

# Environmental lessons from military and civilian actors in crises and conflict settings

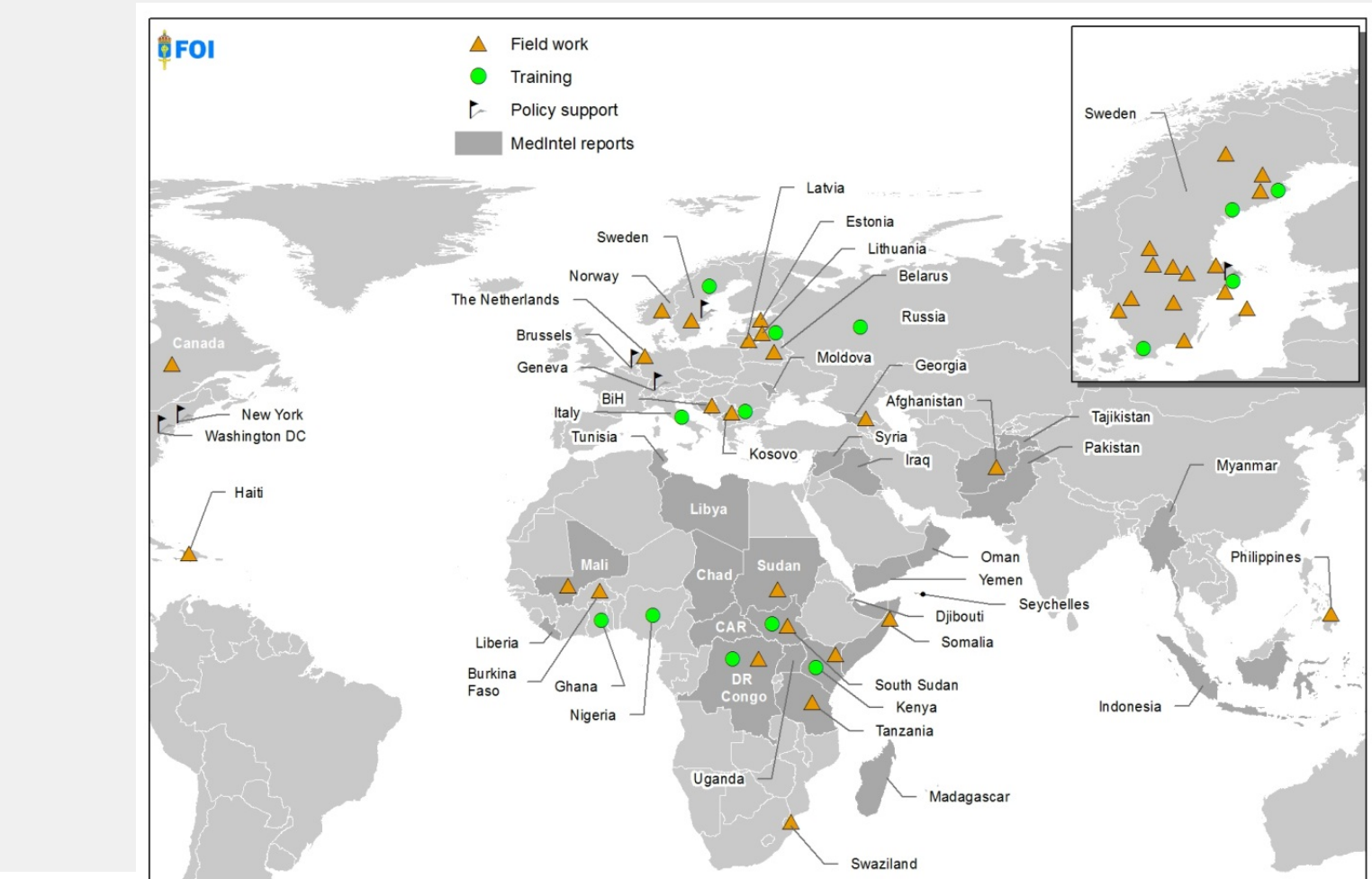
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# Swedish Defence Research Agency (FOI)

- Defence Analysis,
- Defence and Security Systems and Technology,
- Information and Aeronautical Systems,
- **CBRN Defence and Security** and;
- Sensor and EW Systems

