

# 4<sup>th</sup> FABEC Expert Workshop

Implementation of Free Route Airspace (FRA) within FABEC

Wednesday, 12 February 2020

IBIS Paris CDG Airport



# Agenda

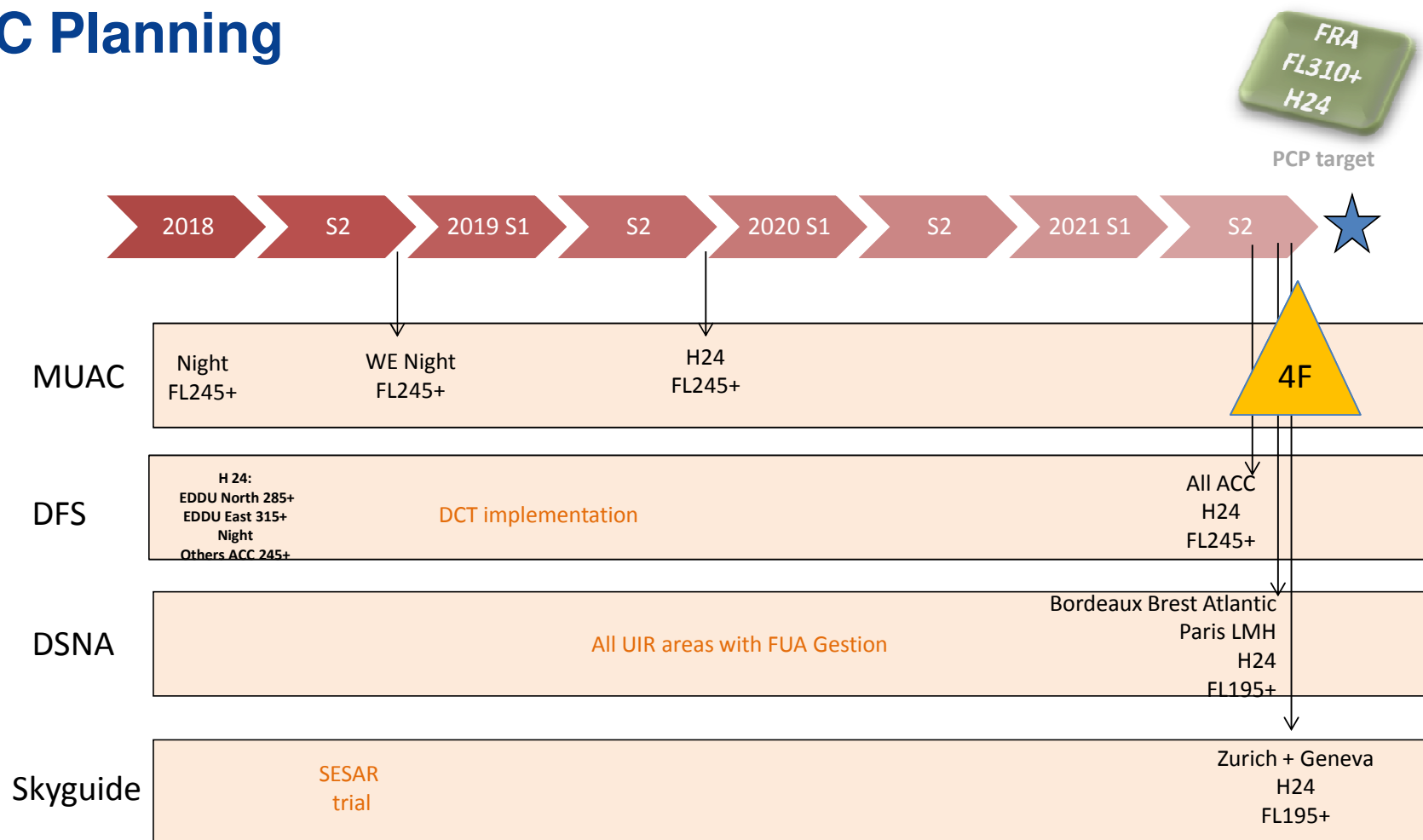
Start Time	#	Item	Owner	Discussion/Material
0930	1	Welcome Coffee		
1000	1	Introduction FRA implementation calendar in FABEC area	Geoffroy Ville, Deputy COO DSNA	Welcome Presentation
1040	2	DSNA FRA Implementation and CONOPS	Marie-Christine Ouillade, DSNA	Presentation Discussion
1100	3	Skyguide FRA Implementation and CONOPS	Max Canham Skyguide	Presentation Discussion
1120	4	DFS FRA Implementation and CONOPS	Morten Grandt (Robert Winker) DFS	Presentation Discussion
1140	5	FL changes issues Point at the boundary restrictions	Max Canham Skyguide	Presentation Discussion
1300				

