



1st EuroShrimp Symposium
05. April 2017

Pilot Aemme Shrimp
Aquafuture Switzerland GmbH
Stacy Ciulik



Agenda.

Aquafuture Switzerland

Biofloc Technology

Pilot Aemme Shrimp

Expectations of 1st Euro Shrimp Symposium



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Aquafuture Switzerland LLC.



Irene Kunz
Fritz Kunz
Matthias Kunz
Stacy Ciulik



- 1998 – Investment in freshwater shrimp farm in California
- 2012 – Shrimp farming market research
- 2013 – Attendance at WAS Aquaculture
- 2014 – Founded Aquafuture Switzerland LLC
- 2015 – Started Pilot Aemme Shrimp

Sustainable Production in Switzerland.



Preservation of mangroves

Support environmental balance



Reduction of “by catch” (can include sharks, rays, sea turtles, fish)

Small ecological footprint

Farm to Fork

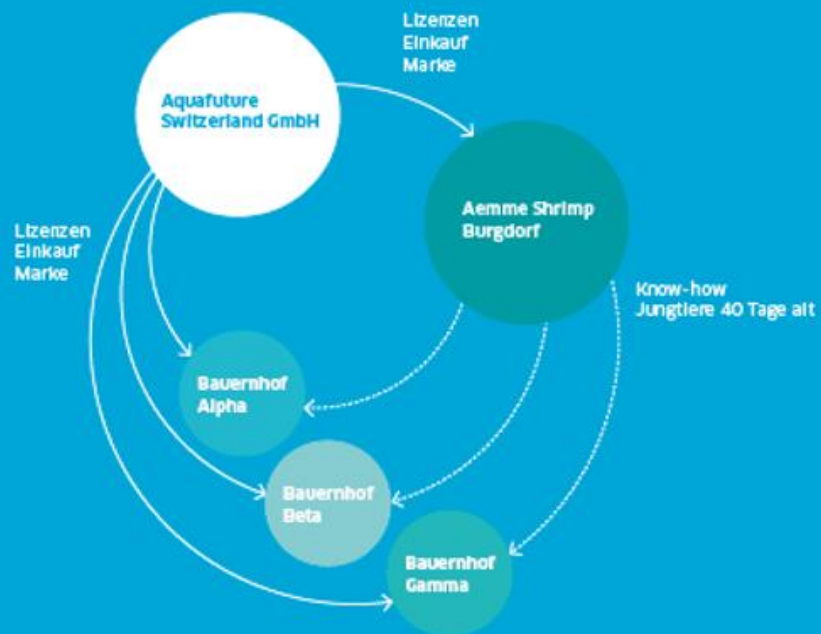


Vision.

To support agricultural family businesses in successfully establishing and maintaining sustainable aquaculture production.

Business Model.

Das Geschäftsmodell von Aquafuture





Agenda.

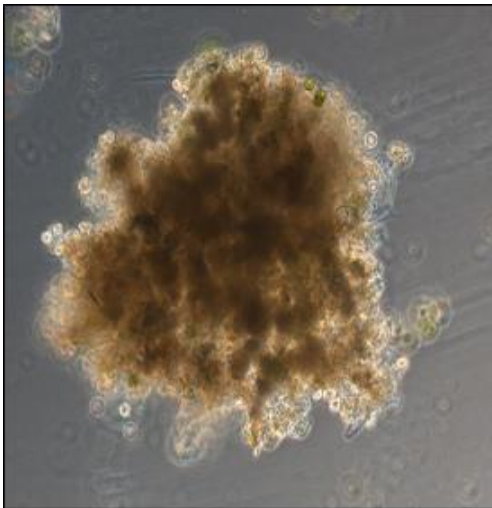
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Biofloc Technology. Microorganism.