## Select commissions 2001-2014



<http://www.foi.se/sv/Var-kunskap/CBR-amnen/Miljo-och-halsorisker/>

# Defence and the Environment

## Reactive



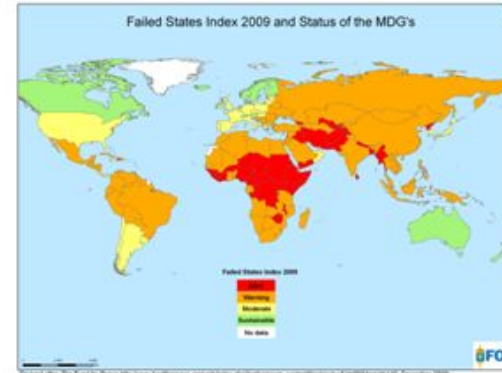
*Environmental  
Risk Assessments  
of polluted areas*

## Active



*Impacts on  
environment  
during peace  
keeping  
operations*

## Proactive



*Foresight and  
proactive  
approaches  
(Environmental  
Intelligence)*

# Growing political attention

NATO Environmental Policy of 2004

UN DPKO/DFS Environmental Policy of 2009

NATO strategic concept of 2010 acknowledges that key environmental and resource constraints have the potential to significantly affect NATO planning and operations

EUMS Environmental concept of 2012

*S/RES/2100(2013) on the establishment of MINUSMA, OP32. Requests the Secretary-General to **consider the environmental impacts of the operations** of MINUSMA... and to **operate mindfully in the vicinity of cultural and historical sites***



