

Introduction

European Airspace Concept Workshops
for PBN Implementation

OBJECTIVES

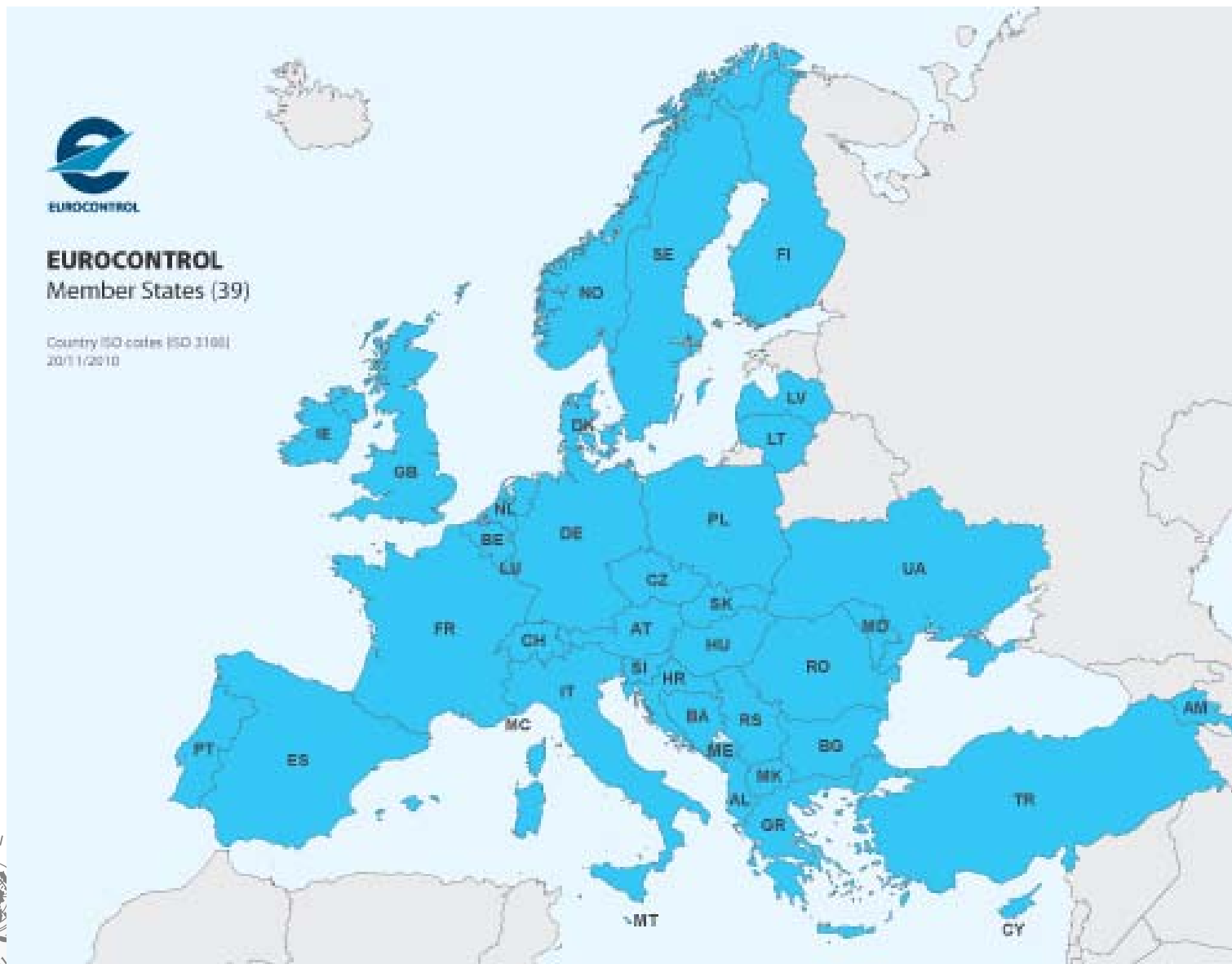
- The objective of this workshop is to provide an overview of the development of a PBN Airspace Concept,
- To introduce the EUROCONTROL 'European Airspace Concept Handbook for PBN Implementation' and the methodology to be used in developing such concepts,
- Practice the activity steps within the Airspace handbook through group work.

