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### “Resource Management: Private-Public Partnership and Knowledge Sharing”

#### Research results on conservation and use of indigenous chicken genetic resources in Vietnam

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#### **Abstract**

Vietnam contains a great wealth indigenous animal genetic resources in general and indigenous chicken genetic resources in particular. These resources are important to the economy and well being of the country today and vast household potential for development in the future. But like other countries in the world, the Vietnamese indigenous chicken breeds are threatened by extinction as a result of changes in livestock production systems due to the demand for increased animal production by introduction of exotic breeds, with economic pressures and political and social pressures

Since 1990, the national project on animal genetics conservation (especially on indigenous chicken genetic) has been projected. Work has concentrated on the indigenous chicken breeds and attention has been made first on the endanger breeds.

During 10 years of carrying out this project, we have achieved the following aspects:

- We have conserved most of indigenous chicken breeds such as: Ho, Dongtao, Mia, Ri, Ac, Tre, Troi. by the ex-situ and in-situ methods.

- Found out the best method to conserve these indigenous breeds (in-situ method):

By in-situ method we divided into:

##### *1. Selection and pure breeding:*

Which breeds are selected for pure breeding:

+ The breed with low performance but good product quality (Ri, Ac..)

+ Some areas, where the market demand is quite low (mountain region), where people must self supply for their food, where people can not so much invest on their livestock production.

+ Some special breeds :Chicken meat and egg for medical food (Ac chicken) for fighting (Troi, Tre chicken), for ornamental purposes..(Tre, Ac).

##### *2. Selection and crossbreeding with exotic breeds:*

+ Improvement in production, product quality, and become adapted to the stressful environments (Ri x Rohde Island) (Ri x Chinese Yellow chicken) (Ri x Mia) ...

The research results show that, nowadays, the population of these indigenous chicken breeds are increasing and all indigenous chicken breeds are raising widely in whole country.

To obtain these results, we have received all the Help from Government, NGO, FAO and other organization as well as the Scientists, Farmers...