# Alignment of Research and Conservation in the Protected Areas of Ten Central African Countries

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# CONTEXT

areas, research is intended to support management and In protected conservation decisions ('science-policy interface').

However:

- The sharing of research results is often insufficient, as is the dialogue among researchers, field managers and policy makers;
- Research in protected areas is rarely connected with the priorities of managers.

Protected areas from 10 central African countries ~ 960,000 km<sup>2</sup>

**STUDY AREA** 





Cameroon



**Central African Republic** 



Chad



**Democratic Republic of Congo** 



Gabon



**Equatorial Guinea** 







#### **OBJECTIVES**



## **2. RESEARCH TOPICS**

**Only 20%** of protected areas have **defined** their priority research questions

61% report that there are "dormant data" that are not used by anyone

70% are involved in the design of research protocols and

Highest priority research questions are related to: **1. Animal biodiversity** 2. Human aspects

- 3. Fight against illegal activities
- 4. Vegetal biodiversity

**49%** in writing scientific publications...

BUT 82% would like to be better involved in the design of research protocols and scientific publications

3. Use of research results for management

**Biomonitoring** results are directly used by **90%** of protected area managers...

... while only 45% consider that scientific research is produced quickly enough to respond to management issues.

The main use of scientific research by managers consists in using tools developed by researchers, such as applications, GIS, databases...

# 4. ACCESS TO RESEARCH

Are these types of documents useful and accessible for your work:

**Reports?** Scientific publications? Internet pages?

Usefulness

**73%** of managers generally have access to the... 61%





#### results of research conducted in their protected area raw data

#### **EXAMPLE APPLICATIONS**



**Odzala-Kokoua National Park** (Congo) :

Sampling of urine, faeces, carcasses, parasites to monitor infections and inter-species transmissions (great apes and bats)

Lopé National Park (Gabon) : Census of zoonotic diseases at the country level, serological samples to list the bacteria and viruses that the consumption of bushmeat can potentially transmit to humans

### Animal reintroductions



Scimitar-horned oryx in the Ouadi Rimé-Ouadi Achim Game **Reserve (Chad) :** 

Species classified as "extinct in the wild" since 2000 by the IUCN Reintroduction of 144 animals in 2016 → 382 individuals today

Logistics, breeding, monitoring and scientific research (progress assessment, threat detection and management information) Monitoring: demography (population size, survival, reproductive success), space and habitat use Responses to threats: epidemics, bush fires, poaching Adaptation of release protocols and veterinary prophylaxis