S. SWAMINATHAN AAI CHQ

# SEGREGATION VS AGGREGATION

# THE CONCEPT OF 1940s

# Chicago Convention 7 December 1944

Poland 6 April 1945 India 1 March 1947

- Article 44 of the Convention on International Civil Aviation defines
  the privileges and restrictions of all ICAO Member States and
  provides for the adoption of International Standards and
  Recommended Practices (SARPs) regulating international air
  transport.
- Recognizes and accepts the principle that every State has complete and exclusive sovereignty over the airspace above its territory.

# THE CONCEPT OF THE NEW MILENNIUM

# ICAO CIR 330

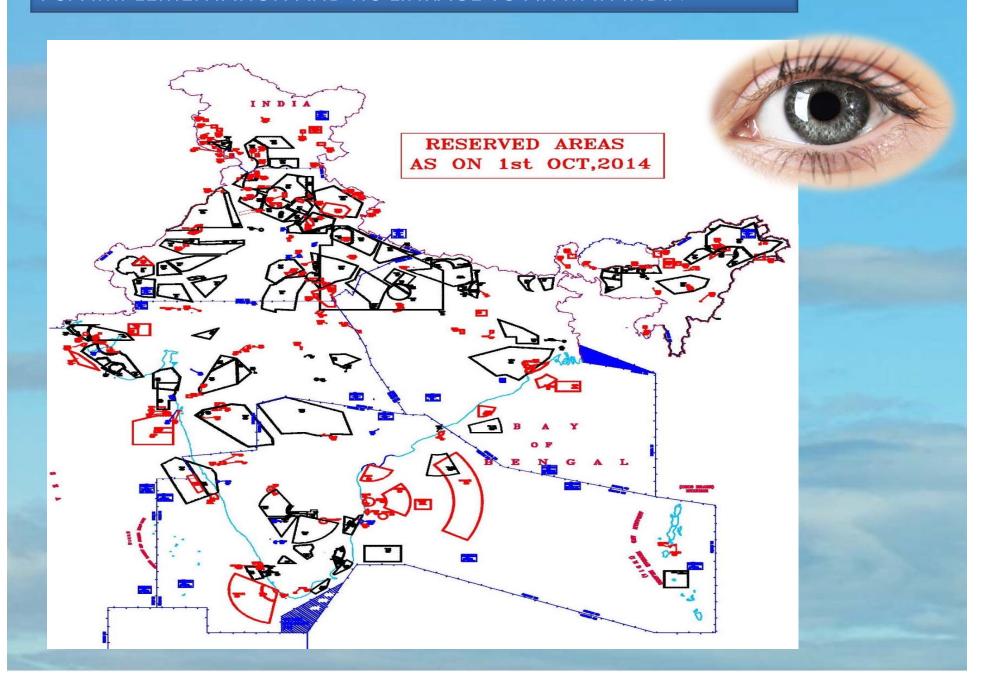
- Airspace should no longer be
   designated as either military or civil airspace but should
- Airspace should be used flexibly on day-to-day basis.

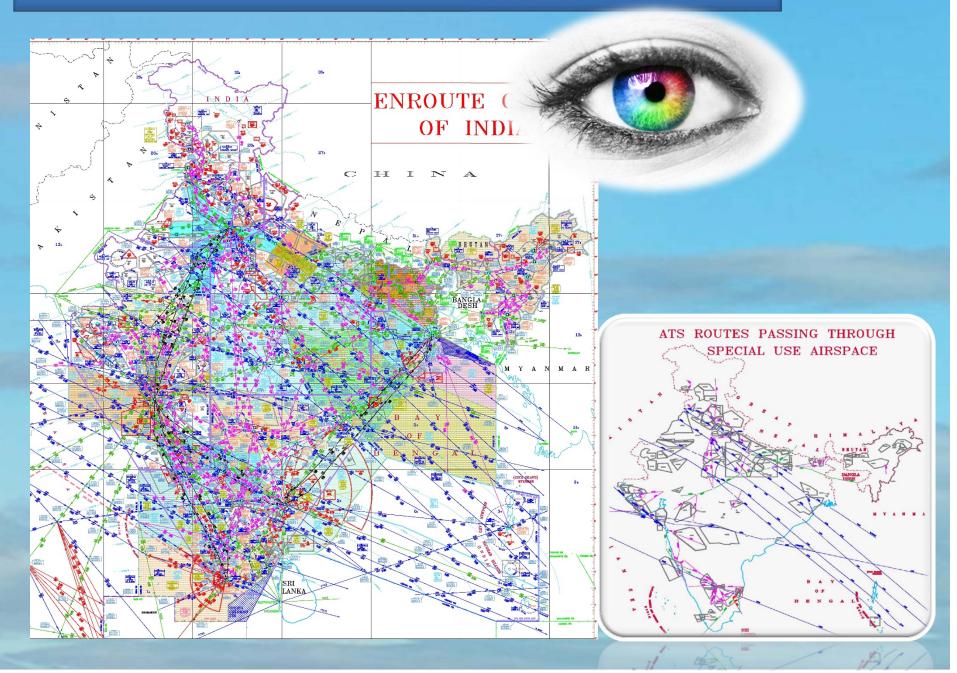
be considered as one continuum and national asset.

