

Digital NOTAM Workshop

EUROCONTROL Keynote

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Brussels, 19 - 20 May 2014



The European Organisation for the Safety of Air Navigation

From idea to implementation

- 1997 – first AIXM version
 - “digital AIP”
 - 2003 – EAD start of operations
- 2003 – “xNOTAM” initial ideas
 - using AIXM 4.5
- 2002 – start of Eurocontrol/FAA AIXM and Digital NOTAM cooperation
- 2008 – AIXM 5.0
 - Embedded Digital NOTAM capabilities
- 2009 – 2014
 - Trials, workshops, pilot implementations



Progress since 2010 Workshop

- 2011 – Event Specification 1.0
 - Most common “NOTAM situations”
- 2012 – 2014 OGC Test Beds
 - Engeneering Reports
 - Digital NOTAM services WFS, SLD, WSN, etc.
- Industry prototypes
 - IDS, Comsoft, Thales, Frequentis, Luciad, Snowflake Software, MonitorSoft, etc.
- 2012 – FAA FNS-NDS system deployment
- 2014 → Eurocontrol Digital SNOWTAM WFS service (trial)

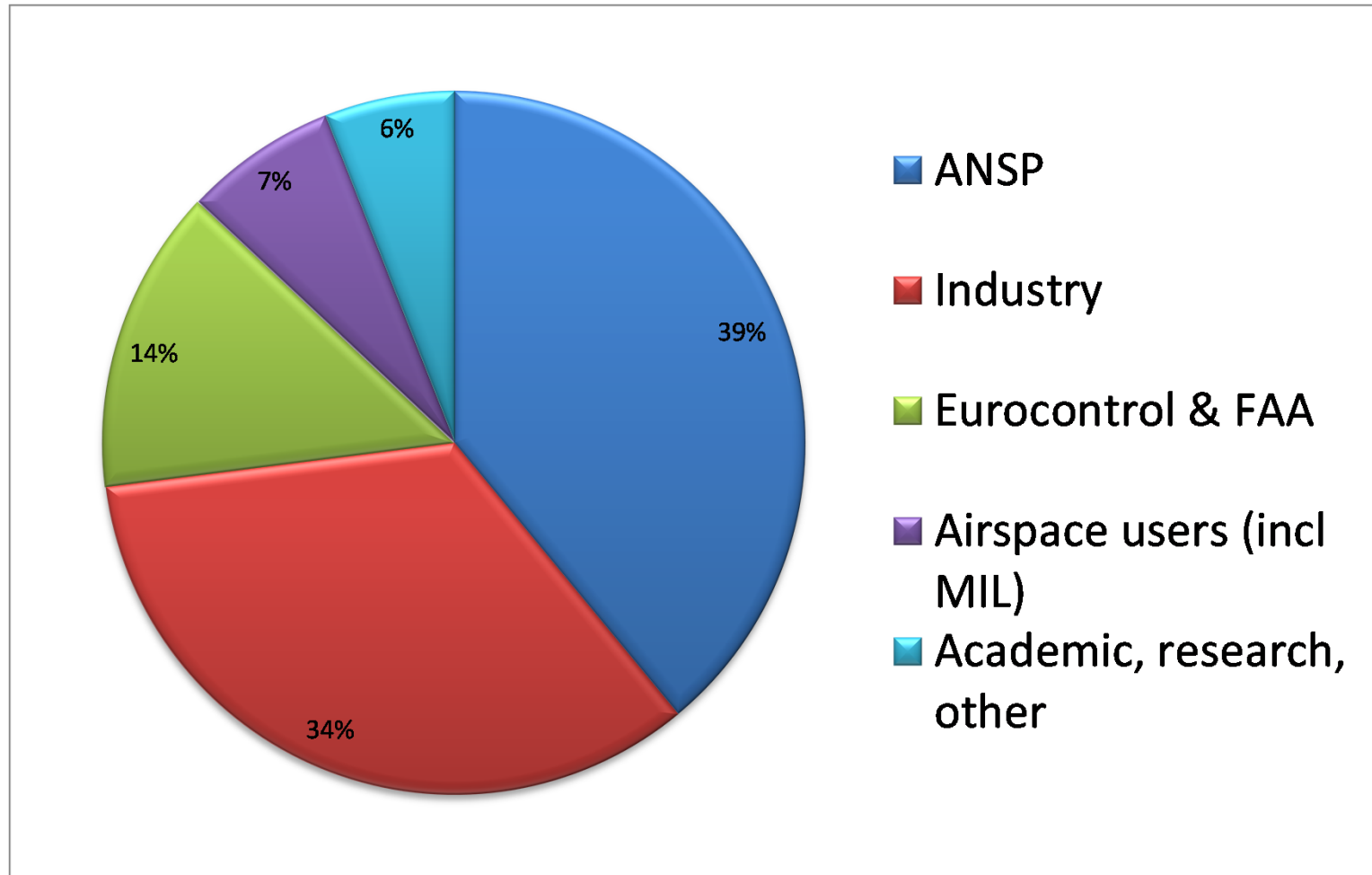


Workshop objectives

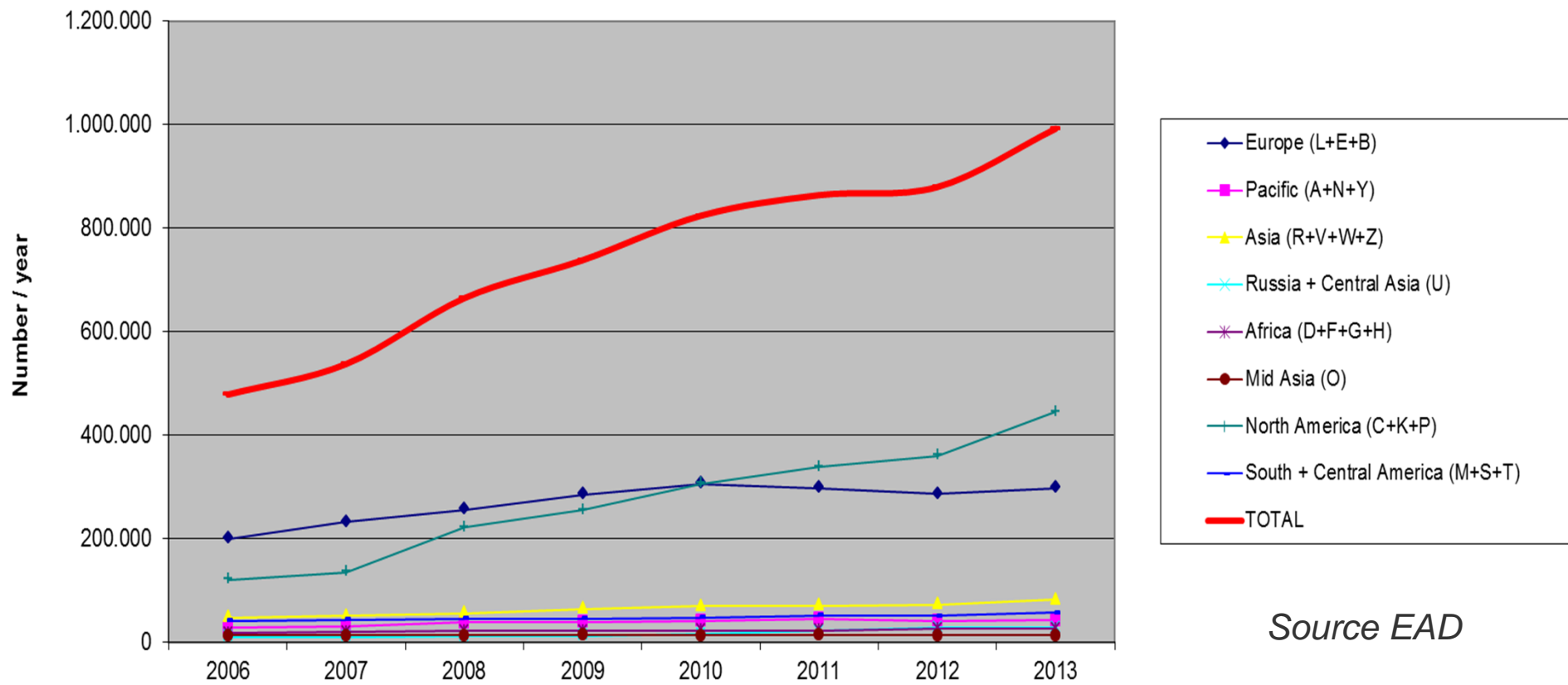
- Roll-out Event Specification 2.0
- Collect feedback from implementations
- Discuss any perceived/real issues



Workshop Participants



Digital NOTAM – why necessary?



