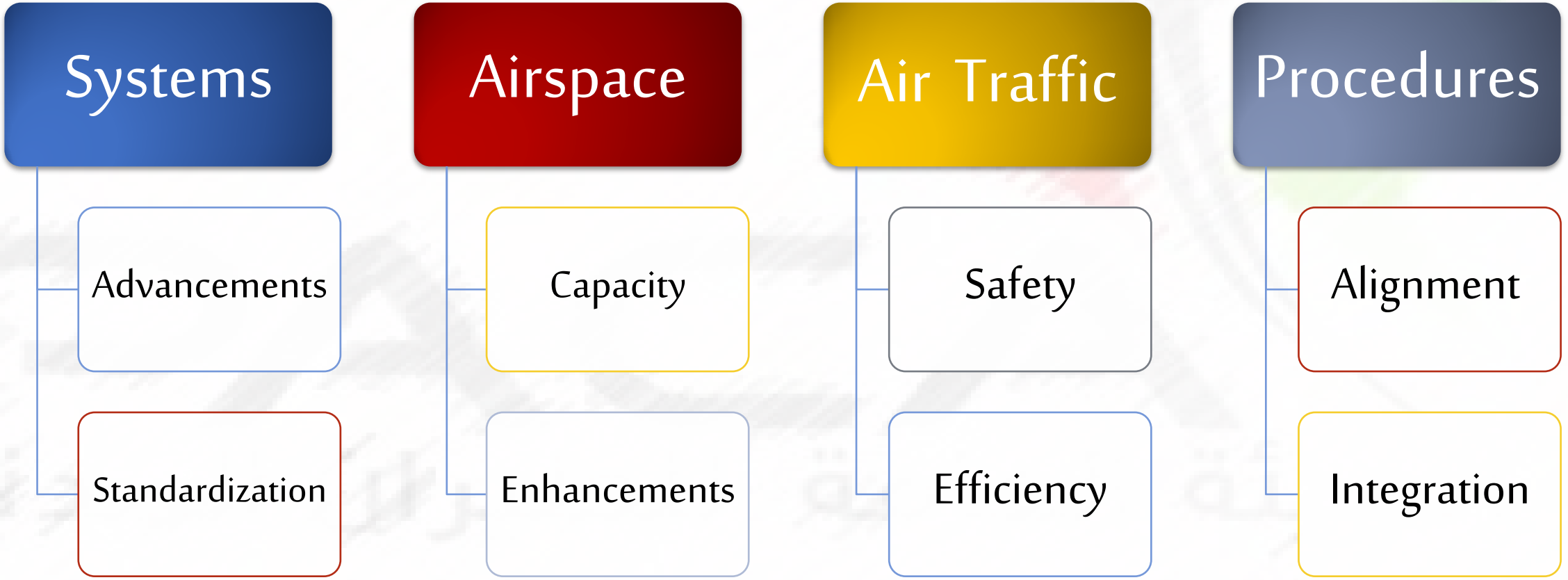
Air Navigation Services Development in Oman

