

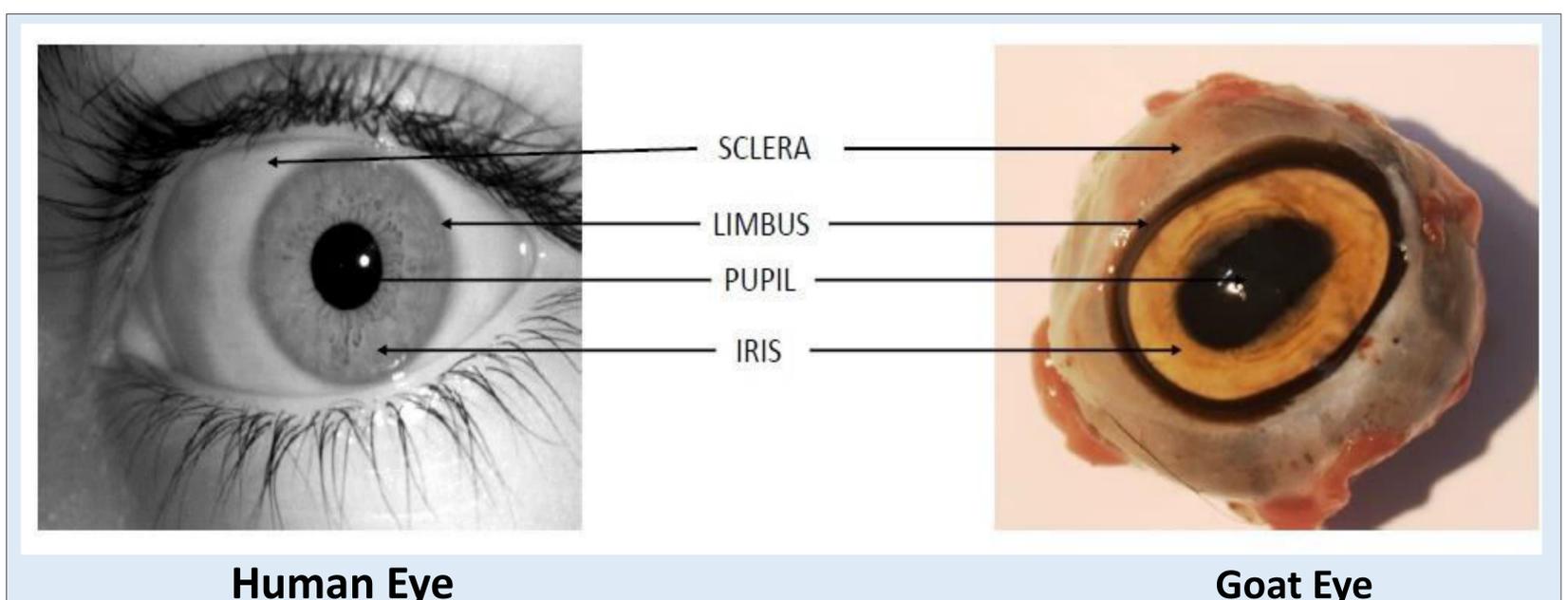
Individual Goat Identification using Iris Image

Problem being Solved

All traditional goat and pig identification systems are tamperable and hurtful to the animals. Because of non availability of a dependable identification system, the large number of farmers (mostly marginal) cannot claim proper insurance, and services for their animals, a good traceability system for pork & chevon production cannot be developed. As a result, the small farmers are denied their potential income, and pig fatteners & processors cannot develop potential system of world standards.