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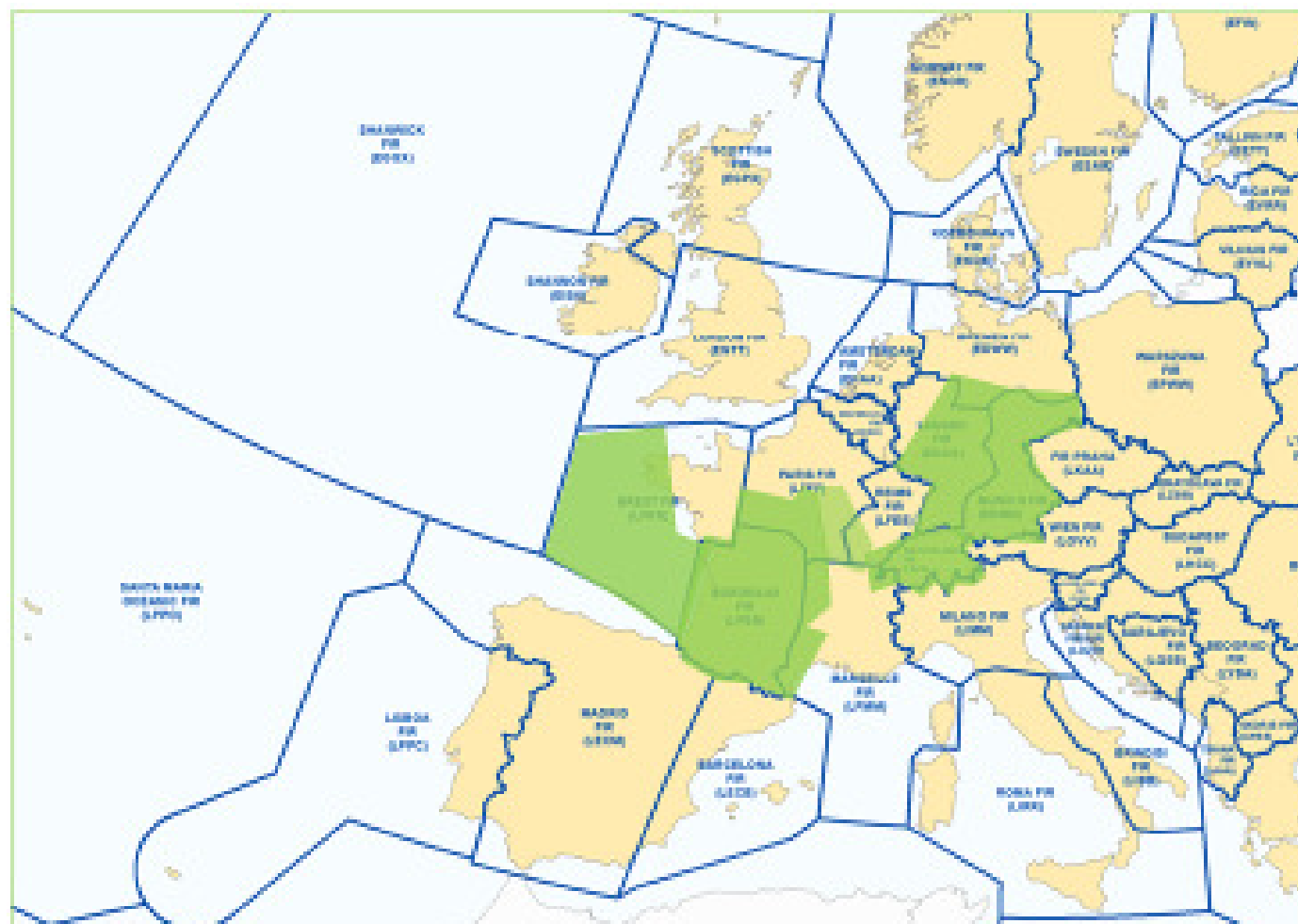
Start Time	#	Item	Owner	Discussion/Material
1300	6	Lunch		
1400	7	FUA Efficiency RAD Way of Writing	Marie-Christine Ouillade, Ludovic Isnard DSNA	Presentation Discussion
1420	8	NM Support in FRA implementation and validation	Tihomir Todorov, Denis Odic NM	Presentation Discussion
1500	9	CFSP/AO issue regarding major change in flight planning	Keld Larsen CM CFSPG	Presentation Discussion
1540	10	Wrap up / Follow up actions	Geoffroy Ville, Deputy COO DSNA	Presentation
1600	11	End		