## Tools for environmental considerations...

**Lessons Identified**

**Medical/Environmental Intelligence  
Strategic Environmental Assessment**

**Environmental  
Vulnerability  
Assessment**

**Lessons Learned**

**Environmental Closure Report**

Initial Analysis

**Environmental  
Baseline Survey  
Environmental Impact  
Assessment**

Post-deployment

Re-deployment

Planning

**ANNEX TO  
OPLAN**

Pre-deployment

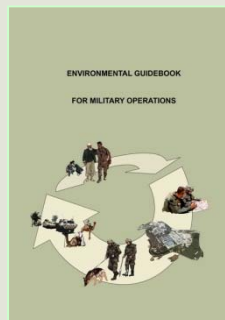
Rotation

Deployment

**Training and  
Awareness**

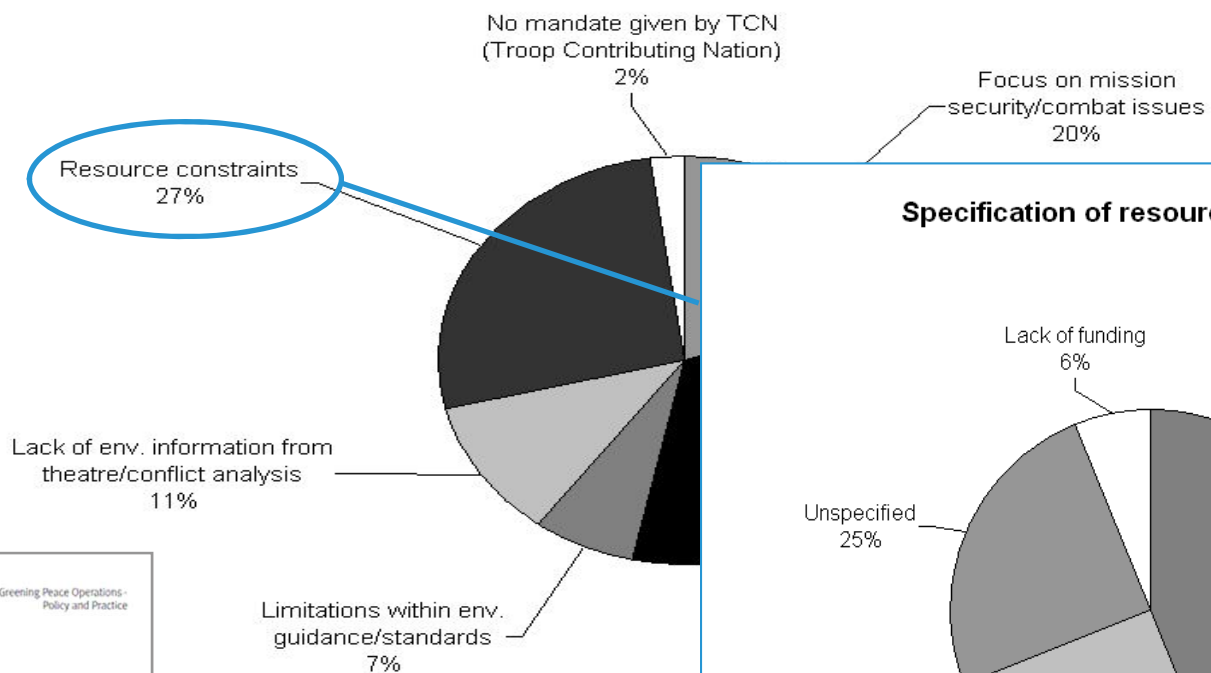
**Site Closure**

**Environmental  
Management Plan  
Due Diligence**

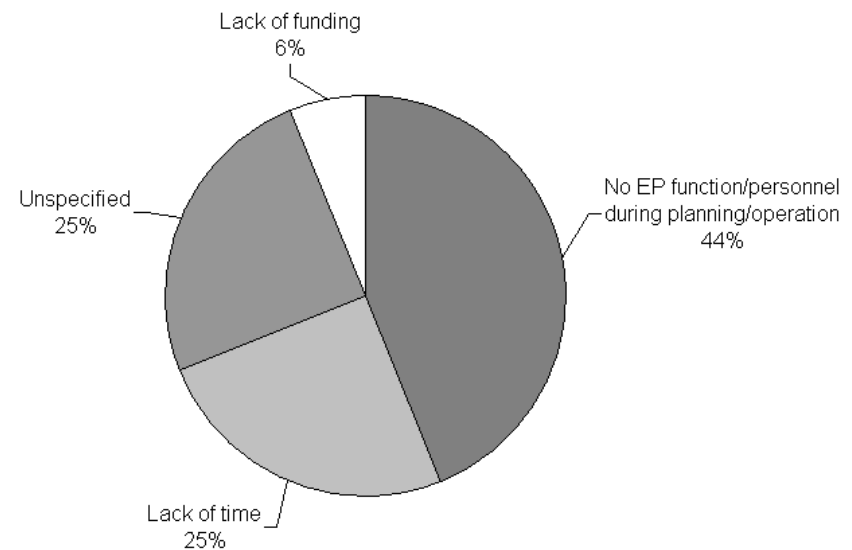


# Principle barriers

## Difficulties and problems with integrating environmental considerations in planning

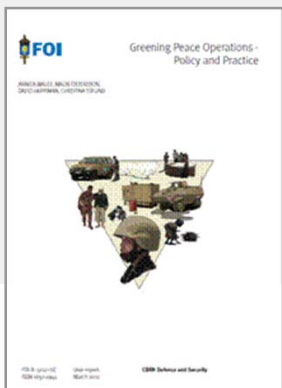
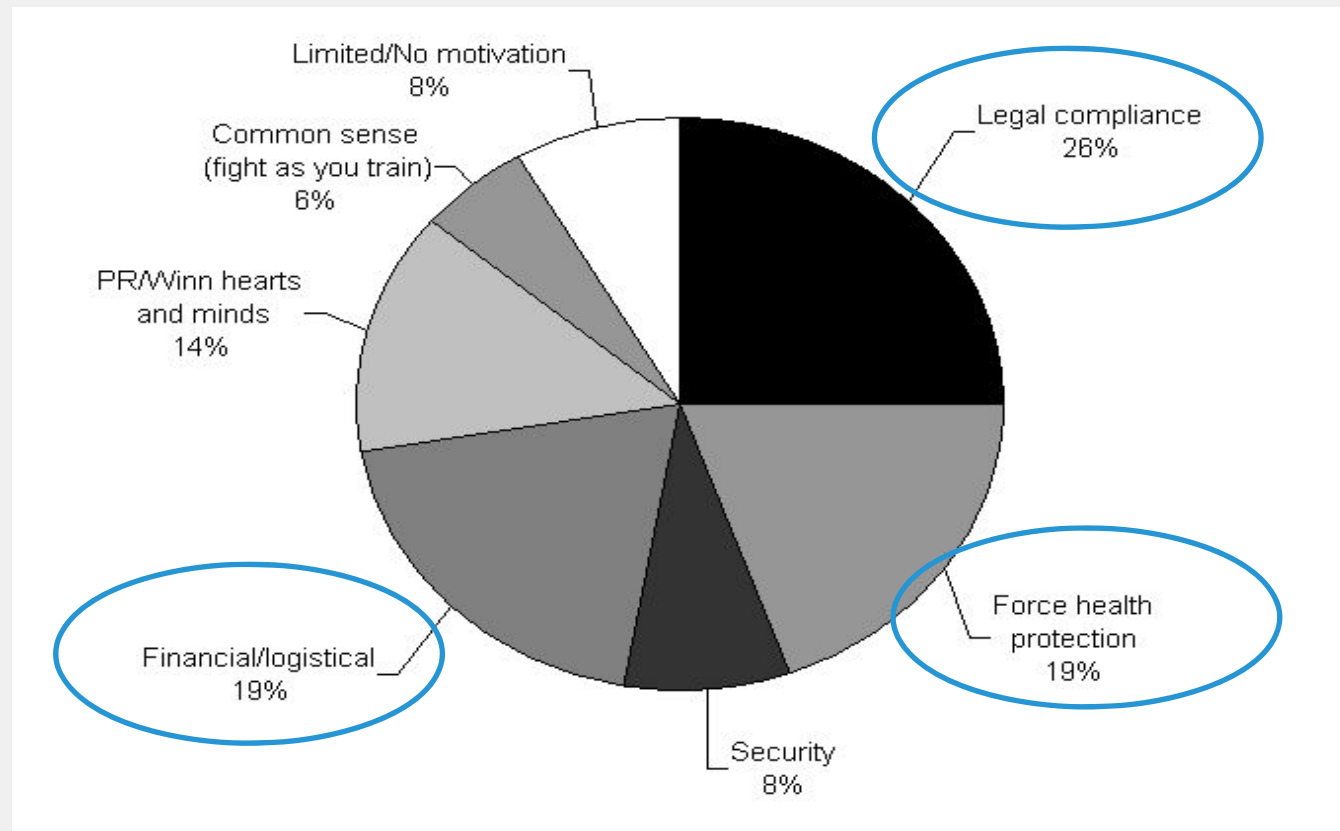


