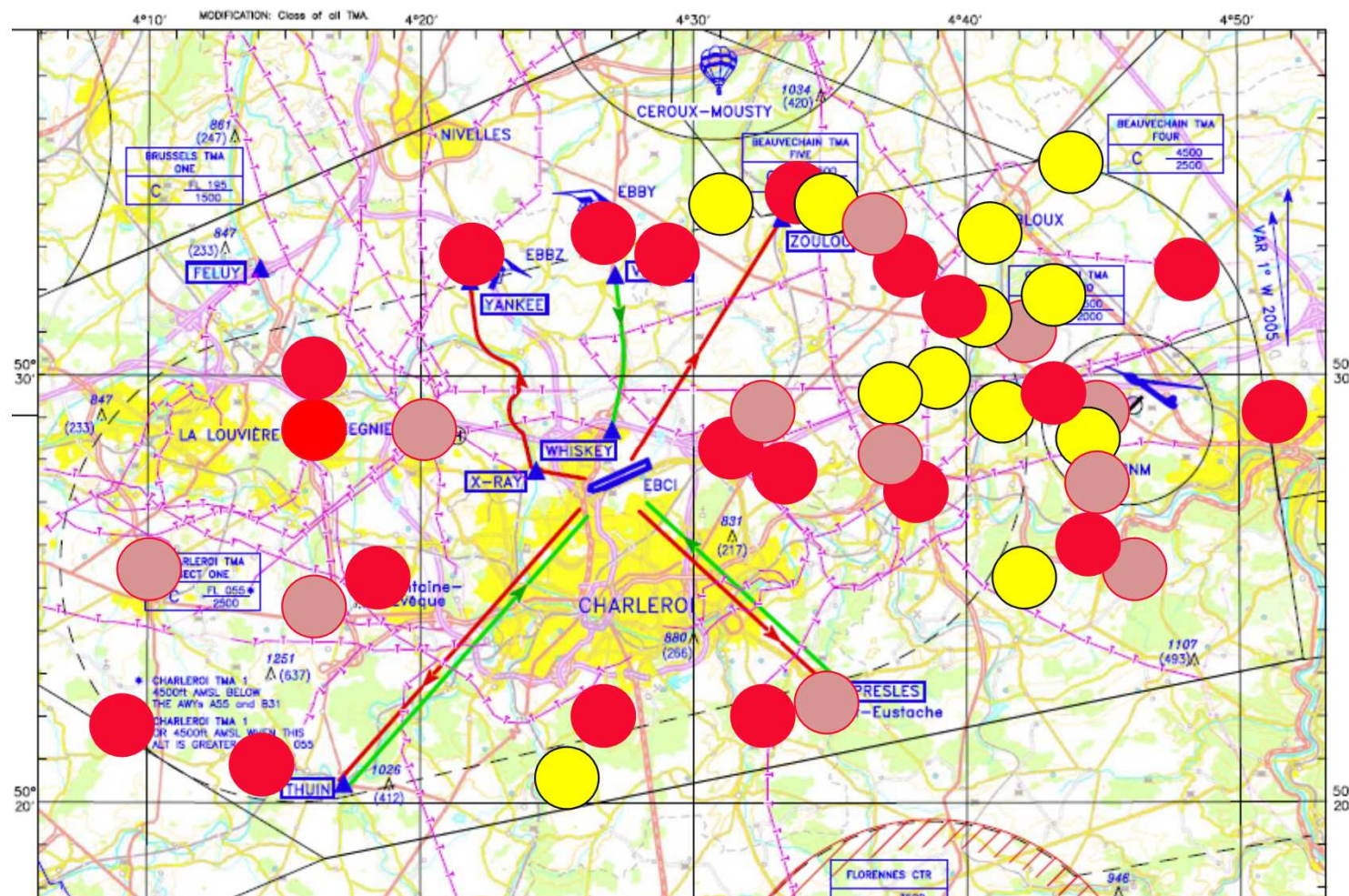


Airspace Infringement reports

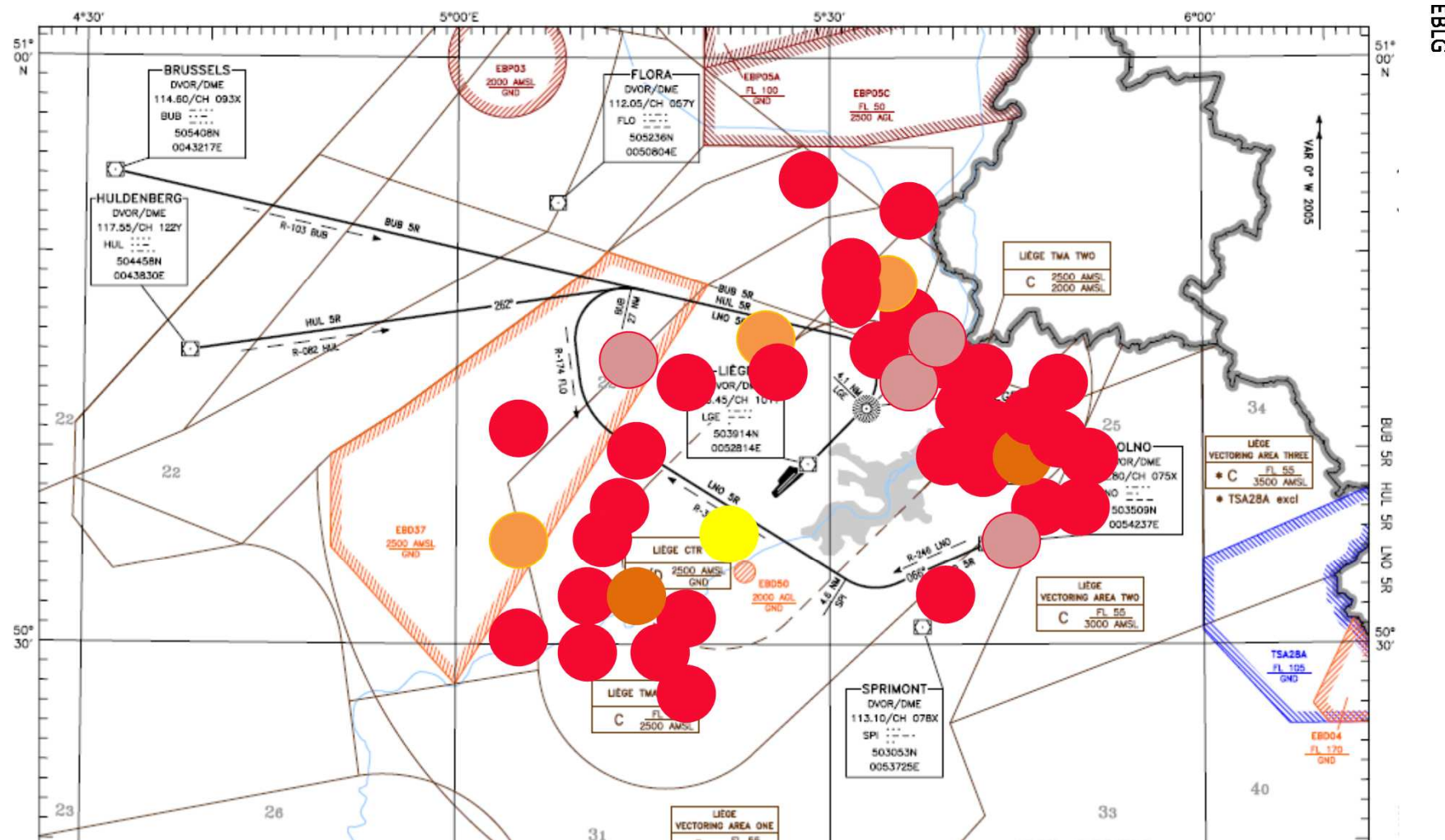
Unauthorised penetration of airspace (UPA) with & without Loss of Separation (LoS)



