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Earthworms' "farm model" to increase the protein diet of fresh fish aquaculture

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The ANNADYA project tried to develop the protein feed for fresh fish aquaculture. The ANNADYA located on Attapeu province is a food security project. This province had a real potential to develop the fishing and aquaculture. This project built two earthworms' farm model to improve the fish diet. This poster illustrates the conception, the cost and the results of this model. Two earthworms' farm models are being installed to increase the capacity of the household to ensure the nutrition, especially the protein diet of fish. The most important constraints were the manure and water supply. In fact, these models were not sustainable because the humidity was not enough during the dry season and the farmers did not supply manure into the tank to ensure the development of earthworms. The solution to these problems is the location of the farm model. Therefore, the choice of the household is based on the capacity to produce manure and the water access to keep the manure moist. In addition to, a study of the feed should be realized to improve the practice of the farmers. The benefits of this model are the cost reduction and the productivity gain. This model is sustainable if some protections are added: Gutter with water to struggle against the insects, netting to struggle against the animals and roof to limit moisture and the rain. In conclusion, this model is really interesting to ensure 70% of the protein diet.

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