

LATVIAN AIR NAVIGATION SERVICES

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Head of International Affairs

- **Functional Airspace Blocks – What, Why, When?**
- **FABs Progress**
 - FABs programmes in EUROPE
- **NEFAB**
- **Free Route Airspace**
- **Future development**

- The FAB concept was developed in the 1st legislative package of the Single European Sky (SES I)
- The **Single European Sky** is a European Commission initiative by which the design, management and regulation of airspace will be coordinated throughout the European Union.
- The Single European Sky (SES) initiative was launched in 2000 by the European Commission following the severe delays to flights in Europe experienced in 1999.

Insufficient efficiency of Air Navigation Service provision in EUROPE:

27 national authorities

38 en-route service providers

64 European ACCs (ECAC)

In comparison with the United States, which covers similar sized airspace:

One authority and provider

70% more flights

38% less staff

Functional Airspace Blocks – What, Why, When?

What?

- FAB means an airspace block based on operational requirements and established regardless of State boundaries, where:
 - *The provision of air navigation services is performance-driven;*
 - *Enhanced cooperation among air navigation service providers, or*
 - *an integrated provider.*

Functional Airspace Blocks – What, Why, When?

Why?

- SES-2 legislative package:
 - *Airspace is a common resource, but ATM is still organised in a fragmented way*
 - *Each service provider procures tailored equipment and most maintain their own training schools and all other support functions*
 - *Functional Airspace Blocks (FABs) is a key mechanism of the Single European Sky (SES) and to enable this increased cooperation and integration leading to a more rational organisation of airspace and service provision poised to meet the performance expectations of the **airspace users***
- Regulation (EC) N° 550/2004, amended by Regulation (EU) N° 1070/2009

When?

- Functional Airspace Blocks (FABs) had to be implemented by **4 December 2012**.