### Specification of resource constraints



Waleij et al (2011)

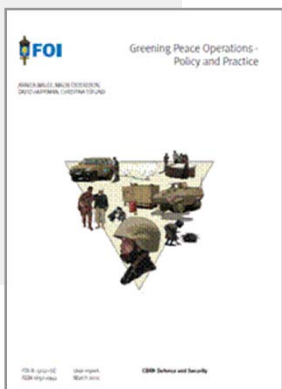
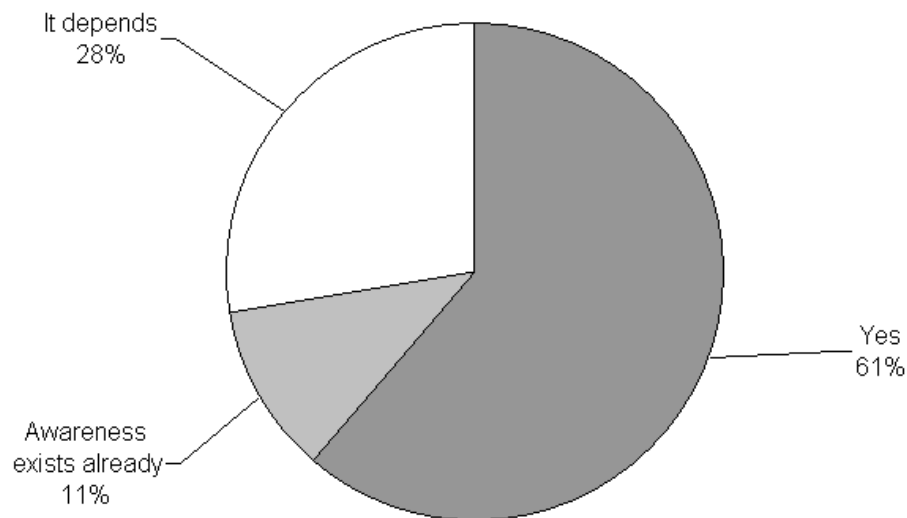
# Drivers for environmental considerations



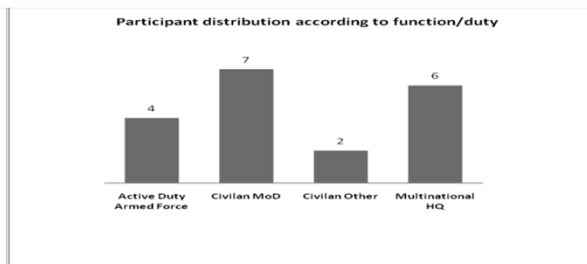
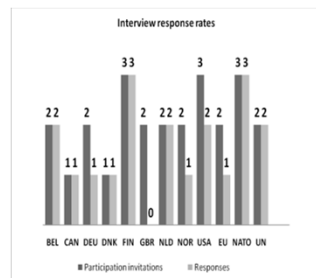
Waleij et al (2011)

# Way ahead?

**Could increased emphasis on the importance of environmental issues for mission success facilitate the integration of environmental considerations into strategic and operational planning?**