Source EAD



Current NOTAM - graphical limitations

M1691/14 NOTAMR M1668/14

Q) EBBU/QRTCA/IV/BO/W/045/095/5009N00455E039

A) EBBU

B) 1405051305 C) 1405090950

D) MAY 05 1300-1350, 06 1000-1050, 07 1100-1150, 08 1000-1050
AND 09 0900-0950

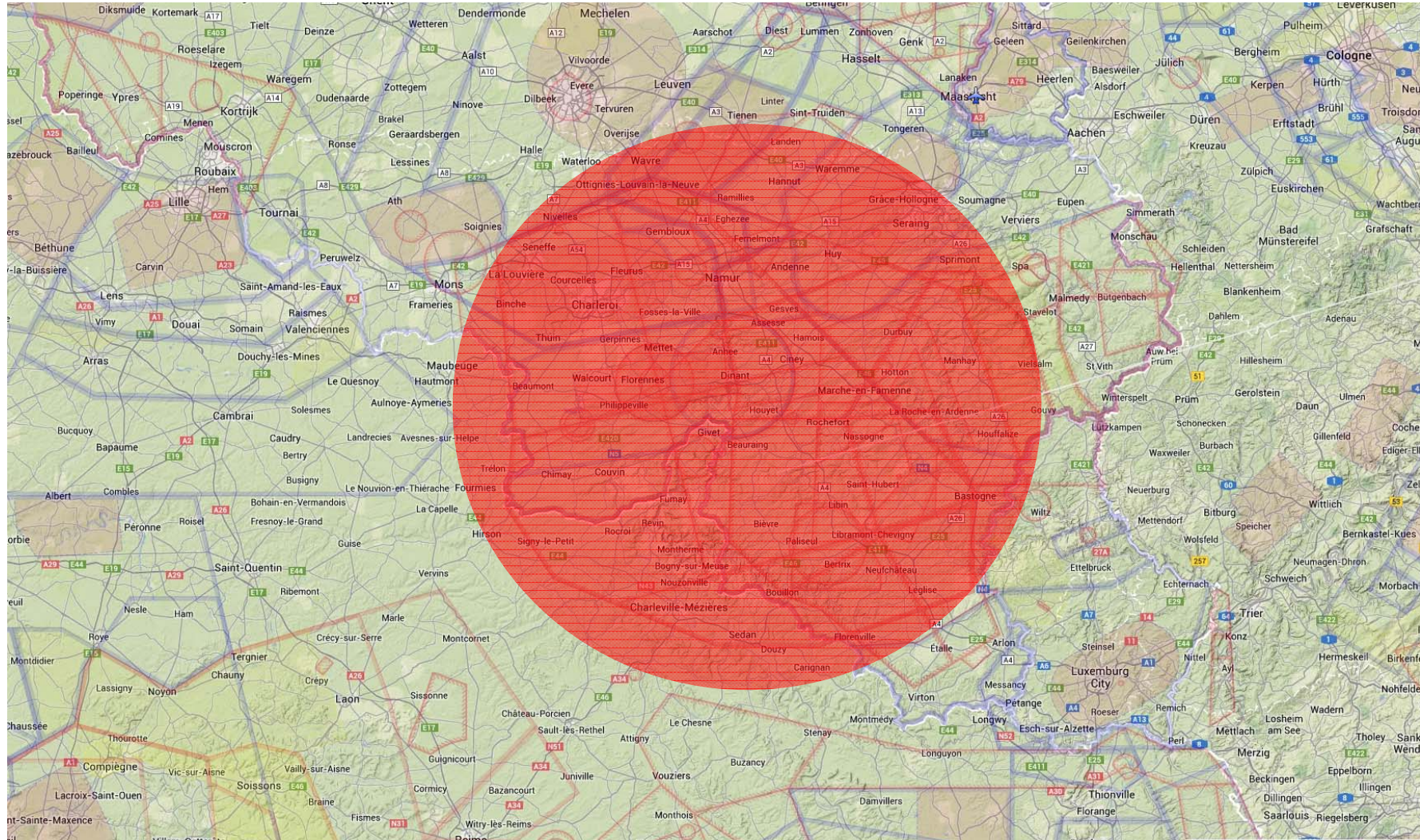
E) TEMPO SEGREGATED AREA **EBTSA26B** ACTIVATED. THE
TSA26B IS PERMEABLE DURING ITS ACT FOR TRAFFIC IN AND
OUT OF EBFS AND FOR ACFT IN EMERGENCY.