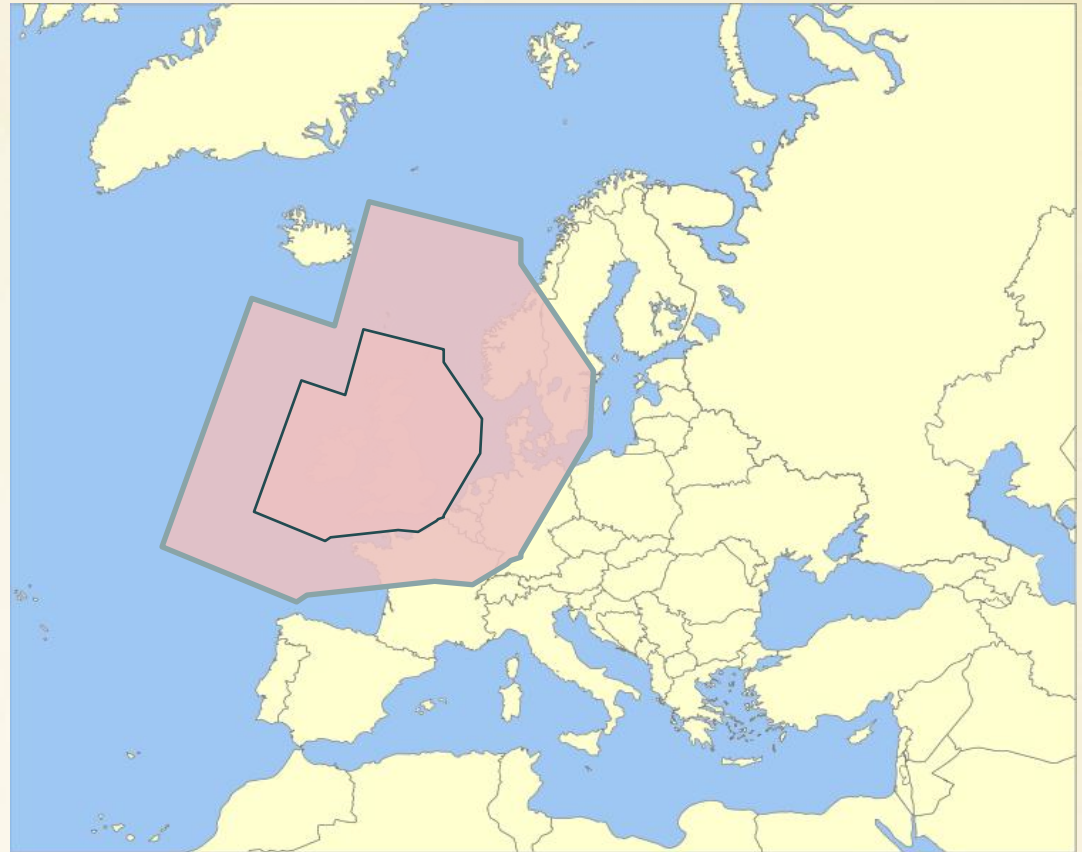
■ FAB Programmes



■ FAB Progress Report

- **The United Kingdom – Ireland FAB**

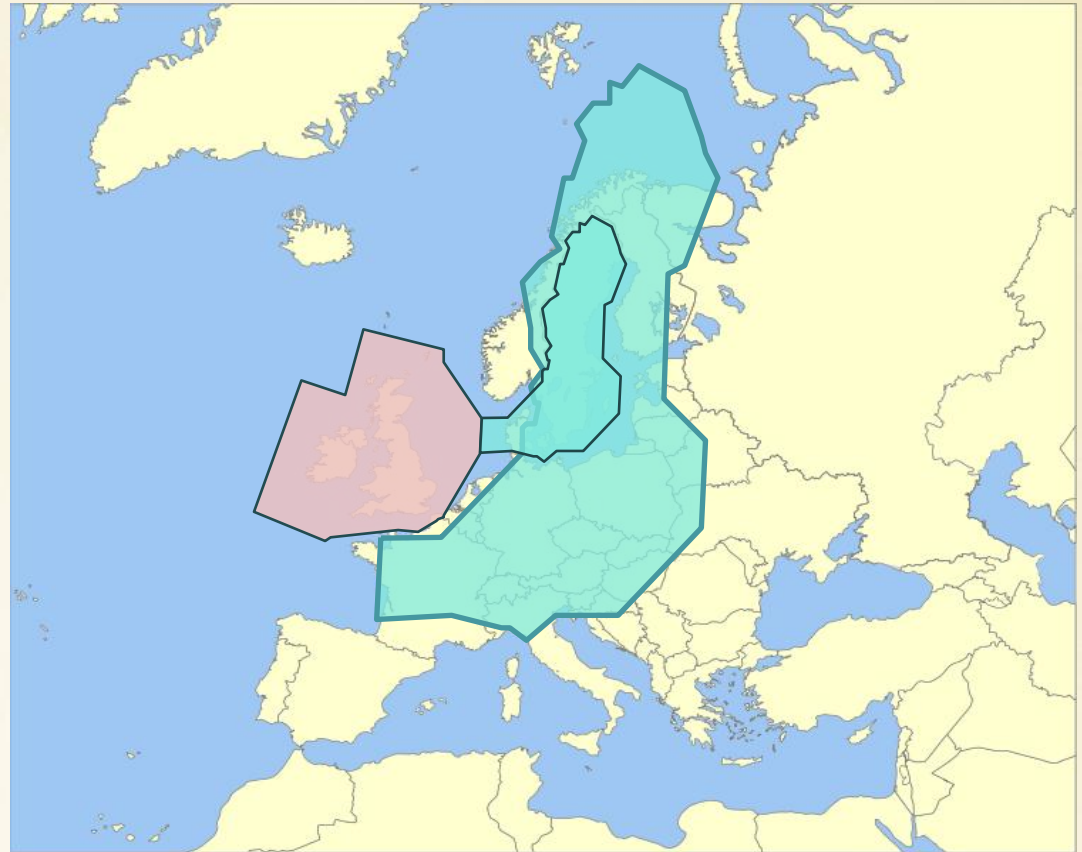
Covering the airspace under their responsibility excluding the Shanwick Oceanic FIR



■ FAB Progress Report

- **The United Kingdom – Ireland FAB**
- **The Danish – Swedish FAB**

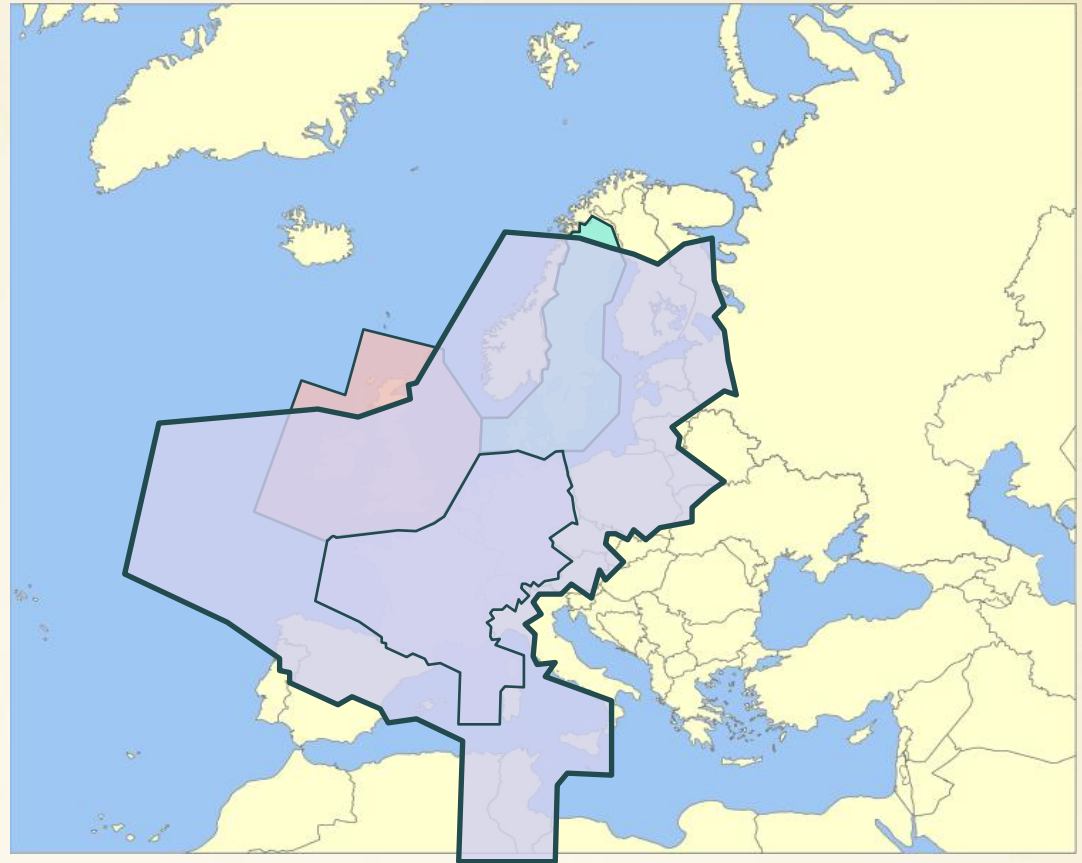
Denmark and Sweden.
Greenland area (Sønderstrøm FIR)
excluded from the FAB area and is
controlled by the Icelandic ANSP



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- **The FAB Europe Central (FABEC)**

