SUPERIOR SUSTAINABLE PROTEIN FROM WOOD
AQUACULTURE NUTRITION INNOVATION
GLOBAL AQUACULTURE INNOVATION AWARD
CROWDED
HOTTER
HUNGRIER
LESS THAN 10% OF LAND ON EARTH CAN PRODUCE FOOD...

AND AGRICULTURE ALREADY USES OVER 70%
LIMITED RESOURCES ARE PUSHEDE TO EDGE OF CAPACITY
30% OF WILD FISH STOCKS ARE HARVESTED AT BIOLOGICALLY UNSUSTAINABLE LEVELS...

90% ARE FULLY EXPLOITED
OCEAN ECOSYSTEMS ARE DECLINING FASTER THAN EVER BEFORE
How can we produce more NUTRITIONAL, ACCESSIBLE food to SAFELY and SUSTAINABLY feed the future?
Seafood produced sustainably is healthy and appealing to consumers.

Aquaculture is 50-100x less harmful to the environment than land-animal production.

Aquaculture is projected to supply over 65% of global seafood consumed by 2030, 8% CAGR.

FEED INNOVATION: SUSTAINABLE, NUTRITIONAL PROTEIN IS CRITICAL AQUACULTURE GROWTH

Sources: GAA BAP, 2019. UN FAO, 2016
Arbiom is leading Feed Innovation with technology that converts Wood to Protein.
WOOD OFFERS UNIQUE BENEFITS AS FEEDSTOCK THAT EXPands NEW PROTEIN PRODUCTION

- Renewable, Non-Food Crop
- Existing supply chains of forest products industries
- Global forest land is increasing
- Sustainable forest management practices
SYLPRO® OFFERS COMPELLING BENEFITS AS PROTEIN SOURCE FOR AQUAFEED

**Nutritional**
- High-quality protein-rich ingredient

**Economical**
- Superior animal performance and gut health
- Reliable for feed mill operations

**Traceable**
- Robust and flexible production platform

**Sustainable**
SUCCESSFUL SYLPRO TRIAL RESULTS

High-Performance in extrusion and material handling studies

SylPro is nutritious, highly-digestible protein based on ADC

Feeds with SylPro improved fish microbiome

Life Cycle Analysis confirms SylPro more sustainable than many plant & animal proteins (e.g. fishmeal, soy)

Juvenile Atlantic Salmon Trial

Body weight gain %

30%  35%  40%  45%  50%  55%  60%

0%  10%  15%  20%  

Apparent Digestibility Coefficients

120.0  100.0  80.0  60.0  40.0  20.0  0.0

Soy protein concentrate  Arbiom  Soybean meal - 48%  Fish meal  Other new alternative proteins*
ADDITIONAL SPECIES FEED TRIALS PLANNED IN 2020

 Trials will evaluate Nutritional Performance, Digestibility, and Added Value in additional species.

RAINBOW TROUT  NILE TILAPIA  HYBRID STRIPED BASS  SEA BREAM
**RECNET NEWS**

**Feed navigator.com**

Arbiom: Trials support wood to feed protein's candidature as fishmeal substitute

SPECIAL EDITION: AQUA FEED INNOVATION

Arbiom reports success for its alternative protein in salmon trial

**Biofuels Digest**

Making the fish feed we need from the scrap wood we don't: Aquaculture Trials of Arbiom’s SylPro show real promise

Salmon trial validates nutritional, sustainable potential of SylPro wood-to-food ingredient

October 11, 2019 | Jim Lane

**Feedstuffs**

Efficacy of wood-based protein for aquaculture feed demonstrated

Aquaculture trials test wood-to-food ingredient

Milestone marks step toward commercialization of novel protein ingredient for aquaculture feed; research on livestock applications to be released.

**Undercurrent News**

Wood-to-feed ingredient maker Arbiom sees positive results in fish trials
From what nature does best
To what society needs most...
Join us!
Thank you.