F) 4500FT AMSL

G) FL095

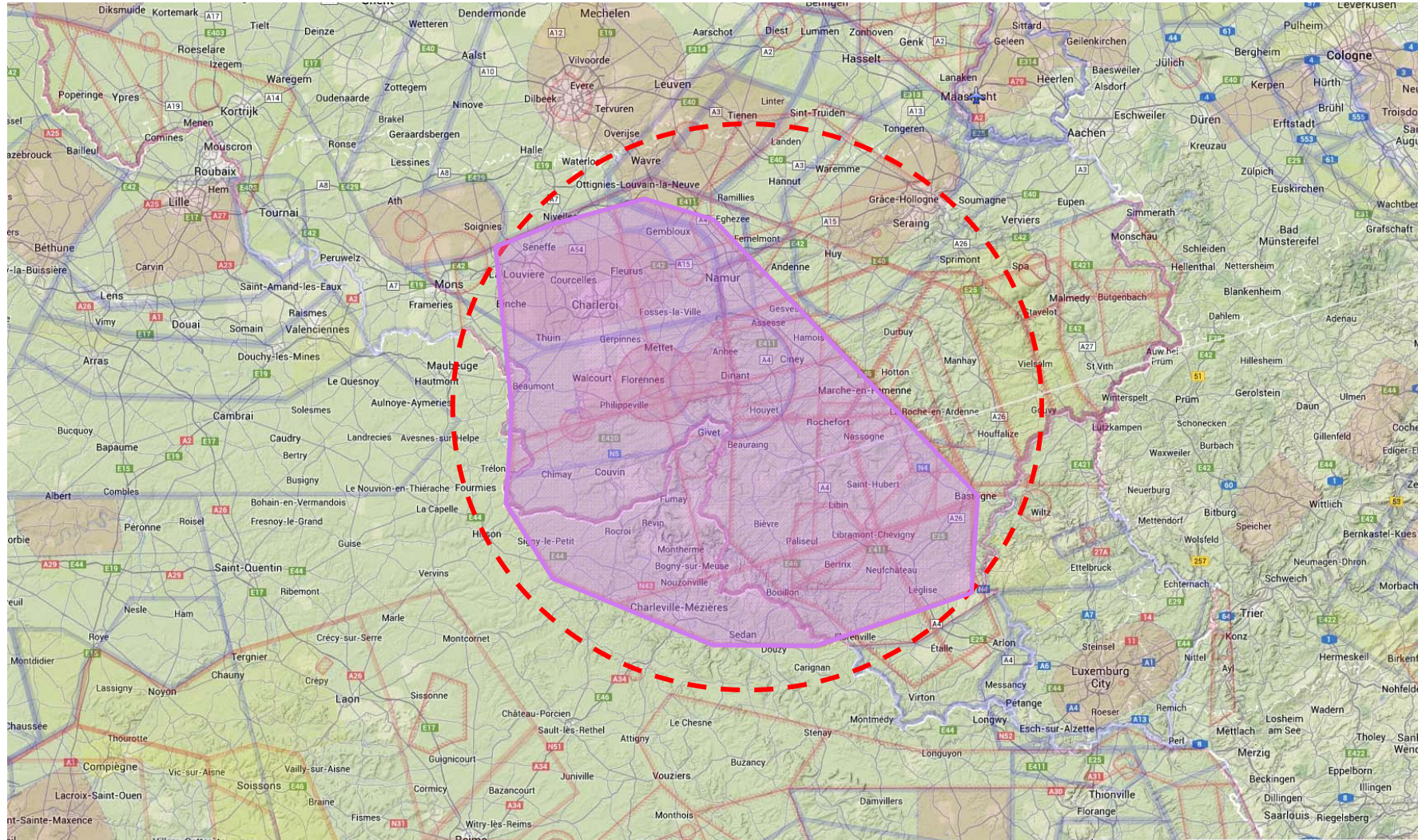


Graphic NOTAM – current representation based on Q line (centre/radius)



