Commercial Products using Algae Blended Thermoplastics

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Opportunity Overview

• ALGIX is bringing unique patented technologies to the $460B plastics industry by harvesting the potential of algae

• Harvesting algae blooms clean the environment and provides low cost feedstock for bioplastics

• Algae is a non-food based alternative to traditional fossil-fuel based plastic, with the potential to create disruptive polymeric products.

• While securing a significant source of algae, ALGIX has become the largest commercial fish operation in the Caribbean
ALGIX HISTORY

• Founded by:
  Mike Van Drunen, CEO
  • Electronics Engineer with 20+ years of leadership experience in Packaging Technology
  Ryan Hunt, CTO
  • Physicist, Bioengineer and Inventor with 9 years of experience in Algae Biotechnology
  • ALGIX founded to develop algae biofuels
  • Found it too expensive; led to bio-plastics
  • Global bioplastics market segment:
    • $15 Billion by 2020

• Licensed exclusive technology from Kimberly Clark for algae bioplastics

• Began search for algae feedstock
  • Catfish farms in Southeastern USA
  • Discovered aquaculture opportunities in Jamaica and Puerto Rico
  • China algae from lake remediation

• Led to unique and proprietary technologies in multi-billion dollar markets
ALGIX DIVISIONS

Bioplastic Production & Products

Aquaculture Production & Technology

Extrusion Technology and Product Development

Spawning Technology and Production
Product Offerings

3D PRINTING FILAMENT
FRESH FISH
Explosive 3D Printer Market
Aquaculture Products

Market Size: $4 Billion

FLEXIBLE FOAM
Innovative Flexible Algae Bio-Foam

Market Size: $2 Billion

Market Size: $1 Billion

ALGIX
AQUACULTURE
Solaplast custom formulates bioplastic products for sustainable brands

Solaplast products offer a variety of benefits to the customer:

**Environmental**
- Meet corporate sustainability goals based on Solaplast’s Life Cycle Benefits

**Economic**
- Application specific performance & cost savings based on technology platform

**Humanitarian**
- Solaplast products support clean water, fresh food and microenterprises
ALGIX partnered with 3D Fuel to enter the explosive 3D printer filament market with the ability to offer an innovative 3D printer filament product line.
• Sustainable 3D filaments with technical excellence and superior quality
• 3D Printing market growing 40% annually – Forecast $21 Billion in 2020
• Vertically Integrated with Compounding, Extrusion, Spooling and Packaging
• Offer 10 colors of Advanced PLA Filament, and Algae Fuel Filament in 4 colors
ALGIX, through Solaplast, entered the foam market by partnering with product experts to offer a superior flexible bio-foam product.

• Algae Bio-Foam – Disruptive technology to a stagnant $2B foam industry
• Well received with market innovator targeting major brand owners
• Applications in Footwear, Luggage, Mats, Sporting Goods, Toys, Automotive and Packaging
• ALGIX acquired several commercial fish operations in Jamaica that will serve as a high quality source of Tilapia and Caribbean Basa and potential source of algae biomass

• $850k investment for 220 acres of Fish Ponds, now valued at $30M

• Commercializing fresh Caribbean Basa previously unattainable in western hemisphere, 6th most consumed fish in USA at 231 million pounds per year, Basa fastest growing fish market, New tariffs on Asian imports

• High margin business opportunity combining farming, processing and distribution

• Pride of Jamaica Brand very well received with over 60 retailers and wholesalers

• Catastrophic fish kill delays start-up/cash flow – potential $10MM settlement pending

• Recent acquisition positions Algix Aquaculture to disrupt the dominance of Asia in Basa production
Aquaculture Facility
Feedstock Sourcing

Aquaculture

Water Treatment

Industrial

China Algae
Algae Production Technology

- Algae Biomass Production and Acquisition from USA and China
- Mobile Algae Harvesting Platform – 200 gpm DAF Harvesting and Decanting
- Modular Dewatering and Drying – Industrial Mechanical and Thermal Infrastructure
- Algae Biomass Production Capacity: 3,000 Dry Tons per year
- Applicable for Algae Ponds, Photobioreactors, and Environmental Recovery
- Algae Biomass Production, Packaging, Warehousing and Logistics
Summary

• ALGIX is launching innovative products into the consumer markets for the 3D printing and foaming industry with a technology platform to launch future products for additional applications.
ALGIX Videos

Solaplast – Harnessing the Potential of Algae
• https://vimeo.com/125249009

3D Fuel – Fueling Your Creativity
• https://www.youtube.com/watch?v=XfEZe5fDtYc
Commercialization

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