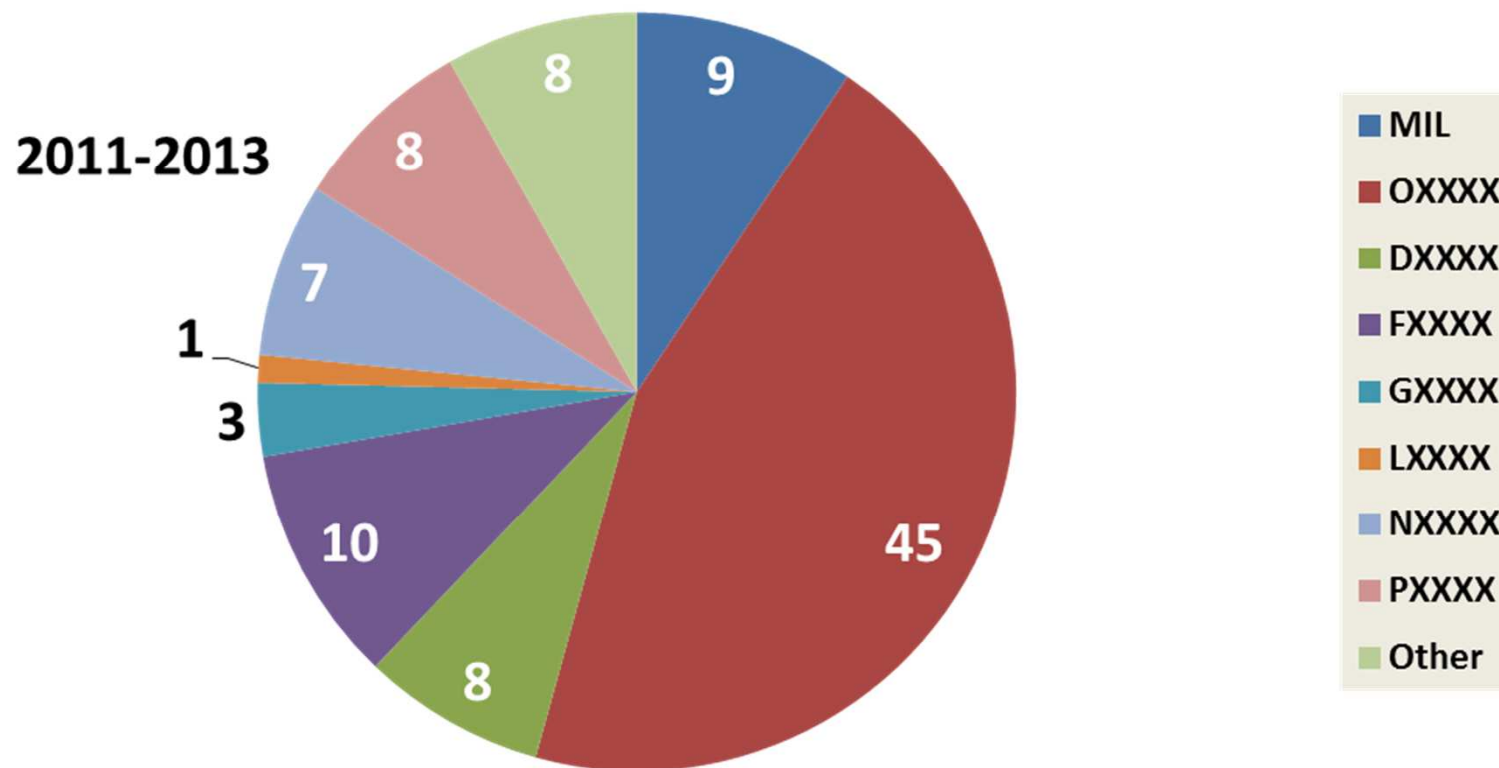
Map EBCI



Map EBLG



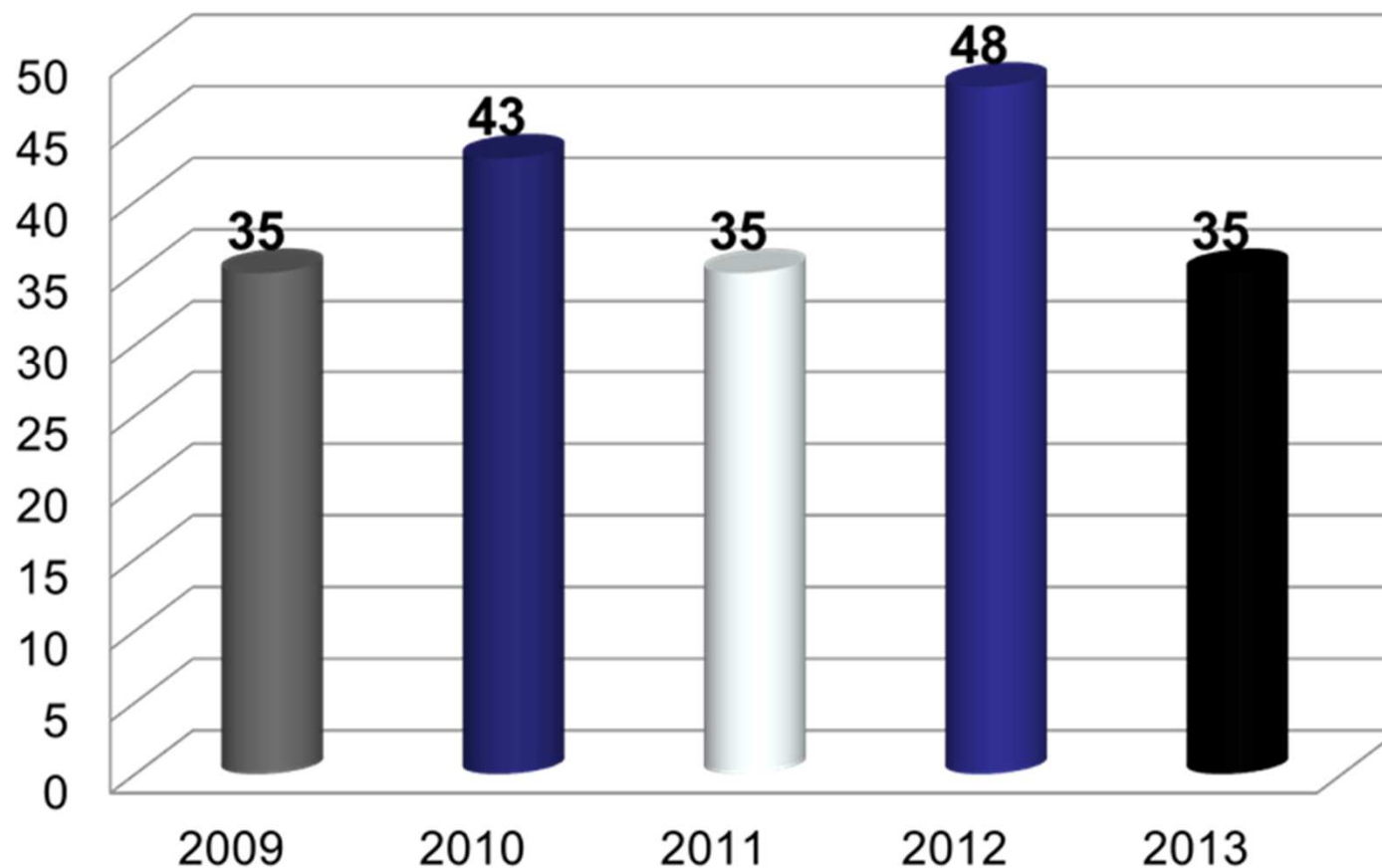
Origin of infringers



Less than half the reported AI's are with Belgian registrations

Military data

GA infringement reports



Belgian Safety Plan

CONTENTS



Outline

Link between the European Aviation Safety Agency (EASA) and the Belgian Civil Aviation Authority (BCAA)

General Actions (GA) to further develop the Belgian Safety Programme (BSP)

- GA1: Establishing a National Safety Library
- GA2: Developing Safety Performance Indicators (SPI's)
- GA3: Developing a strategy with respect to safety training and safety promotion

Operational Actions (OA) to improve civil aviation safety

- OA1: Establishing a Belgian Aviation Wildlife Hazard Committee and drafting a national action plan to prevent collisions with animals
- OA2: Resolving problems related to ground handling in partnership with the market sector
- OA3: Drafting regulations with respect to unruly passengers
- OA4: Annual check of the reliability of flight controls for commercial aircraft in Belgium
- OA5: Complete the regulation with respect to the "Targeting of Aircraft with Lasers"
- OA6: Implementation of the European Action Plan for the Prevention of Runway Incursions (EAPRI)
- OA7: Implementation of the National Action Plan for Airspace Infringement Risk Reduction

Appendix 1: Outline of risks in the Belgian civil aviation sector

Appendix 2: Belgian Civil Aviation Safety Policy

BELGIAN SAFETY PLAN

2010-2014

2012 Update



Federal Public Service
Mobility and Transport
Belgian Civil Aviation Authority



Belgian Safety Plan

OA7: Implementation of a National Action Plan for Airspace Infringement Risk Reduction

a. Description

Airspace infringement is also referred to as unauthorized penetration of airspace and is generally defined as a flight into notified airspace without previously requesting and obtaining approval from the controlling authority of that airspace in accordance with international and national regulations.