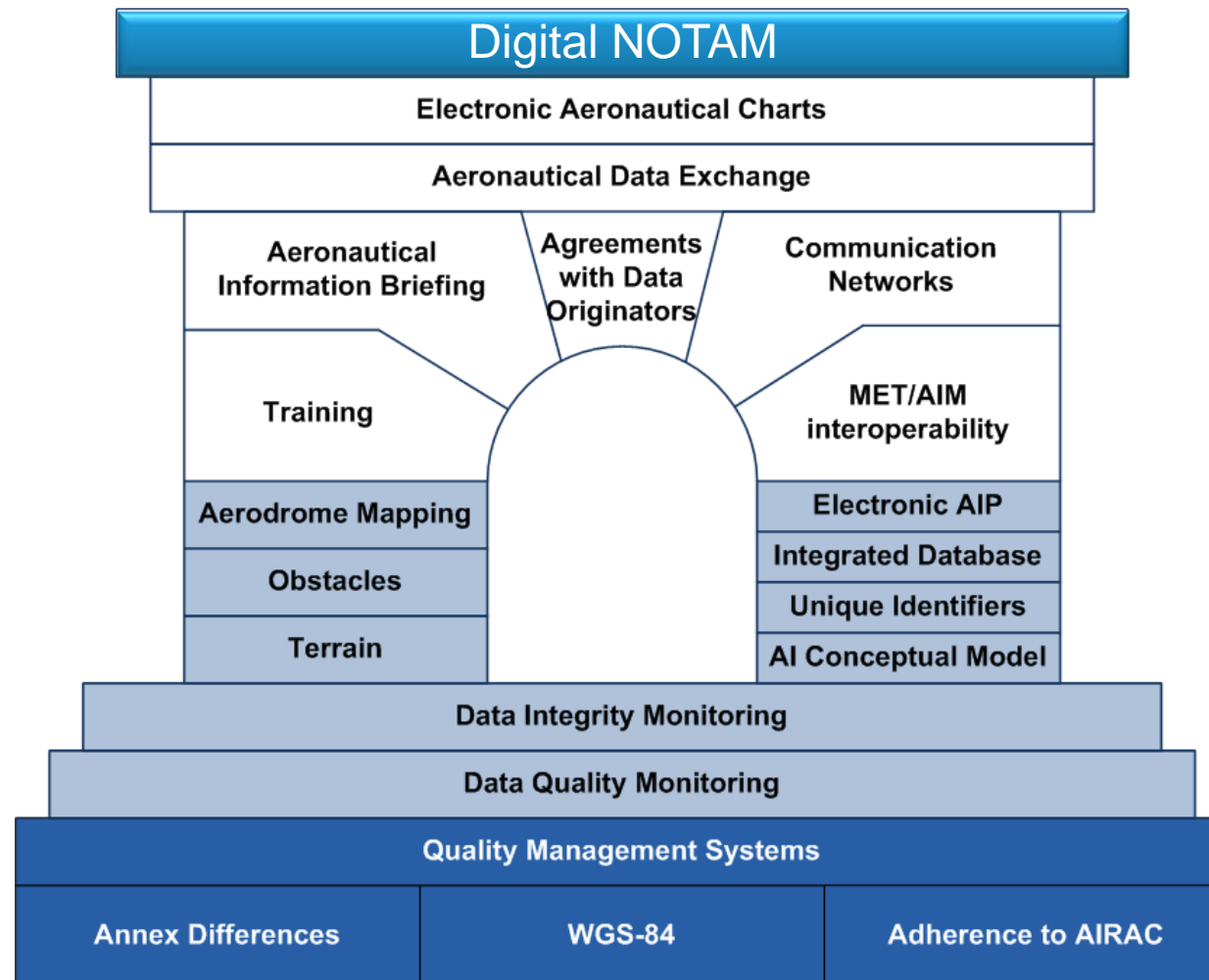


Graphic NOTAM – the real geometry of the area (Digital NOTAM)