# FABEC Planning



## FRA FABEC : December 2021

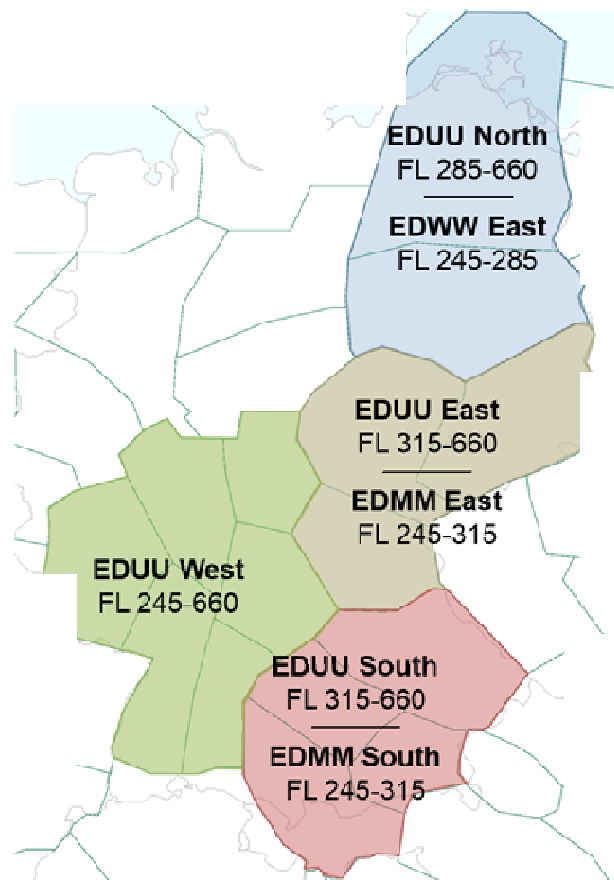


MUAC in service



# DFS FL245+

4 FRA Cells



# DSNA FL195+

Wave 1 : Dec 2021  
 NW part 1  
 SW  
 CENTRAL

Wave 2 : Dec 2022  
 NW part 2

Wave 3 : Dec 2023  
 NW part 3  
 NE  