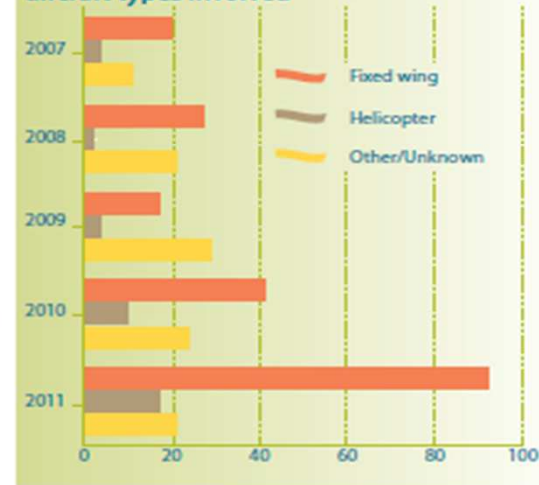
The table below shows the number of reported infringements for the period 2007-2011.

	2007	2008	2009	2010	2011
Airspace Infringements	30	43	41	62	130

Since 2007 the overall number of reported incidents is almost constantly increasing. The upward trend may also be influenced by the increasing awareness of this type of risk and other improvements in the general reporting culture.

The analysis of the reported incidents clearly indicates that the majority of infringements are committed by General Aviation VFR flights.

Airspace infringement occurrences: aircraft types involved



The BCAA will take the following actions:

- **New Action OA7.1 (date: July 2013):** establish a national action plan for airspace infringement risk reduction derived from the European Action Plan for Airspace Infringement Risk Reduction;
- **New Action OA7.2 (date: end 2014):** promote and verify the implementation of the national action plan for airspace infringement risk reduction.



Ambition versus Influence

✈ Situation:

- ▶ Bottom up approach
- ▶ All motivated to work on the issue
- ▶ No resource commitment from TOP MGT avl
 - > Manpower
 - > €
- ▶ Flight organizations who have additional issues
- ▶ Tick in the box attitude versus safety improvement


WG

BCAA
BSA-ANS
Military
Flight Orgs
Eurocontrol
Belgocontrol

Lessons Learned

- ▶ Top management commitment and mandate = CSQN
- ▶ Importance of indicators to measure success from start
- ▶ Be prepared to handle an increase in reports @ **ANSP & CAA**

Contributing factors

- 
- A horizontal decorative bar with a blue sky and white clouds pattern.
- ✈ Navigation errors
 - ✈ Reduced navigation skills
 - ✈ Not aware of changes in airspace
 - ✈ Lack of flight preparation
 - ✈ Poor ATC radio communication skills resulting in a preference to fly through narrow VFR-corridors, in between CTR's, just to remain in G-class airspace

Slight distraction, loss of situational awareness, crosswind, reduced visibility may easily lead to an infringement.

