

## **Performance Based** Navigation

### **European Mandates**

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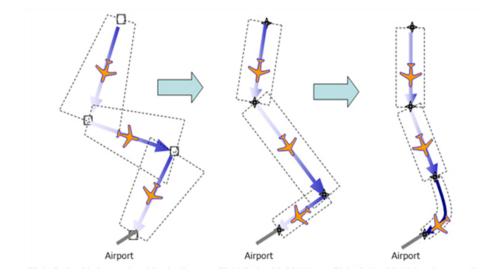
### Navigation – Performance Based Navigation

**General Benefits** 

**EU PBN Mandates** 

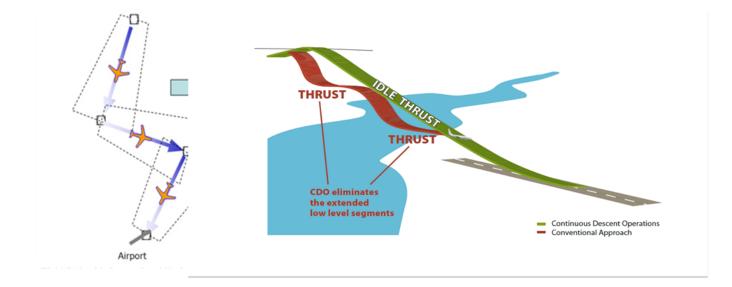






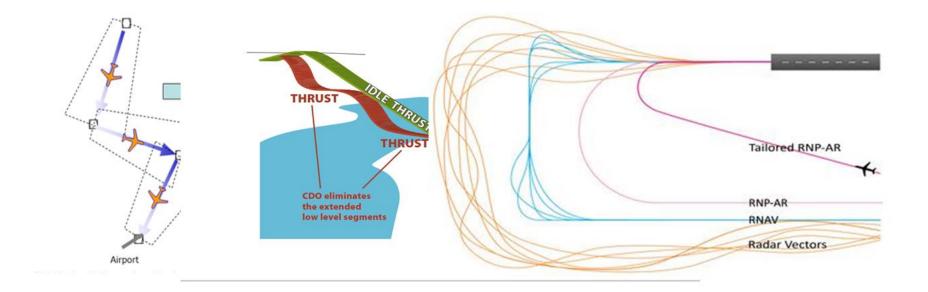
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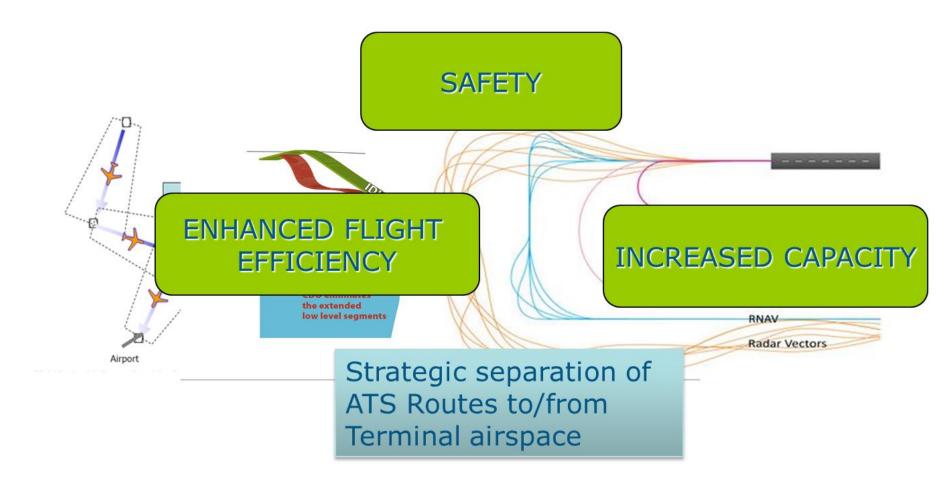


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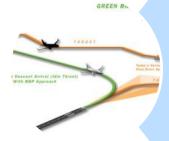












Widespread use of PBN has significant **benefits** for total system **safety, capciaty** and **environmental** impact



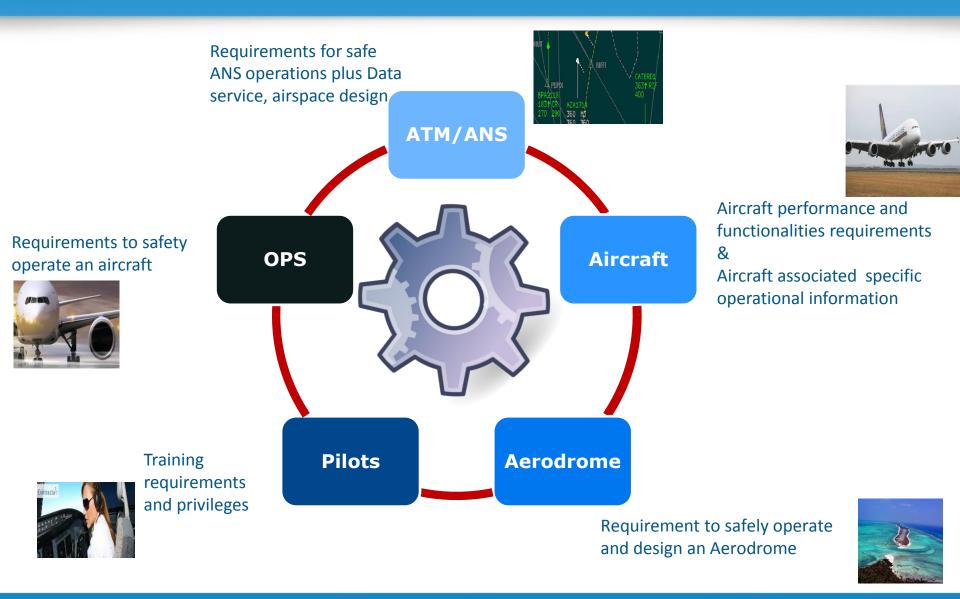
Operating methods based on PBN are, in general, **simpler for flight crews** than conventional navigation, and are the realworld operating methods that have been used for many years by the majority of operators



