

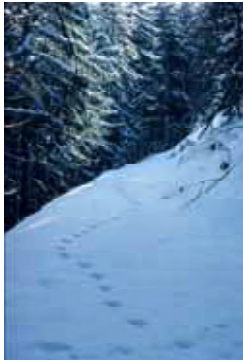


How many lynx?



Aims, Principles, and Concepts of Monitoring



Urs Breitenmoser

1. Why monitor?
2. What can be monitored?
3. How to monitor
 1. Principles of monitoring
 2. Concept of stratified monitoring
 3. Biases and pitfalls
4. Who should monitor? – The network



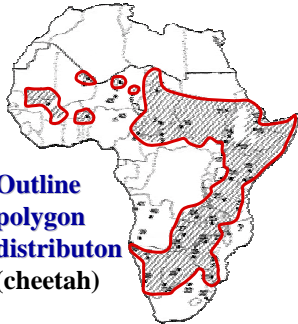


1. WHY	2. WHAT	3. HOW	4. WHO
<div data-bbox="577 1301 1002 1865" data-label="Complex-Block"><h3>Guidelines for the Monitoring of Lynx</h3><p>Prepared by Urs Breitenmoser Christine Breitenmoser-Würsten Manuela von Arx Paolo Molinari Andreas Kysner Anja Molinari-Jobin Fridolin Zimmermann Adrian Siegenthaler Christof Amgt John Linnell Jean-Marc Weber</p><p>for the Workshop on the Conservation and Monitoring of the Balkan lynx Mavrovo National Park, FYRo Macedonia, 15-17 November 2005</p></div>			
 			

1. WHY	2. WHAT	3. HOW	4. WHO
<p>How can we know...?</p> <ul style="list-style-type: none"> ... what the status and distribution of a species is? ... what we have to do to conserve it? ... that we do the right things? ... that the conservation measures are effective? <p>→ monitoring, monitoring, monitoring...!</p>  			

1. WHY	2. WHAT	3. HOW	4. WHO
<p>Definitions:</p> <p>Survey: Compilation of qualitative or quantitative information through standardized procedures to define status.</p> <p>Surveillance: Series of surveys to reveal a dynamic process (e.g. surveillance of epidemics).</p> <p>Monitoring: Regular and structured surveillance to assess the effect of a (conservation) measure in respect to a goal to be reached (e.g. recovery of an endangered species).</p>  			

1. WHY	2. WHAT	3. HOW	4. WHO
<p>What can be monitored?</p> <p>Distribution: Presence/absence; outline polygon of area; raster distribution; distribution of chance observations; areas of reproduction</p> <p>Abundance: Relative/absolute density; capture-recapture methods; frequency of representative parameter (standardised method)</p> <p>Population trend: Relative/absolute changes of population in time; frequency of observations/parameters over years</p> <p>Health and Genetics: Incidence of pathogens; spread of epidemics; genetic variability; genetic drift</p>			



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<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Distribution</p>  <p>Outline polygon distribution (cheetah)</p> </div> <div style="width: 45%;"> <p>Point distribution (Eurasian lynx)</p> <ul style="list-style-type: none"> ▲ Chance observation ● Kills  </div> </div> <div style="margin-top: 20px;"> <p>Raster cell distribution (Iberian lynx)</p> <ul style="list-style-type: none"> ■ Occupied □ Not occupied  </div>			