Highlights B/AIRP

Inform on the risks of airspace infringements

Stimulation of recurrent training of pilot license holders

Encouragement of all to regularly attend refresher courses

Stimulation of instructors and examiners to check pilots' radio communication skills

Voluntary reporting culture for the benefit of learning

Fostering of the (correct!) use of emerging technologies

Simplification of the Belgian airspace (where possible)

Leaflet / Questionnaire

✈ LEAFLET, issued in Jul 2013

- ▶ Nbr of downloads on Belgocontrol website:
 - > Jul: 1333
 - > Aug: 274
 - > Sep: 215
 - > Oct: 185



AIRSPACE INFRINGEMENTS
LEAFLET
Highlights of the Belgian Airspace Infringement Reduction Plan (B/AIRP)



✈ Questionnaire to be filled in by 'infringers' to understand why it happened

Lessons Learned

- ▶ + good start (1st common tangible result)
- ▶ + pilot view on occurrences
- ▶ - completely missing the timing for leaflet
- ▶ - leaflet effectiveness: 1 (on a scale 1 to 4), comparable to ...






To be continued



To be continued

- 
- A horizontal decorative bar with a blue sky and white clouds pattern.
- ✈ Introduction of questionnaire & continuous pressure of ANSP's for feedback, lead to change of roles and responsibilities at CAA level and a dedicated procedure
 - ✈ Use of ECCAIRS for internal follow up actions
 - ✈ Start of work of a student ... for data analysis and preparing a VFR guide, based on some best practices around Belgium

Lesson learned

Conflict between trying to gather as much as possible information (Questionnaire) and former culture of PV for applying correctly the law (→ making an infringement)

Last minute efforts

- ✈ Meeting Nov 2013
- ✈ Presentation newly reported occurrences, statistics, preparation of updated leaflet
- ✈ Some hotspots identified and preparation VFR guide
- ✈ Brainstorming
 - ✈ 16 possible working areas
 - ✈ Scored on effectiveness and complexity
 - ✈ Selection
 - ✈ Roadmap with some milestones

Effectiveness
Complexity
Safety benefit
Effort
Manpower
Interdependency
€

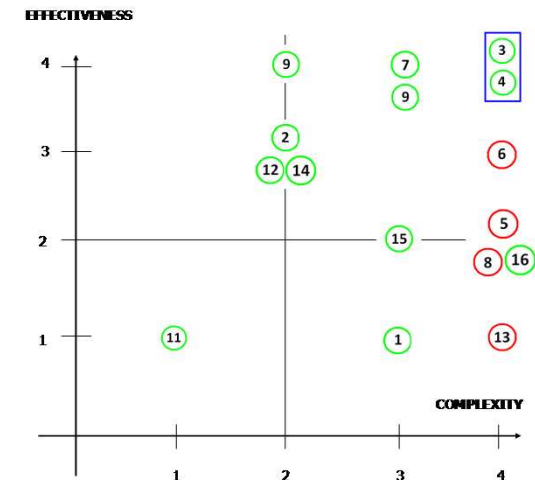
Still missing: Management commitment

Brainstorm actions

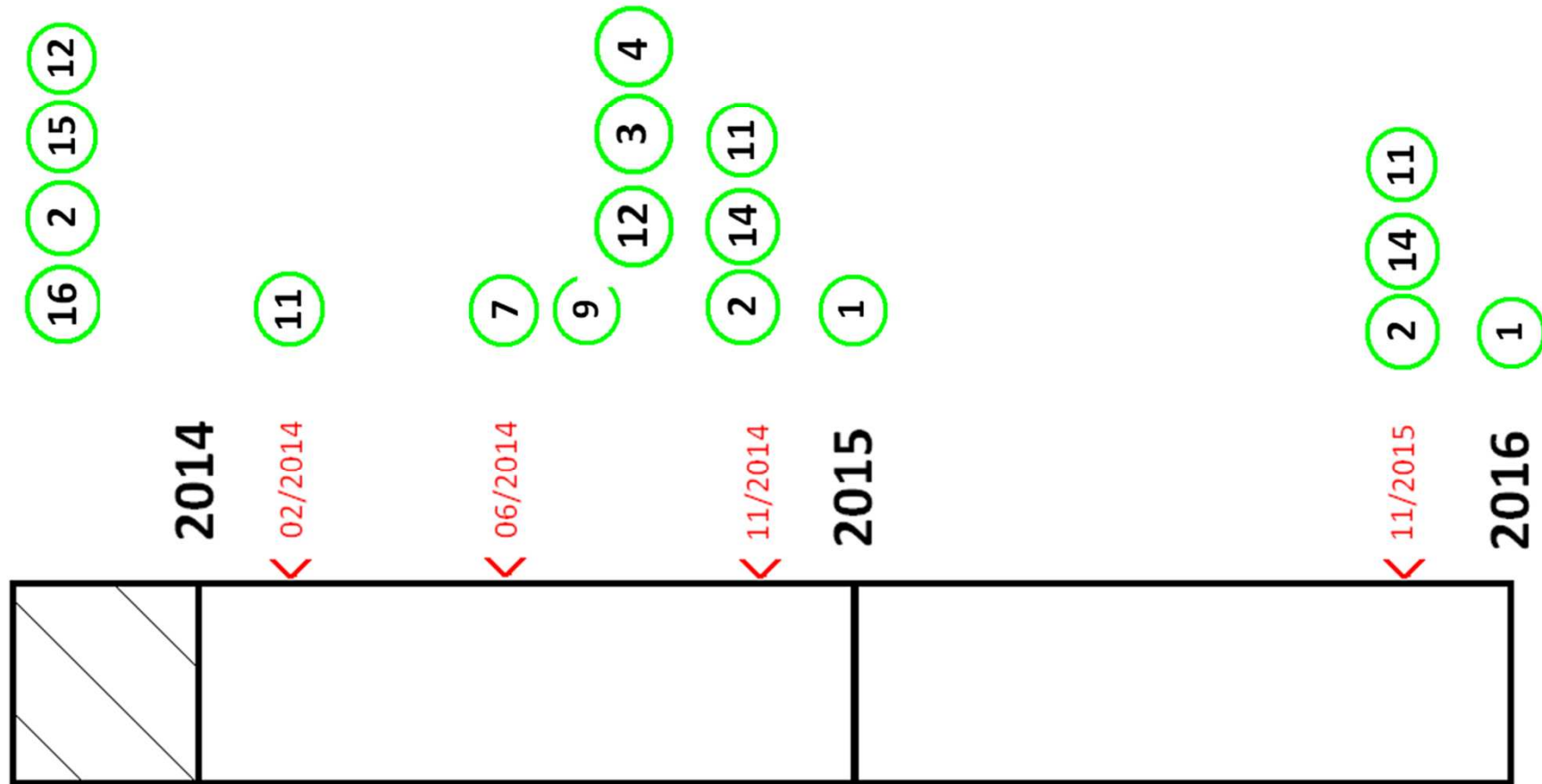
1. KPI to measure success: 3/1
2. Statistical analysis of the data: 2/3
3. Airspace design recommendations: 4/4
4. Charts/maps: 4/4
5. AIP: 4/2
6. NOTAMS: 4/3
7. VFR-Guide: 3/4
8. Optimization/Standardization FIS: 4/2
9. Stimulate use of GPS/Tablet apps for navigation: 2/4
10. Training pilots RT/Navigation skills/Refreshers: 4/2
11. Leaflet: 1/1
12. Questionnaire: 2/3
13. Voluntary reporting: 4/1
14. Briefing package: 2/3
15. Letter for commitment/resources/support for B/AIRP: 1/4
16. Road show/presentations: 3/2

X/Y:


- **X: Complexity to install**
- **Y: Effectiveness of effort**



Roadmap proposal



Achievements so far ...

