

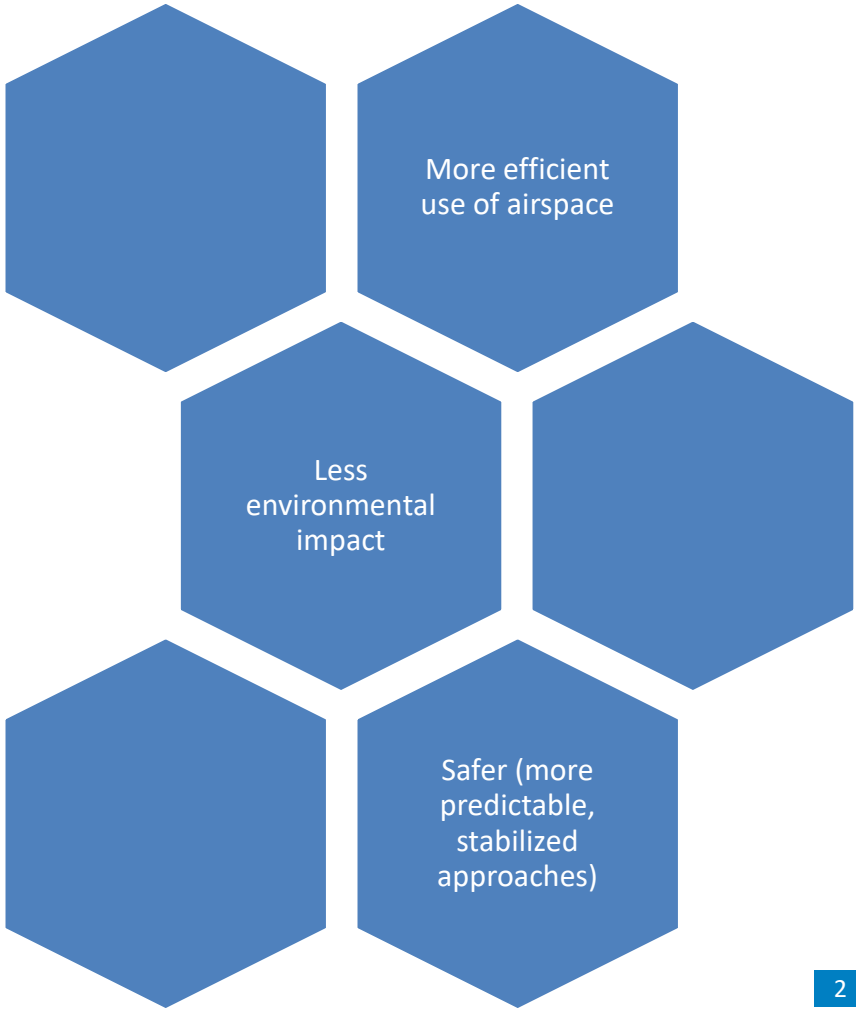
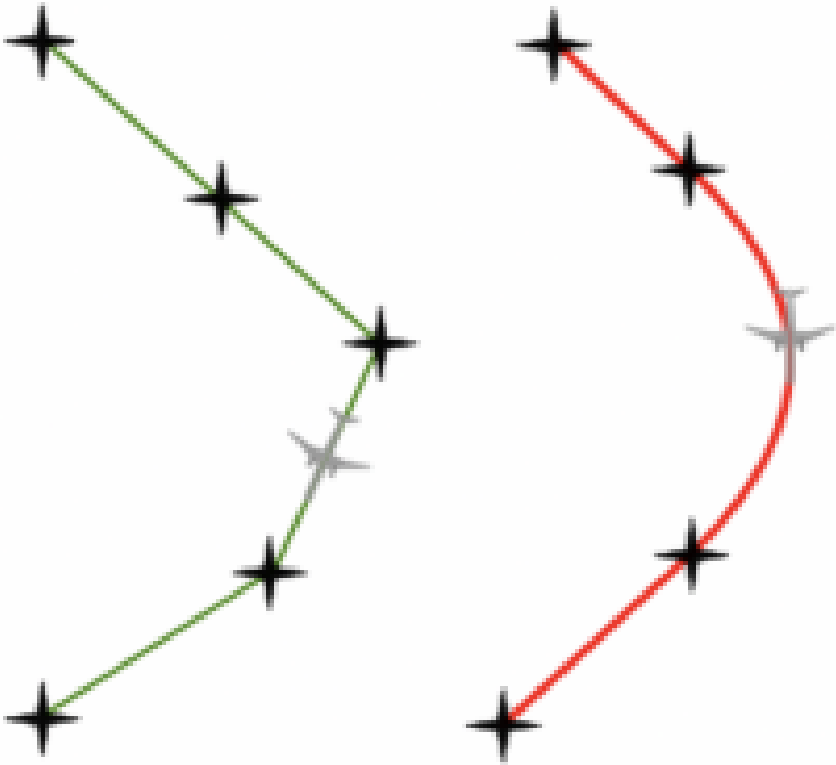
EASA activities towards EGNOS-based operations

Manuel RIVAS VILA

EGNOS Workshop 2021

Your safety is our mission.

Why PBN?



What is needed?