Air Navigation Services Development Objectives



Standardized Nationwide Development

Wide-Ranging Development

Revised Org. Structure

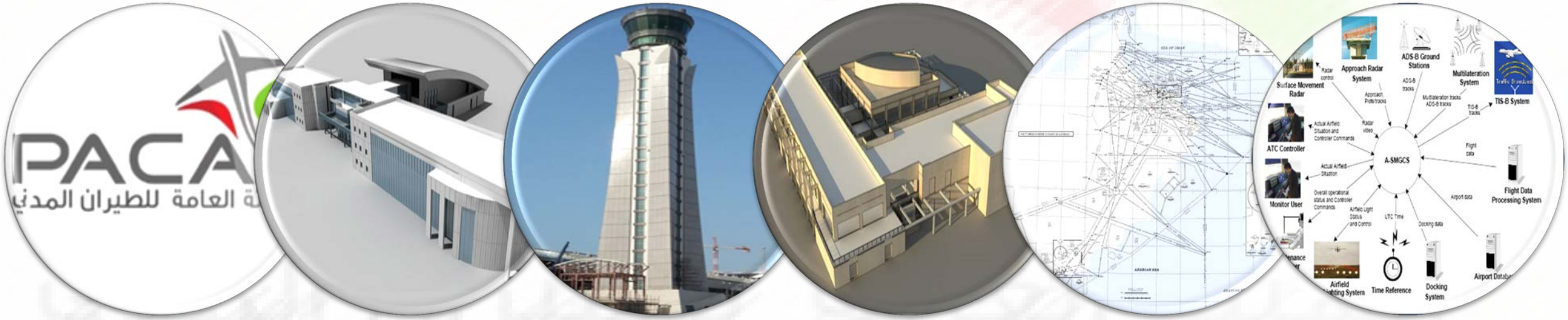
New ATM Centers

New ATC TWRs

New C & TC

Strategic Airspace Development

Advanced CNS Systems



Organizational Transformation Program

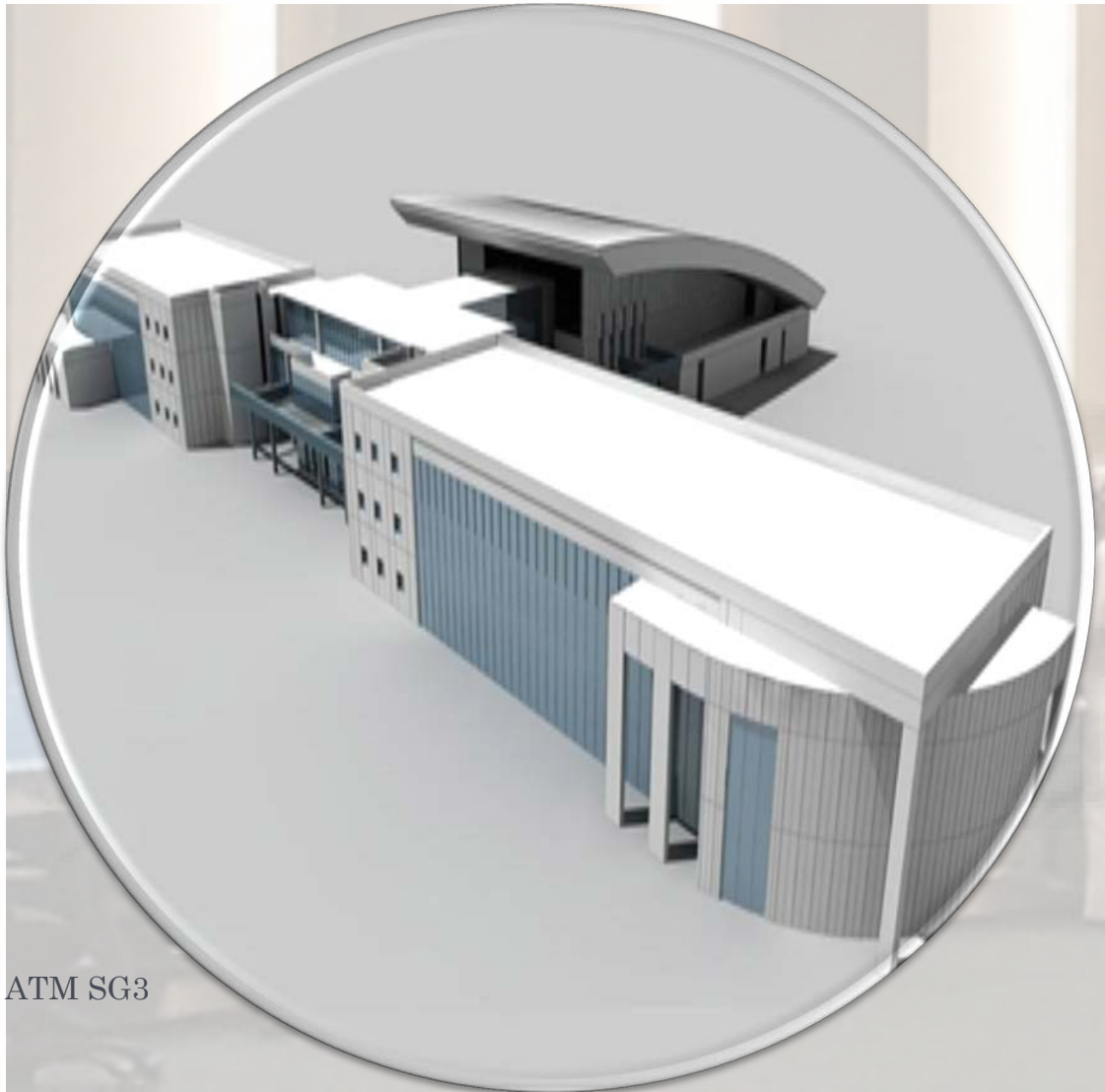
1. 2012 Org. restructuring program PACA Establishment
2. 2017 Corporatizing ANS