- 
- A horizontal decorative bar with a blue sky and white clouds pattern.
- ▶ Less infringements?
 - ▶ Good communication/cooperation between MIL, CAA, Flight Organization, Belgocontrol on a common issue!!!

What else ... www.belgocontrol.be



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the airspace in **safe** hands

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The Control Tower

Single European Sky

Safety

CANAC 2

Air Traffic Safety: Our Mission

Belgocontrol is an autonomous public company in charge of the safety of air traffic in the civil airspace for which the Belgian State is responsible. Our company fulfils this mission while optimising costs and punctuality, increasing capacity and ensuring the sustainable development of air traffic. Belgocontrol provides all the essential services to manage and control the air traffic safely:

- **ATM - Air traffic management and air traffic control**
- **Technology** : infrastructure and systems of ATM data processing, Communication, Navigation, Surveillance and Meteo
- **AIM and Meteo** : aeronautical information management and meteorological information services

What's new

- **Press release: Statistics : Movements - September 2013** 28/10/13
- **Press release: Statistics : Movements - July and August 2013** 03/10/13
- **Press release: Statistics : Movements - June 2013** 24/07/13
- **Press release: Statistics : Movements - May 2013** 10/07/13
- **Job: Financial Business Analyst** 05/07/13

Media

Video: Our mission
The best way to meet Belgocontrol and learn the essentials about our enterprise in a few minutes
→ [Watch](#)

All our videos are in the QuickTime format (download the [QuickTime](#) plug-in) and are available in the [Media Center](#)

AIS-Meteo briefing

AIS-Meteo Briefing
for a safe flight!

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- Leaflet: Airspace infringement (pdf, 1MB)
- Safety Reminder on Skybrary: Altimeter setting error during climb out (24 June 2013)
- EVAIR Safety Bulletin n°10
- Hindsight 17

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Thank you for taking our survey that took place from 21 October to 18 November 2013. Over 2,700 people filled out our questionnaire and made suggestions. We would also like to thank you for your support. We will do our utmost to unrelentingly improve our services.

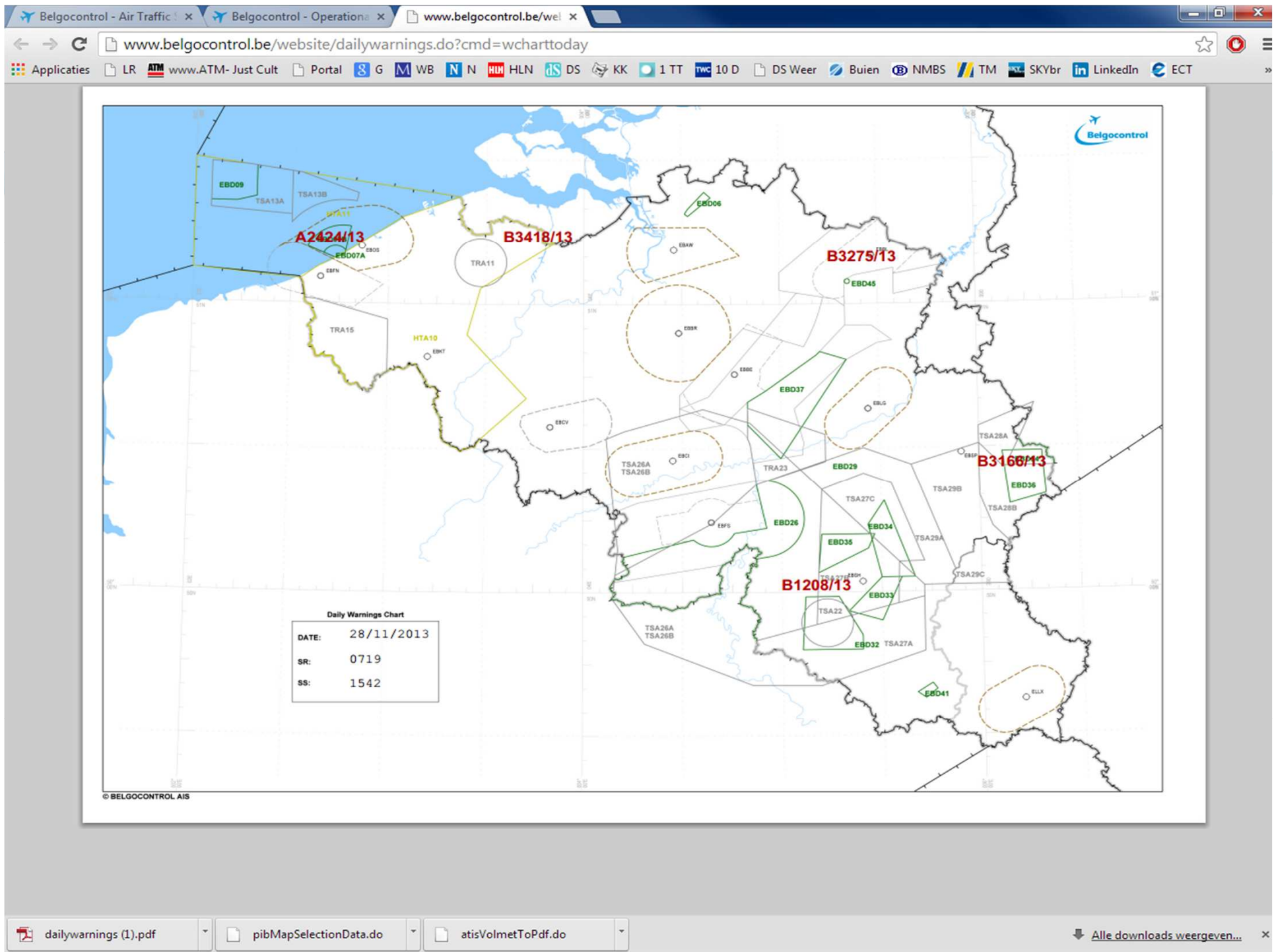
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Click here for real-time NOTAM Summary
Text: OBST LGT ON BUILDING U/S MAG BRG 082 DEG DIST FROM ARP 1550M 212M AMSL/25M AGL
A2464/13
From: 28 NOV 13 06:00 Till: 29 NOV 13 16:00
Schedule: DAILY 0600-1600
Text: TWY SOUTH CENTRELINE LIGHTS U/S DUE TO WIP
A2465/13
From: 28 NOV 13 05:30 Till: 06 DEC 13 16:00
Schedule: DAILY 0530-1600
Text: TWY NORTH BTN N4 AND N5 (N5 NOT INCLUDED) LTD TO ACFT WITH WINGSPAN MAX 36M DUE TO WIP
A2492/13
From: 12 DEC 13 00:01 Till: 26 DEC 13 23:59
Text: TRIGGER NOTAM - PERM AIRAC AMDT 10/2013 IAC CHARTS UPDATED
KORTRIJK/WEVELGEM
A1518/13
From: 09 AUG 13 08:05 Till: 31 DEC 13 23:59 EST
Text: DUE TO UNEVENNESS ALONG TWY D, TAXI AT SLOWEST SPEED POSSIBLE
A2491/13
From: 12 DEC 13 00:01 Till: 26 DEC 13 23:59
Text: TRIGGER NOTAM - PERM AIRAC AMDT 10/2013 IAC CHARTS UPDATED
LIEGE/LIEGE
A1652/13
From: 30 AUG 13 09:34 Till: 31 DEC 13 12:00 EST
Text: TRAINING FLIGHT PPR. CONTACT ATC +32(0)42348492
A1946/13
From: 27 SEP 13 14:12 Till: 30 DEC 13 16:00 EST
Text: FOLLOW ME CAR SERVICES AVBL ONLY WHEN REQ BY PILOTS EXC IN LVP

