



# Field activities of the FAO in Management of AnGR

Decision-support tool for formulation  
of breeding policies & strategies



# Management of AnGR

## SoW-AnGR / ITC



- 15 workshops
- 12 thematic studies

## Field Activities

- 8 field projects (4 regionals & 4 countries)
- 4 guidelines (characterization; animal recording; small population management; breeding policies & strategies formulation)

## DAD-IS / DAD-Net



- Global communication and information system
- Informal discussion forum

\*FAO AnGR publications are available at: <http://www.fao.org/dad-is>



## Field activities

(Regional)

- National management plans for farm animal genetic resources in Asia
- Management of farm animal genetic resources in the Southern African Development Community (SADC)
- Strategy for active conservation of the dual-purpose Pinzgau cattle breed in the Slovak Republic and in Romania
- Inventory and characterization of indigenous poultry populations in 7 countries: Cambodia, Laos, Thailand, Indonesia, Vietnam, Egypt and Uganda





## Field activities (cont.)

(National)

- Development of local goat production and change of regulation related to environmental impact assessment (EIA) to include agrobiodiversity in Laos
- Genetic improvement of dairy goats in Korea
- Capacity building to support in-situ conservation and sustainable use of animal genetic resources in Albania
- Design and legalization of a livestock identification and recording system in Malawi



## Field activities – guidelines/tech. docs

- Molecular characterization tools : Guidelines, reference panels of markers (FAO/ISAG)
- Guidelines for phenotypic characterization (under development)
- Guidelines for animal recording for medium input production environment
- Guidelines for management of small populations at risk
- Guidelines for formulation of breeding policies & strategies



## Decision-support tool for formulation of breeding policies & strategies: Its development

- Discussed with expert scientists through a FAO workshop hosted by INRA:
  - Jouy-en-Josas (France), 28-29 September 2006
- Validated in 2 workshops with major stakeholders:
  - Pune (India) on 28-30 November 2006
  - Nairobi (Kenya) on 6-8 March 2007





## What for?

- Clarify the objectives of the country
- Provide guidance for the formulation of policies and strategies for the development of Animal Genetic Resources



## For whom?

- For developing countries wanting to develop their AnGR but have limited experience in planning breeding activities
- For all stakeholders involved in the planning & implementation of breed development activities: officials of national & regional governments, research institutions, the private sector, farmers' organizations, NGOs...



## How is it structured?

- Divided into sections
- Each section is divided into sub-sections: rational, objective, inputs, outputs and tasks
- Textboxes with examples from different countries, additional questions... are used for further explanation
- No preformatted solutions are given. Users should discuss their specific situation and make their own judgment
- This tool will be updated on a regular basis, based on the comments of the users