New Advanced ATC TWRs

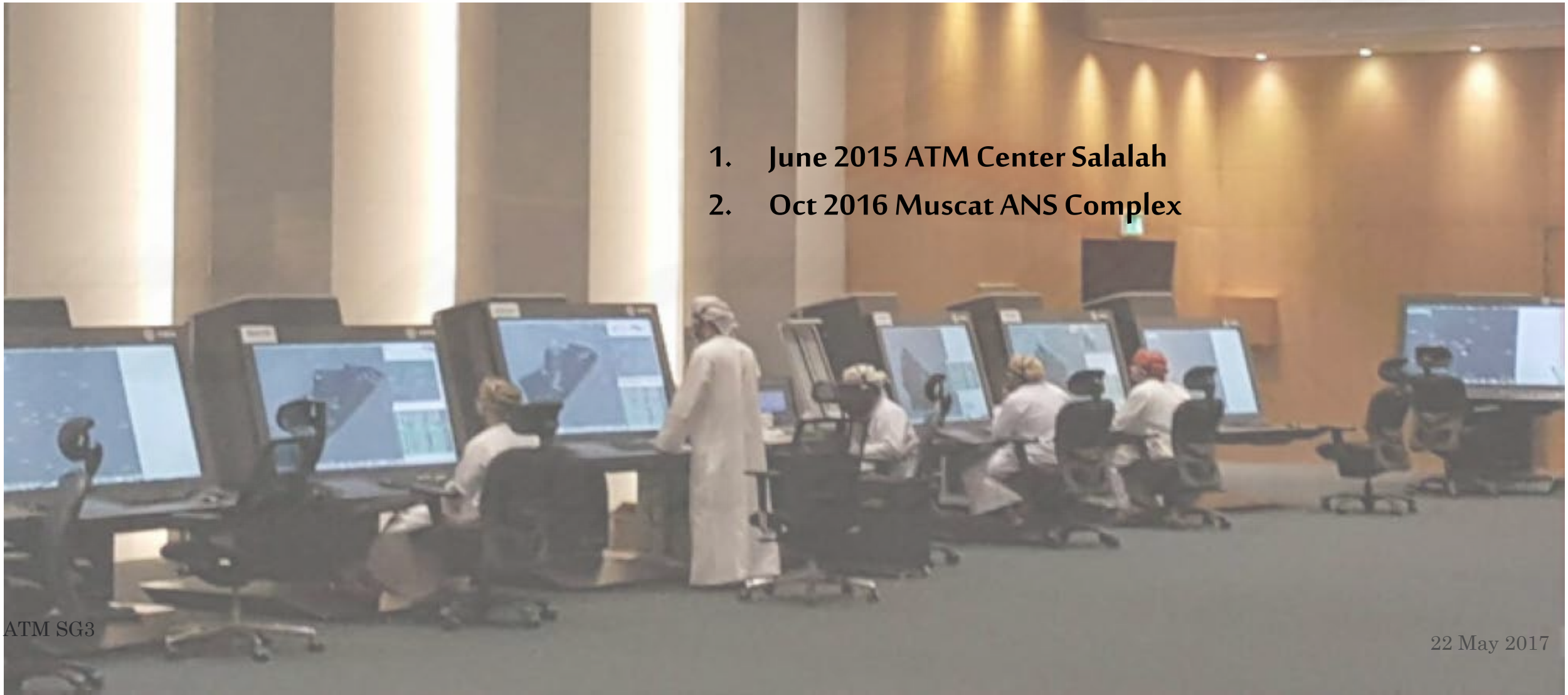
New Advanced ATC TWRs

1. Dec 2014 Muscat Airport TWR
2. June 2015 Salalah Airport TWR

New Advanced ATM Centers

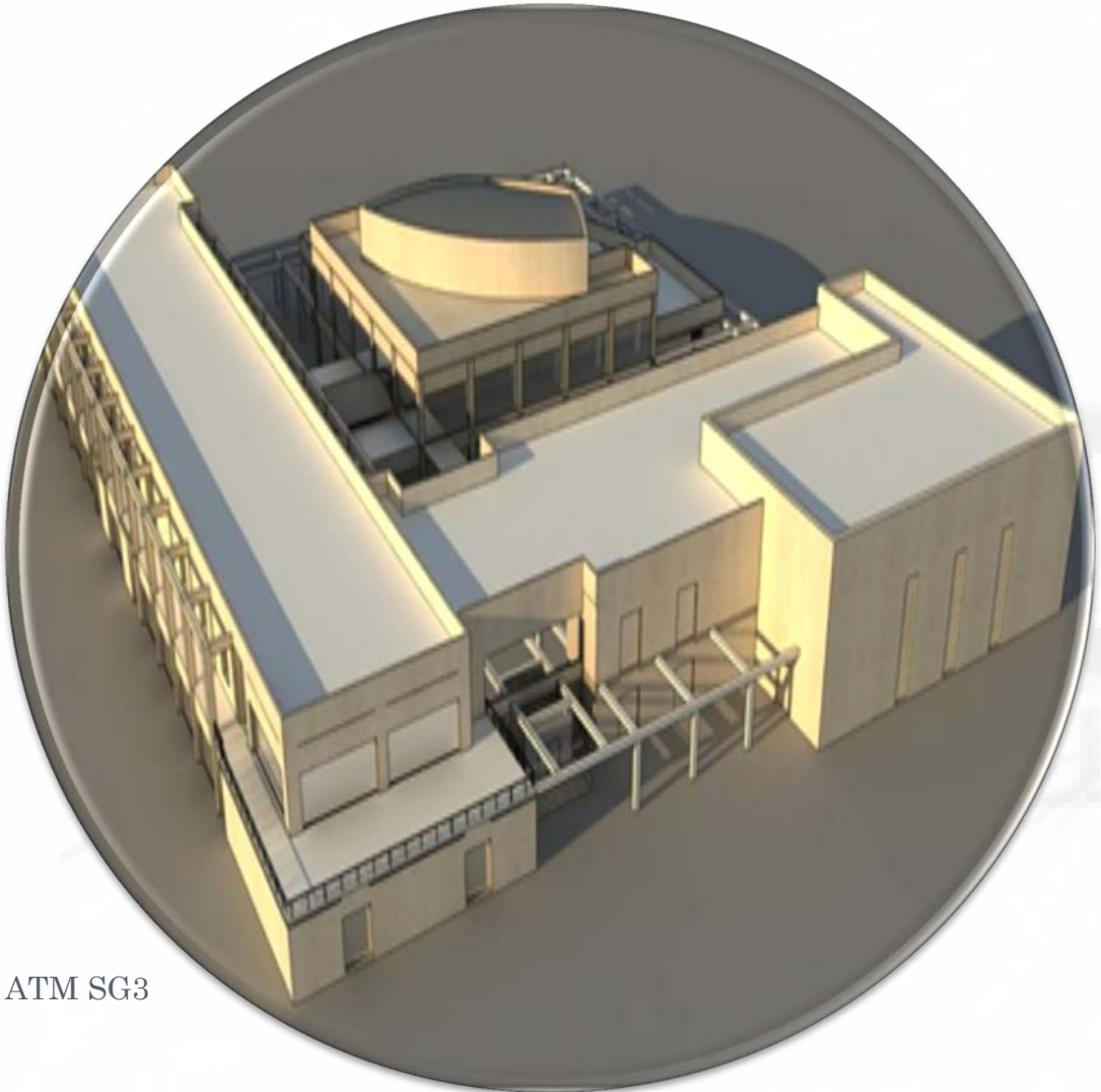


New Advanced ATM Centers



1. June 2015 ATM Center Salalah
2. Oct 2016 Muscat ANS Complex

Contingency & Training Centers



1. 2015 ATM Training Facility, ATM Contingency unit South.
2. 2017 ANS Training Facility, ANS Contingency Center North.