AUDIENCE

- Technical ATC managers,
- Operational Terminal and Area air traffic controllers
- Regulators (operations approvals officials)
- Airspace planners
- Pans Ops specialists
- Air transport technical pilots



Eurocontrol Member States



International Organisations

ICAO (EUR/NAT) (56)

Algeria
 Andorra
 Belarus
 Israel
 Kazakhstan
 Kyrgyzstan
 Morocco
 Russian Federation
 Tajikistan
 Tunisia
 Turkmenistan
 Uzbekistan

ECAC (44)

Azerbaijan

San Marino

EUROCONTROL (40)

Armenia Former Yugoslav Republic of Macedonia
 Bosnia & Herzegovina Republic of Moldova
 Georgia
 Monaco
 Montenegro
 Serbia
 Ukraine

EASA (32)

Switzerland

EU (28)

Austria Cyprus
 Finland Ireland
 Malta Sweden
 Belgium Bulgaria
 Czech Republic Denmark
 France Germany
 Greece Italy
 Latvia Hungary
 Luxembourg Lithuania
 Poland The Netherlands
 Romania Portugal
 Slovenia Slovakia
 Spain Croatia UK

NATO (28)

Albania

Turkey

Estonia

Canada
USA

Norway (1)

Iceland (1)

Liechtenstein



Non-Contracting States : The Holy See

WHO ARE WE?

- **Franca Pavličević (FP)**
- Head of Navigation and CNS Research.
- Background:
 - Formerly an air traffic controller and airspace planner, specialist in Performance Based Navigation
 - EUROCONTROL representative to ICAO's PBNSG
 - Involved in the development and deployment of PBN.
 - B.Proc (Law) & M.Sc in Airport Planning.



WHO ARE WE?

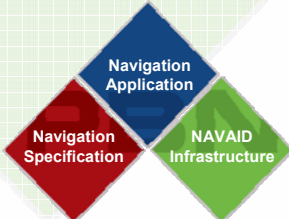
- **Charlie Eliot (CE)**

- Background:

- Ex military airspace user
- ATM instructor
- Navigation
 - PBN support
 - Development of PBN WBT
 - EUROCONTROL member to SASP
 - En-route A-RNP route spacing investigations for Europe



Workshop Programme

MON 24 TH February 2014	0900 - 1000	1000 - 1030	1030 - 1050	1050 - 1230	1230-1330	1330 - 1500		1520 - 1615		1615 - 1700
	REGISTRATION	Welcome by ICAO M. Smaoui	PBN Workshop Intro F. Pavlicevic	1 What is Area Navigation C. Eliot	LUNCH	2 Introduction to PBN F. Pavlicevic		3 Overview of PBN Nav Specs C. Eliot		4 PBN Implementation Guidance F. Pavlicevic
TUES 25 TH February 2014	0900 - 1010	1030 -1115		1115 -1200	1200-1300	1300-1345	1345-1500	1515-1545	1545-1615	1615-1700
	5 What is an Airspace Concept F. Pavlicevic	6 Workshop Introduction C.Eliot		7 Case study F. Pavlicevic	LUNCH	8 Activity 1, 2 & 3 C. Eliot	Group work Pavlicevic Eliot	Group Presentations	9 Reference scenario C. Eliot	10 Safety criteria Enablers, constraints, assumptions F. Pavlicevic
WED 26 TH February 2014	0900 - 1000	1000 -1045		1100 -1215	1215-1315	1315 -1415		1415 - 1515	1530-1600	1600-1700
	11 Design Airspace (Routes, Approaches & Holds) F. Pavlicevic	Group work (Initial Design) Pavlicevic Eliot		Group work (Initial Design) Pavlicevic Eliot	LUNCH	Group work (Initial Design) Pavlicevic Eliot		12 Nav specs & Procedure design C. Eliot	13 Design airspace volumes F.Pavlicevic	Group work Pavlicevic Eliot
THURS 27 TH February 2014	0900 -1000	1000 -1030	1045 -1145	1145-1215	1215-1315					
	14 Validation & Implementation Pavlicevic/Eliot	Group work Final adjustments	Group Final Presentations	Wrap up & Debrief Pavlicevic Eliot	LUNCH					

Material for Workshop

- Workshop folder
- European Airspace Concept Handbook
- Several relevant docs
- Support tools

QUESTIONS???

WHO ARE WE?

- Mike Lissone (ML)
- Background:
 - MIL ATCO (ACC and APP)
 - ATM Instructor
 - ASM
 - NAV
 - P-RNAV activity manager
 - PBN focal point
 - Validation/ simulation
- Programme Manager:
 - RPAS Integration
 - Spectrum