 SE

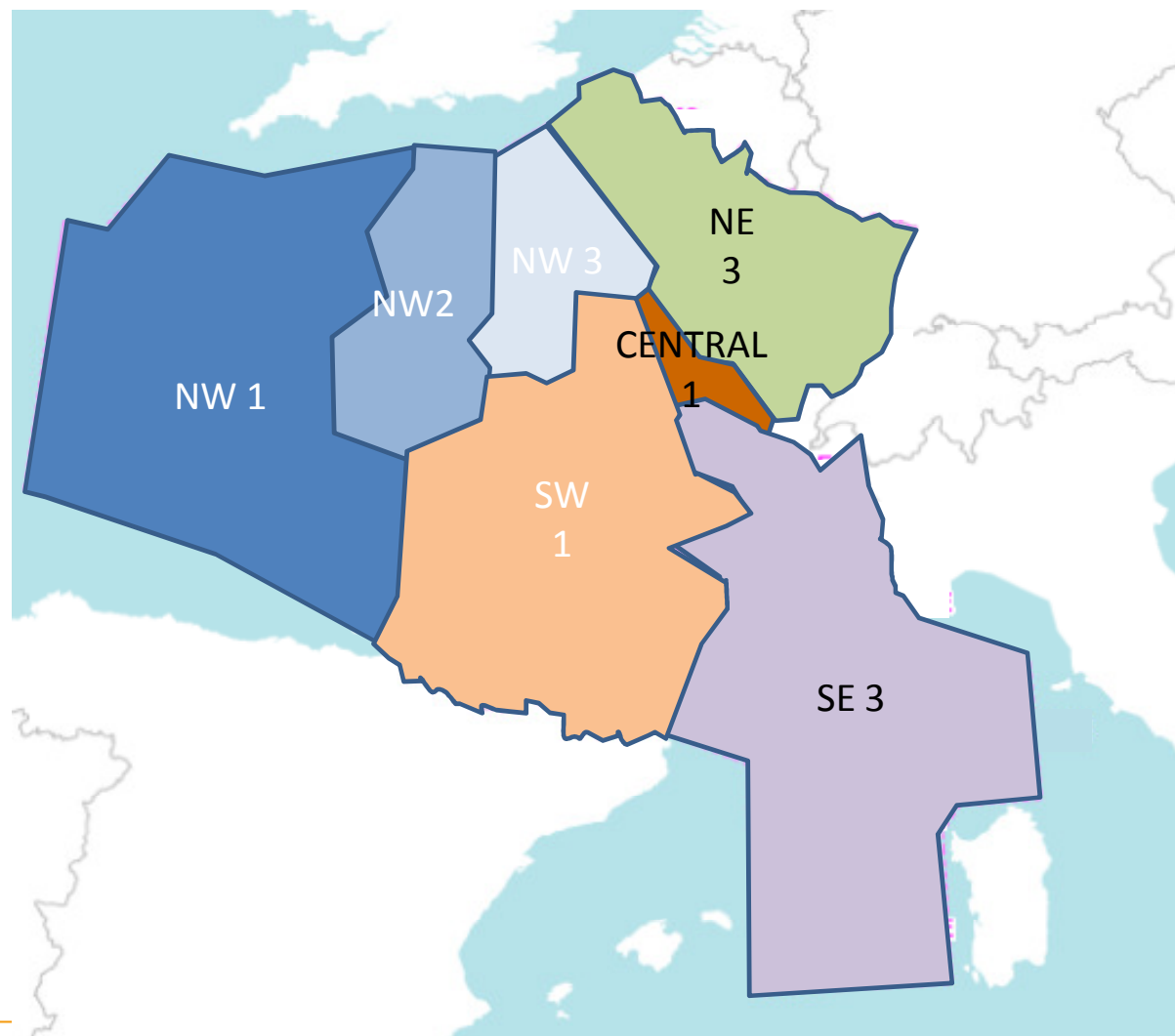
Medium term (FABEC/NM Project)  
 2 cells

W = NW +SW

E = CENTRAL + NE + SE

Deletion of all routes in FRA cells

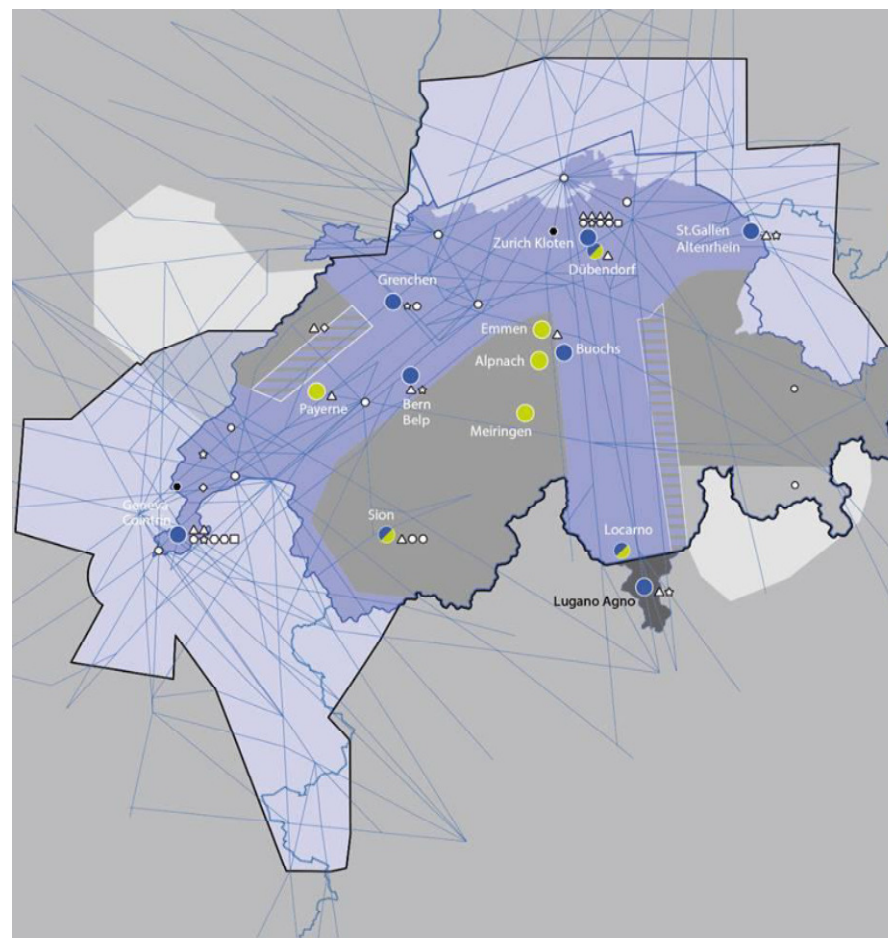
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# Skyguide FL195+