Air Navigation Services Capabilities

1. SDP :

- Single & Multi Radar Processing, Multi sensor Data Fusion : MLAT, Radars, SMR, PSR weather data.
- Safety Nets, RVSM, MTCD, STCA, Area Proximity Warnings, MSAW

3. DLS :

- DVOLMET
- DATIS

5. Direct Radar Access (Bypass) :

- SDP Bypass Mode,
- Single Radar Processing,
- Sensor Selection.

7. CWP :

- Air Situation Display, Integrated (56')
- SDP HMI,
- Track Manual Update.

Air Navigation Services Capabilities

2. FDP :

- Flight Data Processing,
- FPL Associated Messages,
- OLDI & AIDC Messages,
- AFTN Interface.

4. Data Recording & Playback :

- Air Situation Display Recording,
- Playback,
- Time Synchronization with Voice,
- Archiving.

6. System Time Synchronization :

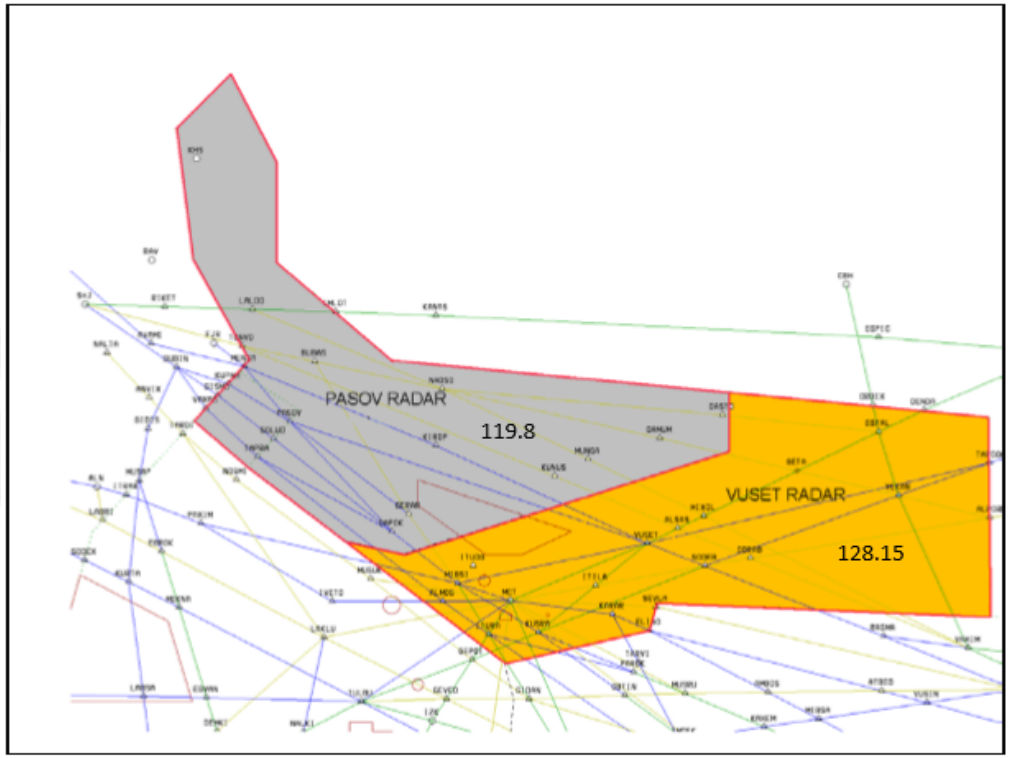
- Dual GPS Receiver,
- Network Time Protocol,
- Node Time Update.

