

**Development of models assessing  
the breeds risk status by  
utilization of population and  
relevant georeferenced data**

ERFP project (Call 2009-2010)

# Aim

- A common base on the information that should be collected
  - their format including the spatial dimension of the data
- Develop models that will weigh the different threatening factors to an index appropriate to classify the breeds according to their degree of endangerment
- Tool to make decisions relevant with the management of animal genetic resources having a better tool to analyse breed distribution and utilisation

- Interaction with the TF
  - Common meeting to organise the work
  - Share the tasks/issues between the two groups
  - Avoid overlapping

- TF examine the several concepts and methodologies used to assess the risk status
- harmonisation of the concepts so that they are comparable at country, regional and global level

# Expected outputs

- Identify the available data
  - Assessment of the threats of the breeds, (population trends, political, social and environmental factors) and also the values and the specific contribution of the breeds
- Identify the kind of information that should be collected at farm level, breeding region or country level
- Develop a mechanism of permanent collection and enter the data in a Geographical Information System
- Develop models combining the available data to an index assessing the threats
- Visualisation of the results using GIS tools
- Develop a system that can be used as an early warning tool
- Propose possible ways to incorporate this procedure into existing databases or how to link the existing databases with GIS.

- Need the simultaneously consideration of several criteria contributing to the sustainability of the breeds

# Classification systems and indicators to evaluate breed endangerment status

- Criteria that can be measured accurately or have methods to provide objective data
  - Population numbers and trends, inbreeding, geographical concentration, genetic variation
- Other factors require subjective judgement
  - Socio-ecological factors (human demography)
  - Cultural, landscape management, current commercial value, special adaptation

# Timetable

- Stavanger, August 2011
  - Starting point
- Possible meeting (common with TF) in October 2011
- Working document (December 2011)
- Contributions from all participants
- WG meeting ?
  - Spring 2012
  - Exact date and location to be defined
- August 2012: Final report – Bratislava (ERFP Assembly)



- Thank you...