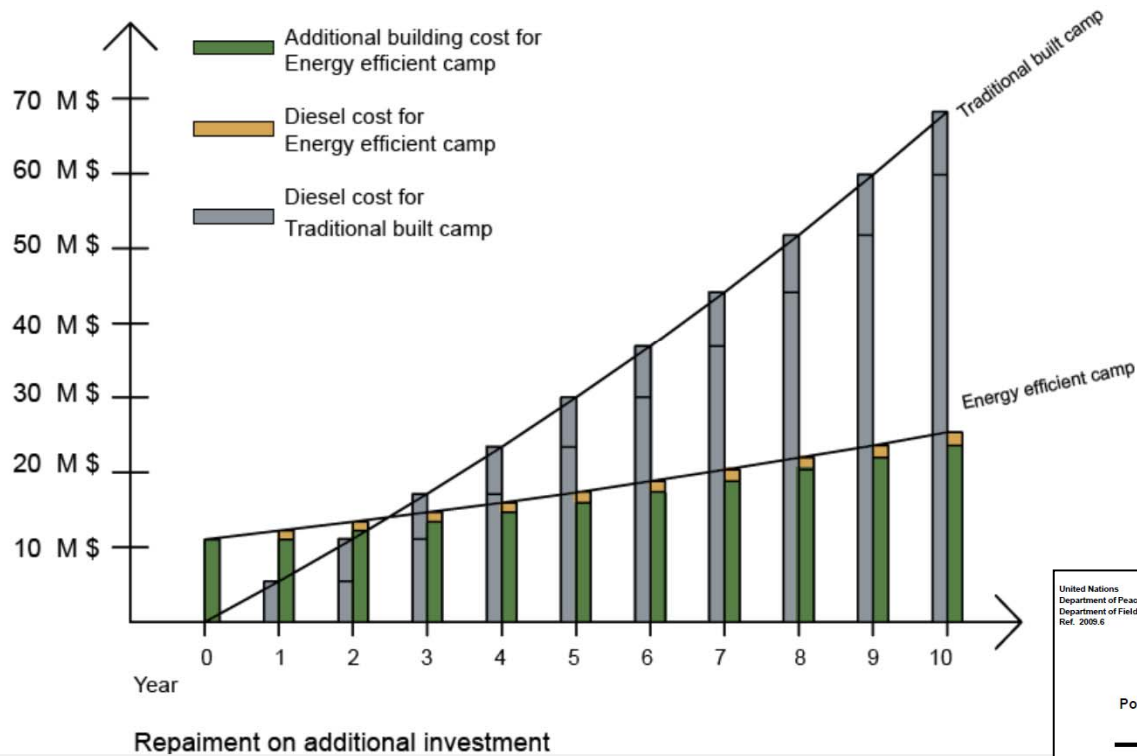
Waleij et al (2011)



n=19



# Prove that it works!



United Nations  
Department of Peacekeeping Operations  
Department of Field Support  
Ref. 2009.6

