



# SUDAN CIVIL AVIATION AIR NAVIGATION

## FLIGHT PROCEDURES DESIGN OFFICE HOSTING PROPOSAL

# Introduction



- ▶ **Sudan Civil Aviation Authority is fully supported by the & DG to take lead and host this program and harnesses potentials to establish and host this program.**



# ICAO LOGISTIC REQUIREMENTS

- ▶ According to the requirements adopted by the ICAO MID to established this office taking into considerations all technical needs we are ready to offer:
- ▶ buildings ( Minimum 2 floors)one for administration and other for the training.
- ▶ furniture's
- ▶ Software
- ▶ Others training tools



# EXTRA NEEDs ADDED

- ▶ Sudan Civil Aviation decided to add some logistic in addition to the ICAO requirements so as to support the MID FPP staff to run their job in harmony and smooth way :
- ▶ 1 / Car for the manager.
- ▶ 2 / Car to be designated as service car.
- ▶ 3 / Receptions Desk
- ▶ 4 / Security .



# TRAINING AND ACCOMMODATIONS

- ▶ We plan to host this office in the area which is very close to the air navigation center taking into consideration the availability of apartments and hotels in this area to accommodate the trainees with very reasonable prices and secured area.



# PROCEDURES DESIGNERS TEAM

- ▶ We have 4 procedures designers carried out their training in ENAC /Toulouse (2011) for 3 courses as follow:
- ▶ 1 / NON PRECISION APP
- ▶ 2 / PRECISION APP
- ▶ 3 / RNAV APP
- ▶ Including SIDs ,STARTs, TMA and HOLDINGS
- ▶ Then after continue on OJT for 18 months with experts as recommended by ICAO in Doc 9906



# OUTCOME

- ▶ **DESIGNED 14 RWY ENDS FOR 7 AIRPORTS AS FOLLOW:**
- ▶ **SIDs & STARs**
- ▶ **VOR/DME APPROACH**
- ▶ **VOR APPROACH**
- ▶ **ILS APPROACH**
- ▶ **R NAV APPROACH**



# SOFTWARE

- ▶ 1 / Geotitan....French software  
4 licenses
- ▶ 2 / DATA 4FLIGHT 4 licenses
- ▶ 3 / CHART 4 FLIGHT 4 licenses
- ▶ 4 / OLS ( OBSTACLE  
LIMITATION SURFACES) 2  
licenses



# DATA

- ▶ Yes it was challenges to have accurate and validated data ,So from beginning we decided to go for Real man made obstacles survey around the airports with national survey company then after we validated by national survey department.

# APPROVAL

- ▶ Second challenge we faced was the approval issue ,we act accordingly and due time factor out source was good option to solve it temporary ,on same time we plan to train regularities staff to take over in the near future

# WISHES

- ▶ The hosting MID FPP become one of our main goals in Sudan PD Unit.
- ▶ We dream about that , And we have good infrastructures to do it

**THANK YOU  
QUESTIONS**