Global Harmonization Through Collaboration

Key note EUROCONTROL

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AIR TRANSPORTATION INFORMATION EXCHANGE CONFERENCE - (FEATURING AIXM, WXXM AND FIXM)

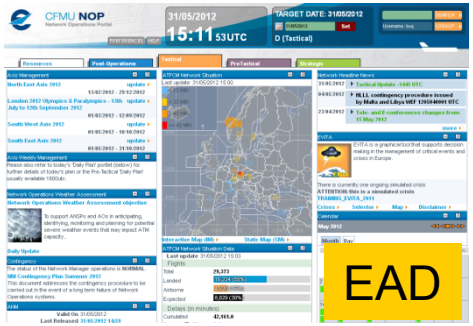
August 28, 2012 - August 31, 2012
NOAA Auditorium and Science Center
Silver Spring, Maryland

Today's News from Europe

- Some real good news and some less
- Exchange models - Elevator brief & The Recipe
- At your Service
- Challenges
- Look into the future

Some Real Good News

Central Flow Management Unit (CFMU) → Network Manager (NM)

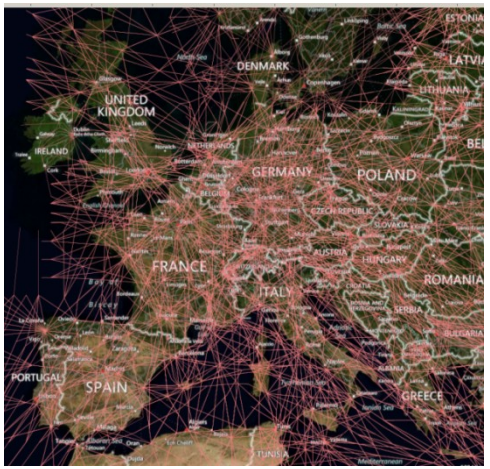


EAD

Network Operations Portal (NOP)
A website **&** B2B web-services

B2B

AIXM5.1 feed – Live !



We know what SWIM is !

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"The 'horizontal' sup… ss, who…

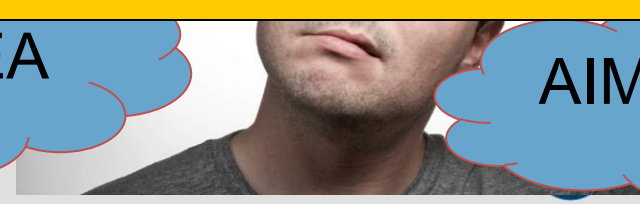
SESAR Definition of SWIM:

"SWIM consists of standards, infrastructure & governance enabling the management of ATM information and its exchange between qualified parties via interoperable services."