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Departure and Destination

DEP/DEST and Callsign on existing flight plan OR DEP/DEST and Route are compulsory.

Departure: EBAW
Destination: EBAW
Additional Alternate AD's: EBOS
Callsign:
Route Description: dct NIK ONO BUN ONW

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Date	Sunrise	Sunset
28/11/2013	0719	1542
29/11/2013	0720	1541
30/11/2013	0721	1541
01/12/2013	0723	1540
02/12/2013	0724	1540
03/12/2013	0725	1539
04/12/2013	0727	1539
05/12/2013	0728	1538
06/12/2013	0729	1538
07/12/2013	0730	1538
08/12/2013	0732	1537
09/12/2013	0733	1537
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11/12/2013	0735	1537
12/12/2013	0736	1537
13/12/2013	0737	1537
14/12/2013	0737	1537
15/12/2013	0738	1537
16/12/2013	0739	1537
17/12/2013	0740	1538
18/12/2013	0741	1538
19/12/2013	0741	1538
20/12/2013	0742	1539

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Brussels-National Departure ATIS	EBBR	BRU	
Charleroi - Brussels South ATIS	EBCI	CRL	
Liège - Bierset ATIS	EBLG	LGG	
Ostend ATIS	EBOS	OST	
Antwerp ATIS	EBAW	ANR	
Brussels VOLMET	EBAW EBBR EBCI EBLG EBOS	ANR BRU CRL LGG OST	





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RSCD RWY25 WET OR WATER BC TRL FL040 LVP INPR
270/3KT VRB BTN 230 AND 340 VIS 250M RVR RWY25 600M 550M 450M FBLDZ BKN100FT BKN200FT
T6 DP6 QNH 1032HPA
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Sunset: 1542