1 cell for both Zurich & Genève

Deletion of all routes in FRA cells



# ENAIRE FL195+

**ESFRA is composed by 2 FRA Cells:**

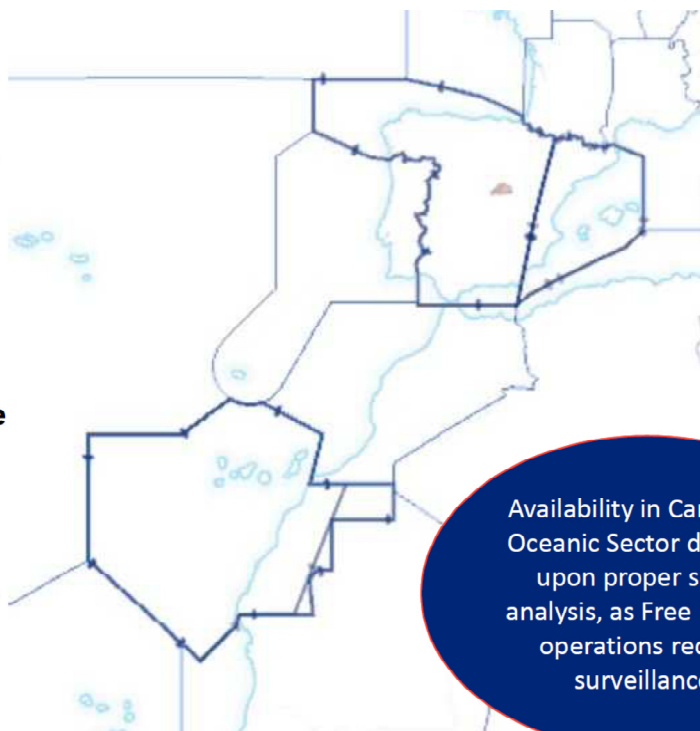
1. Madrid-Barcelona UIR (FL195-FL660) .
2. Canarias UIR (FL195-FL660).

\*Both Cells include the high seas airspace under Spain’s jurisdiction, with TMAs / CTAs excluded from ESFRA.

**ESFRA will be applied during the following timeframes:**

1. Phase 1.1 (May. 2021):  
 Winter: 00:00 - 05:00 UTC.  
 Summer: 00:00 - 04:00 UTC.
1. Phase 1.2 (Oct. 2021) & onwards: H24.

[enaire.es](http://enaire.es)

