

Performance Based Navigation

European Mandates

Bryan Jolly Senior Expert - ATM/ANS

EU Space Week Marseille 3-6 December 2018

Your safety is our mission.

EASA is an agency of the European Union





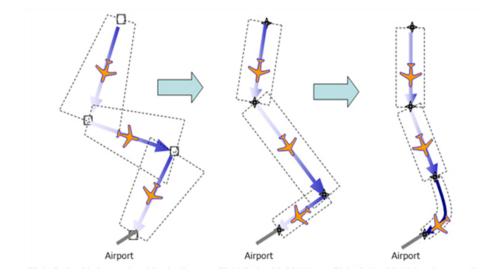
Navigation – Performance Based Navigation

General Benefits

EU PBN Mandates

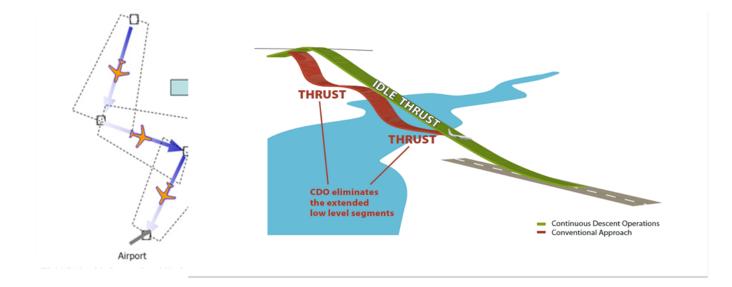






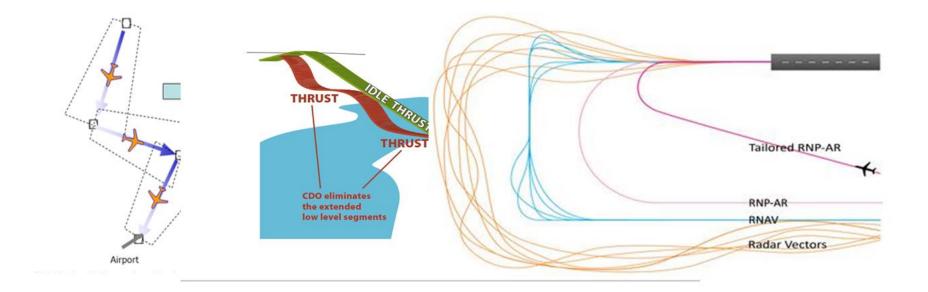
10/12/2018



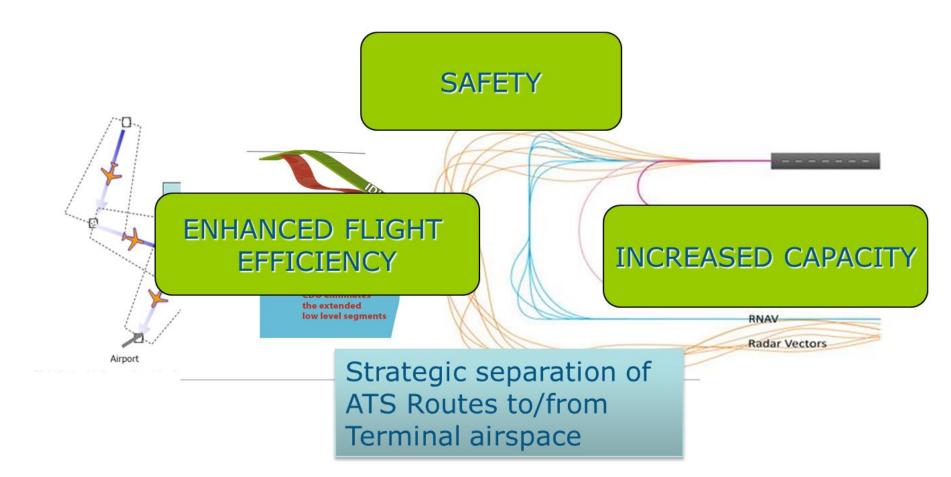


10/12/2018

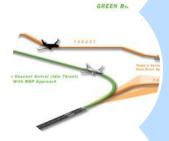












Widespread use of PBN has significant **benefits** for total system **safety, capciaty** and **environmental** impact



