TOOLS OF THE TRADE? MONITORING TECHNOLOGIES IN UN PEACEKEEPING



Dr. Walter Dorn Presentation to the UN Special Committee on Peacekeeping Operations (C34) 5 March 2007

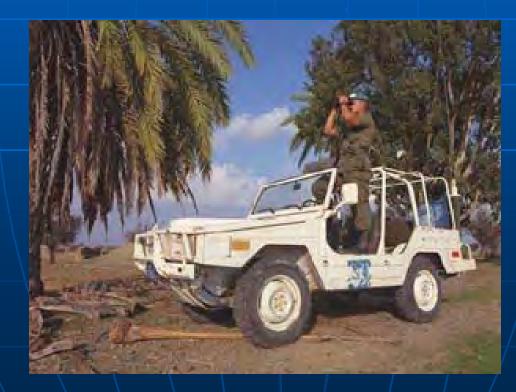
Monitoring Mandates

- Cease-fire and peace-agreement verification
- Protected areas and persons
- Sanctions and no fly-zones
- Armed groups and spoilers
- Resource exploitation
- Elections and human rights
- DDR and SSR
- Safety and security of UN personnel

TRADITIONAL TOOLS

 The Human Eye ... sometimes aided by binoculars





PROBLEMS OF CURRENT MONITORING

Limited capabilities ...

- over large areas
- at night
- for underground detection
- in remote/difficult terrain
- information recording, analyzing, sharing and storage

Technology to the rescue?

Four Conclusions

1. Technology can be of immense value in monitoring, preventing and mitigating conflict.

2. Technical monitoring can increase the safety and security of peacekeepers as well as the effectiveness of the mission.

BENEFITS OF MONITORING TECHNOLOGIES

- Increases range and accuracy of observation
- Permits continuous monitoring
- Increases *effectiveness* (including *costeffectiveness* in some cases)
- Decreases intrusiveness
- Increases safety
- Provides recordings

Night Vision



Thermal Imaging



Aerial







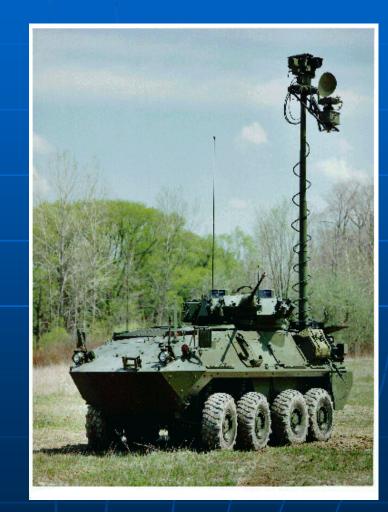
Ground

Underground



MULTISENSOR SYSTEMS

- Reconnaissance
 Vehicles
- APC with
 - GSR
 - IR sensors
 - low light TV
 - laser range finder
- Mobile
- Extendible mast

