



EMERGING ISSUES FOR AIR NAVIGATION

How can Air Navigation Services help
reduce fuel burn

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Focus Areas

- Airspace Design
- Implementation of PBN concept to en-route phase
- Implementation of PBN concept to terminal area procedures
- Air Traffic Flow Management



Airspace Design

- Optimization of the air-route structure
- Reduced Vertical Separation minima
- Reduced longitudinal separation minima
- Reliable surveillance capability
- Assured VHF/HF communication coverage



Implementation of PBN concept to en-route phase

- Closely spaced air routes
- Reduction in longitudinal separation
- More direct routings
- Availability of preferred flight levels
- Making available additional routes during peak traffic period (Conditional routes)
- Flexible use of airspace



Implementation of PBN concept to terminal area

- Efficient RNAV Arrival and Departure procedures
- Improved airspace and airport capacity
- Reduction in delays
- Improve access to airports thru RNP instrument approach procedures



Air Traffic Flow Management

- Airspace and airport capacity constraint
- En-route or over the airport holding
- Weather – restricted access to airport
- Delays and diversions
- Centralised Flow Management as a Strategic Tool



THANK YOU