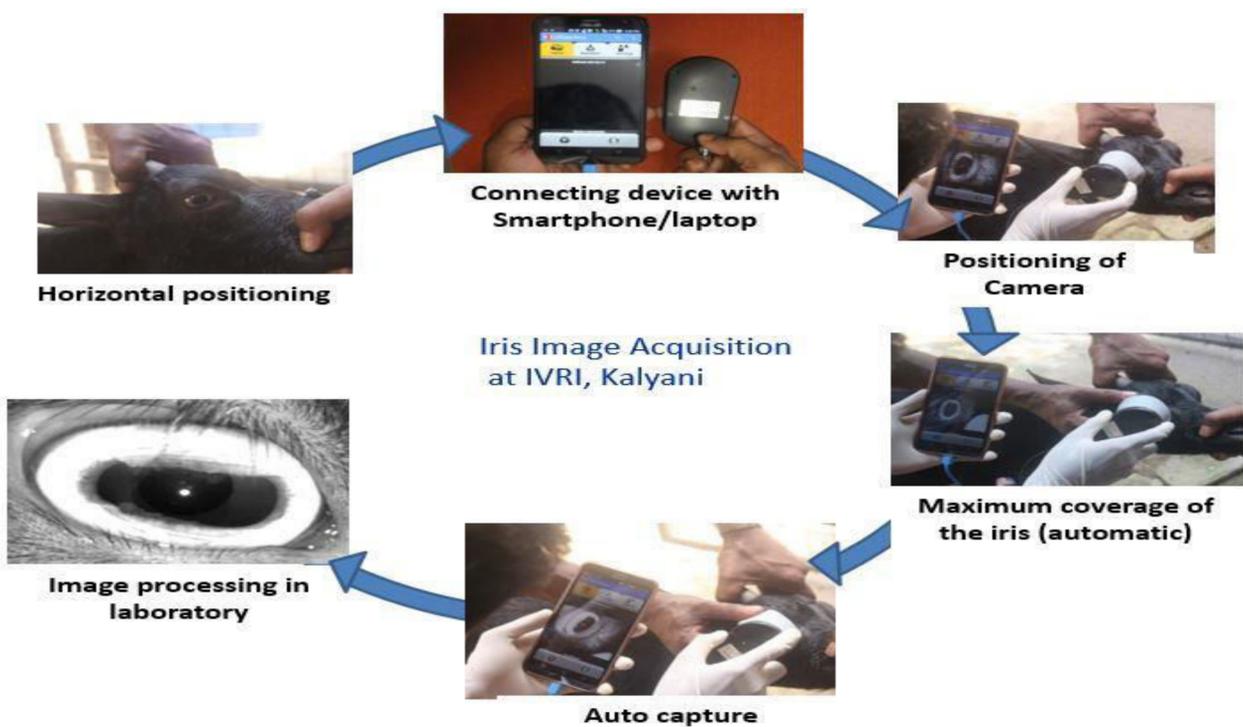
Solution for Goat

As in humans, biometric identification systems would be foolproof for animals too. Hence, various trait features were explored for **constant uniqueness** and **ease of capture** and thus iris pattern was selected as the most suitable for unique identification of goats.

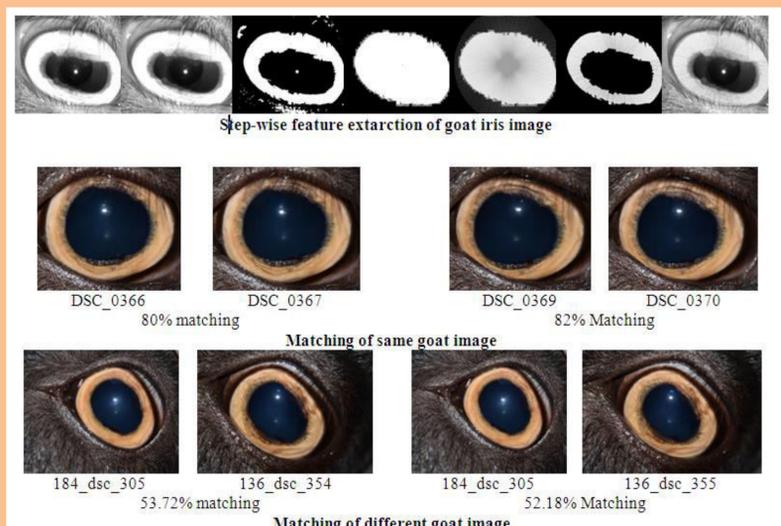


Human Eye

Goat Eye



The iris pattern has been found to remain constant from the time of weaning age (around 2 months). Hence the iris pattern of eye can be an unique identification biometric. DSLR Camera with macro lens was used for capturing eye pictures. Attempts were made to use mobile camera. Problem of Reflection in image captured by Mobile Camera. Recently, we have found solution to this problem, and in near future, we would be attempting in incorporating it.



Software for Individual goat Identification has been developed and copyright application has been filed. Software for communication between the smart phone in the field and a central database is being developed.