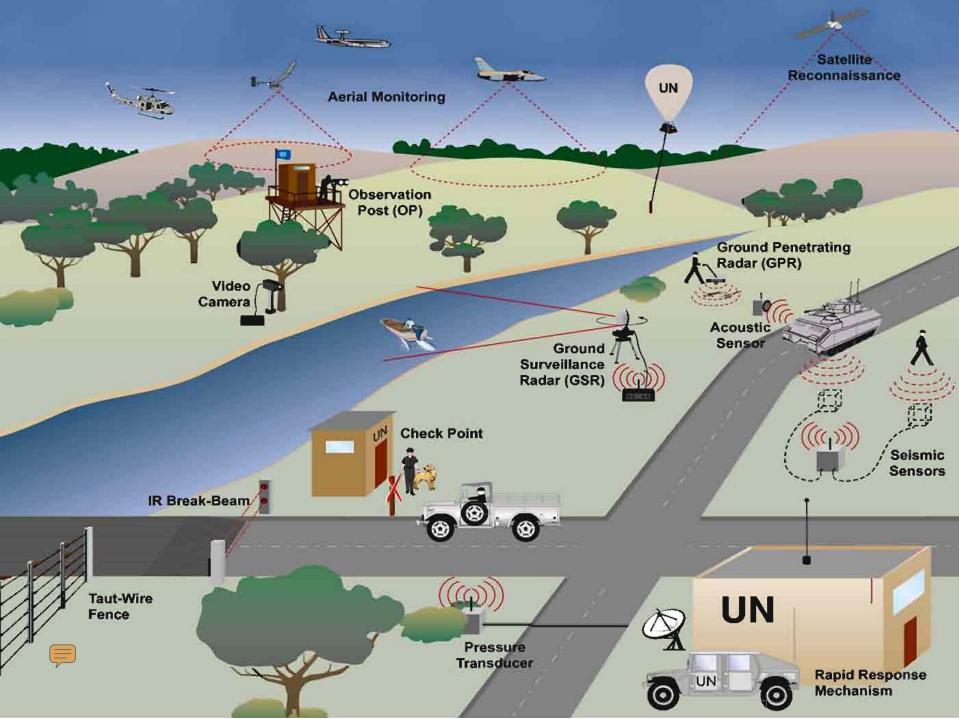


Aerial surveillance

UAVs in EUFOR in DRC







3. UN lacks the equipment, resources, preparation/training needed for effective and efficient use of modern monitoring technology.

some monitoring technologies in some missions but ad hoc and unsystematic

radars

• 400 NVE (Gen 2+)