TSA13A TSA13B HTA11

A2424/13 EBD07B EBD07A EBD07C EBD07D EBD07E EBD07F EBD07G EBD07H EBD07I EBD07J EBD07K EBD07L EBD07M EBD07N EBD07O EBD07P EBD07Q EBD07R EBD07S EBD07T EBD07U EBD07V EBD07W EBD07X EBD07Y EBD07Z EBD07AA EBD07AB EBD07AC EBD07AD EBD07AE EBD07AF EBD07AG EBD07AH EBD07AI EBD07AJ EBD07AK EBD07AL EBD07AM EBD07AN EBD07AO EBD07AP EBD07AQ EBD07AR EBD07AS EBD07AT EBD07AU EBD07AV EBD07AW EBD07AX EBD07AY EBD07AZ EBD07BA EBD07BB EBD07BC EBD07BD EBD07BE EBD07BF EBD07BG EBD07BH EBD07BI EBD07BJ EBD07BK EBD07BL EBD07BM EBD07BN EBD07BO EBD07BP EBD07BQ EBD07BR EBD07BS EBD07BT EBD07BU EBD07BV EBD07BW EBD07BX EBD07BY EBD07BZ EBD07CA EBD07CB EBD07CC EBD07CD EBD07CE EBD07CF EBD07CG EBD07CH EBD07CI EBD07CJ EBD07CK EBD07CL EBD07CM EBD07CN EBD07CO EBD07CP EBD07CQ EBD07CR EBD07CS EBD07CT EBD07CU EBD07CV EBD07CW EBD07CX EBD07CY EBD07CZ EBD07DA EBD07DB EBD07DC EBD07DD EBD07DE EBD07DF EBD07DG EBD07DH EBD07DI EBD07DJ EBD07DK EBD07DL EBD07DM EBD07DN EBD07DO EBD07DP EBD07DQ EBD07DR EBD07DS EBD07DT EBD07DU EBD07DV EBD07DW EBD07DX EBD07DY EBD07DZ EBD07EA EBD07EB EBD07EC EBD07ED EBD07EE EBD07EF EBD07EG EBD07EH EBD07EI EBD07EJ EBD07EK EBD07EL EBD07EM EBD07EN EBD07EO EBD07EP EBD07EQ EBD07ER EBD07ES EBD07ET EBD07EU EBD07EV EBD07EW EBD07EX EBD07EY EBD07EZ EBD07FA EBD07FB EBD07FC EBD07FD EBD07FE EBD07FF EBD07FG EBD07FH EBD07FI EBD07FJ EBD07FK EBD07FL EBD07FM EBD07FN EBD07FO EBD07FP EBD07FQ EBD07FR EBD07FS EBD07FT EBD07FU EBD07FV EBD07FW EBD07FX EBD07FY EBD07FZ EBD07GA EBD07GB EBD07GC EBD07GD EBD07GE EBD07GF EBD07GG EBD07GH EBD07GI EBD07GJ EBD07GK EBD07GL EBD07GM EBD07GN EBD07GO EBD07GP EBD07GQ EBD07GR EBD07GS EBD07GT EBD07GU EBD07GV EBD07GW EBD07GX EBD07GY EBD07GZ EBD07HA EBD07HB EBD07HC EBD07HD EBD07HE EBD07HF EBD07HG EBD07HH EBD07HI EBD07HJ EBD07HK EBD07HL EBD07HM EBD07HN EBD07HO EBD07HP EBD07HQ EBD07HR EBD07HS EBD07HT EBD07HU EBD07HV EBD07HW EBD07HX EBD07HY EBD07HZ EBD07IA EBD07IB EBD07IC EBD07ID EBD07IE EBD07IF EBD07IG EBD07IH EBD07II EBD07IJ EBD07IK EBD07IL EBD07IM EBD07IN EBD07IO EBD07IP EBD07IQ EBD07IR EBD07IS EBD07IT EBD07IU EBD07IV EBD07IW EBD07IX EBD07IY EBD07IZ EBD07JA EBD07JB EBD07JC EBD07JD EBD07JE EBD07JF EBD07JG EBD07JH EBD07JI EBD07JJ EBD07JK EBD07JL EBD07JM EBD07JN EBD07JO EBD07JP EBD07JQ EBD07JR EBD07JS EBD07JT EBD07JU EBD07JV EBD07JW EBD07JX EBD07JY EBD07JZ EBD07KA EBD07KB EBD07KC EBD07KD EBD07KE EBD07KF EBD07KG EBD07KH EBD07KI EBD07KJ EBD07KK EBD07KL EBD07KM EBD07KN EBD07KO EBD07KP EBD07KQ EBD07KR EBD07KS EBD07KT EBD07KU EBD07KV EBD07KW EBD07KX EBD07KY EBD07KZ EBD07LA EBD07LB EBD07LC EBD07LD EBD07LE EBD07LF EBD07LG EBD07LH EBD07LI EBD07LJ EBD07LK EBD07LL EBD07LM EBD07LN EBD07LO EBD07LP EBD07LQ EBD07LR EBD07LS EBD07LT EBD07LU EBD07LV EBD07LW EBD07LX EBD07LY EBD07LZ EBD07MA EBD07MB EBD07MC EBD07MD EBD07ME EBD07MF EBD07MG EBD07MH EBD07MI EBD07MJ EBD07MK EBD07ML EBD07MM EBD07MN EBD07MO EBD07MP EBD07MQ EBD07MR EBD07MS EBD07MT EBD07MU EBD07MV EBD07MW EBD07MX EBD07MY EBD07MZ EBD07NA EBD07NB EBD07NC EBD07ND EBD07NE EBD07NF EBD07NG EBD07NH EBD07NI EBD07NJ EBD07NK EBD07NL EBD07NM EBD07NN EBD07NO EBD07NP EBD07NQ EBD07NR EBD07NS EBD07NT EBD07NU EBD07NV EBD07NW EBD07NX EBD07NY EBD07NZ EBD07OA EBD07OB EBD07OC EBD07OD EBD07OE EBD07OF EBD07OG EBD07OH EBD07OI EBD07OJ EBD07OK EBD07OL EBD07OM EBD07ON EBD07OO EBD07OP EBD07OQ EBD07OR EBD07OS EBD07OT EBD07OU EBD07OV EBD07OW EBD07OX EBD07OY EBD07OZ EBD07PA EBD07PB EBD07PC EBD07PD EBD07PE EBD07PF EBD07PG EBD07PH EBD07PI EBD07PJ EBD07PK EBD07PL EBD07PM EBD07PN EBD07PO EBD07PP EBD07PQ EBD07PR EBD07PS EBD07PT EBD07PU EBD07PV EBD07PW EBD07PX EBD07PY EBD07PZ EBD07QA EBD07QB EBD07QC EBD07QD EBD07QE EBD07QF EBD07QG EBD07QH EBD07QI EBD07QJ EBD07QK EBD07QL EBD07QM EBD07QN EBD07QO EBD07QP EBD07QQ EBD07QR EBD07QS EBD07QT EBD07QU EBD07QV EBD07QW EBD07QX EBD07QY EBD07QZ EBD07RA EBD07RB EBD07RC EBD07RD EBD07RE EBD07RF EBD07RG EBD07RH EBD07RI EBD07RJ EBD07RK EBD07RL EBD07RM EBD07RN EBD07RO EBD07RP EBD07RQ EBD07RR EBD07RS EBD07RT EBD07RU EBD07RV EBD07RW EBD07RX EBD07RY EBD07RZ EBD07SA EBD07SB EBD07SC EBD07SD EBD07SE EBD07SF EBD07SG EBD07SH EBD07SI EBD07SJ EBD07SK EBD07SL EBD07SM EBD07SN EBD07SO EBD07SP EBD07SQ EBD07SR EBD07SS EBD07ST EBD07SU EBD07SV EBD07SW EBD07SX EBD07SY EBD07SZ EBD07TA EBD07TB EBD07TC EBD07TD EBD07TE EBD07TF EBD07TG EBD07TH EBD07TI EBD07TJ EBD07TK EBD07TL EBD07TM EBD07TN EBD07TO EBD07TP EBD07TQ EBD07TR EBD07TS EBD07TT EBD07TU EBD07TV EBD07TW EBD07TX EBD07TY EBD07TZ EBD07UA EBD07UB EBD07UC EBD07UD EBD07UE EBD07UF EBD07UG EBD07UH EBD07UI EBD07UJ EBD07UK EBD07UL EBD07UM EBD07UN EBD07UO EBD07UP EBD07UQ EBD07UR EBD07US EBD07UT EBD07UU EBD07UV EBD07UW EBD07UX EBD07UY EBD07UZ EBD07VA EBD07VB EBD07VC EBD07VD EBD07VE EBD07VF EBD07VG EBD07VH EBD07VI EBD07VJ EBD07VK EBD07VL EBD07VM EBD07VN EBD07VO EBD07VP EBD07VQ EBD07VR EBD07VS EBD07VT EBD07VU EBD07VV EBD07VW EBD07VX EBD07VY EBD07VZ EBD07WA EBD07WB EBD07WC EBD07WD EBD07WE EBD07WF EBD07WG EBD07WH EBD07WI EBD07WJ EBD07WK EBD07WL EBD07WM EBD07WN EBD07WO EBD07WP EBD07WQ EBD07WR EBD07WS EBD07WT EBD07WU EBD07WV EBD07WW EBD07WX EBD07WY EBD07WZ EBD07XA EBD07XB EBD07XC EBD07XD EBD07XE EBD07XF EBD07XG EBD07XH EBD07XI EBD07XJ EBD07XK EBD07XL EBD07XM EBD07XN EBD07XO EBD07XP EBD07XQ EBD07XR EBD07XS EBD07XT EBD07XU EBD07XV EBD07XW EBD07XX EBD07XY EBD07XZ EBD07YA EBD07YB EBD07YC EBD07YD EBD07YE EBD07YF EBD07YG EBD07YH EBD07YI EBD07YJ EBD07YK EBD07YL EBD07YM EBD07YN EBD07YO EBD07YP EBD07YQ EBD07YR EBD07YS EBD07YT EBD07YU EBD07YV EBD07YW EBD07YX EBD07YY EBD07YZ EBD07ZA EBD07ZB EBD07ZC EBD07ZD EBD07ZE EBD07ZF EBD07ZG EBD07ZH EBD07ZI EBD07ZJ EBD07ZK EBD07ZL EBD07ZM EBD07ZN EBD07ZO EBD07ZP EBD07ZQ EBD07ZR EBD07ZS EBD07ZT EBD07ZU EBD07ZV EBD07ZW EBD07ZX EBD07ZY EBD07ZZ