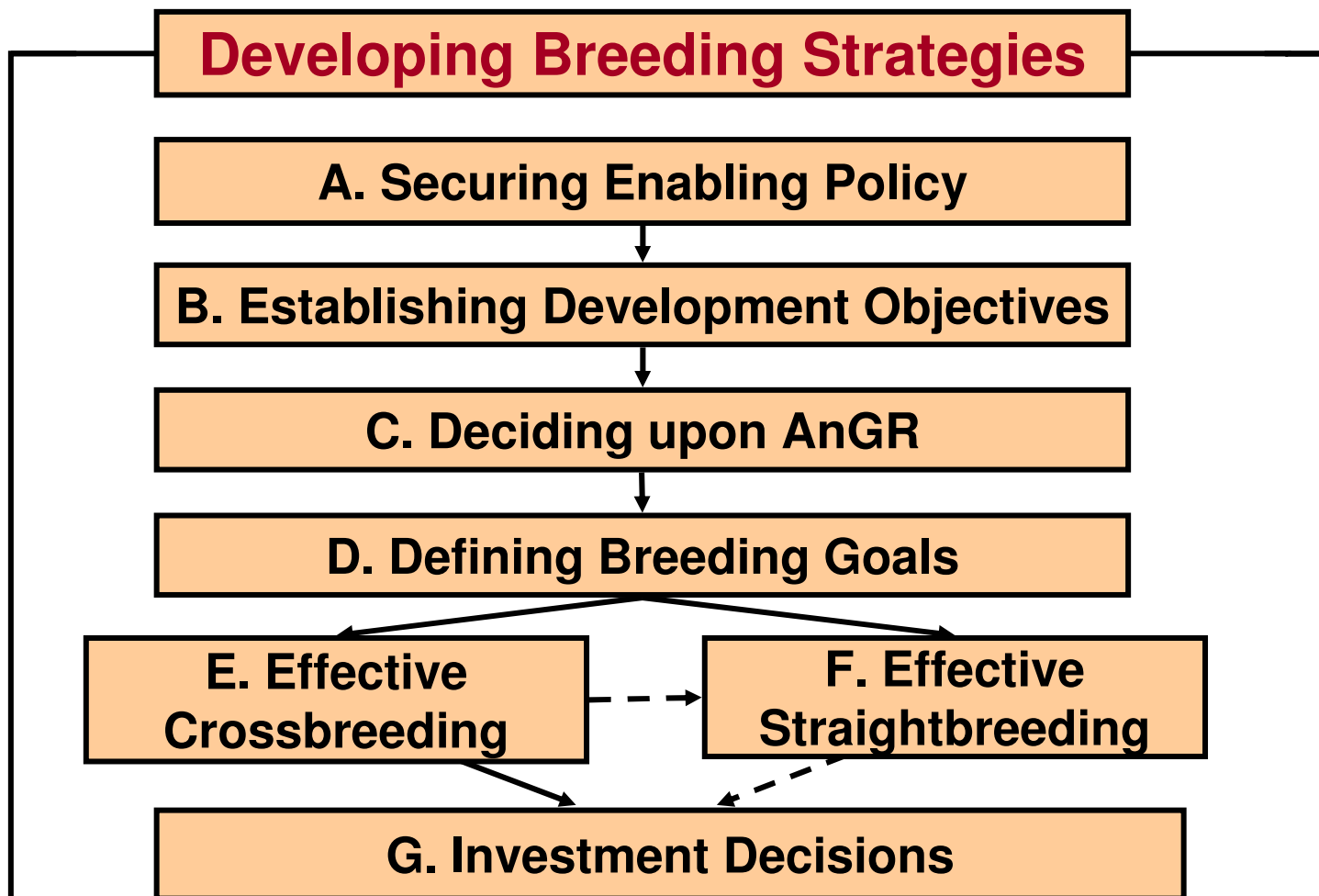


## How to use it?

- The tool is intended to structure a workshop to decide about breeding strategies and policies
- The material should be used to stimulate ideas and discussion rather than being followed literally
- Can also be used for self-study & decision-making by individuals
- It is recommended to follow the sequence of the sections
- The country report prepared in the SoW process provides basic reference material

## How often?

- Several workshops are needed to formulate a policy and decide about a strategy
- For each workshop background material should be available to participants in advance, including:
  - Report on process and content (options for breed development) from previous workshops
  - Results of wider consultations with stakeholders not present in the workshops



## A. Securing enabling policy

### Getting Started

Decide responsibilities

Identify the role of agriculture in overall national policy

Identify the role of livestock in the overall agricultural policy

Establish an inventory of national policy and legal instruments relevant to production elements and market needs

Establish an inventory of national policy and legal instruments relevant to management of AnGR and breeding support service