no thermal imagers, seismic or acoustic ground sensors

platforms: recce vehicles and aircraft

 absence of policies, doctrine, SOPs and training materials

need to re-engage capable contributors

4. UN is capable of incorporating advanced technologies.

communications and information technology

Carlog

GIS progress

Commercial satellite imagery

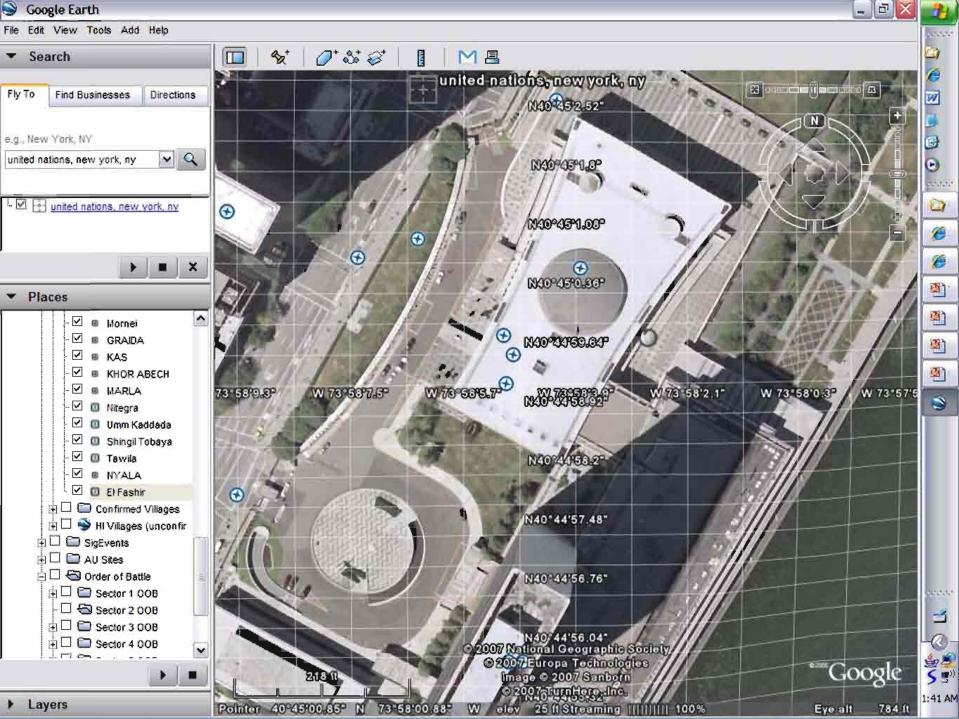
aerial recce in DRC







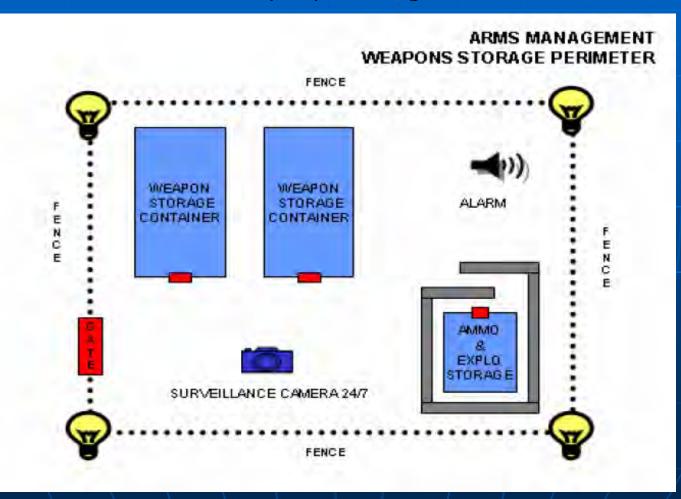
www.e-drivetech.com





Demand from the Parties (Video Camera Network)

2006 Nepal peace agreement



Technology of immense potential value

To fill the "Monitoring Gap" between mandates and UN capacities

Recommendations

1. Develop and improve UN policies, doctrine and training materials to incorporate appropriate monitoring technologies.

- SOPs and TOE
- Handbook on Multidimensional Peacekeeping
- seminars for military and civilian personnel (MPAC, C-34)
- technology options "menu document"

2. To gain experience, the UN should test, deploy and evaluate sensor suites on a trial and operational basis.

- select one or more regions in selected PKOs (e.g., video equipment, UGS, thermal cameras, UAVs)
- case studies (UNIFIL, UNFICYP, UNMIN)
 - National and partner reports (EUFOR)
- implement JAM recommendations for DRC, esp. aerial surveillance

3. Identify *TCCs* and contractors that are capable of providing monitoring equipment and expertise. It could invite them to

- specialists vs regular troops
- contingent capacities for larger-ticket items
- outsource vendor could be sought
- move from personal equipment to mission-operated monitoring systems
- share some of their technological expertise and experiences.

4. Revise and update the Contingent-Owned Equipment (COE) Manual so that the requirements are clearer, more detailed and more specific.

 Observation and Identification (recording) categories – vague, needs annex

 2008 review of COE manual by the COE Working Group 5. Build on recent progress in developing Geographic Information Systems (GIS).

GIS progress moving from paper maps to userinput GIS (layered, multi-agency) UNMO, field reports on centralized database (incl. imagery) intranet base

6. Include imagery in UN reports, both still and links to video, and primary source data access.

 digital imagery in the UNMO reports, Sitreps, links to GIS databases (field and hq) for clearer picture, video clips

 experts in image analysis should be deployed to the field (JOC and JMAC) 7. Increase the capacity of UN headquarters to select, stockpile and maintain technologies and apply

innovative methods of technical monitoring.

basic stockpile

 export licenses from leading manufacturing states

small headquarters team for familiarity with technologies

- monitoring technology service or technology support office (like CITS)
- institutional memory; conduct capability/equipment performance reviews
- technical assessments during mission start-up
- cooperative monitoring with information sharing with parties (e.g., webcam)

Concluding Concepts

 "information power", situational awareness for safety and security
 move from a "culture of reaction" toward a "culture of prevention"
 concentration and rapid reaction

 situational awareness to improve safety, security and effectiveness Monitoring technologies not yet "tools of the trade," but they can and should be.