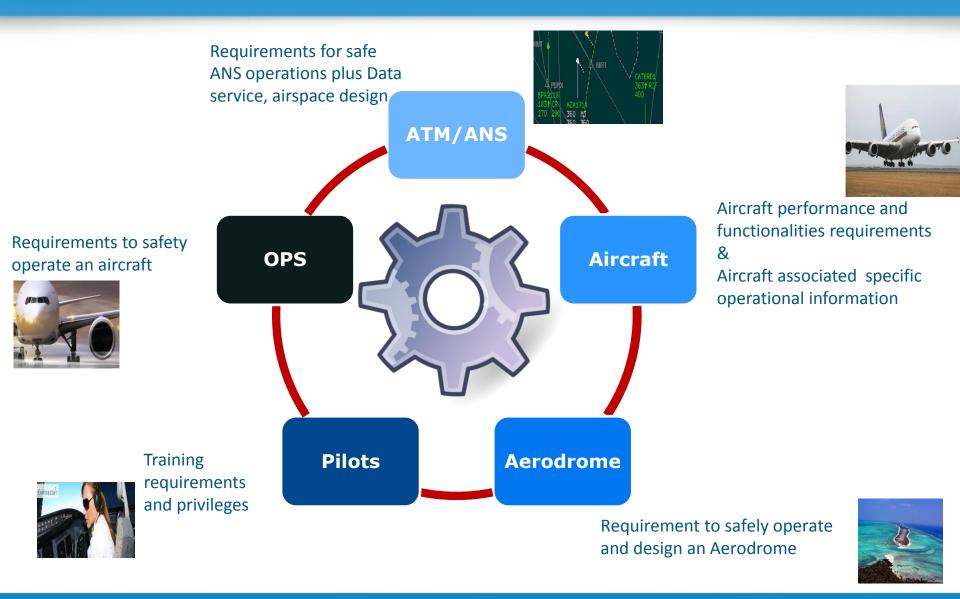
Operating methods based on PBN are, in general, **simpler for flight crews** than conventional navigation, and are the realworld operating methods that have been used for many years by the majority of operators



Commonality in operating methods between PBN specifications







10/12/2018



Navigation

Performance Based Navigation

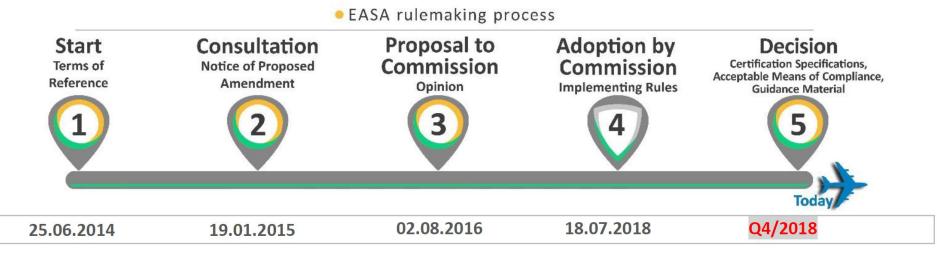






Scope

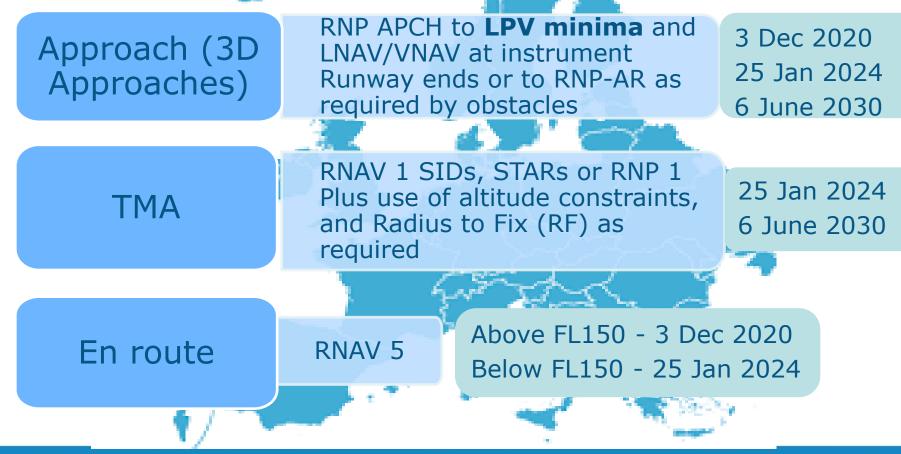
 Implementation of ATS routes and instrument approach procedures i.a.w. a harmonised and agreed set of PBN specifications and functionalities.





PBN Regulations

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

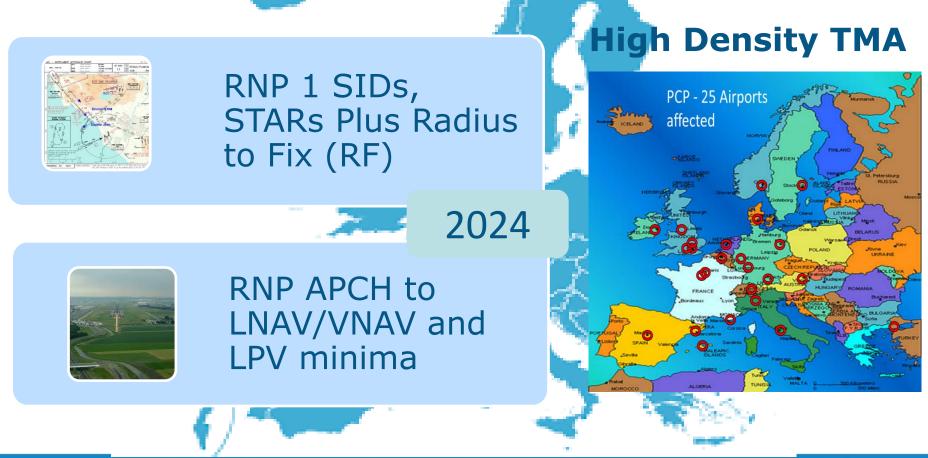


10/12/2018



PBN Regulations

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



10/12/2018



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



Your safety is our mission.

EASA is an agency of the European Union