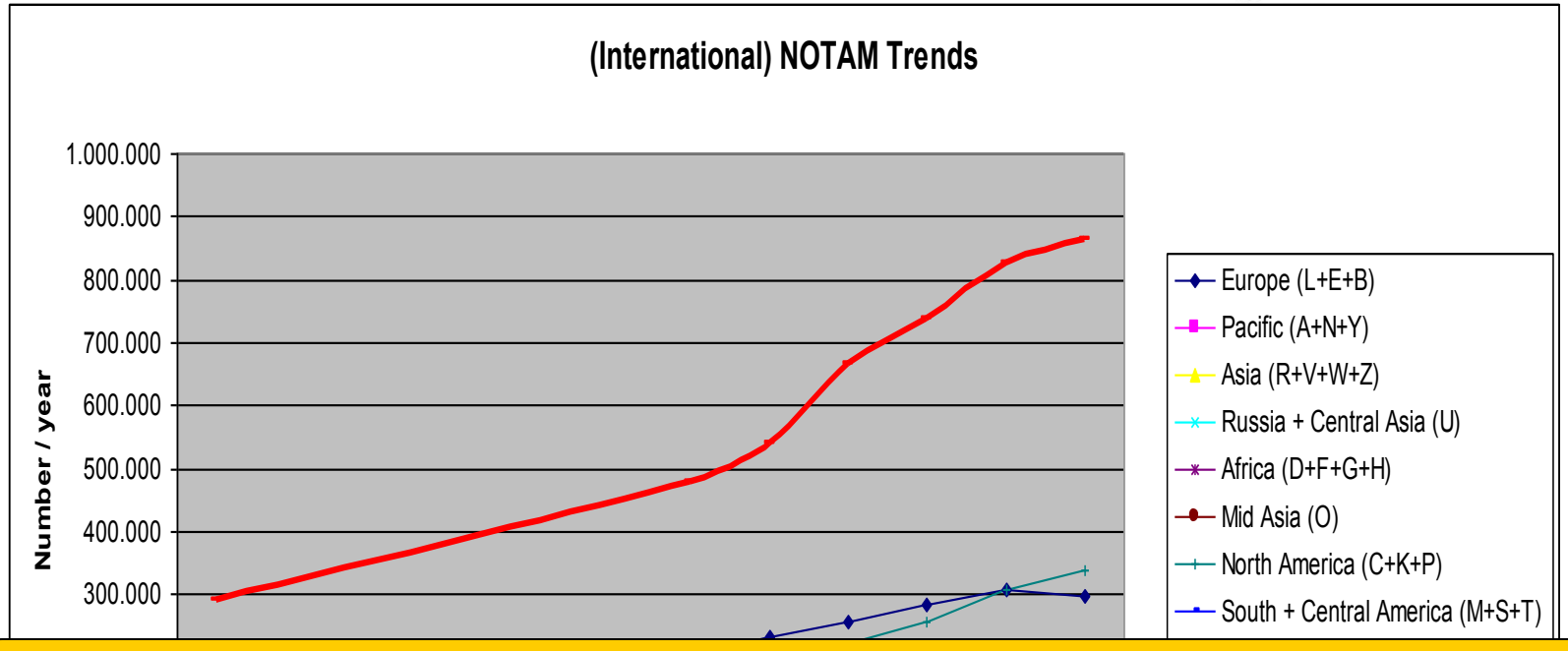
Source: ATM Strate…

SOA/EA

AIM/NOP



Some not so good news



- **Safety concerns !**
- **Accelerate Digital NOTAM & Review of NOTAM system**
- **Applications !**
- **IM approach**

Exchange models Elevator Brief

AIXM

De-facto global standard
ICAO Anx15 & EU Law
Change Control Board

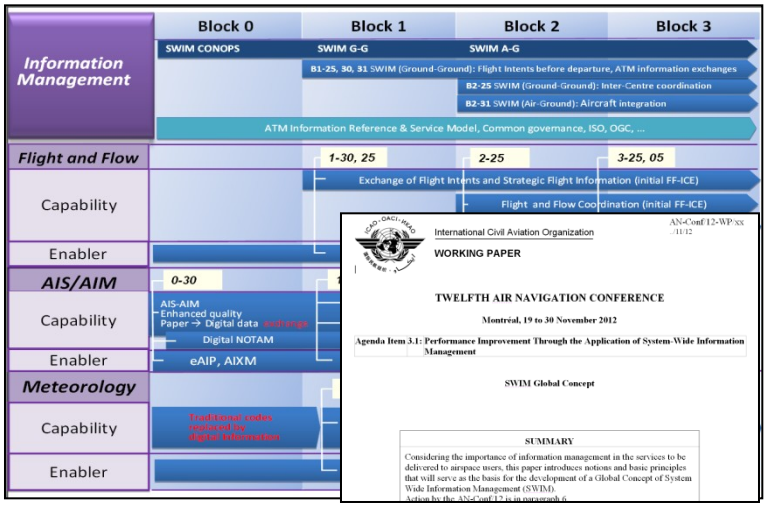
WXXM

Data becoming available
ICAO Anx3/WMO

FIXM

+- V1
European coordination platform
Lets Plan !

ICAO Blocks / Roadmaps / SWIM



Exchange models
The Recipe behind

A silk revolution & Growing

New challenges

Increased Enterprise thinking (G2G)

Need for a common operati

Bridg

(AMXM, AIDX, Asterix, …)

One logic – Many solutions

Eur answer

ATM Information Refence Model (AIRM)

- Complementary, Semantic, ATM wide interoperability
- IM hook to SWIM compliance

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SESAR AIRM

AIRM

AIRM – The service Payload

The road to Services

Not easy

From religion to opportunism

Some examples

- AirportMap
- AirportMetCapacity
- VolcAsh
- AirspaceManagement
- DigNOTAM
- AMAN/DMANCoupling
- FlightServices
- …

How real is this all ?

