



EASA Workshop
**“Required Navigation
Performance Authorization
Required – RNP(AR)”**

20 October 2010

**The European Regulatory
Framework for Operations**

Willy Sigl



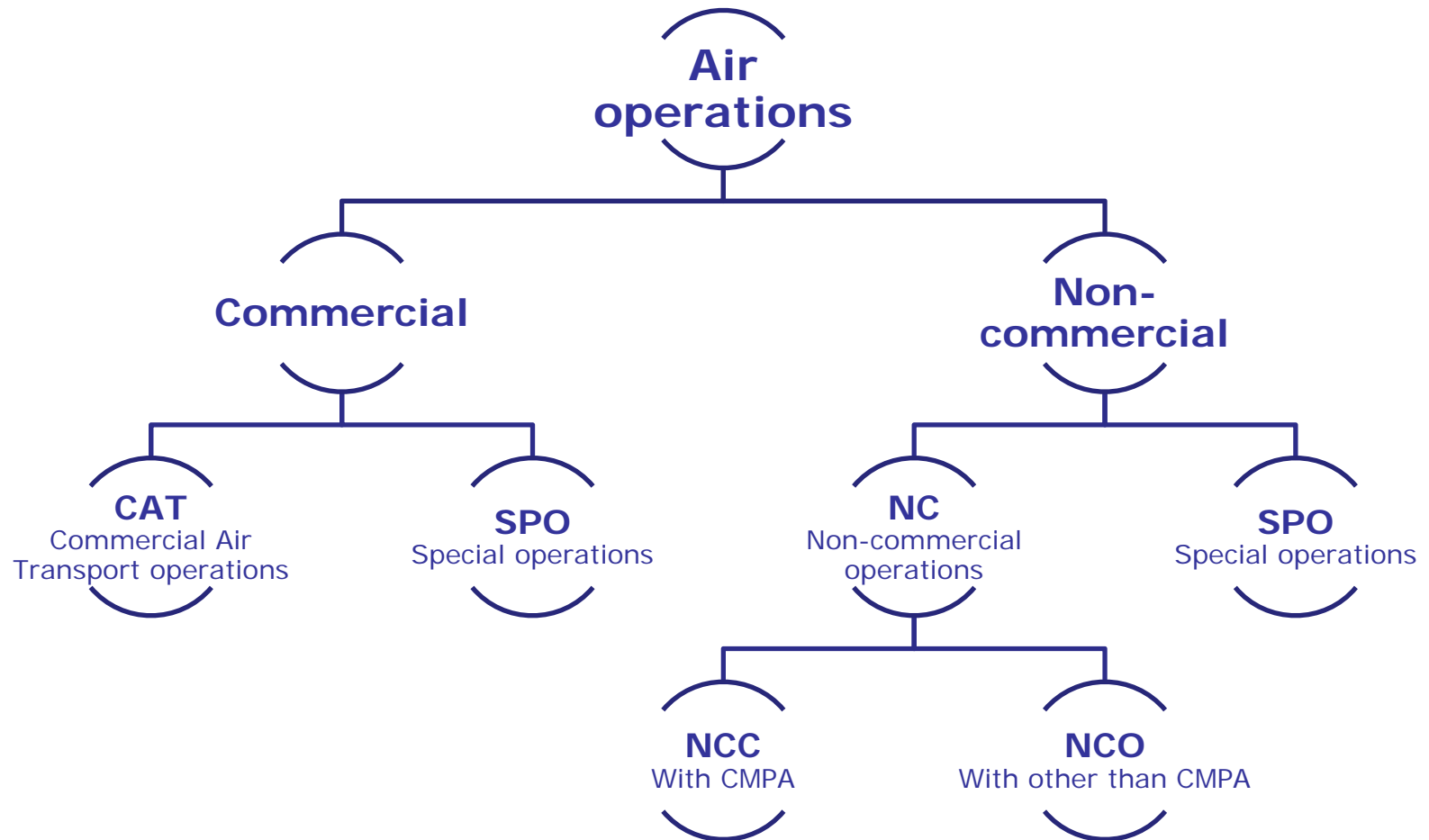
Outline

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- Air operation categories
- Current and future regulatory framework
- Rule structure 1st extension
- Part-SPA
- SPA.PBN