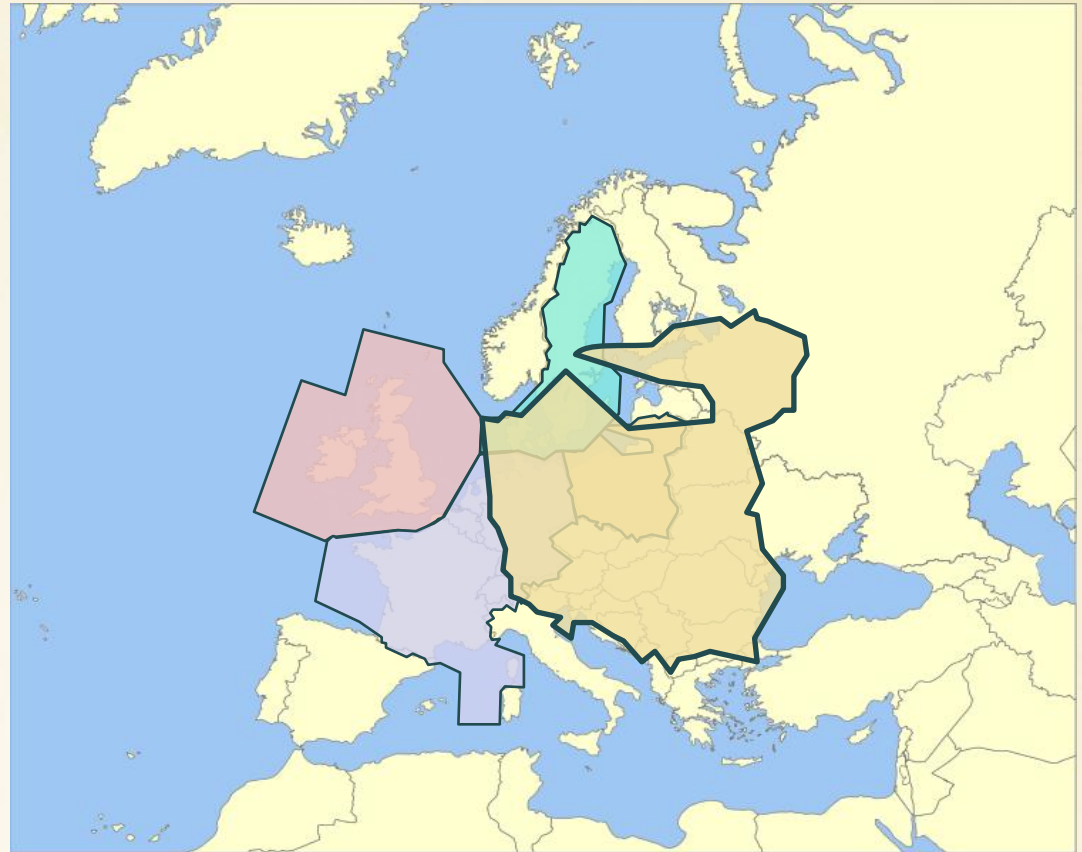
Belgium, France, Germany,
Luxembourg, the Netherlands
and Switzerland



■ FAB Progress Report

- **The United Kingdom – Ireland FAB**
- **The Danish – Swedish FAB**
- **The FAB Europe Central (FABEC)**
- **The Baltic FAB**

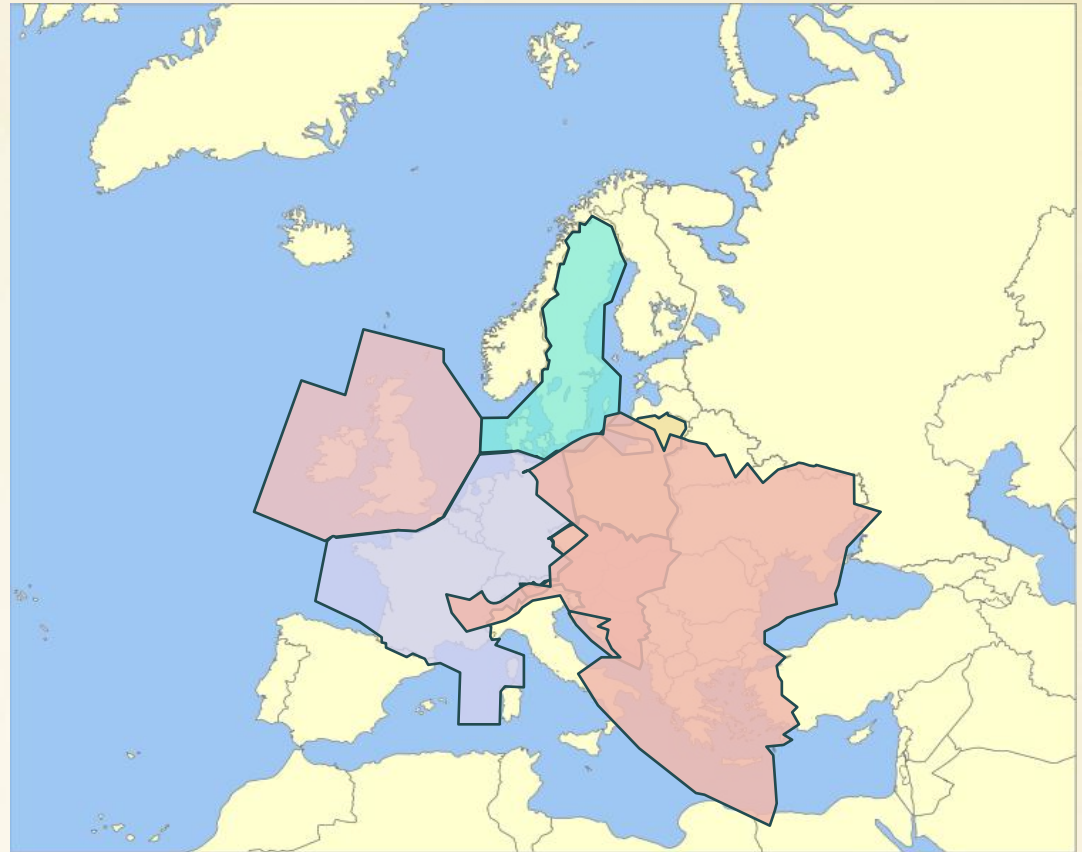
Lithuania and Poland



■ FAB Progress Report

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- **The FAB Europe Central (FABEC)**
- **The Baltic FAB**
- **The FAB Central Europe (FAB CE)**

