

Under the High Patronage of the Custodian of the Two Holy Mosques King Salman Bin Abdulaziz Al Saud















برعاية كريمة من خادم الحرمين الشريفين الملك سلمان بن عبد العزيز آل سعود

Under the High Patronage of The Custodian of The Two Holy Mosques

King Salman Bin Abdulaziz Al Saud

29 - 31 AUG 2016 The Ritz-Carlton - Riyadh, Kingdom of Saudi Arabia ۳۱ **- ۲۹ أغسطس ۲۰۱** الريتز كارلتون - الرياض، المملكة العربية السعودية



Global Ministerial Aviation Summit المؤتمر الوزاري العالمي للطيران المدني

www.gmasummit-riyadh.net

info@gmasummit-riyadh.net

Under the Theme "SAFETY & SECURITY"

تحت شعار "الأمن والسلامة

ATS Route Network Optimization Project











Analogy Land Transport Systems: 1970 vs. 2016

Requirement Develop Equipment to Enhance: Safety Accessibility / Speed Handling / Maneuvering Comfort **Environmental Footprint**















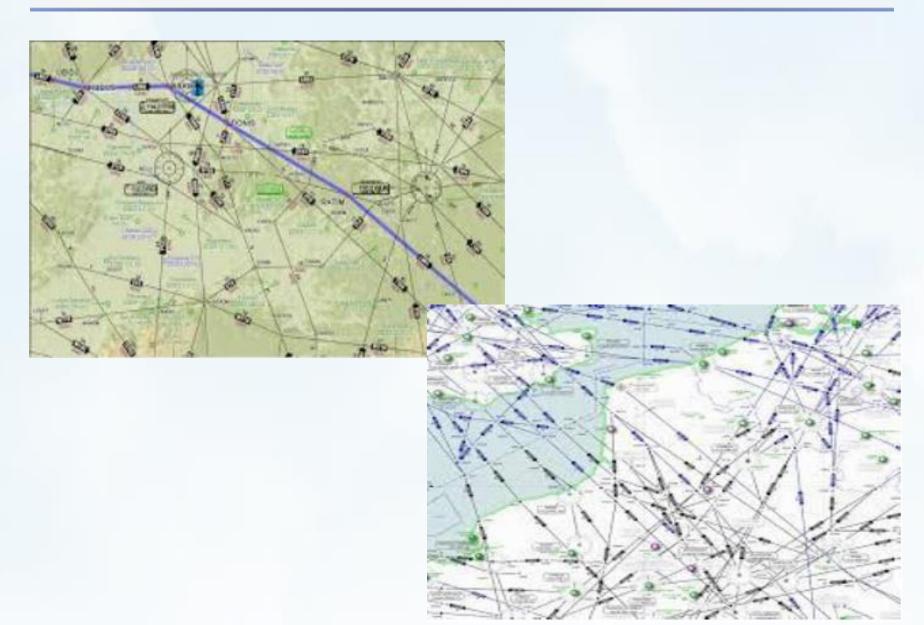




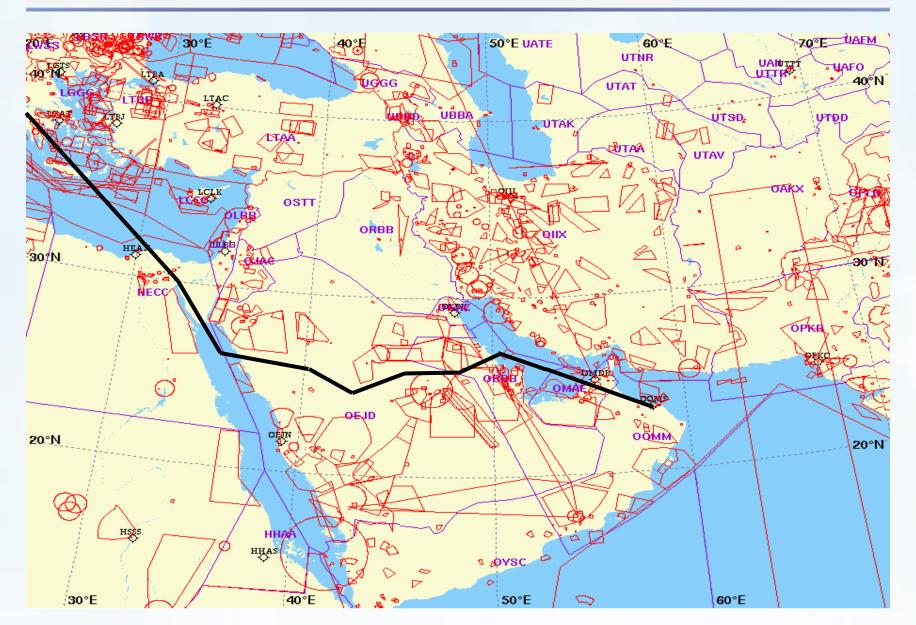










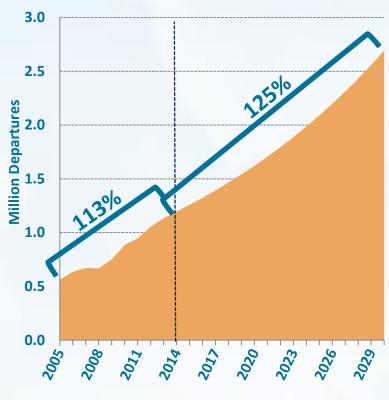












Source: ICAO



- The Region is Running Out of Airspace Capacity, Leading to:
 - Serious Safety Concerns for Civil Aviation
 - > An Increase on the Environmental Footprint of Aviation
 - > Risk on the Growth of Civil Aviation and Its Contribution to National Economies
- The need to Enhance Inter-State Coordination to Ensure Seamless Operations and Optimal Benefit from Individual Development Projects





- > ARNOP is a Project that will Address the Following Issues:
 - ► Increased Safety Risks through the Current Existence of Highly Congested Bottlenecks and Choke Points in the Region.