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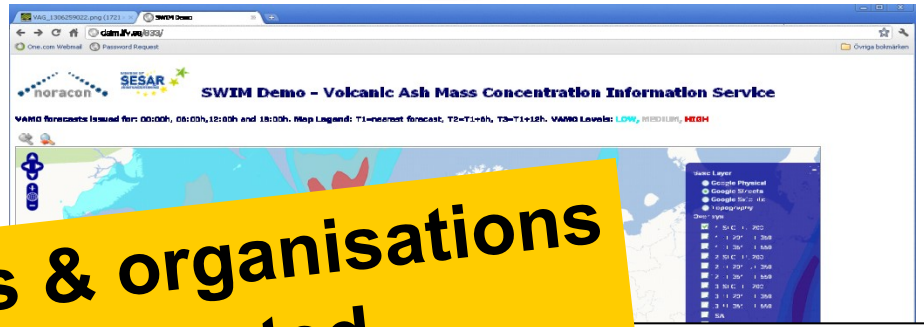
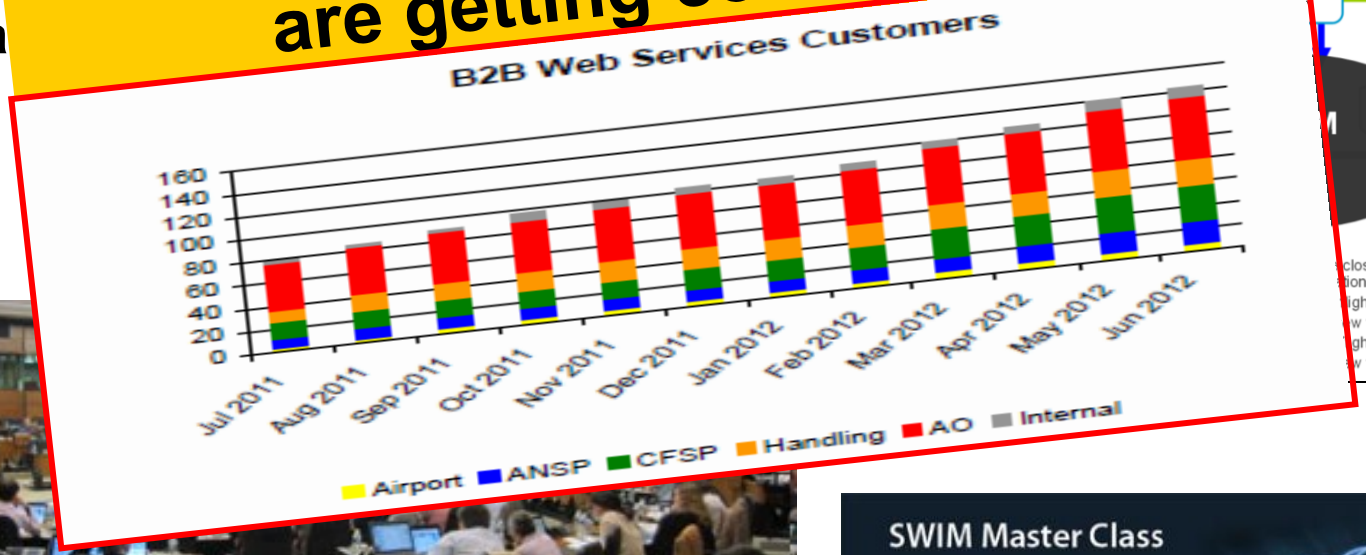
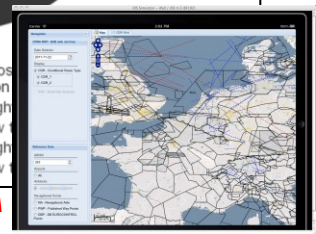


Dozens of systems & organisations are getting connected

Yea





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Global dimension

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AIRM

RTCA

State vs Industry

OGC
Open Geospatial Consortium, Inc.

Time for a High Level Deal !
- ATM Information Wide
- <u>What</u> before <u>Who/How</u>

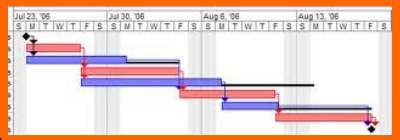
NextGen

Global XMs

International Standardisation Checklist

Flexibility

Phasing



Open

Inclusive

Early Adopters

A look into the future

‘Or why to come back next year’

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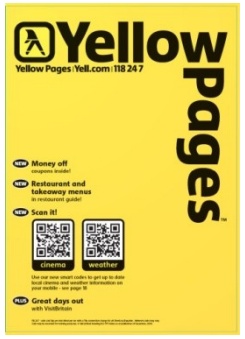

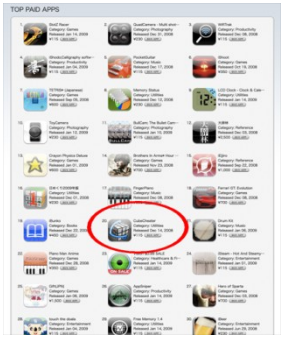

Registry

Pilot, Survey, Interop

First interregional trials ?

SWIM Compliance levels

So far: ‘Use XMs, be SOA, max. COTS techno’

Towards: AIRM, Standard Services, Registry

→ Global IM Architecture framework

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Conclusion

- ATM Data/Information/Services more than ever holding the key to the future

- In terms of implementation
  - Unlock the data
  - The XMs are safe investments (but only half the job)
  - Be SOA - Publish / Consume services

- Lets go for a truly global ATM …

Contact Information

- **EUROCONTROL**

  http://www.eurocontrol.int/im
  http://im.eurocontrol.int/wiki

  Click here to access the NOP B2B

- **SESAR Joint Undertaking**

  http://www.sesarju.eu/swim

- **E-mail** paul.bosman@eurocontrol.int

Questions?

Have a nice day - unless you've made other plans