



# WINNING THE ENVIRONMENT

*THE ECOSYSTEM APPROACH AND ITS VALUE FOR MILITARY OPERATIONS,  
A WAY TO IMPROVE YOUR MISSION*



## Instruction booklet.

- Elaborating on earlier pilots with water managers from Indonesia, road engineers, and tour operators from Mongolia
- Target group: Military
- Publication to instruct and to train field staff (from platoon commanders upwards)



**Ecosystems assessment makes sense**  
Full situational awareness in CIMIC



“...it will also create opportunities for working with local partners in implementing climate change adaptation and mitigation strategies.”

Lt Gen Tariq Waeem Ghazi (Retd)

<http://iucn.org/cem>

WINNING THE ENVIRONMENT  
THE ECOSYSTEM APPROACH  
AND ITS VALUE FOR MILITARY  
OPERATIONS



*A way to improve your mission*

Second completely revised edition  
By P. Wit and D.A. Noome



# THE BASICS

*No security without ecological security*

*No stability without sustainability*

Every soldier depends on nature

- For his survival
- To achieve his mission
- To avoid future conflicts



Quick but not so dirty

*Four steps for a  
rapid ecological assessment*

- INSTRUCTION CARD
- ASSESSMENT TABLES



# STEP 1: Assessing the resource base ( the physical system)

## *Abiotic factors:*

- Weather and climate
- Geology and geomorphology.
- Soils and soil fertility.
- Hydrology and geo-hydrology

## *Biotic factors:*

- Flora and vegetation
- Fauna
- Man



## STEP 2: Assessing resource use (the socio-economic system)

### *Extractive uses:*

- Land based
- Water based

### *Non-extractive uses*

- Conservation, Nature Protection
- Tourism and recreation
- Scientific research
- Cultural use.





# STEP 3: Assessing resource management, (the institutional system)

## Institutions and regulations

- Modern state representations
- Traditional authorities
- Moral authorities
- Economic powers
- The international Community



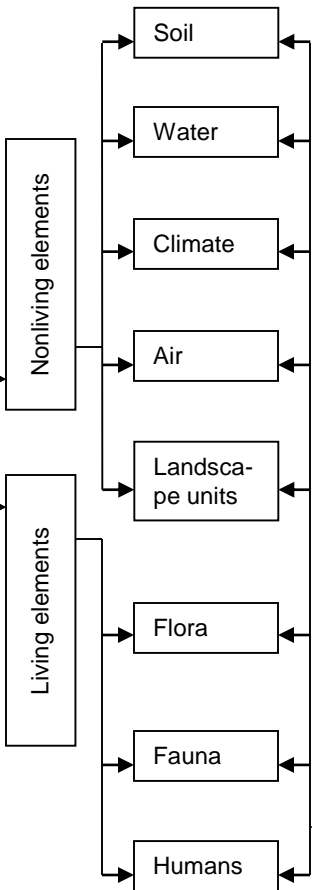


## STEP 4 Adaptive management

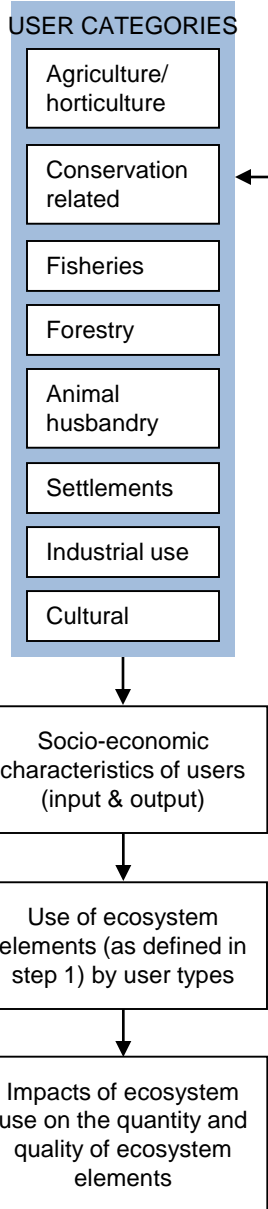
*To analyse the potential impacts of proposed activities, go over step 1, 2 and 3 again:*

- Positive and negative impacts
- On-site and off-site impacts.
- Impacts during and after (re-)construction.
- Direct and indirect (induced) impacts.