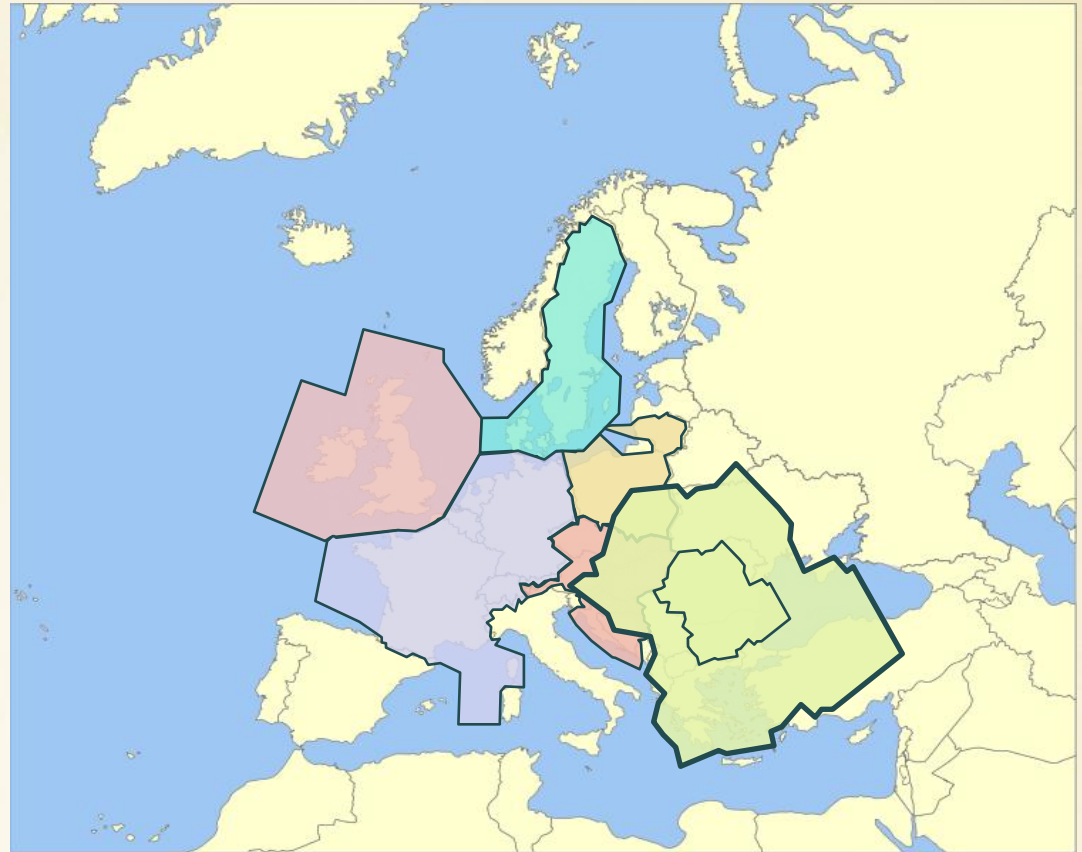
The Republic of Austria, Bosnia & Herzegovina, the Republic of Croatia, Czech Republic, the Republic of Hungary, the Slovak Republic and the Republic of Slovenia



■ FAB Progress Report

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- **Danube FAB**

Romania and Bulgaria

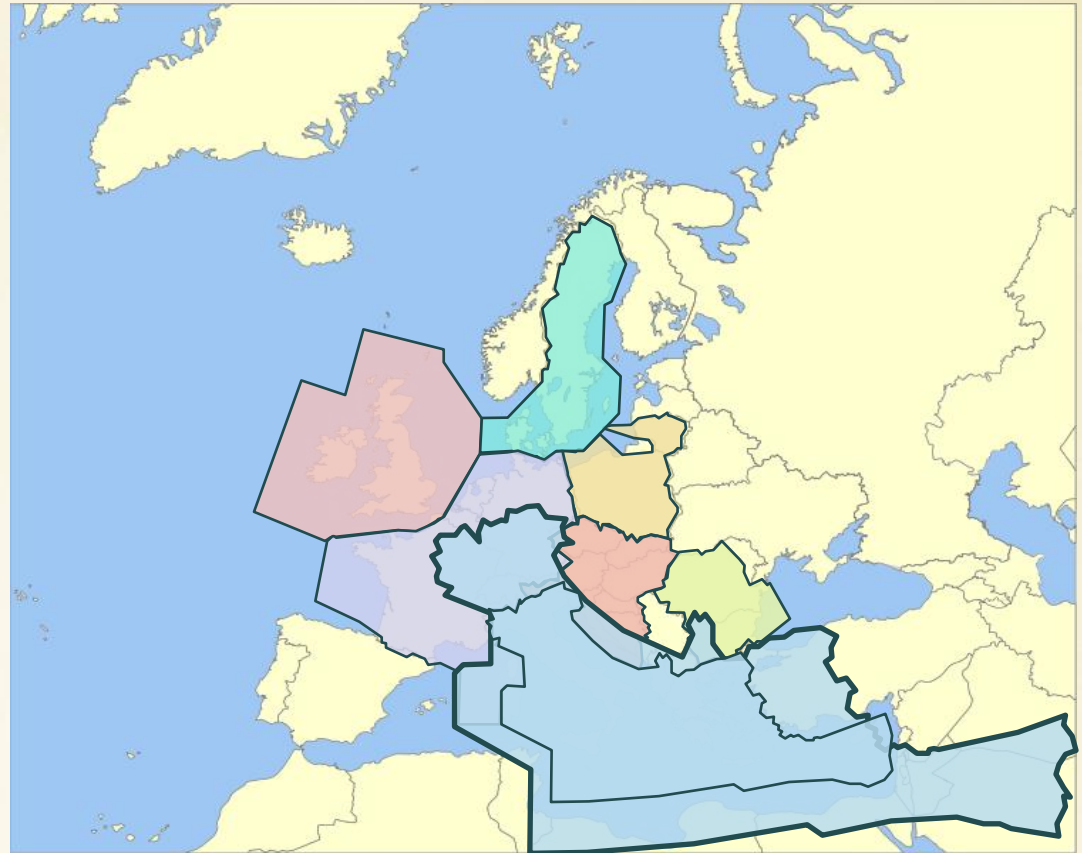


■ FAB Progress Report

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- **The FAB Central Europe (FAB CE)**
- **Danube FAB**
- **BLUE MED FAB**

Cyprus, Greece, Italy and Malta
Albania and Tunisia as associate
partners.