## Policy

## Environmental Policy Field Missions



## Greening the Blue Helmets

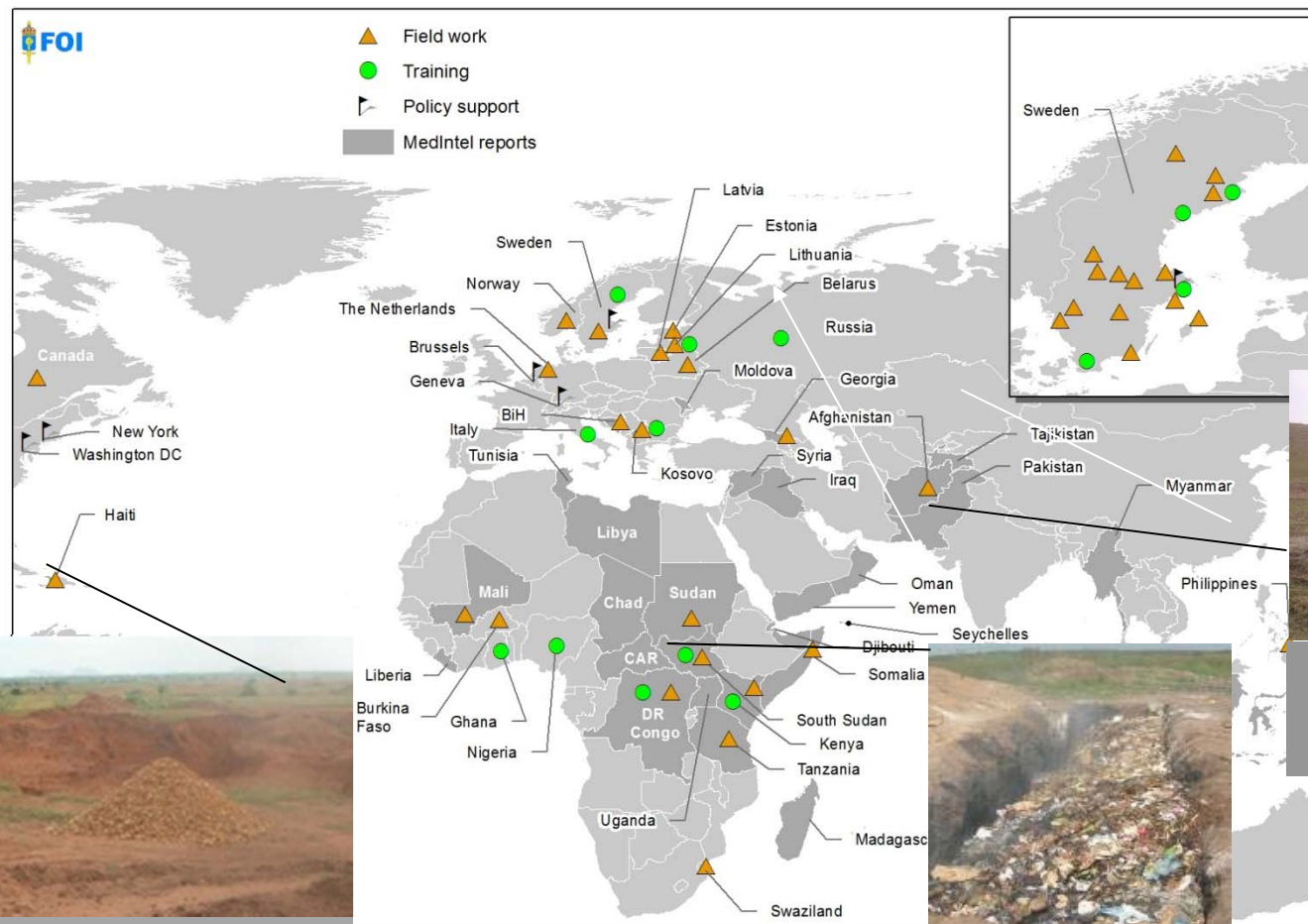
Natural Resources, the Environment  
and UN Peacekeeping Operations

United Nations Environment Programme

Approved by: Alan Le Roy, USG DPKO  
Effective date: 01 June 2009  
Contact: Engineering Section, SSD / LSD / DPS  
Review date: 30 June 2010



# Case studies



# UNMISS Juba III Pilot Project, South Sudan

- Renewable energy and power conservation system
- Water Conservation
- Sustainable Waste Management and GHG reduction
- Performance monitoring



SWEDISH ARMED FORCES



# FOI Camp CoE CAT screen dump



<http://www.foi.se/en/Our-Services/Camp-solutions/>

# Environmental Awareness Training

- Strategic/ operative/ tactical level
- From theory to practice
- Lessons shared



