MIDDLE EAST REGIONAL MONITORING AGENCY الوsالة الإقليمية لرصد الحرىة الجوية لالـبا

# Middle East <br> Visualization and Simulation of Air Traffic 

## MID-VSAT

## ATM SG/3

Cairo, Egypt, 22 - 25 May 2017

## Objectives:

- To visualize traffic flow in the ICAO Middle East region
- To understand the major congestion areas
- To gain a better understanding of the airspace usage


## Features:

Regional Traffic View
Vertical and Top-View traffic display (3D \& 4D)
FIR boundary display
Flight track display
Day-Night effect based on traffic data
ACFT Call Signe, FL, Sectors, Airways Filters

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## Data requirements:

## Traffic data

Airspace data (FIRs, Airports, Waypoints)
Aircraft Models
Earth Model

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## Software Development Status

The MIDRMA Team and the UNSW research team manged to write and develop the software engine and the parameters required to visualise the traffic flow in 3D, while the 4D feature is still under development.

So far, the software in its early development stage ( second beta version ) and required a lot of enhancements.
According to the software working scope we have another 4 beta versions to include all the features.

The MIDRMA decided to keep the working scope open with the UNSW research team even after we receive the final version to obtain the MIDRMA Board comments and observations.

## Middle East

Visualization and Simulation of Air Traffic Some Snapshots of MID-VSAT ( Second Beta Version )

## MIDRMA

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## Day/Night Effect

## MIDRMA



## MIDRMA

## Vertical Bird Eye View

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## Horizontal Bird Eye View



## Traffic Flow Visualization



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## MIDRMA

## Traffic Flow at Night




## www.midrma.com