E-TSO



CNS



ASM

DAT

FPD

ADR

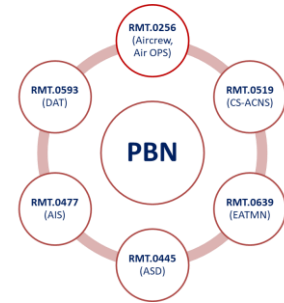
AIS

Route towards PBN



2 Rulemaking activities

- Regulatory framework for PBN comprehensive
- PBN IR [(EU) 2018/1048] describes airspace usage requirements and operating procedures
- PBN is fully integrated into pilot training and air operations rules
- Current rulemaking limited to the maintenance and revision of the existing rules, i.e. no specific RMTs in EPAS 2021-2025



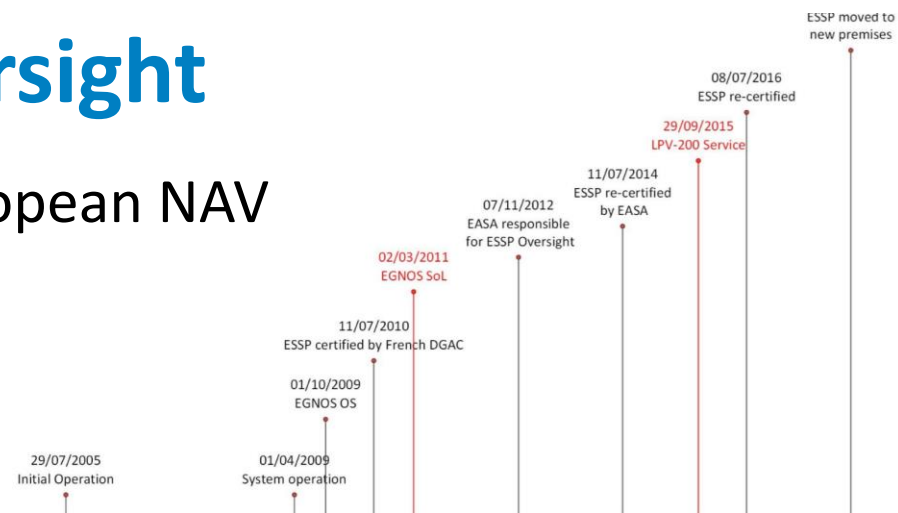
3 Certification and oversight

→ EASA oversees ESSP as Pan European NAV service for EGNOS

→ NPA (from March 2011)

→ APV-I (from March 2011)

→ LPV-200 (from September 2015)



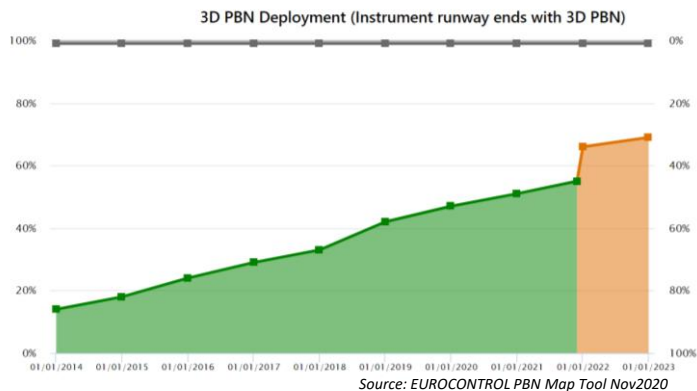
PBN specification	Basic criteria		Supplementary criteria						
	Subsections 1 & 2 LNAV	Subsection 3 LNAV in final approach	Subsection 4 VNAV	Subsection 5 VNAV in final approach	Subsection 6 RNP AR	Subsection 7 Advanced-RNP	Subsection 8 RF	Subsection 9 FRT	Subsection 10 Parallel offset
RNP 4	Required							Optional	Required
RNP 2	Required							Optional	Optional
RNP 1	Required		Optional					Optional	
RNP 0.3	Required		Optional					Optional	
RNP APCH	Required	Required	Optional	Required				Optional	
RNP AR	Required	Required	Required	Required	Required			Required	
A-RNP	Required	Required	Optional	Required		Required	Required	Optional	Required

→ Aircraft eligibility

→ CN-ACNS Issue 3 published on June/2021

4 Standardisation

- EASA Standardisation process checks correct implementation of EU aviation rules by EU MS
- PBN IR implementation is a priority



- **AP:** RNP APCH (plus RF) or RNP AR APCH procedures to all IREs
- **A/D:** RNAV 1 or RNP 1(+) for at least one established SID/STAR
- **A/D:** RNP 0.3 or RNP 1 or RNAV 1 for at least one established SID/STAR for rotorcraft operations
- **EN:** RNAV 5 for ATS routes established below FL150
- **EN:** RNP 0.3 or RNP 1 or RNAV 1 for ATS routes established below FL150 for rotorcraft operations

By 25 January 2024 <=

PBN IR fully implemented

Transitions Plans

=> By 3 December 2020

- **AP:** RNP APCH (plus RF) or RNP AR APCH procedures to all IREs without precision approach, except at those airports listed in point 1.2.1 of the PCP Regulation (later)
- **EN:** RNAV 5 for all ATS routes at or above FL150

=> By 6 June 2030

- **A/D:** RNAV 1 or RNP 1(+) applicable to all SIDs/STARs where established
- **A/D:** RNP 0.3 or RNP 1 or RNAV 1 applicable to all SIDs/STARs for rotorcraft operations where established

Any Questions?

easa.europa.eu/connect



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An Agency of the European Union 