



**”Strengthening Circular Economy
and Valorisation of side-streams
in RAS Aquaculture”
AQUALOOP International Conference**

Gårdsfisk

An integrated, land-based circular fish farming – Swedish case and the potential for side-stream utilization

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Johan Ljungquist, Founder and CEO

Andreas Granath, Communication

@AquaLoop



@AquaLoop Interreg SB



The Gårdsfisk way

Gårdsfisk build the farm and implement the Gårdsfisk tech.



Fish fry

The fish is hatched on our farm in Sweden and later on moved to the farmer where they live in pools inside the barn.



At the farm

The farmer now has a new animal that provides nourishment to the fields outside.



Closed-loop

The fish pool water is used for watering the crops. Fish excrement is the perfect manure - making it an almost closed-loop system.



Food

With a great respect for animals and nature, the fish is euthanised, packaged and transported out to stores and restaurants.



Tacos?!

Now it's up to you to decide if you want to go for magical fish tacos or maybe fish burgers - bon appétit!

The farmers owns the farm and are responsible for grow-out.



Animal welfare, feed, euthanasia, resource reusability etc.



African catfish

The superhero



Nutritious

The Swedish food agency recommend to eat more fatty fish. Clarias meet the requirement with it's 5,6g fat / 100g.

Small level of toxins

PFAS4 - Approved EU level 2-8ug/kg

Gårdsfisk level: **0,011 UG/KG.**

PCB - Approved EU level 75ng/kg

Gårdsfisk level: **1,5 NG/KG.**

Mercury - Approved EU level 0,5mg/kg

Gårdsfisk level: **0,01 MG/KG.**

Easy to farm

Though and low stress level.

FCR -> $\approx 0,9$

Growing -> ≈ 9 month

Food / m2 -> ≈ 328 kg

And consumers enjoys it

Case municipality 1

8 servings a year with fish meatballs. >20 tonnes.

Case municipality 2

Increase consumption of our meatballs with over 300%.

Case municipality 3

Want to swap cod/saithe/salmon to Clarias fillet. >20 tonnes/year

Food bags

Servings every week with Swedens biggest food bag.

Online retail

Score 4,8/5 for our Clarias fillet

Industry

A very good raw material to work with

/ Norwegian factory

It's amazing

/ Polish factory

And there is more to do!

Side streams



Food

Broth, fish sauce, and fond.

- we are making tests.

Collagen

- Works good, but they only want skin.

Pet food

- looking for projects

Leather

Works good, but the fish is too small.

Fish meal / fish oil

Could Catfish become the main source of fish meal and fish oil?

Future projects



**A Clarias fishmeal
without fish.**

**Contingency
planning. How can
we make a country
self-sufficient of
fish?**

Do you want to join?



Contacts

Johan Ljungquist

johan@gardsfisk.se

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andreas@gardsfisk.se

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