**Commonality in operating methods** between PBN specifications







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# Navigation

### Performance Based Navigation

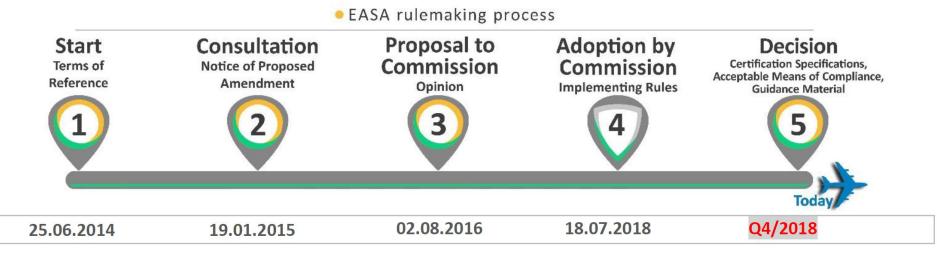






### Scope

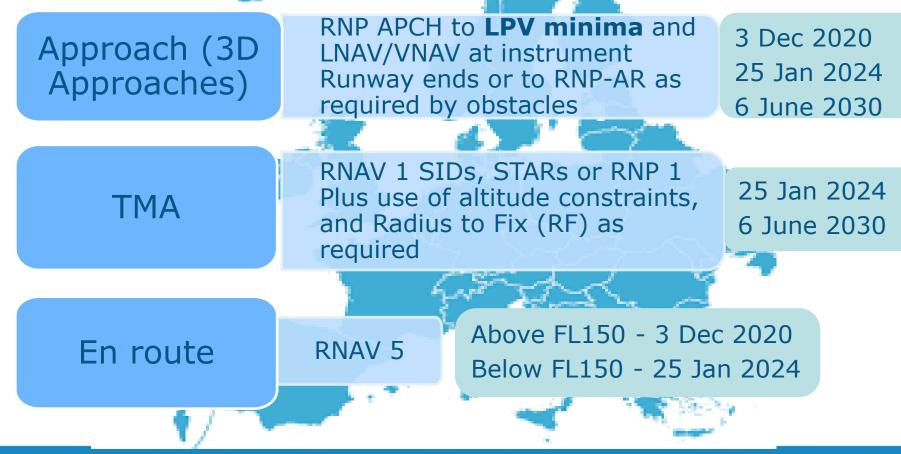
 Implementation of ATS routes and instrument approach procedures i.a.w. a harmonised and agreed set of PBN specifications and functionalities.





### **PBN Regulations**

**Regulation 2018/1048** – laying down airspace usage requirements and operating procedures concerning performance-based navigation.

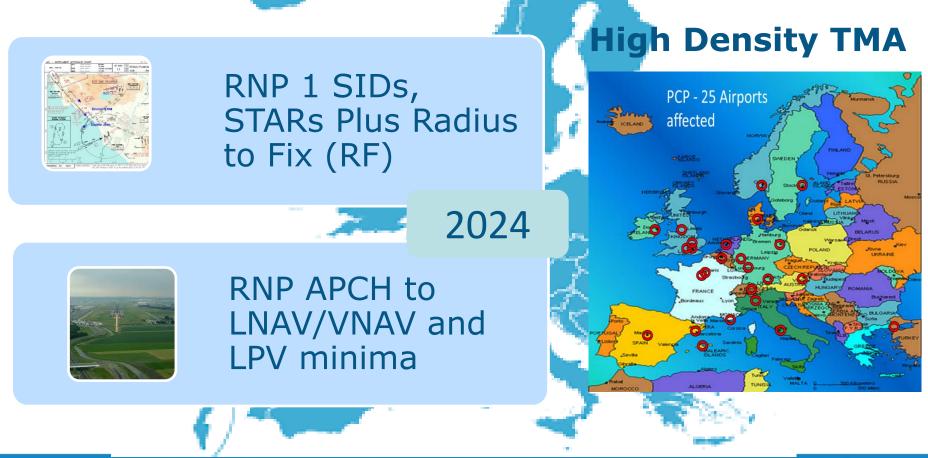


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### **PBN Regulations**

**Regulation 716/2014** – on the establishment of the Pilot Common Project supporting the implementation of the European Air Traffic Management Master Plan.



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Only the specified PBN applications and functionalities permitted for normal operations.

There are only two explicit exceptions

- CAT II & CAT III landing systems can remain in service unaffected
- other instrument flight procedures can be designed/kept in support of contingency modes

# Use of SBAS to Support operation to CAT I minima – removal of ILS



# Any questions? Thank you for your attention



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