B3418/13
Coord: 5114N00347E
From: 1311260716 Till: 1311291541
Schedule: DAILY SS-SR
Text: ASSENEDE PSN 511401N0034651E CIVIL
UAV OPS RADIUS 0,5NM EHAA FIR NOT INCLUDED
Lower: GND Upper: 500FT AGL

BRUSSELS (BRU) EBBB-CTR - BRUSSEL

504734N 040358.5E

Base Layer
OpenStreetMap none

Overlays
Aerodromes layer Mouse effects active on Aerodromes Layer
NOTAM layer Mouse effects active on NOTAM Layer
Zones layer

dailywarnings (1).pdf pibMapSelectionData.do atisVolmetToPdf.do

Alle downloads weergeven...

Statistics based on: "Deep log analyzer"
Publication Date: 17/11/2013 - 21/11/2013 - details about ATIS-VOLMET index p.7
Report for website: http://www.belgocontrol.be
Report Date Interval: 1/1/2013 - 1/1/2013 (24 days)

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AIP

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Shortcuts

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- ✦ [AIS Contact](#)
- ✦ [Meteo service](#)
- ✦ [Meteo Contact](#)
- ✦ [Glossary](#)
- ✦ [AIS Links](#)
- ✦ [Meteo Links](#)
- ✦ [Disclaimer](#)

Zoom in



✦ [Leaflet: Airspace infringement \(pdf, 1MB\)](#)



✦ [Safety Reminder on Skybrary:](#)

Altimeter setting error during climb out (24 June 2013)

Leaflet : Airspace infringements



Airspace infringements are intrusions into an area of controlled airspace without prior authorization from the air traffic control unit in charge. These incidents mainly concern VFR (Visual Flight Rules) flights and were in 2012 the 2nd cause of incident in the Belgian airspace behind the recent phenomenon of laser pointers. A new leaflet is now available and includes key information in order to avoid airspace infringements and to improve safety in the Belgian airspace.

[Download the leaflet : Airspace infringements in the Belgian airspace](#)

LOGIN

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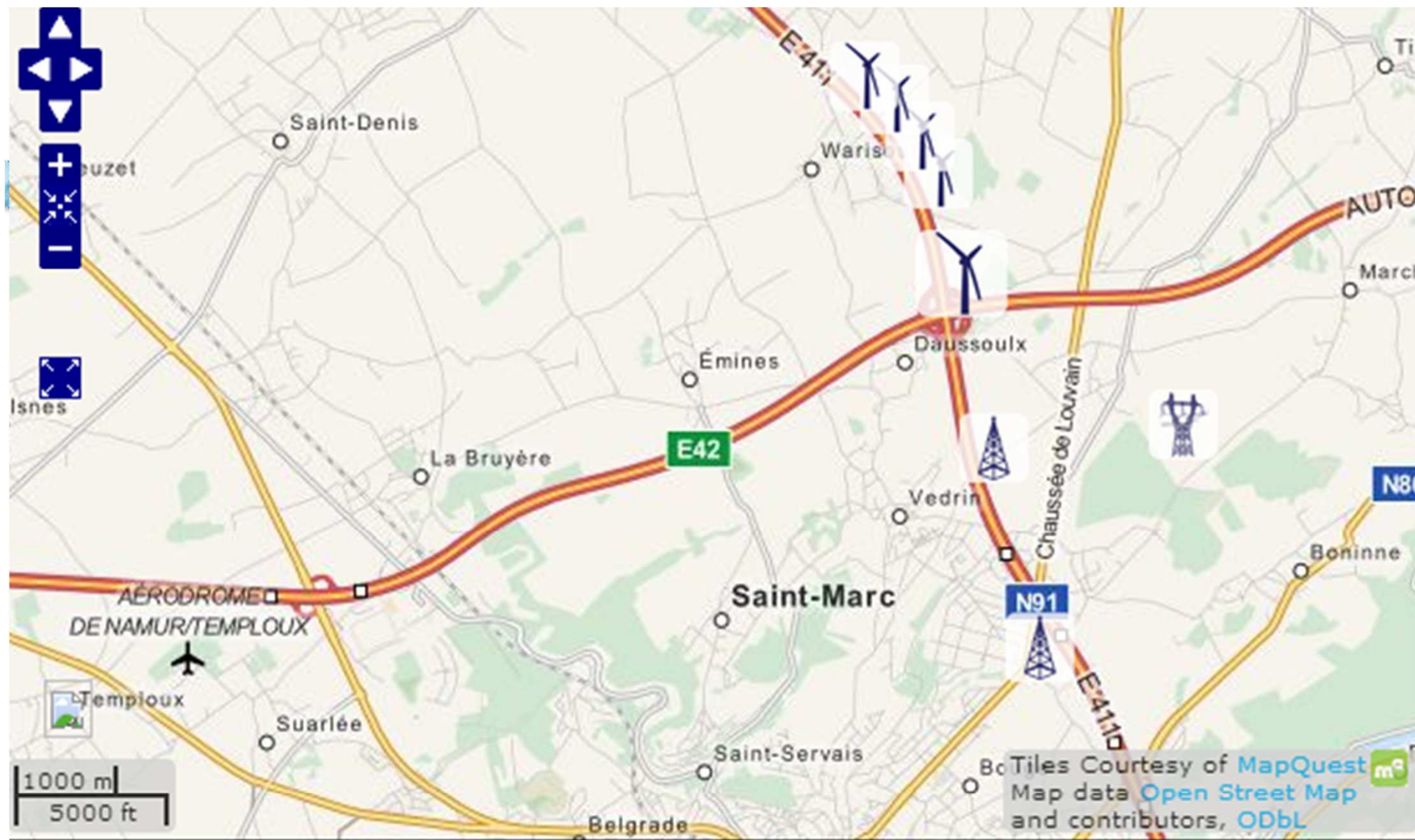


A B C D E F G H I J K L M N O P Q R S
T U V W X Y Z

Bruxelles/Brussel (Bruxelles)

504131.5N 020739.4E

Activate mouse/touch effects on aerodromes



A B C D E F G H I J K L M N O P Q R S
T U V W X Y Z

Temploux (Namur)

NAME: EBBU03772
HEIGHT: 132 m
ELEV: 332 m
TYPE: WINDMILL
COORD : 503129N 0045300E

503129.6N 045300.2E
Activate mouse/touch
aerodromes