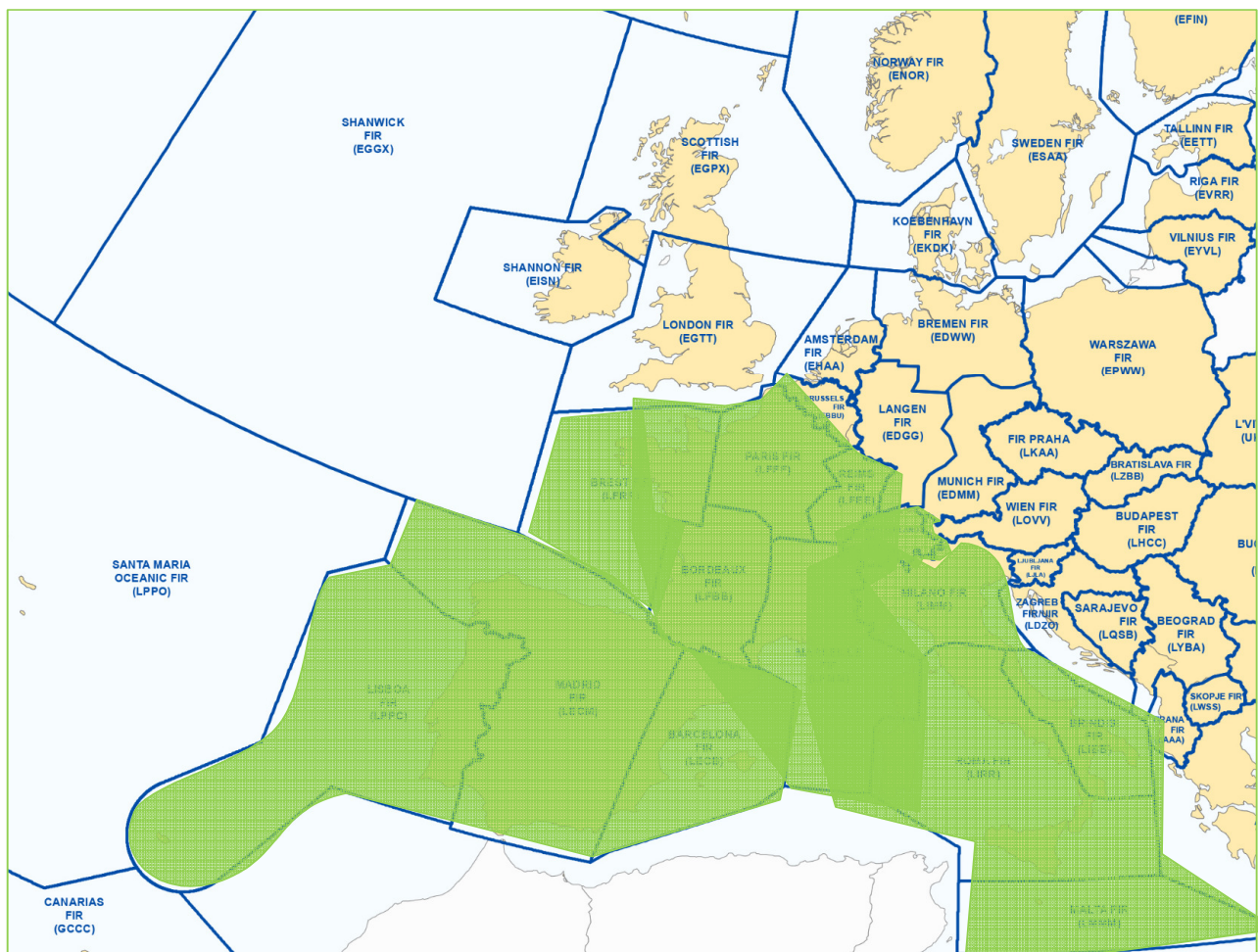


Availability in Canarias’s Oceanic Sector depends upon proper safety analysis, as Free Routing operations require surveillance.





# FLOS / level change (agenda #5)



Nord/South Flight Level Orientation System:

- France
- Switzerland
- Italy
- Spain
- Portugal



## **FRA cells limits (agenda #5)**

**Adapted to main traffic flows and current COP points**

**Independent of ACC / sector limits**

**ERNIP Requirement: Entry/Exit points on FRA cells boundaries**



## **FUA (agenda #7)**

**Target: FUA in service up to FL195/245 in 2021**

**100% implementation of FUA in 2020 in Germany (DFS), France (DSNA) and Switzerland (Skyguide)  
Possibility to plan through military area as soon as they are planned to be inactive**

**Big environmental improvement on flight planning**



# RAD (agenda #7)

## Complete review of RAD

PAN Europe : RAD restrictions mainly on FRA Cells entry points

APP 5 : description for departure and arrival

## Contingency plans ?



# Implementation (agenda #8)

NM Support in implementation  
Trial calendar

CFSP issues (agenda #9)



# Questions?