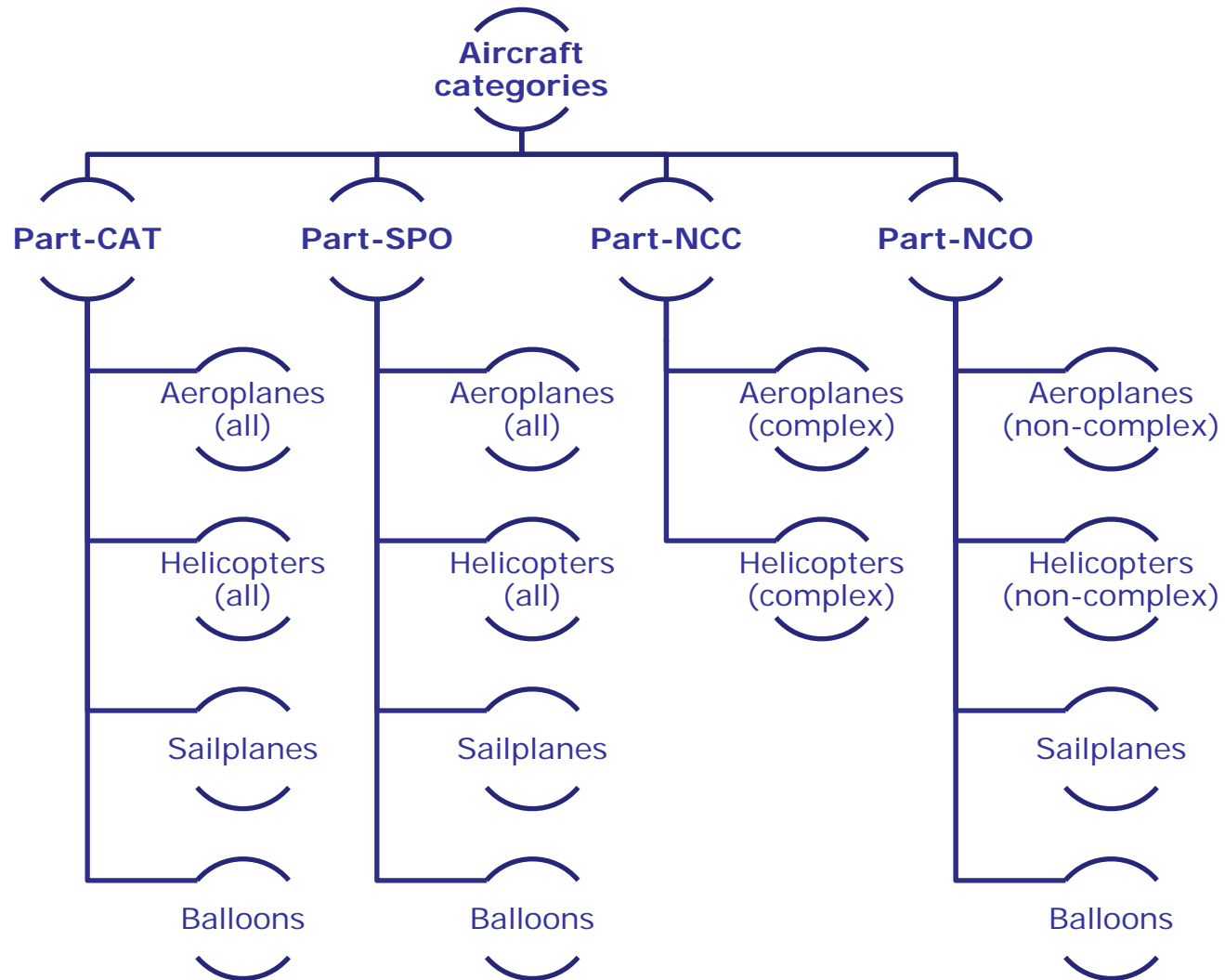


Air operation categories





Aircraft categories





Civil aviation OPS safety rules in Europe

Today



- European rules:**
EU-OPS (CAT A)