ICAO AIS to AIM Roadmap



In practice

- **AIS2AIM Roadmap**



- **Anx15 - Amdt 36** – Appl. date 2010

- Automation, quality, eAIP, etod <<\$\$

- **Anx 15 - Amdt 37** – Appl. date 2013

- AIM inclusion, Roles & Responsibilities, Terminology, IM grouping
- Automation >> & Digital Data exchange
- Etod tuning & Airport Mapping Data Bases (AMDBs) inclusion
- Integrity Values out (classifications kept)
- AIP Template, SNOWTAM format enhancements

- **Guidance material proposals**



Annex 15 – Coming soon

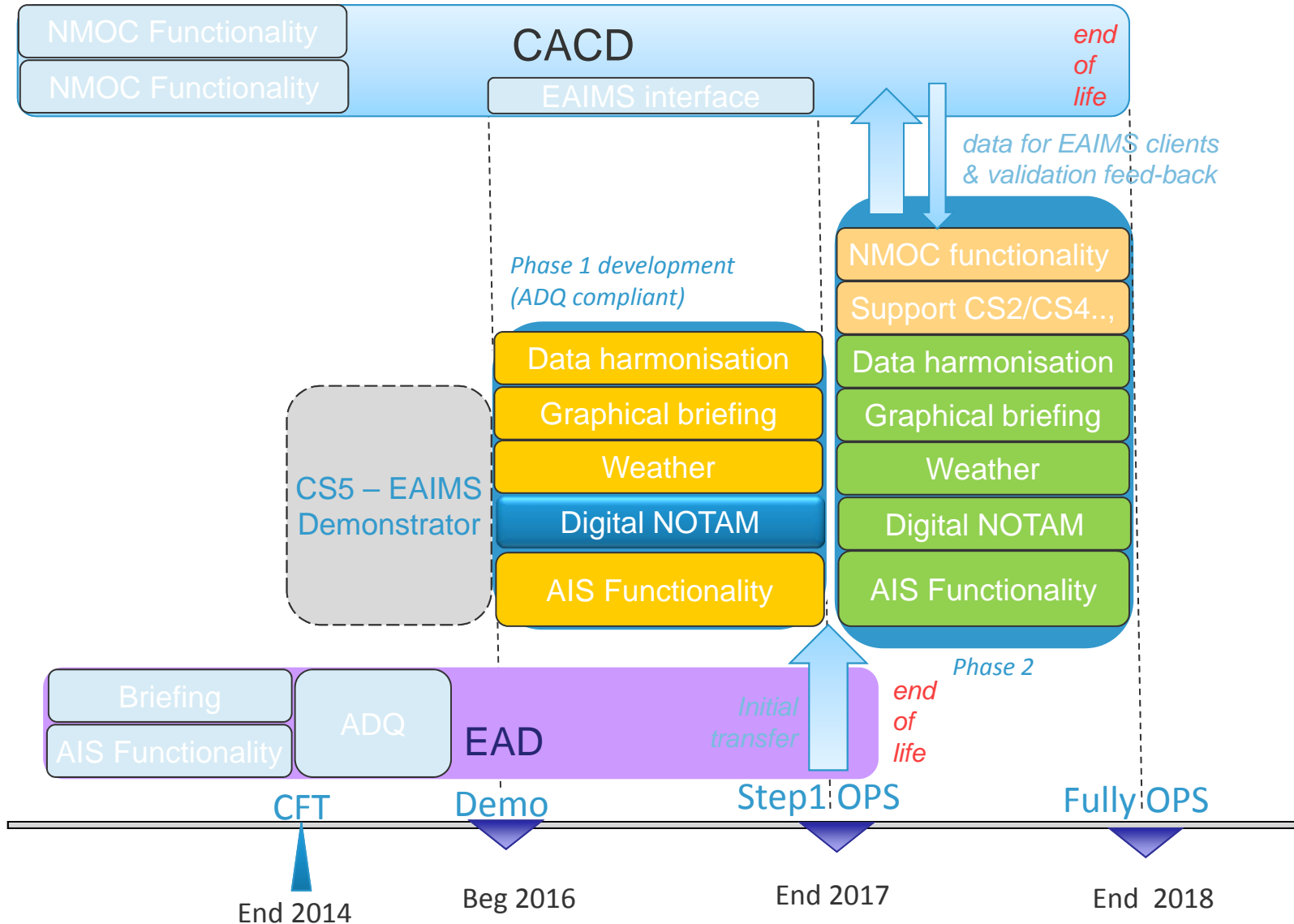


- **Digital Data services**

- **Several** Datasets : Aeronautical (AIP), Terrain, Obstacles, AerodromeMapping, Instrument Flight Procedure Design
- "**progressive** introduction of the requirements for digital data publication“
- "**incentive** - allowed to remove certain AIP tables, if data is made available digitally“
- Short-term operational sign update [= **Digital NOTAM**]