Establish an inventory of stakeholders, their roles and perspectives

Report

## B. Establishing Development Objectives

### A. Securing enabling policy

Decide responsibilities

Characterize (socio-economically) livestock value chain

Characterize (technically) a specific livestock production system

Relate production system characteristics to country enabling policies

Conduct a SWOT analysis of the livestock production system

Establish a Development Objective by production system

Report

## C. Deciding upon AnGR, by production system

### B. Establishing Development Objectives

Decide responsibilities

Collate available information on experiences with breeding strategies

Characterize the local breeds

Examine possible alternative breeds located elsewhere

Consider the options and decide

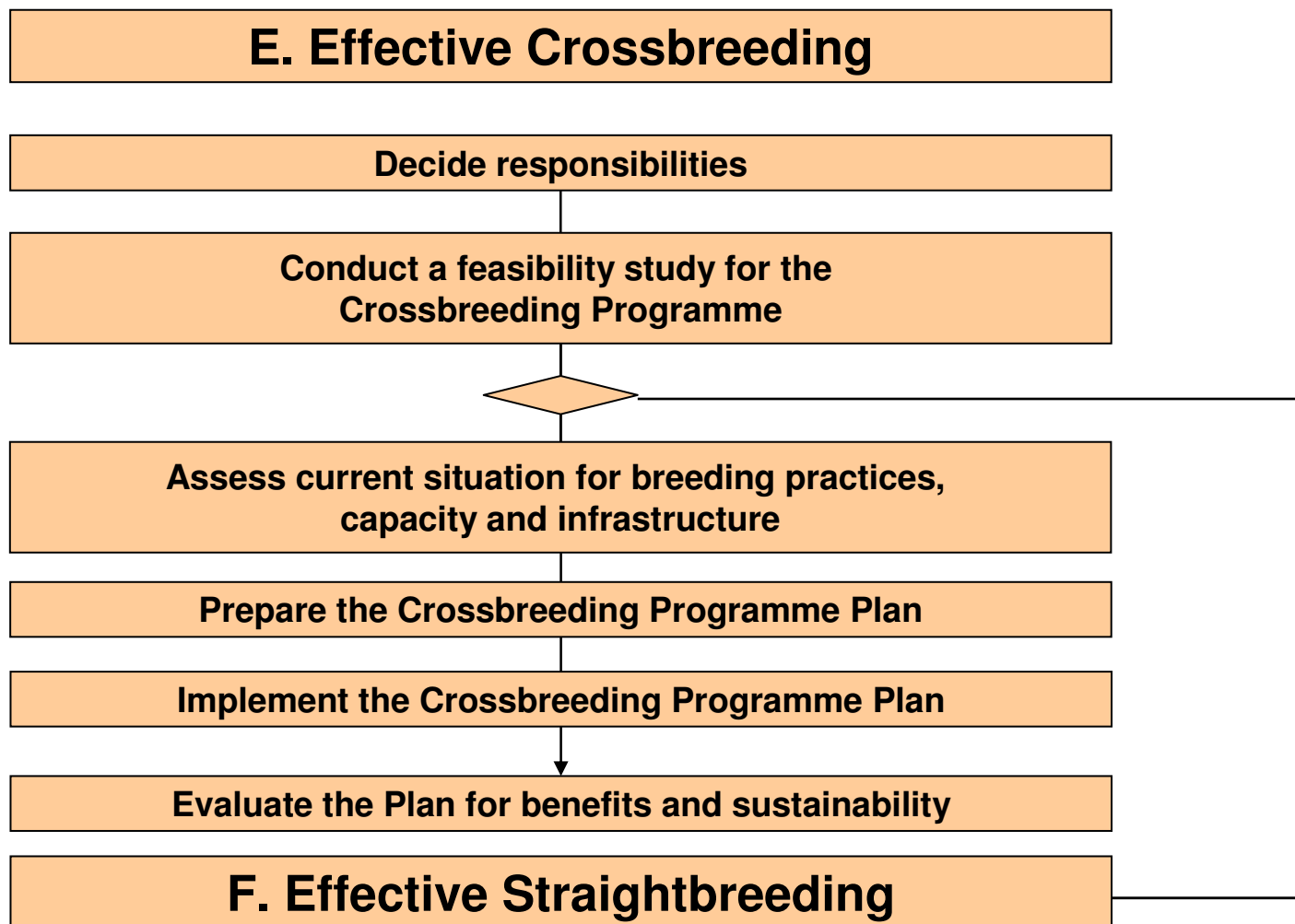
Conduct a feasibility study for introducing a breed (GIA)

Prepare a Germplasm Introduction Plan

Implement the Germplasm Introduction Plan

### D. Defining breeding goals





## F. Effective Straightbreeding

Decide responsibilities

Assess current situation for breeding practices,  
capacity and infrastructure

Prepare the Programme Plan

Assemble the financial and organisational structures

Implement the Programme Plan

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Open the nucleus to superior genetic merit

Improve dissemination and distribution

Improve recording and evaluation

Optimize selection intensity and generation interval

Securing the delivery of the programme

Getting  
started

Optimization

## G. Evaluate Investment Decisions

Decide responsibilities

Identify costs and returns

Conduct the cost benefit analysis

Partition of cost between stakeholders

Consider the national perspective