 - ➤ Longer Routes Mean Higher Fuel Burn which Increases the Amount of Aircraft Emissions as well as Costs on Airlines.
 - Overload on Air Traffic Controllers which Leads to Inefficient Use of Controller Resources.
 - Very Limited Route Options to Support Contingency Planning and/or Responding to Emergency Situations.

- ➢ In order to Deliver, ARNOP will Address:
 - ➤ Enhancing the Regional Route Network through the Implementation of Concepts that Increase Airspace Capacity and Efficiency; including New Airspace Design & Management Concepts and through Civil-Military Collaboration.
 - Fostering Collaboration between States to Deliver a Seamless Air Traffic Management Provisions in the Region, and which will include looking into the different arms of airspace infrastructure:
 - > Systems
 - > Regulations
 - Human Resources
 - Coordinate and Streamline National Projects within a Regional Framework so that National Projects Deliver the Optimal Benefits to Civil Aviation

Benefits

- **Enhance the Safety of Air Operations.**
- ➤ Enhance the Environmental Footprint of Civil Aviation in the Region and Support the Implementation of Environmental State Action Plans.
- > Support Traffic Growth To/From and Through the Region.
- ➤ Enhance the Region's Contingency Planning Activities and Ability to Mitigate the Impact of Crises on Traffic Flows.
- > Enhance the Competitiveness of the Region for Overflying Traffic.
- ➤ Futureproof the Region's Airspace through Utilizing New Airspace Design & Management Concepts.
- ➤ Increase the Efficiency of Air Traffic Controller Resources and Allow Better Planning of Formation/Training Investments.