Digital NOTAM in Europe



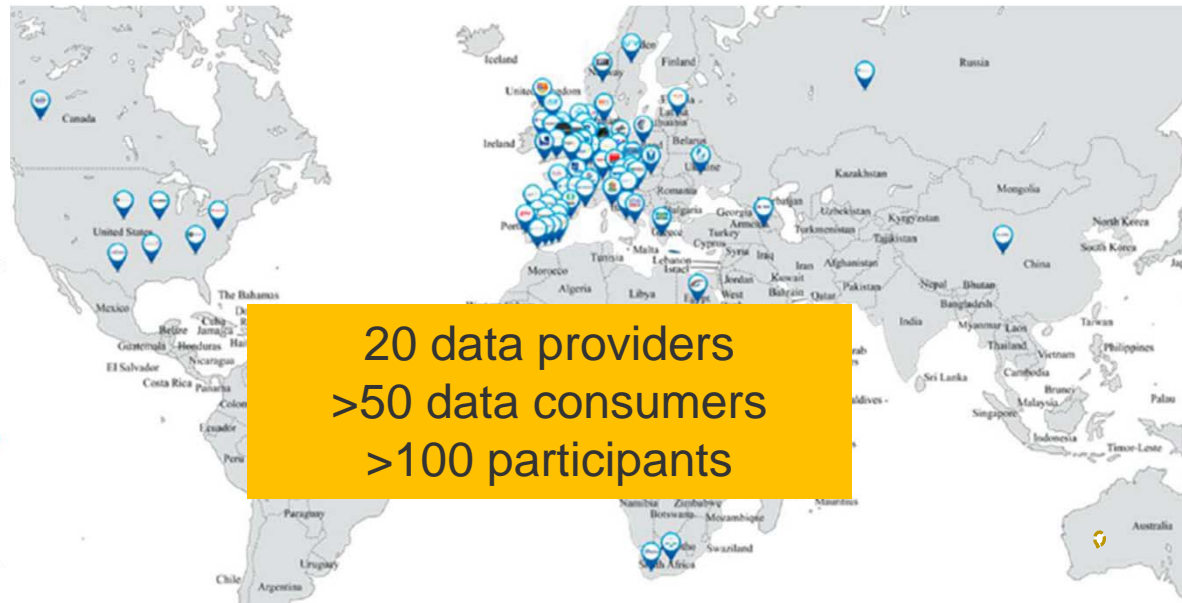
SESAR SWIM Masterclass

A global SWIM Sandbox

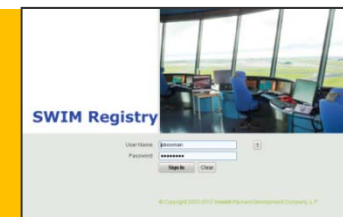
During 6 months 'play' together in a Non-Operational environment providing/consuming SWIM Services



2013 Participants



- Aeronautical, Meteorological, Flight, Environmental, Surveillance, Aircraft, ... services
- All in registry





SESAR SWIM Masterclass 2014



Sign up for the 2014 SESAR SWIM Master Class Challenge

Driven by the success of previous editions, we are delighted to announce the launch of the third SESAR SWIM Master Class on **24 June 2014**.

Enabling global interoperability in ATM through SWIM

WANTED

The SESAR SWIM Master Class is looking for three categories of participants:

1. Developers of SWIM enabled ATM applications
2. Developers of SWIM enabled ATM information services
3. Providers of SWIM compliant infrastructure (new)

SESAR SWIM Master Class is a platform for learning and sharing and the participation of observers is therefore very much encouraged.

- Please participate providing/consuming Digital NOTAM data !

Workshop objectives

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