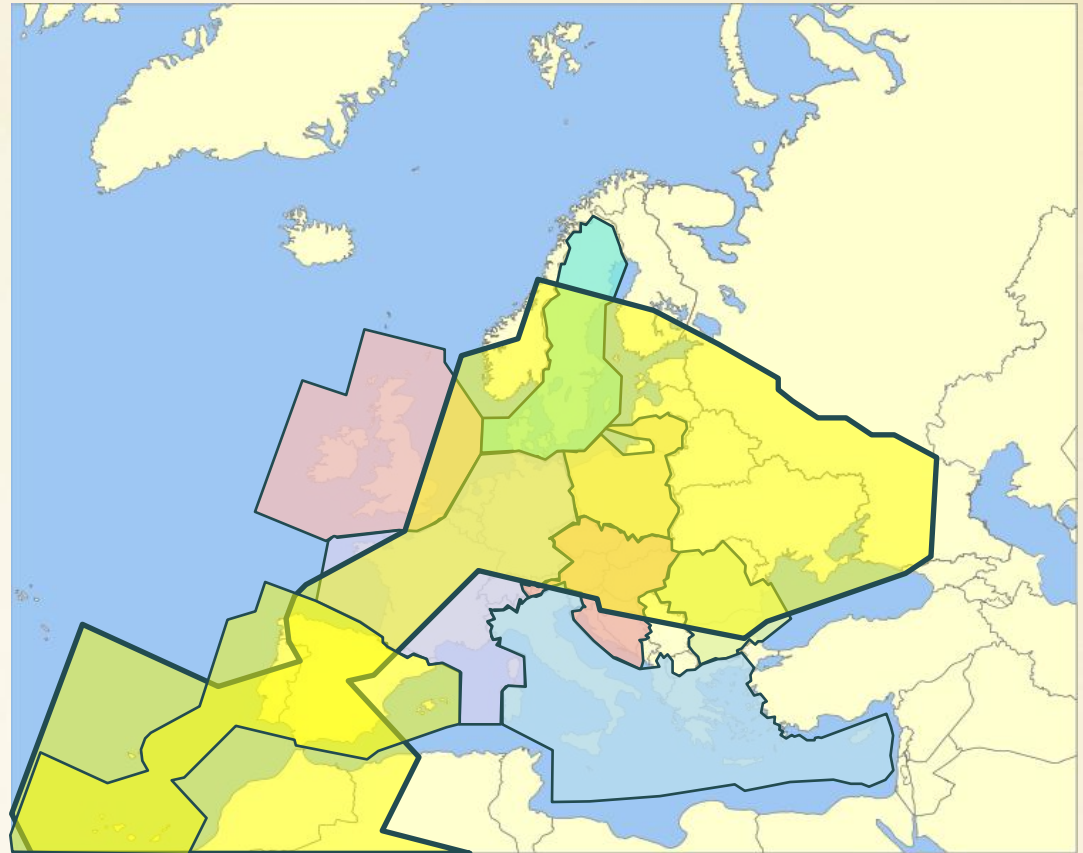
Kingdom of Jordan and Lebanon as
observers



■ FAB Progress Report

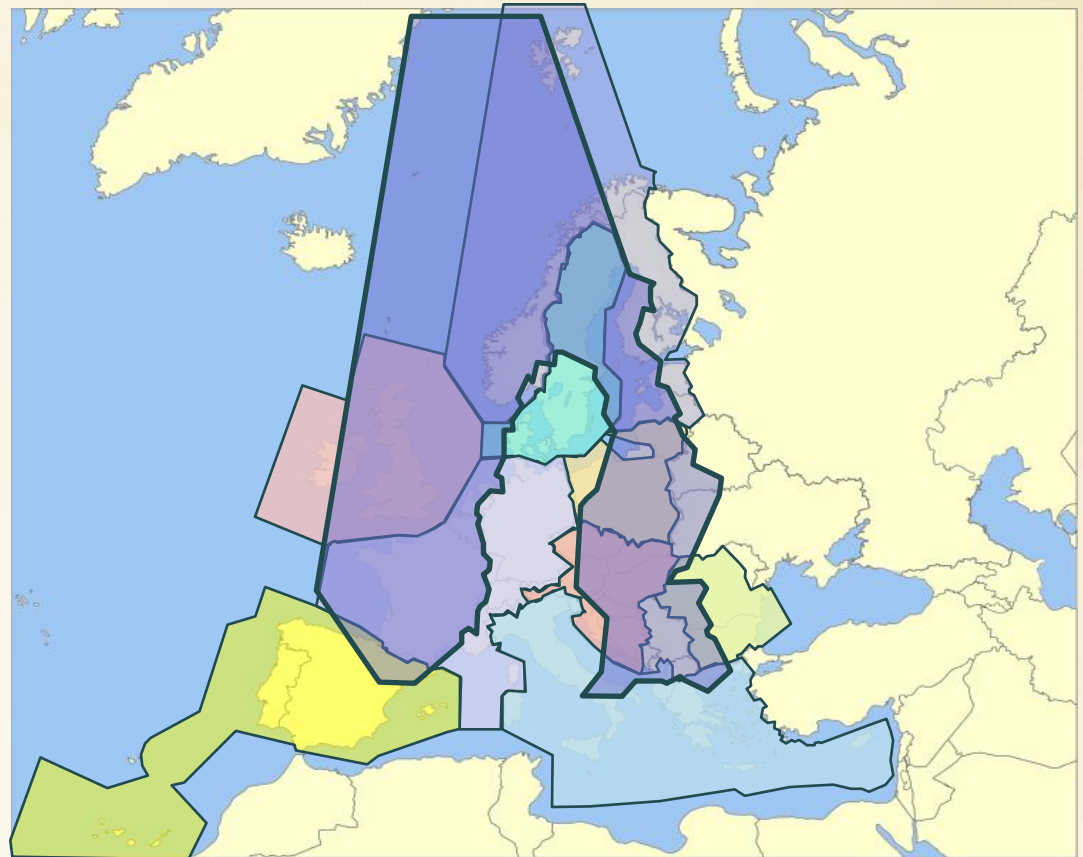
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- **Danube FAB**
- **BLUE MED FAB**
- **South-west FAB**