- National rules:**
All other operations:
commercial, non-commercial with all
aircraft categories

From 2012

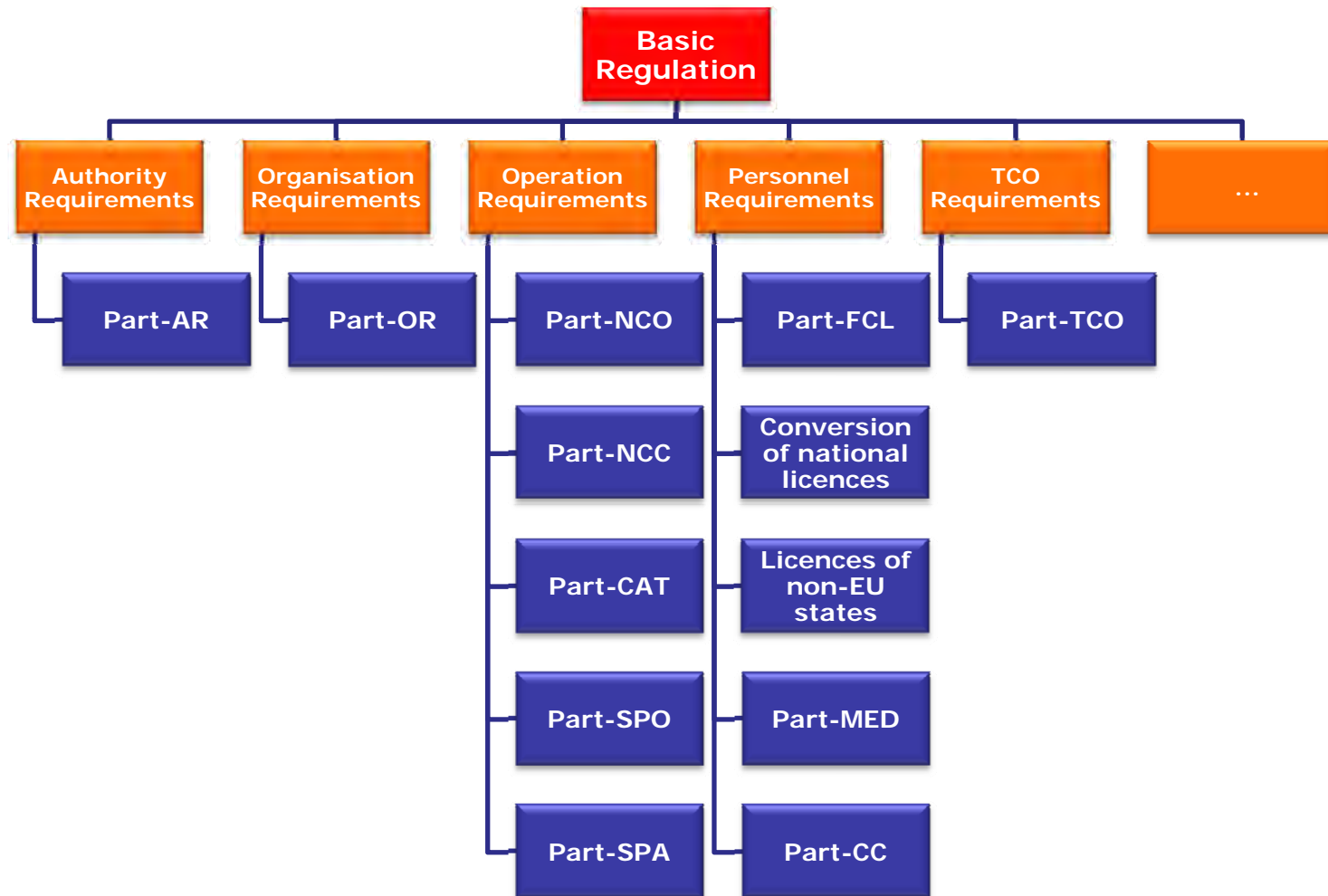


- European rules:**
All operations except those
mentioned in Annex II of the BR

- National rules:**
Operations mentioned in Annex II of
the BR: e.g.,
historic A/C, experimental A/C, very
light A/C

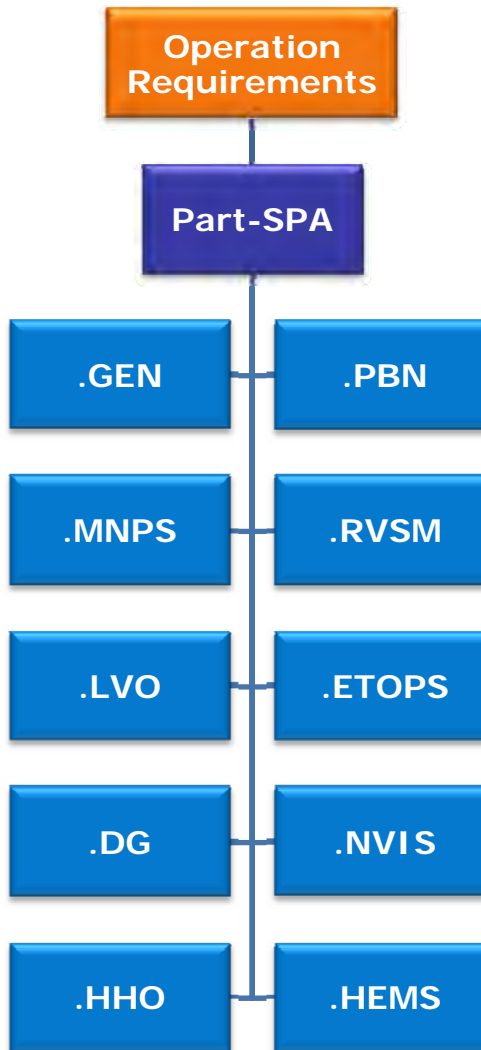


Rule structure | planned as from 2012





Part-SPA





SPA.PBN

- ▶ Operational approval required except for RNAV5(B-RNAV)
- ▶ Criteria for obtaining the approval are specified in AMC 20 documents
- ▶ For RNP AR it is contained in AMC 20-26, chapter 10



SPA.PBN

	FLIGHT PHASE							EASA AMC	
	En-route		Arrival	APP					DEP
	Oceanic/ Remote	Conti.		Initial	Interm.	Final	Missed		
RNAV 10	10							AMC 20-12	
RNP 4	4							To be developed	
RNAV 5 (B-RNAV)		5	5					AMC 20-4	
RNAV2 (non-European)		2	2				2	To be developed	
RNAV 1 (~P-RNAV)			1	1	1		1	To be developed	
BASIC-RNP 1			1	1	1		1	To be developed	
RNP APCH (LNAV)				1	1	0.3	1	AMC 20-27	
RNP APCH (LNAV/VNAV)				1	1	0.3	1	AMC 20-27	
RNP APCH (LPV)						0.02	0.3	AMC 20-28 (NPA)	
RNP AR APCH				1-0.1	1-0.1	0.3-0.1	1-0.1	AMC 20-26	



Upcoming events

15.11.2010

CRD OPS I

- Cover Regulation
OPS
- Part-CAT
- Part-SPA

25.11.2010

EASA Conference

- CRD OPS I
- Cologne



Upcoming events

31.01.2011

CRD OPS II

- Addendum to CR OPS
- Part-NCC
- Part-NCO
- Part-SPO



**Thank you
for your attention!**