



**1. AIR NAVIGATION REPORT FORM (ANRF)**  
(This template demonstrates how ANRF to be used.

**Regional and National planning for ASBU Modules**

**2. REGIONAL/NATIONAL PERFORMANCE OBJECTIVE – B0-10-FRTO:**

***Free-Route Operations (FRTO)***

Improved Operations through Enhanced En-Route Trajectories

**Performance Improvement Area 3:**  
**Optimum Capacity and Flexible**  
**Flights – *Through Global Collaborative ATM***

**3. ASBU B0-10-FRTO: Impact on Main Key Performance Areas (KPA)**

	Access & Equity	Capacity	Efficiency	Environment	Safety
Applicable	Y	Y	Y	Y	N

**4. ASBU B0-10-FRTO: Planning Targets and Implementation Progress**

5. Elements	6. Targets and implementation progress (Ground and Air)
1. Airspace Planning	Dec. 2016
2. Flexible Use of airspace	Dec. 2016
3. Flexible Routing	Dec. 2016

**7. ASBU B0-10-FRTO: Implementation Challenges**

Elements	Implementation Area			
	Ground system Implementation	Avionics Implementation	Procedures Availability	Operational Approvals
1. Airspace planning		NIL	Lack of procedures	

2. Flexible Use of airspace	NIL	NIL		LACK OF FUA
3. Flexible Routing	ADS-C/CPDLC	Lack of FANS 1/A No ACARS at present		Low percentage of fleet approvals

<b>8. Performance Monitoring and Measurement</b> <b>8A. ASBU B0-10-FRTO: Implementation Monitoring</b>	
Elements	Performance Indicators/Supporting Metrics
1. Airspace planning	50% of reduction in track miles based on airspace re-design Supporting Metric: Reduction of track miles based on airspace re-design
2. Flexible Use of airspace	Indicator: 100% of time segregated airspaces are available for civil operations in the State Supporting Metric: Reduction of delays in time of civil flights.
3. Flexible Routing	Indicator: 80% of PBN routes implemented Supporting Metric: KG of Fuel savings Supporting Metric: Tons of CO2 reduction

<b>8. Performance Monitoring and Measurement</b> <b>8 B. ASBU B0-10-FRTO: Performance Monitoring</b>	
Key Performance Areas	Metrics ( if not indicate qualitative Benefits)
Access & Equity	Better access to airspace by a reduction of the permanently segregated volumes of airspace.
Capacity	Flexible routing reduces potential congestion on trunk routes and at busy crossing points. The flexible use of airspace gives greater possibilities to separate flights horizontally. PBN helps to reduce route spacing and aircraft separations. Reduction in controller workload
Efficiency	The module will reduce flight length and related fuel burn and emissions. The module will reduce the number of flight diversions and cancellations. It will also better allow avoiding noise sensitive areas.
Environment	Fuel burn and emissions will be reduced
Safety	NA