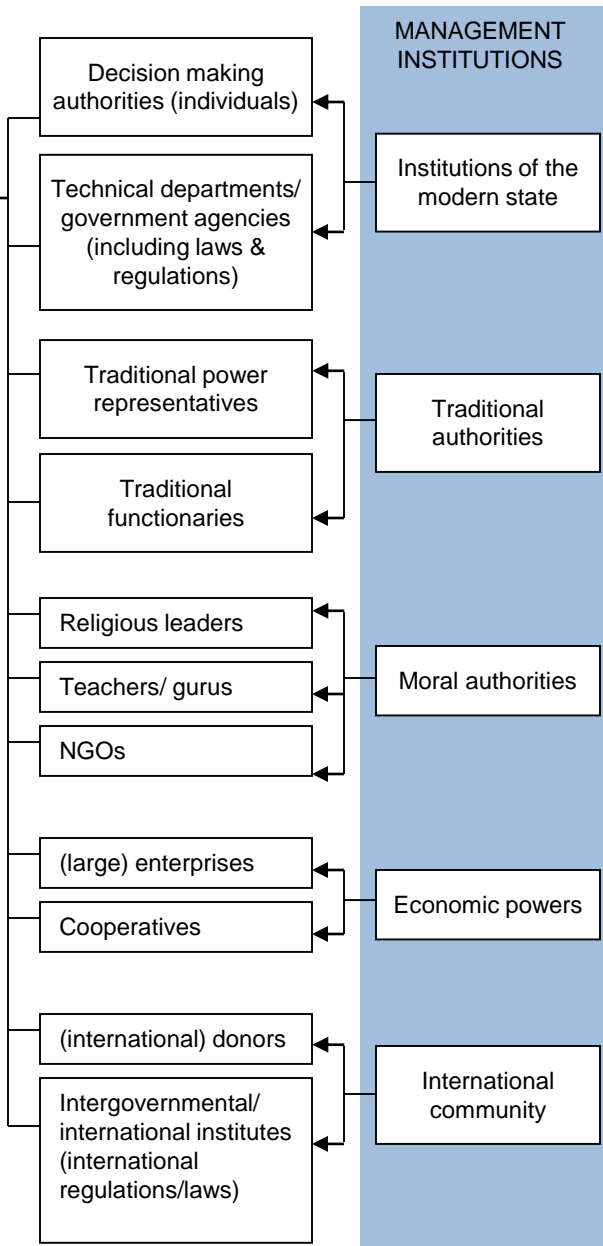
**STEP 1:  
RESOURCE BASE**



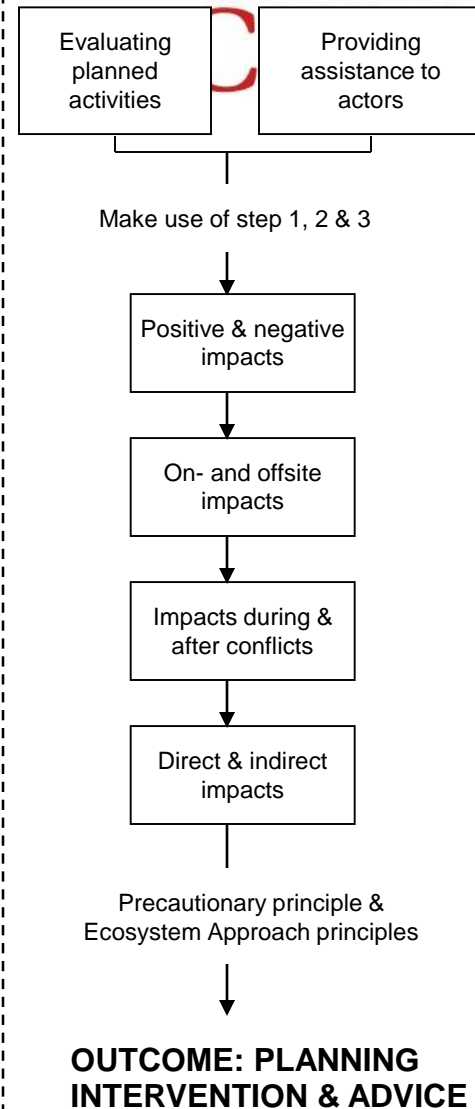
**STEP 2:  
RESOURCE USE**



**STEP 3:  
RESOURCE MANAGEMENT**



**STEP 4:  
ENVIRONMENTAL  
PRECAUTION**





Thank you  
*Questions?*