

Organizing the Institutions for In Vivo Conservation

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Chapter 4 of Draft Guidelines

SO FAR.....

- Context, drivers of change, SWOT
- Relevant species and breeds
- Assessment of status of endangerment
- Conservation value – prioritization
- Genetic management and selection approaches
- Action: implementation of conservation strategies

Who will do the job?

→ Institutions, actors, stakeholders, collaboration....

National level

- Different context
 - Policies and institutions
 - Characteristics of livestock sector
 - Species and breeds
- In Vivo conservation requires Organization
- Plan for Sustainability
- Many stakeholders usually involved
 - Stakeholder specific objectives
 - Common goals

First task

- Agree on conservation strategy
 - Assign responsibilities
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- Stakeholder meetings
 - National body / National (Advisory) Committee

Variety of stakeholders - involvement

- Breeders (farmers, pastoralists)
- Owners (farmers, pastoralists)
- Users
- Government Institutions
- Breed Associations
- Breeding Companies
- Research Organisations
- Non Governmental Organisations
- Marketing, Consumers, etc.

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I - Involving farmers in community based in situ conservation

TASKS

- Identify clear target for conservation activities
- Undertake detailed participatory study of the farming community
- Propose the in situ conservation programme based on farmers participation

I - Involving farmers in community based in situ conservation

Task 1 – Identify target for conservation activities

- Pinpoint and study geographic area
- Choose the communities with which work will be undertaken

I - Involving farmers in community based in situ conservation

Task 2 – Undertake detailed participatory study of farming community

- Undertake detailed participatory study of the farming community
- Enlist the research team and perform the studies
- Evaluate the results

I - Involving farmers in community based in situ conservation

Task 3 – Propose in situ conservation programme based on farmer's participation

- Organize farmers into a breeders association
- Work with the community to establish a breeding programme
- Establish a nucleus herd for management of genetic improvement
- Provide incentives and complementary institutions

II - Establishing a well functioning breeders association

TASKS

- Determine willingness of member of the community to establish a breeders' association
- Develop and implement a process with the relevant stakeholders through which a breeding organisation is described and established

II - Establishing a well functioning breeders association

Task 1 – Determine willingness of community members to establish breeders association

- Discuss the possibility of a breeders association during the initial participatory studies
- Identify specific members of the community that may have a particular interest in joining a breeders association and serving in leadership roles

II - Establishing a well functioning breeders association

Task 2 - Develop and implement a process with relevant stakeholders through which breeding organisation is described and established

- Determine requirements for membership in the association
- Establish registry protocols
- Establish bylaws

III - Auditing the breeding organization and its activities

TASKS

- Evaluate participation and decision making procedures
- Evaluate the genetic purity of the population
- Evaluate the status of the AnGR under management

III - Auditing the breeding organization and its activities

Task 1 – Evaluate participation and decision making procedures

- Describe and evaluate and describe the mechanisms for participation
- Evaluate the decision making processes
- Evaluate the provision of benefits to association members
- Evaluate the procedure for inclusion of new members

III - Auditing the breeding organization and its activities

Task 2 – Evaluate the genetic purity of the population

- Evaluate the level of purebred breeding as opposed to deliberate or casual introgression
- Check accuracy of parental information

III - Auditing the breeding organization and its activities

Task 3 – Evaluate the status of AnGR under management

- Evaluate the population structure and its use in the breeding program
- Evaluate the breeding and conservation programme

IV - Centralized ex situ conservation on institutional farms

TASKS

- Undertake the necessary preliminary planning, including feasibility studies, and secure access to facilities and funding
- Implement and operate the conservation programme

IV - Centralized ex situ conservation on institutional farms

Task 1- Undertake the necessary preliminary planning, including feasibility studies, and secure access to facilities and funding

- Analyze the available institutional breeding farm
- Determine the breeds to be targeted by the conservation programme
- Perform a feasibility study
- Identify possible donors
- Prepare and present proposals for conservation plan to government officials

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IV - Centralized ex situ conservation on institutional farms

Task 2 - Implement and operate the conservation programme

- Establish the populations of animals at the institutional farm
- Develop breeding and husbandry strategies for the institutional herd
- Establish a gene bank (e.g. in vitro cryobank) for periodic storage of germplasm from animal in the ex situ in vivo program
- Organize farmer and institutional participation in production and use of males

V - Dispersed ex situ conservation involving institutional and farmer herds

TASKS

- Establish the conservation population
- Manage the conserved population

V - Dispersed ex situ conservation involving institutional and farmer herds

Task 1 – Establish the conserved population

- Identify the base animals

V - Dispersed ex situ conservation involving institutional and farmer herds

Task 2 – Manage the conserved population

- Mating of base animals to produce new males
- Develop agency or institutional farm /farmers
- Design breeding and mating strategies

GROUP WORK / EVALUATION OF GUIDELINES

DESIGN A PLAN FOR THE ORGANISATION OF
IMPLEMENTING (BREED SPECIFIC) CONSERVATION
STRATEGIES AT NATIONAL LEVEL

(BREED(S) IDENTIFIED IN PRIOR ACTIVITIES)

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