

GENETIC RESOURCES  
INFORMATION OF NATIVE  
LIVESTOCK AND POULTRY BREEDS  
IN TAIWAN


Republic of China



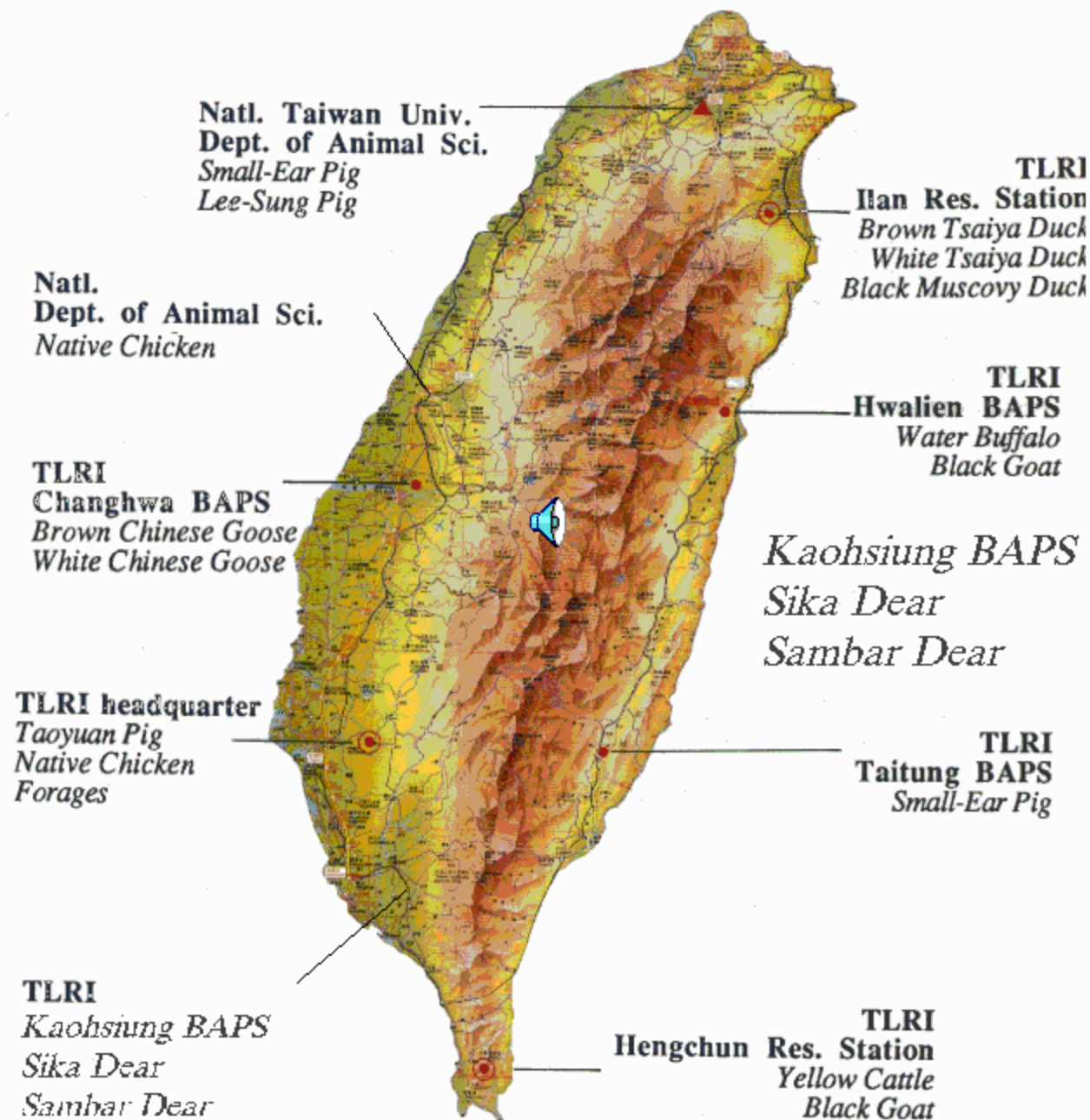
TAIWAN LIVESTOCK RESEARCH INSTITUTE

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# **Importance of Conservation of Animal Resources**

- a.** Assembling and maintaining germplasm of farm animals are special to food production locally.
- b.** Sharing and utilizing the genetic diversity of economic traits are beneficial to the breeders.  

- c.** Developing and integrating the gensources of native and exotic breeds are creative to the scientific perspective.
- d.** Gathering and acknowledging intellectual observations of our ancestors on these native animals are large tasks as the historical mission to perserve them for future generations.

# Status of Native Breeds and Place of Conservation



## **Methods for Conservation and Utilization**

- a.** Propagation with a small population.
- b.** Cryopreservation of sperm and embryo.
- c.** Intercrossing with exotic breeds.
- d.** Collections on their growth, reproduction and living habits.

# Protocol on Germplasm Conservation in Taiwan

**1.**Standards setup for visible characteristics of conserved breeds.

**2.**Collection of native animals.

**3.**Selecting the place of conservation.

**4.**Propagating with a small population at random. If animals have economic traits for improving production performance of exotic breeds,the intercrossing program is conducted.

**5.**Data collection on their growth, reproduction and living habits.



**6.**Preservation of germ cells with emphasis at sperm and embryo cryopreservation.

**7.**Information exchange and providing for public needs.

**8.**Typical animals after propagation with benefits of cooperative germplasm research are released to private sectors.

**9.**Promoting public extension and education with intellectual property rights for these germplasm in relation to arts and culture.

**10.**Sharing the world's genetic diversity and turning potential into reality.