Portugal and Spain. In addition for Spain, the Canaries FIR

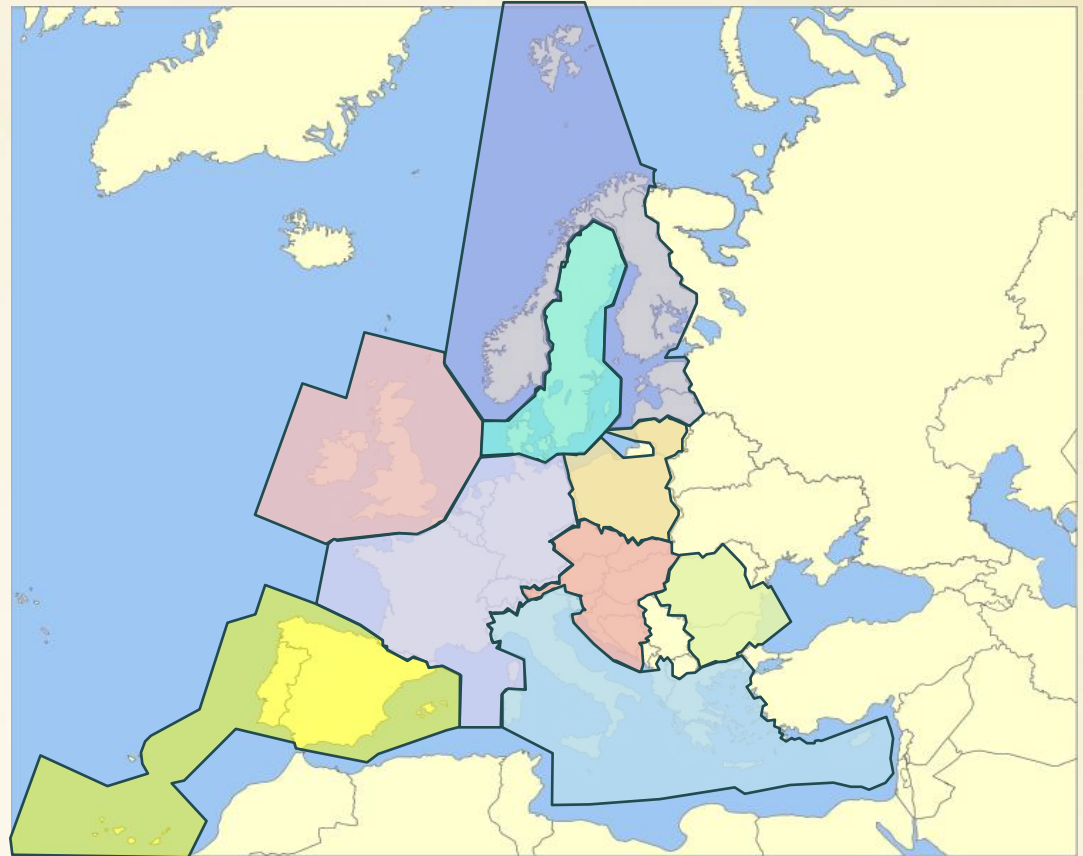


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- NEFAB



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NEFAB - North European Functional Airspace Block

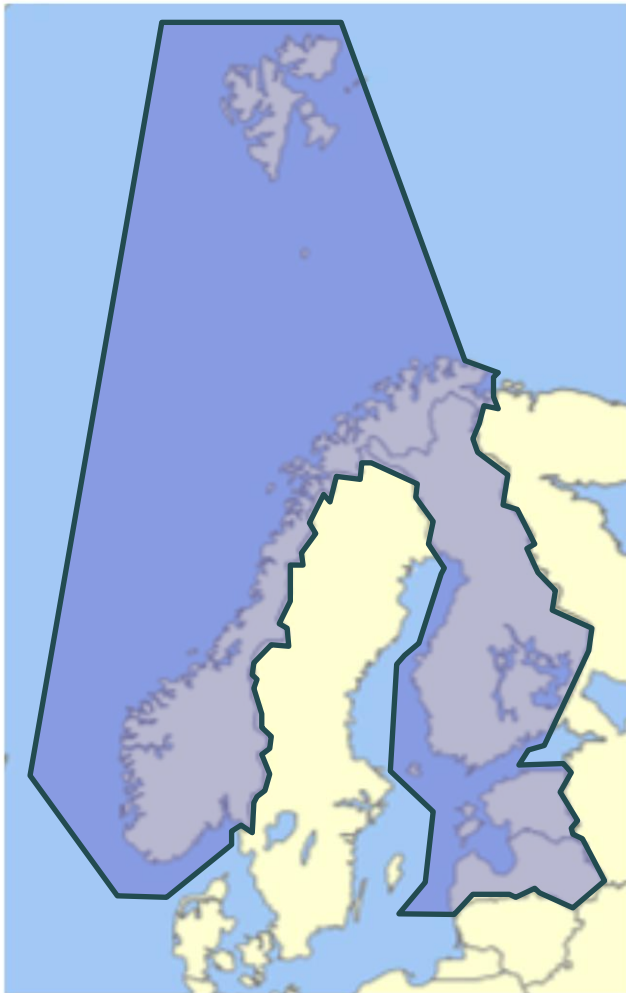
■ Cooperation of 4 Member States:

Latvia

Estonia

Norway

Finland



NEFAB – main activities:

Implementation of a series of efficiency improvement programs, in the longer term will provide:

- reduction of the airlines' costs
- positive effect on the environment by cutting the airline's emission