Action Plan

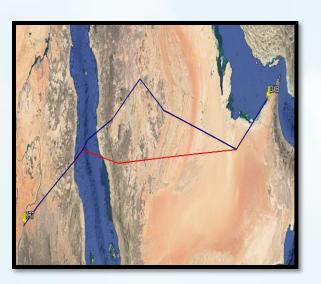
Regional Airspace Study Implementation Phase

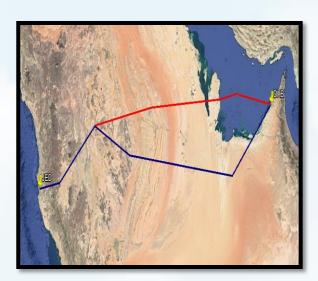
November 2016

Quick Wins



Quick Wins & Savings







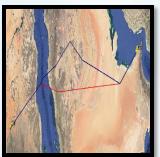








Savings







Estimated Savings Per Flight

- 47 Minutes of Flight Time
- 17 Tons of CO₂ Emissions







Estimated Savings Per YEAR

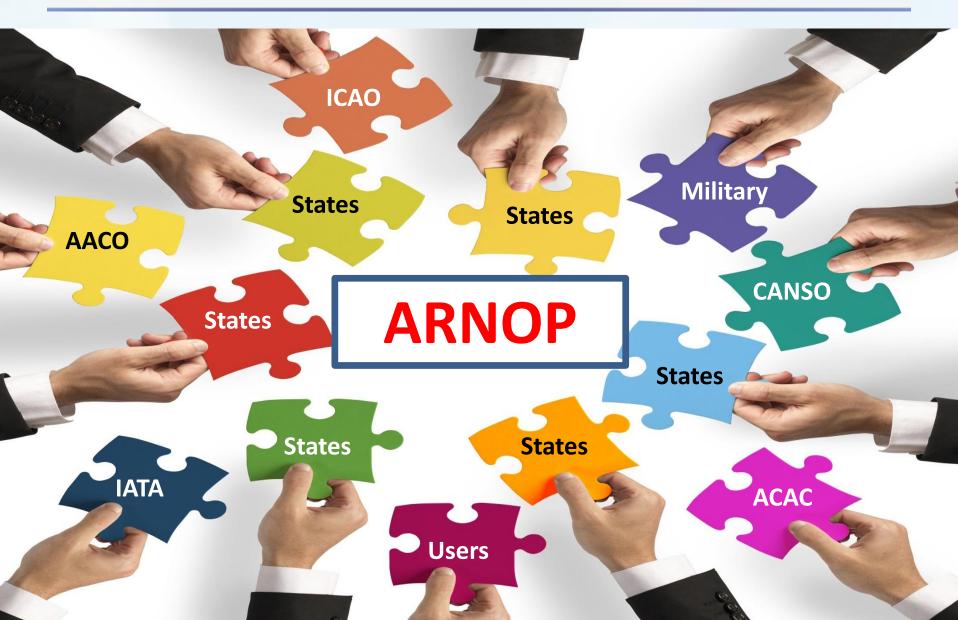
- 300,000 Minutes of Flight Time
- 137 Thousand Tons of CO₂
 Emissions

Estimated Savings of ARNOP per YEAR Over Current Situation

- 2.7 Million Minutes of Flight Time
- 35 Million Tons of CO₂ Emissions

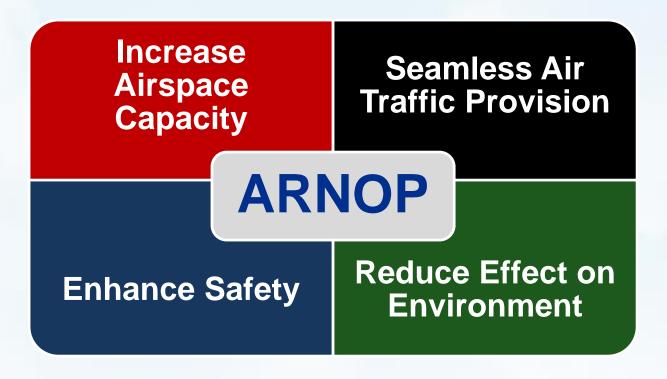


Stakeholders and Next Steps





Conclusion



States and stakeholders are encouraged to Support ARNOP through providing the Political and Financial Resources required to Initiate the Implementation Phase of the Project.



Questions & Answers