8. Flight Data Operator:

- FPL List / Retrieve,
- FDP HMI
- FPL Manual Update,

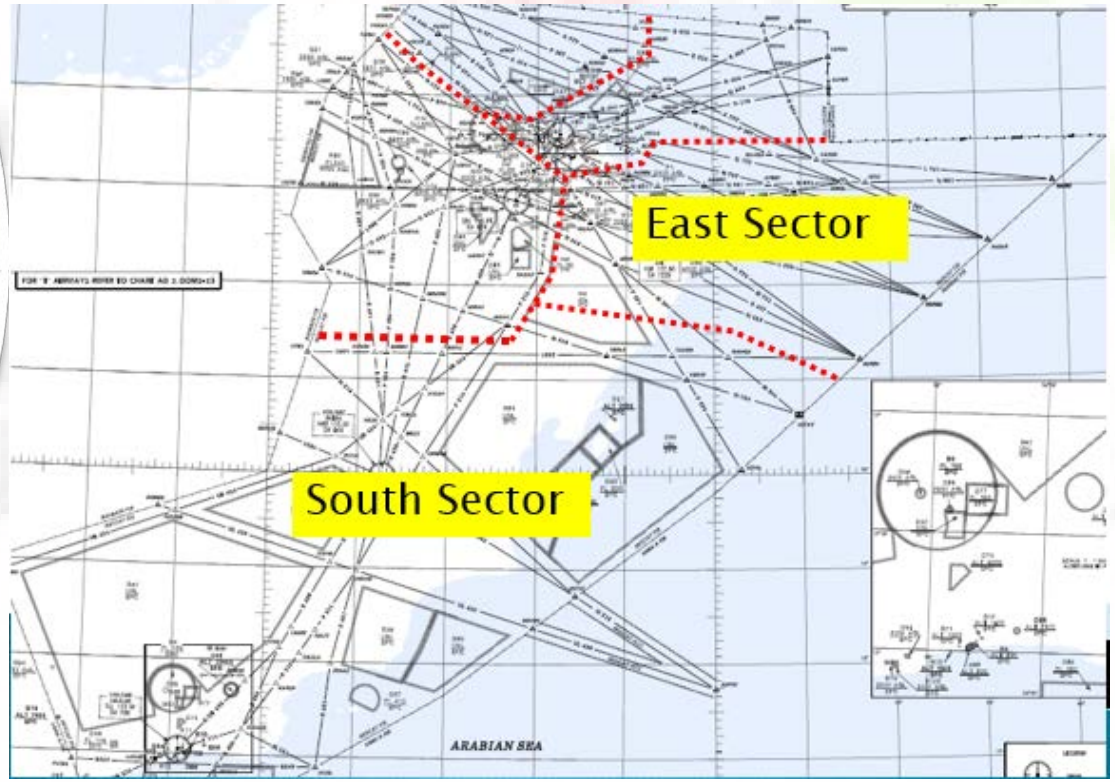
Strategic Airspace Restructuring & Development

