2021

sustainable opportunity

STURGEON CONSERVATION FARM



Number of registration of Copyright under European legislation is:
3420-qHhBiwFDeE

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1/1/2021

The short presentation of the project

"INNOVATIVE REPRODUCTION STURGEON FARM & SUSTAINABLE HARVESTERS"

The Innovative Farm company based in Romania, having the object of activity Aquaculture, aims to build a breeding station for sturgeons in a location that has water of the best quality for obtaining sturgeon fry.

In Romanian farms there is a capital fund of over 4,000 adult sturgeons of the 4 species found in the Danube.

Genetically these sturgeons are descendants of direct parents from the wild.

Wild specimens can also be caught from the Danube to obtain reproductive material.

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The proposed farm is designed at a high technological level incorporating modern technologies such as molecular mechanical filtration, biological filtration, the use of biofiltration support environment and plant filtration, also nature so that the nitrogen and carbon footprint is close to zero.

The farm is technologically associated with an aquaponic plant, which will act as a plant filter and space for pre-growing small sturgeons.

The identified land has an available surface of 4,700 sqm sufficient for the proposed purpose.

The groundwater is at a depth of approx. 110 m and has the property of effluent on its own with a sufficiently high flow rate (30l / s).

The project does not use any sources of thermal energy regardless of the season, and the only thermal energy that ensures the maintenance of optimal temperatures in pre-growth basins, regardless of the season, is that resulting from water in the well. It averages 11^{o}C regardless of the season. In summer we will use a larger amount of water to cool and not exceed 24 degrees in the pre-growth pools and in winter (sturgeons hibernate) we will use the same water to heat above the frost limit.

All activities will be carried out in a protected area, a hall that has half the roof and walls covered in transparent foil to allow sunlight to reach the beds of plant growth.

The entire system is automated, and automation algorithms have been developed in over 12 years of study.

This approach is based on 14 research topics conducted by the author of this project on the reproduction and growth of sturgeons in recirculating systems and aquaponic systems.

All the elements that must ensure a climate similar to that of the wild environment are taken into account, starting with the temperature, light, food, habitat elements, noise sources and the lack of presence of the personnel from the growing area.

A very important aspect is to ensure the conditions for the reinsertion of these small sturgeons in the Danube, to acclimatize them and to ensure a greater chance of their survival.

The transport equipment intended to be used is invented based on the observations and experience gained in over 12 years of activity and allows to ensure a survival rate of 99% for a transport lasting 48 hours. Practically the small sturgeon can be transported in any place that belongs to the river basin of the Danube as well as of the Black Sea or the Sea of Azov, as well as of all the rivers tributary to them.

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This project benefits from the scientific support of the best specialists in the study of sturgeons, people with scientifically proven experience in almost all programs that have been developed so far.

In addition to the line of business on the supply of sturgeons in repopulation programs, it is proposed to supply small sturgeon for commercial aquaculture farms.

This supply of brood will be made at the level of the entire community of aquaculturists from the 27 countries of Europe + UK as well as in the countries bordering the Black Sea.

In the business plan, in the "Sale" table you will see an extremely pessimistic expression of the selling prices of this brood. In reality, the sturgeon market that I host on one of my websites is located at much higher prices. Government repopulation programs in Romania have paid 20 times higher prices than those mentioned in the business plan attached to this project.

A minor line of business is the vegetal culture and the aromatic herbs that ensure for the whole year the operating costs of the whole station.

All equipment is produced dedicated to this project based on the execution projects developed by the author of this project.

The pumping systems will be purchased from elite manufacturers with a low energy coefficient.

Monitoring and control systems will be purchased and built dedicated to this project. Many types of online equipment and sensors have been tested for detecting and recording the values of the most important chemical components.

Bio-filtration will be provided on a medium pre-inoculated with selected useful bacteria.

Seeds for vegetable plants will be purchased specifically from companies that offer such dredged seeds for aquaponic systems.

Thermal energy storage technologies collected from the top of the building will be used in thermal accumulators placed in the basement of the farm.

The climatic conditions at the farm location ensure the best features, the location also ensures quick access to highways.

The local authority, the mayor's office and the administrative staff are in favor of this project.

The workforce resources are mostly local and are trained and qualified by a training and professional development department that the author of this project manages within the company.

Emphasis will be placed on the insertion of a micro Roma community that provides seasonal activities in the area in vegetable greenhouses with basic knowledge provided.

The author of this project is an international expert in recirculating systems and sturgeons, offering consulting for biofiltration and mechanical filtration for companies in Iran, Saudi Arabia, Japan, Moldova, USA, Germany, Poland, Czech Republic, Kazakhstan, etc ...

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The author is a project manager and the director of the largest project of an international research center in the field of aquaculture and aquatic ecology (see attached video presentation), a project that is provided in the European Union strategy as The International Center for Advanced Studies on River Delta Sea Systems DANUBIUS-RI is a pan-European distributed research infrastructure supporting interdisciplinary research on large river-sea systems.

The arguments of this project, both technical, economic and opportunity are presented in the documents that are the subject of this project:

The succession of programs project 30.11.2020.pdf

Version for rushed readers 23.11.2020.pdf

Advocacy for project 13.11.2020

Financial Plan Project 13.11.2020.xlsx

Narative Project 11.11.2020.pdf

Plan reproduction station with aquaponics ver 12.1.pdf

They can be downloaded from http://www.caviarfactory.ro/ro/olooson_project/