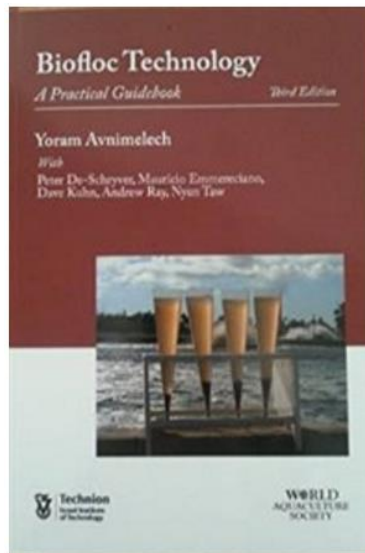
Biofloc is irregularly-shaped, suspended, microscopic
Consists of:

- microbes
- algae
- protists
- zooplankton
- waste
- detritus
- exoskeletons
- uneaten feed

Provides biological filtrations and turns nitrogenous wastes into high-protein feed for the shrimp

Biofloc bacteria outcompete harmful, pathogenic bacteria like *Vibrio spp.* that can cause shrimp and human diseases.

Biofloc Technology. Guidelines.



Biofloc Technology

A Practical Guidebook by Dr. Yoram Avnimelech

Design and Operation of Super-Intensive Biofloc-Dominated Systems for Indoor Production of the Pacific White Shrimp, *Litopenaeus Vannamei*—the Texas A&M Agrilife Research Experience,
to be released later this year by Dr. Samocha

There are no biofloc technology production blue prints available



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Pilot Aemme Shrimp. EyHof - 300-year-old family tradition.



EyHof in Burgdorf, Switzerland ... the gate to Emmental



Irene, Fritz, Christian and Jürg Kunz

Pilot Aemme Shrimp. EyHof – farming today.



Adapting to changing local environment, regulations and trends



- 1 ha intensive orcharding
- 7 ha potatoes
- 3,5 ha sugar beets
- 3,5 ha winter oats
- 3,5 ha corn
- 3,5 ha winter wheat
- 13 ha meadow with fruit trees

Pilot Aemme Shrimp. Shrimp Farming Prerequisites.



Sustainable energy concept

Good water quality

Willingness to work 365 days a year



Existing farm buildings with 175 – 200 m² for 6 – 8 tanks

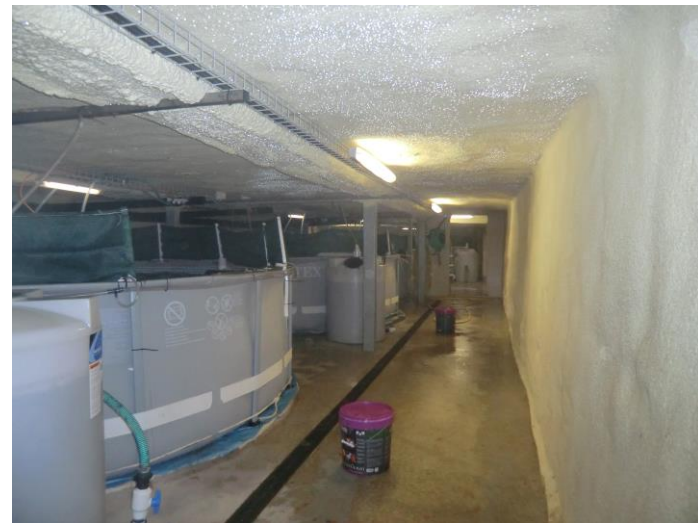
Direct sales from farm

Close proximity to city markets

Pilot Aemme Shrimp. Pig Stall Demolition.



Pilot Aemme Shrimp. Shrimp Production Transformation.



Pilot Aemme Shrimp. Laboratory.



Daily water tests:
PH, DO, salinity and temperature



Pilot Aemme Shrimp.
Branding.



Farm to Fork
Regional production
Swiss farms with unused stables, barns, etc.

Pilot Aemme Shrimp. Success.



Pilot Aemme Shrimp.
Press Conference Prep - 30 Oct 2015.





Pilot Aemme Shrimp. Phase 2.





Pilot Aemme Shrimp. Challenges.

Year-long ripening process of biofloc bacteria in natural spring water

Establishing brand in Premium Market

Short shelf life



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Expectations. 1st Euro Shrimp Symposium.

Status in Europe:

- Fish-free feed
- European hatchery
- Harvesting methods
- Certification
- Organic labeling
- Who is producing where and how



Thank you.