1. Previous Developments , RNAV1/RNAV5, ACP-1



Airspace Restructuring & Development

2. Last Development Airspace Change Project -2 :

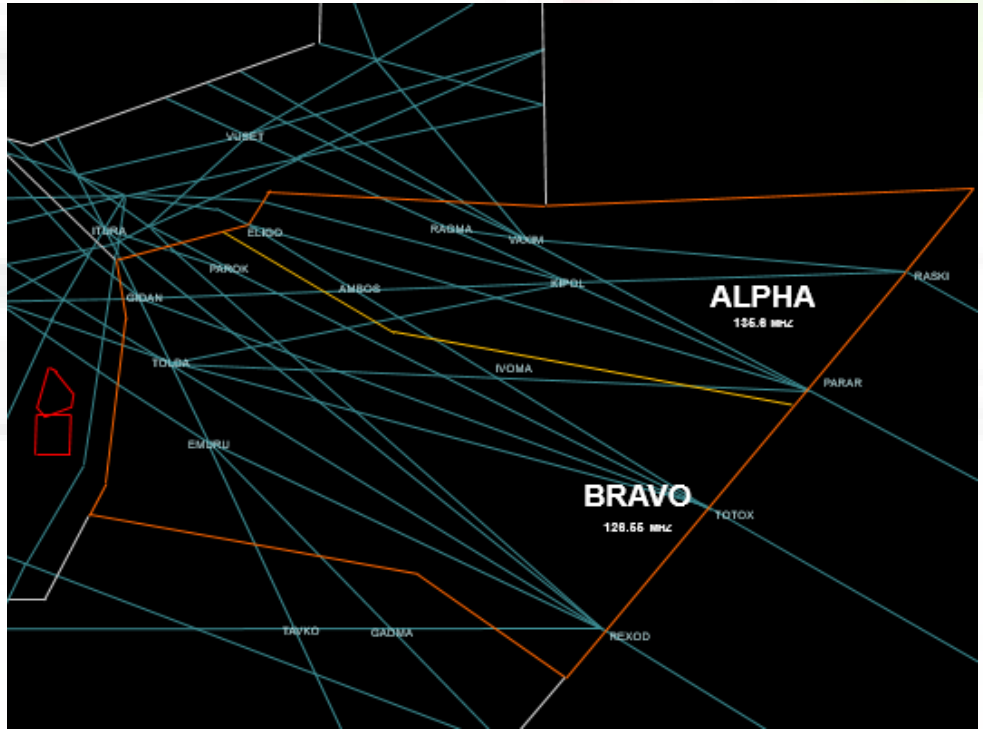


Airspace Restructuring & Development

3. Ongoing Development Airspace Change Project -3 a (ACP-3a 25 May 2017 – ACP3b October 2017)

Airspace Restructuring & Development

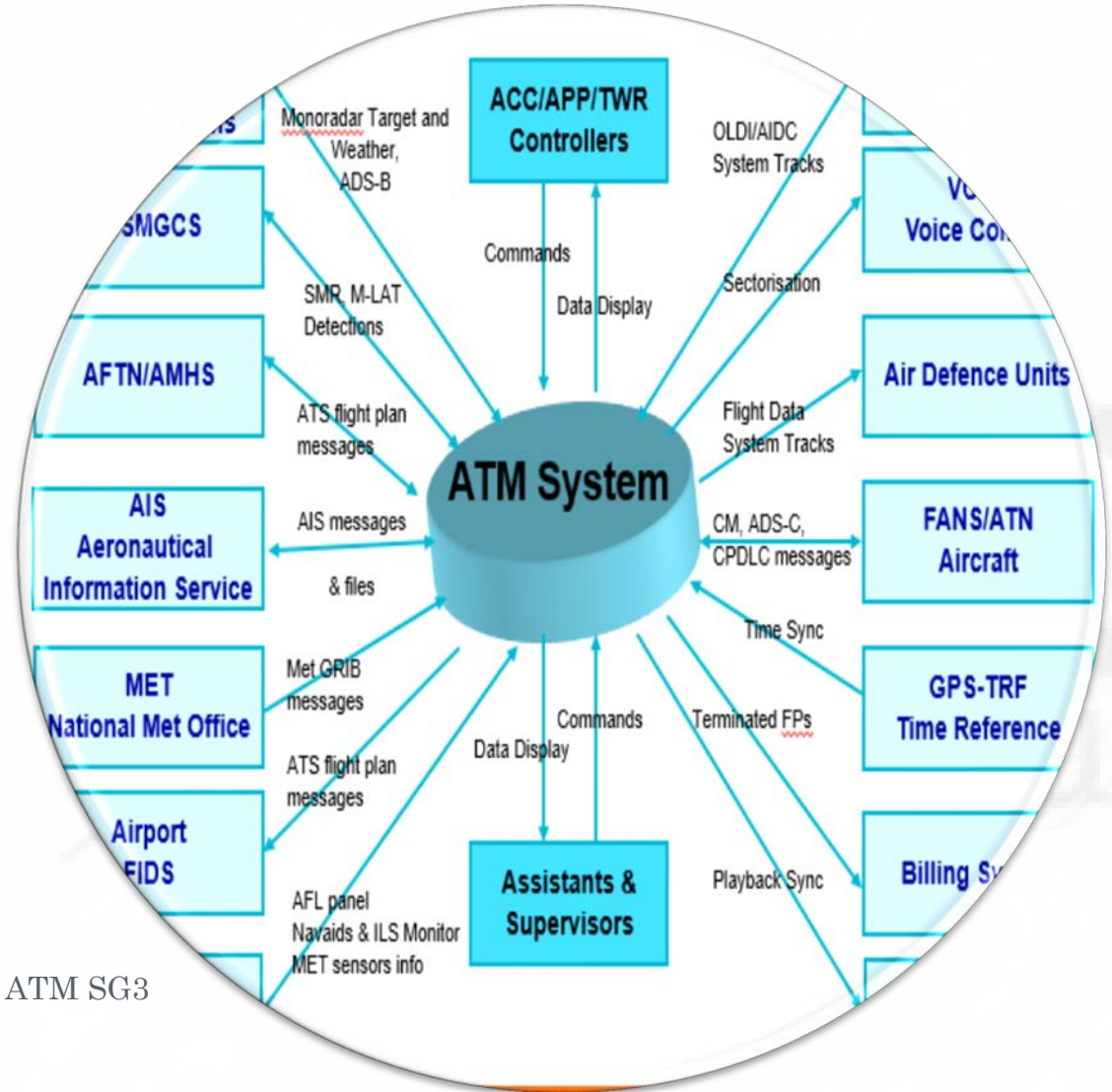
3. Ongoing Development Airspace Change Project -3 a (ACP-3a 25 May 2017 – ACP3b October 2017)