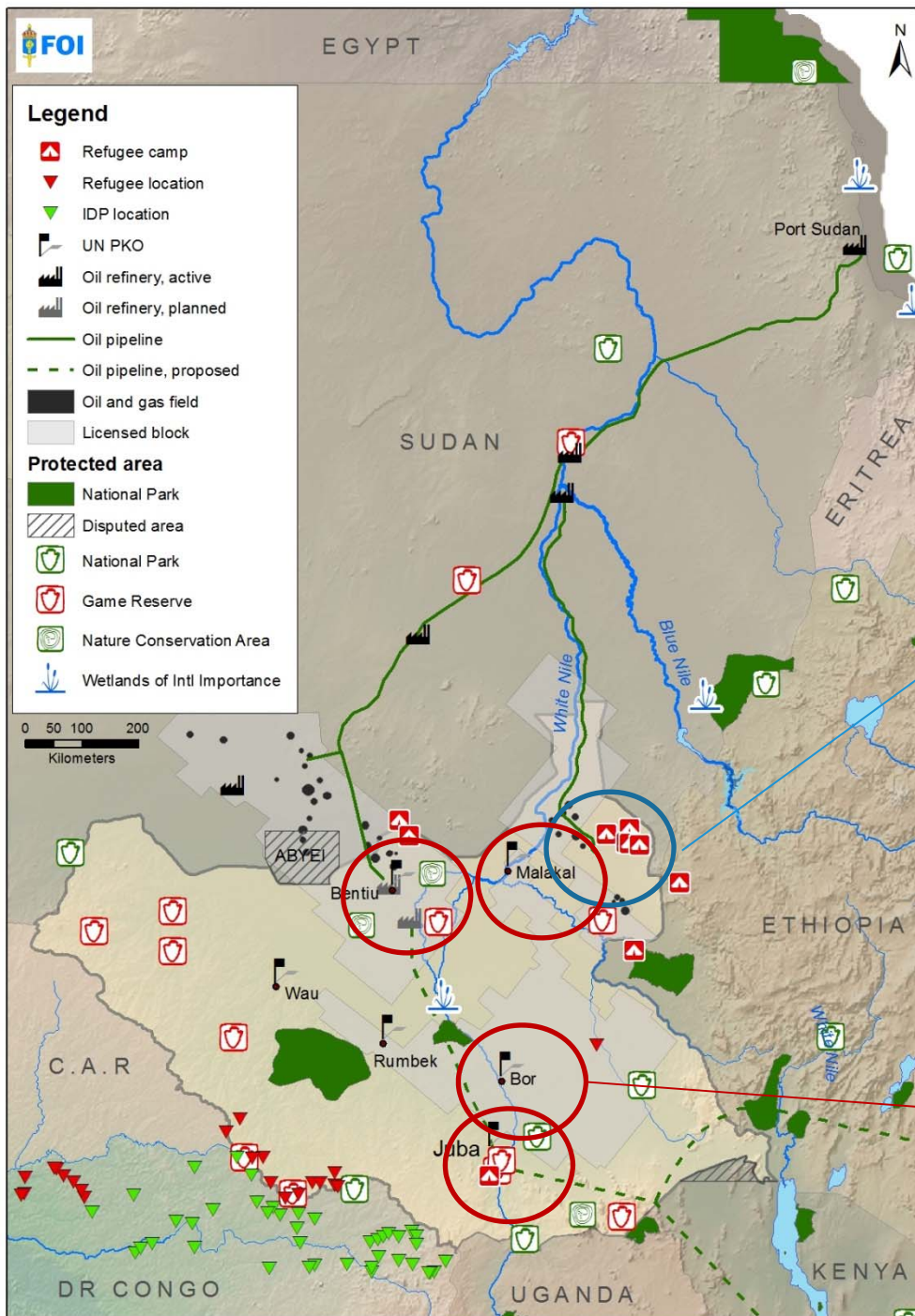
Environmental training , UNMIS



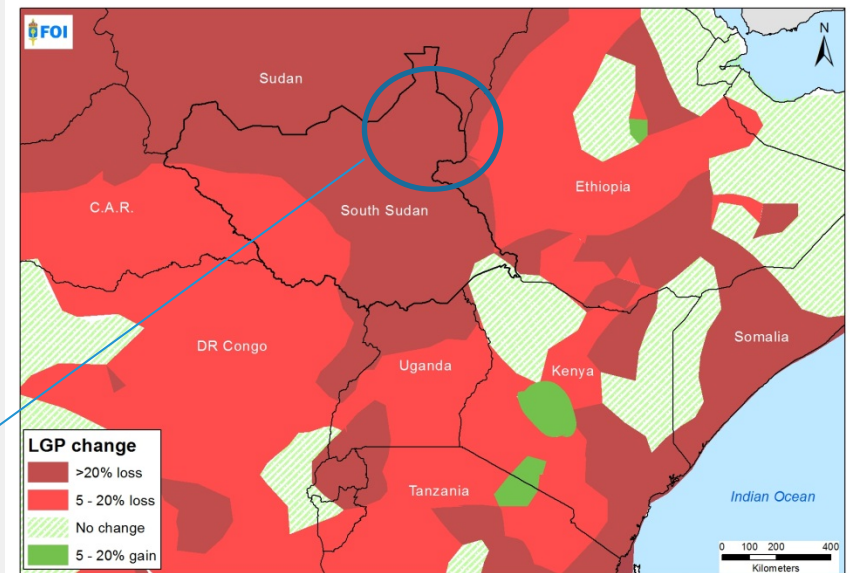
Environmental awareness training  
MONUC (civilian and military)



Environmental field remediation  
UNMIS (civilian and military)



