



TRANSFER OF THE PRINCIPLES OF CIRCULARITY FROM AQUAPONICS TO MOUNTAIN FISH FARMING

Promoting entity:
TRUITE DE BANKA
 contact@truitedebanka.com
 www.truitedebanka.com

Accompanied by:
BiOPONi
 contact@bioponi.fr
 www.bioponi.com



TERRITORIES INVOLVED		DESCRIPTION OF THE PROJECT	RESULTS OBTAINED AND REPLICABILITY	PROJECT CONTINUATION
	EUSKADI	<ul style="list-style-type: none"> Truite de Banka is an open-system mountain fish farm located in the Banka Valley. Since 1965, it has been raising trout in its ponds, fed by the source of Arpéa. The debit going through fish farming is about 300 litres of water per second. The breeding of rainbow trout (<i>Oncorhynchus mykiss</i>) is 100 grams in one year, 250 grams in two years and 5 kg in 5 years. Since fish feces are not valued to date, the project is to transfer principles from aquaponics to this traditional breeding system. Indeed, aquaponics allows to pair a production of plants by feeding them exclusively from fish droppings, previously transformed by bacteria to make them assimilated by plants. The project of Truite de Banka consists of developing on its ponds a pilot installation in aquaponics to familiarize itself with these techniques, to enhance some of the excrement produced on the site, and to make it an educational site for the many visitors to the fish farm. The plants produced can be valued in Truite de Banka products (smoked fish, soup...) 	<ul style="list-style-type: none"> An implantation and sizing study carried out by BiOPONi made it possible to size and find a solution for the implementation of this pilot. The equipment and investments are known, the choice of plants are also studied (depending on the season, pH and water temperature), the forecast yields allowed a sizing. The Truite de Banka's teams are trained by the BiOPONi team in the principles and conduct of an aquaponics system. Educational content for the public is also already in place. 	<ul style="list-style-type: none"> The installation of the pilot will be done soon on the operation. The experience will be gained by the operators once the installation is started, by practice. Communication to as many people as possible (other professionals and visitors) will be provided to bring the benefits of this system to the attention.
	LA RIOJA			
	NAVARRA			
x	PYRENEES ATLANTIQUES			
	OCCITANIE			
	AUTRE/S TERRITOIRE/S			

PROJECT'S CONTRIBUTION TO THE FOLLOWING INDICATORS

INDICATOR	INITIAL VALUE (data or description)	FINAL VALUE (data or description)
<i>Rejection management</i>	Dilution/ evacuation of fish faeces in the river	Valuing fish faeces into nutrient nitrates for plants thanks to the bacterial process and the enhancement of sludge from the process by a lombrifier.
<i>Vegetable production</i>	No plants were produced for fish farming	Aromatic herbs, salads... will be produced for fish farming, valued in processed products (rillettes, soup, etc.). and for direct sale (sale of salads). These plants will be produced without external chemical amendments.
<i>Strengthen agritourism</i>	There are already many visits to the fish farm. Visitors can discover the fish section and leather goods made from Trout leather.	With aquaponics, Truite de Banka will allow visitors to discover other types of production and other trades that will attract more visitors to the site.

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