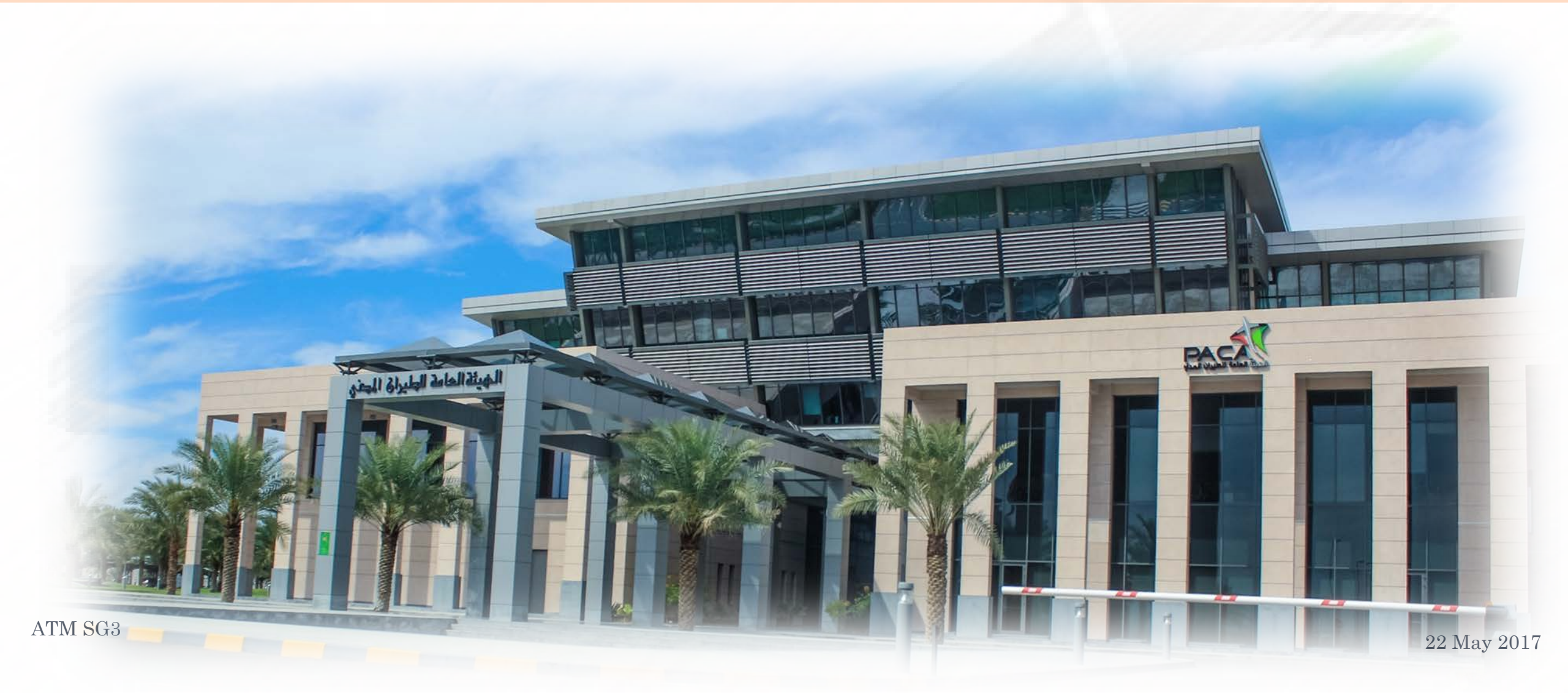
Airspace Restructuring & Development

1. Airspace Change Project -3 a (ACP-3a 25 May 2017)
2. Air space Change Project-3 b (ACP-3b Q4-2017, Q1-2018)

ANS Infrastructure (Facilities & CNS)



Org. Structure:

1. **2012 PACA Establishment**
2. **Corporatize ANS**

Thank you