

UNITED NATIONS AVIATION

Procurement of Aviation Support and Unmanned Aerial Vehicles

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- >Growth
- > Fleet Size
- > Fleet Change Past and Future
- > Increasing capability
- > New Technologies
- > Procurement of Civil and Military Assets
- >UAVs

What We Do!



- > Logistic Air Support
- > Passenger
- > VIP/Negotiation and liaison
- > Aerial Patrol, observation and monitoring
- > Armed Security Protection Force
- >24/7 Aero-medical evacuation,
- > Search and Rescue

What We Do!

Sierra Leone









- > 1999 47 Aircraft
- > 2011 270 Aircraft
 - 100 Fixed Wing
 - 100 Civil Helos
 - 70 Military Helos

Comparison With Regular Forces



- No funding for a Standby Capability
- SDS Brindisi, Italy
- > Procurement time 4-6 months
- > Emergency response from WFP
- > Ability to seek ANY aircraft type





Changes in FW Aircraft Types



- > 10 years ago
 - Pax on cargo aircraft
 - IL76, L-100, An-26, Beech 200
- >Today
 - Cargo: No change but plans unfolding
 - Pax: 757, 737, MD83, CRJ, Dash 8, Let
 410 STOL, Beech 200, Learjet

Pax Utility and Liaison Aircraft





Cessna Citation II

Beechcraft 200



Medium fixed wing





L-100 Hercules





Heavy fixed wing





Plans for the Helo Fleet



- > Build runways Use fewer helos
- > Attract smaller faster helos for casevac S. Sudan
- > Fuel efficiency
- > Encourage increased medium helos availability
 - Reduce Air Carrier investment Risk
 - Manufacturer involvement
 - Pool of lease aircraft
 - 50 Helos for Civ/Mil use built for purpose

Heavy helicopters

MI-26





Medium and Attack helicopters





Mi-24



Mi-8MTV



S-61N Bell-212 AS-330 Puma



Infrastructure

Limited Support - Chad Refuelling Mi8MTV



Iriba Airport! Chad

Extendable Runway!



Upgrades



- Runways and Aprons
- > Hangars and Fuel Farms
- > Runway lights, including Solar
- ➤ Mobile Towers
- > Cat 7 Fire Service
- > Nav Aids DME, ADSB, GNSS, Satellite Tracking
- Cargo Handling Systems Contracts
 - Allows change of aircraft CN 235, B-777, A400?

Aircraft Acquisition Process



- Military
 - LOAs 1 year
 - MOUs
 - Force Requirements, FGS, Single Mission
- > Civilian
 - Contracts 3years
 - Flexible, Multi-mission, Regional
 - ITBs vs RFPs

Command and Control



- Accident History
- Single Air Ops Centre
- Jointly manned
- SOPs for delegated pre-approved launch authority
- Limited hours on LOA
- Scarcity of resource
- Member States impose budgetary constraint



Unmanned Aerial Vehicles

C-34 Proposals and Recommendations

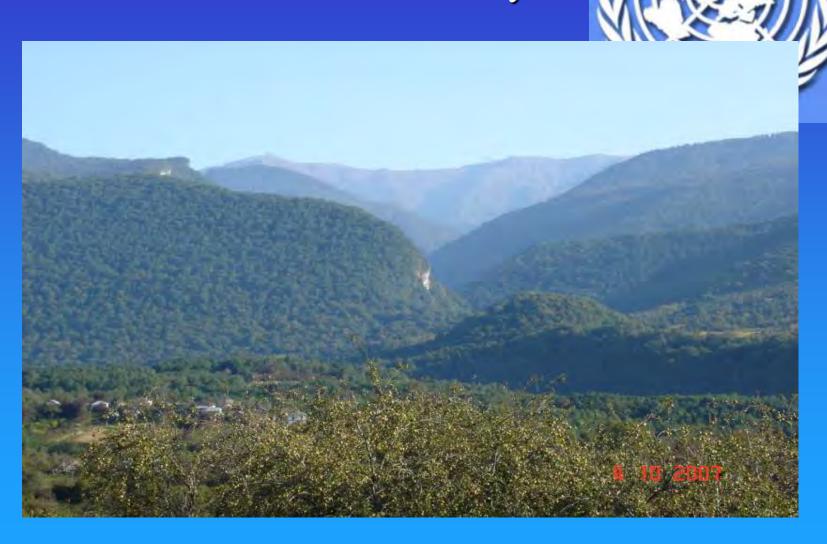
> 2006

- Examine all forms of monitoring and surveillance technology, particularly aerial monitoring.
- Ensure safety and security of peacekeepers.
- DPKO: Comprehensive assessment in 2007

> 2007

- Welcomes a study launched
- Secretariat to develop appropriate modalities for the use of advanced monitoring and surveillance technologies (legal, operational, technical and financial)

UNOMIG UAV - Kodori Valley





Why Have UAVs?



In essence:

- 1. Use UAVs to do tasks we currently cannot or would not do.
- 2. Do current tasks safer, better, longer and cheaper.

Based on MONUC Requirements



- \triangleright 2 x 3. Over the horizon relay UAV
- >8+ hours loiter
- ➤ Range: 250+ km
- > Altitude: 10,000'+
- > Identify 2m target at 5km
- > Safety modes
- > 10 hours ops, 5 days/week
- >72 hours surge
- > Self reliant contractor
- > Contractors alongside Air Ops and Mil
- Estimated Cost \$3M per UAV



Procurement Process



- > Failure of TCCs to respond
- **EOIs 2007**
- > RFP 2008
 - Non-specialist view of Mandatory Requirements
 - Costs
 - Vendor visit to MONUC
 - HCC Rejection
- > RFP 2009
 - Confidence Boosting of the process
 - Mission Cancellation Economic Impact





And Finally!



Unmanned Parachutes

Somalia

GPS Guided Parafoil





Ceiling 35,000 ft Glide up to 30 miles Max. gross 2,000 lb

In Summary



UN Aviation of today is a far cry from that of yesteryear. Much has been done but much remains to be done.

Passenger carrying has been overhauled.
Helicopter provision is in the process of a radical change.
Air cargo is primed for change.
Airfield infrastructure capabilities are being focused.

New technologies are being employed. Staffing, training..... the list goes on.

