

KINGDOM OF BAHRAIN

Ministry of Transportation
and Telecommunications

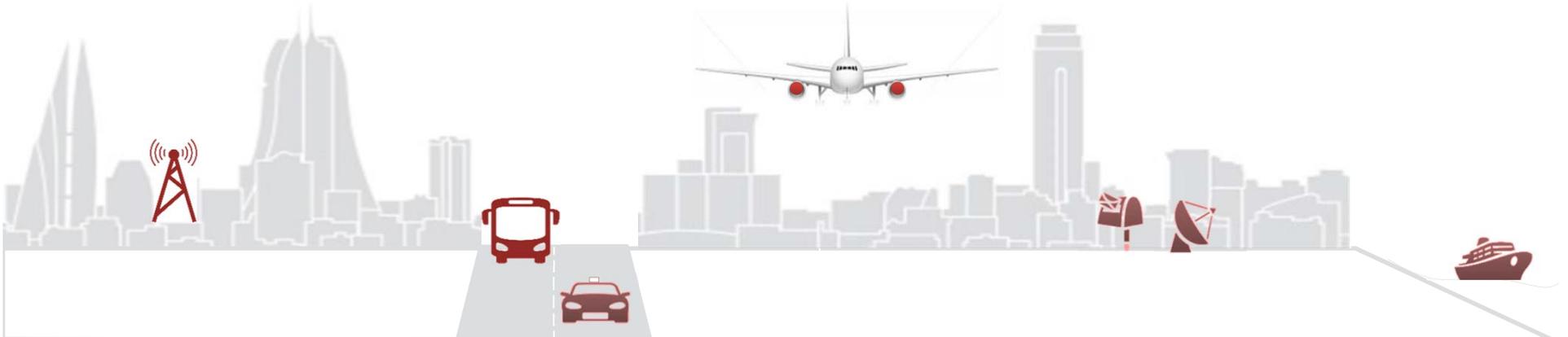


مملكة البحرين
وزارة المواصلات والاتصالات

CDO Operations' Overview

Bahrain

MTT-BCAA





- CDO Operations Status
- Constrains
- ASBU Cost Benefit Analysis
- Fuel efficiency and environmental benefits
“Statistics/Examples”
- RNAV1 STARs chart



Bahrain CDO operations Status

- Bahrain TMA CDO operations, (implemented since March 2015)
- Introduction of 4 RNAV1 STARs
 - LADNA 1
 - KOBOK 1
 - SOGAT 1
 - DENVO 1



Challenges

CDO operations within the Bahrain TMA are constrained due to:

- Close proximity of adjacent TMAs
- Complexity of arrival/departure patterns
- LoAs requirements & limitations
- Military Operations



ASBU Cost Benefit Analysis Highlights

The example is based on the ASBU Working document, Module B0-CDO, Appendix B, Cost Benefit Analysis; CDOs LADNA 1, KOBOK 1, SOGAT 1 and DENVO 1 STARs (RNAV1) for runway 12L/30R, rewarded the following:

- About 150 - 160 aircraft per day fly LADNA 1, KOBOK 1, SOGAT 1 and DENVO 1 STARs
- Representing approximately 80% of all jet arrivals into Bahrain, 80% per cent reduction in radio transmissions
- Significant fuel savings – average 125 pounds per flight, 150 flights/day * 125 pounds per flight * 365 days = 6.85 million pounds/year
- More than 1 million gallons/year saved = more than 20.5 million pounds of CO2 emission avoided

Thank You/Questions?