# Challenges



# Comparison of activities and the likelihood of their occurrence in different types of settings

	<b>Military/ PKO camps</b>	<b>CMO/ Humanitarian camps</b>	<b>IDP/ Refugee camps</b>
<b>Unsustainable water abstraction can lower water tables , alter flow patterns, cause salt water intrusion, increase local competition and conflict</b>	✓	✓	✓
<b>Ground and surface water contamination from septic systems and on-site infiltration</b>	✓	✓	✓
<b>Explosion risk - ammunition storage</b>	✓		
<b>Hostile engagement causing collateral damage on adjacent industrial facilities</b>	✓		
<b>Livestock keeping - Overgrazing</b>			✓
<b>Risk for oil spill from workshops, wash racks or POL stations</b>	✓	✓	

# Conclusions

- There are complex interrelations between environment, security, development and health that cannot be ignored
- There are many misperceptions about what the environment means
- Off-setting environmental issues at the operative level is easier if other topics are leveraged
- Nobody is accountable for the cumulative environmental footprint
- Trust is needed for actual coordination to take place
- There is a need to embrace also the failures

# Tools for improvement

Urgent need for **standards for environmental information systems and for data sharing**

Collect and transform lessons observed/heard, to true **lessons learned**

**Horizon scanning and Environmental intelligence** as an iterative process throughout the life cycle of a mission

**Assessment tools** can improve foresight capacity and interoperability

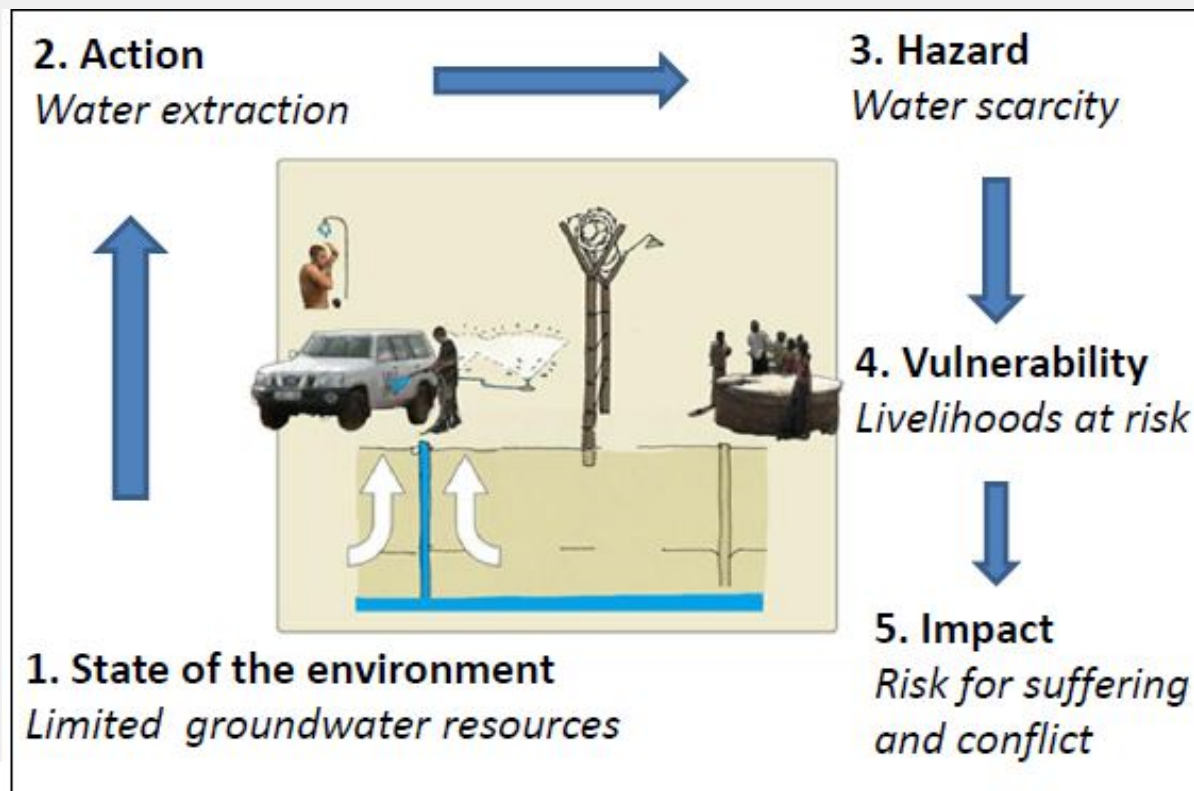
**Improved training and awareness campaigns**

**Due diligence**, oversight and supervision is paramount



# SWE PfP event 15-16 October 2014

*Improving the environmental and social performance of military and civilian actors operating in the same area*



# Thank you!

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