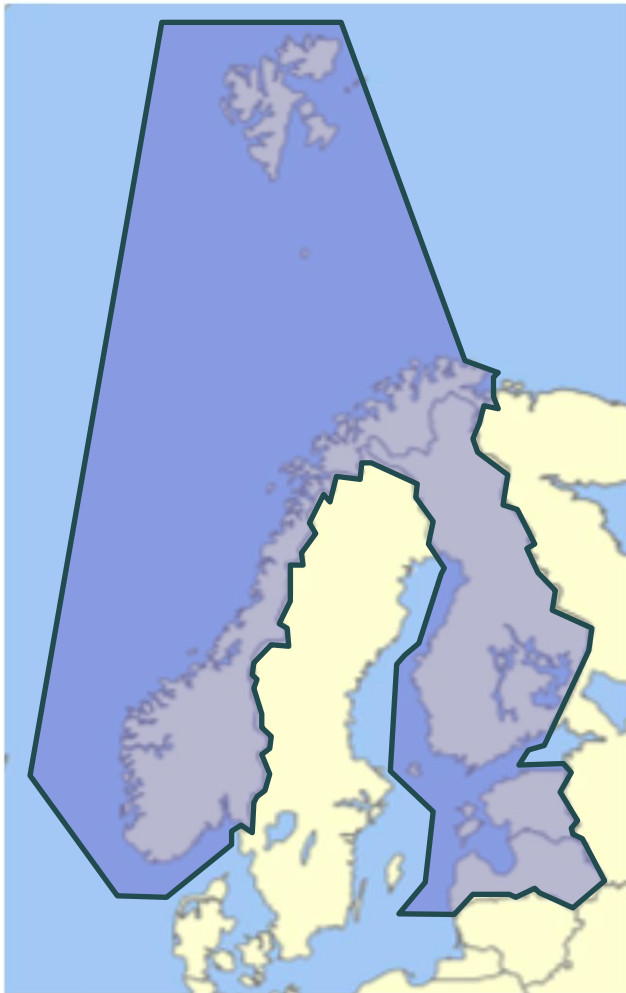
Main directions:

Airspace harmonisation

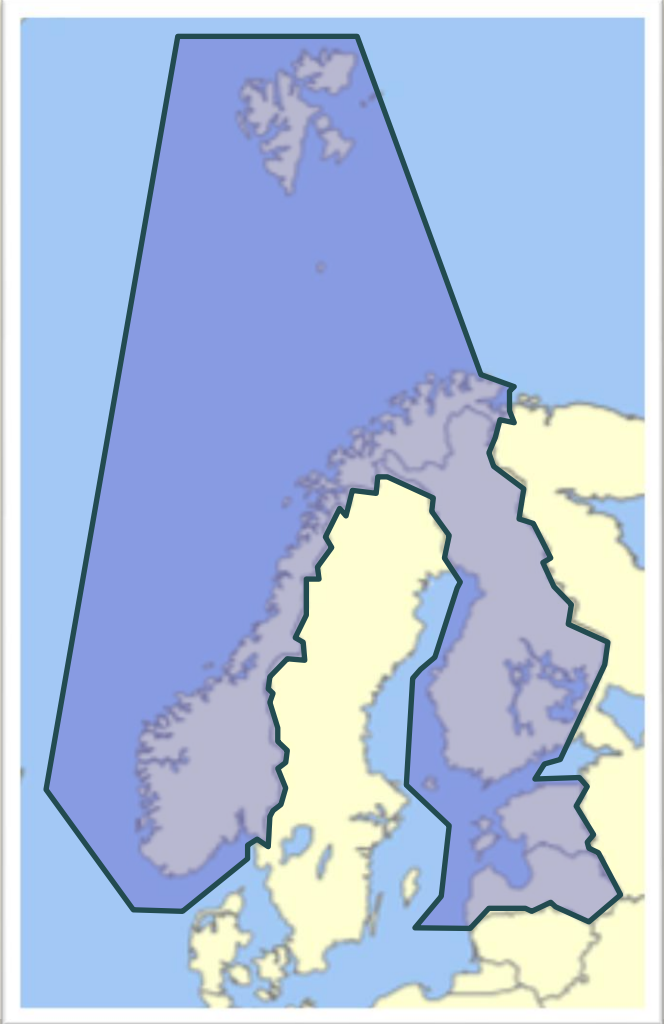
ATM systems interoperability

Integrated functional cooperation between the participating air navigation service providers (ANSPs)