Any necessary airspace segregation should be of a temporary nature.



# India

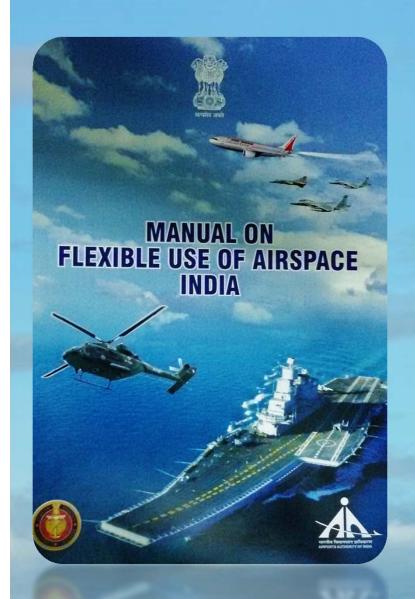




# India

- Six decades of robust Civil Military Cooperation
- Continuous engagement
- Mutual trust
- Joint use of airports
- Joint use of air navigation facilities

PERIOD	DETAILS
Jan, 2007	DGCA - India, submits a report on Flexible Use of Airspace in India
2008/2009	Representatives of Civil-Military authority, including AAI and DGCA delegation visits USA, NATS and Eurocontrol to study FUA implementation
Sep, 2012	MoCA proposed the implementation of FUA, constitution of a NHLAPB, authorizing the NHLAPB to set up appropriate committees to take suitable decisions to implement FUA in India
Mar, 2013	Government of India approved the implementation of FUA and the constitution of NHLAPB.
May, 2013	Draft Roadmap for the implementation of FUA in India prepared
ŕ	NHLAPB Constituted
Dec, 2013	National Airspace Management Advisory Committee constituted.





Manual of FUA India V 1.0 .pdf

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DRAFTING THE MANUAL ON FUA IN INDIA

• ADOPTION OF THE MANUAL ON FUA, INDIA, V 1.0

VALIDATION OF THE MANUAL ON FUA, INDIA V 1.0

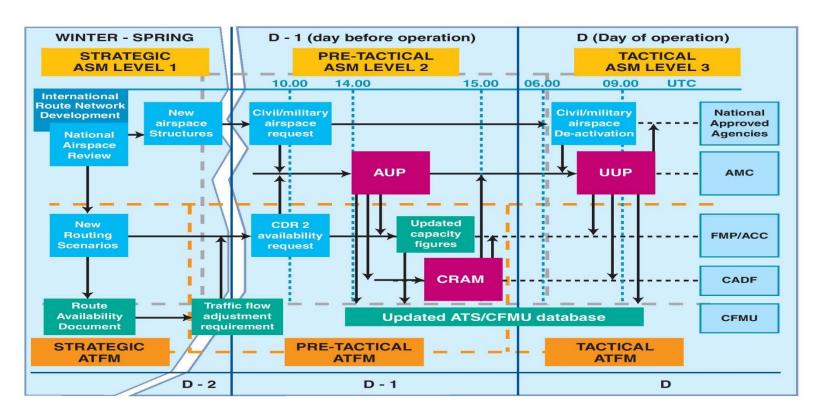
FUA AWARENESS EDUCATION PROGRAMME



### **ASM / ATS / ATFM Relationship**

As an integral part of Air Traffic Management (ATM), Airspace Management (ASM) works in close cooperation with both Air Traffic Services (ATS) and Air Traffic Flow Management (ATFM).

In order to materialise the full benefits resulting from the introduction of the Concept of the Flexible Use of Airspace, ASM, ATS and ATFM procedures and timetables have been harmonised at all the three Levels.



<ul> <li>AIRSPACE MANAGEMENT CELLS (AMC) vs FLOW MANAGEMENT POSITIONS</li> </ul>
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NATIONAL AMC IN CATFM CENTRAL COMMAND CENTRE

CENTRALISED AIRSPACE DATA FUNCTION (CADF)

• FUA INFORMATION MANAGEMENT – AUP/UUP/CRAM

OVERLAPPING FUNCTIONS

COMMON RESOUCRES FOR EFFICIENT MANAGEMENT

# **PROVISIONS FOR**

BASIC FUA
AND
DYNAMIC AIRSPACE MANAGEMENT (DAM)

POST CATFM IMPLEMENTATION

AVAILABLE IN THE MANUAL ON FUA, INDIA