Implementation of free route airspace

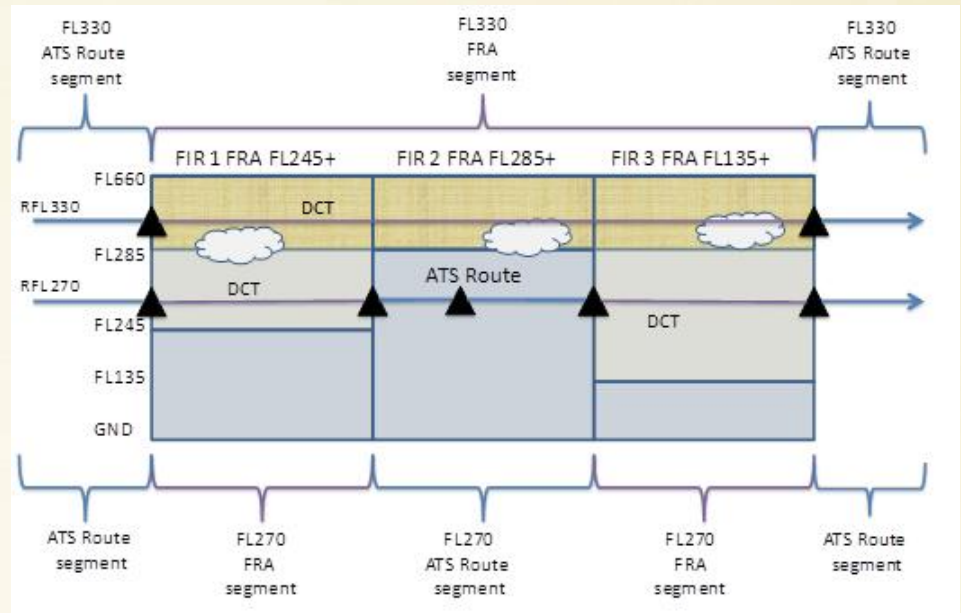


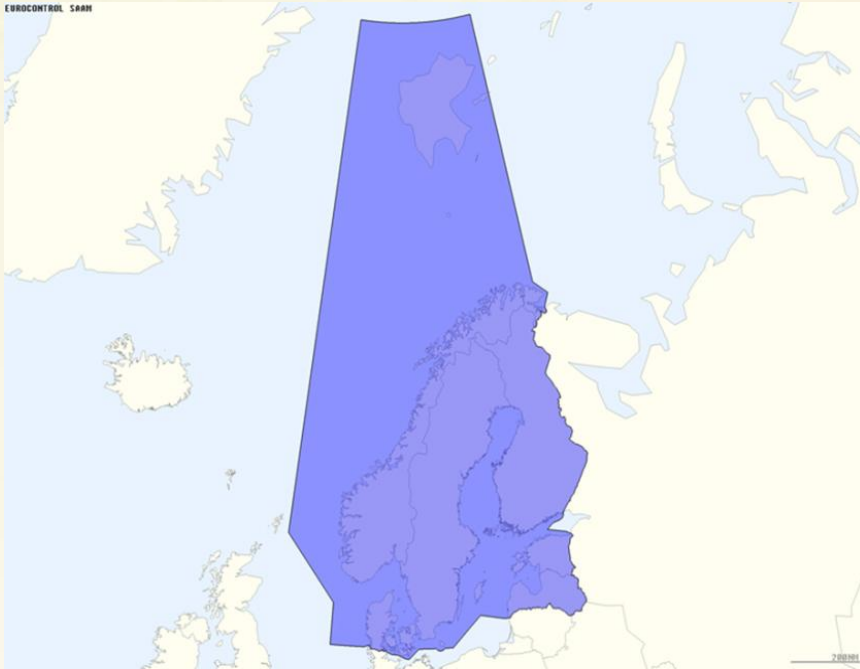
NEFAB Free Route Airspace



Free route airspace :

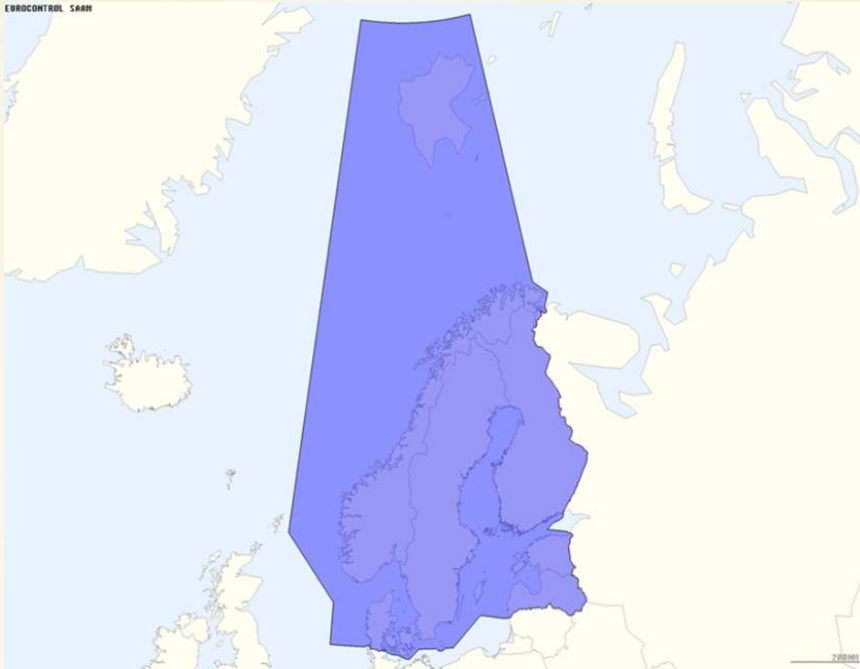
A specific airspace, within which, users shall freely plan their routes between an entry point and an exit point without reference to the ATS route network





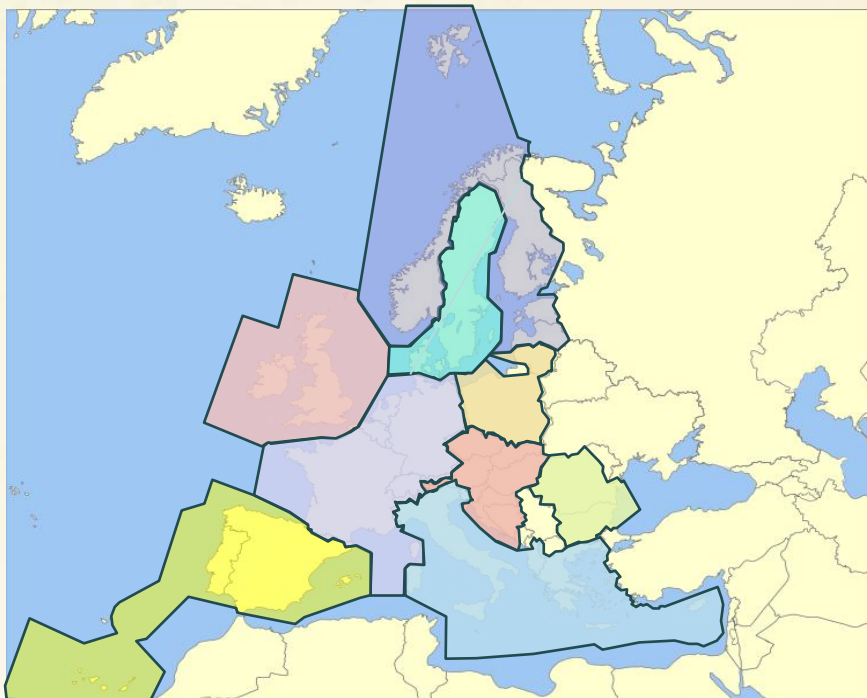
Free route airspace :

- Declaration of commitment for cooperation in airspace development between the Governments of Denmark, Estonia, Finland, Latvia, Norway and Sweden
- In DK/SE FAB FRA is already in operation and within NEFAB states FRA operation is a part of the NEFAB 2015 Target Concept, effective Nov 2015
- NEFRA is the Programme to connect the Free Route Airspace over Sweden and Denmark (DK-SE FAB) with the Free Route Airspace in NEFAB states (Estonia, Finland, Latvia and Norway) seamlessly



System support:

- Automatic FRA Flight Plan processing
- Airspace Management Tools
- Full OLDI support
- Network Manager Integration
- Safety Nets support (STCA, MTCD)



Connection to UK-IRL FAB

**Possible connection to Baltic
FAB and other neighbours**

**In perspective, FRA would be
introduced in the entire European
airspace**

Thank you!