



# CHANGING THE LANDSCAPE

A Plan to Empower Sustainability and  
Capitalize on Microalgae's Incredible Growth



ALGAE 2 AUTOMATION



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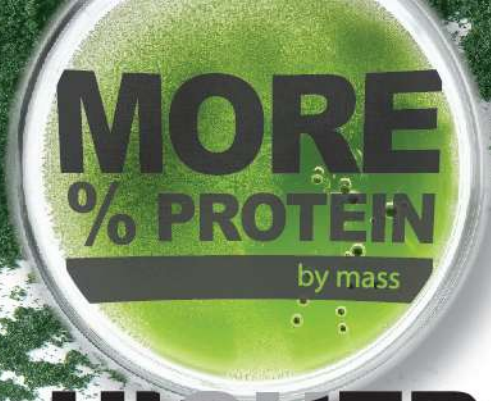
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**BEEF**



**SPIRULINA**



**CORN**



**SOYBEAN**

# HIGHER PROTEIN YIELDS

in ton/ha/yr



The global demand for sustainable and nutritious food sources is growing rapidly. Traditional agriculture is strained by limited arable land, climate change, and resource depletion. Spirulina, a strain of microalgae, offers a promising alternative with its ability to grow rapidly with minimal inputs.

Our main crop, blue-green algae (Spirulina), is widely known for being a protein-loaded superfood. Aside from its health benefits, Spirulina uses land and water much more efficiently than other crops allowing it to deliver more nutrition per acre than any other food.

Even though Spirulina absorbs CO2 from the atmosphere and puts out chlorophyll and oxygen like plants do, its actually an incredibly resilient bacteria capable of exponential growth rates.

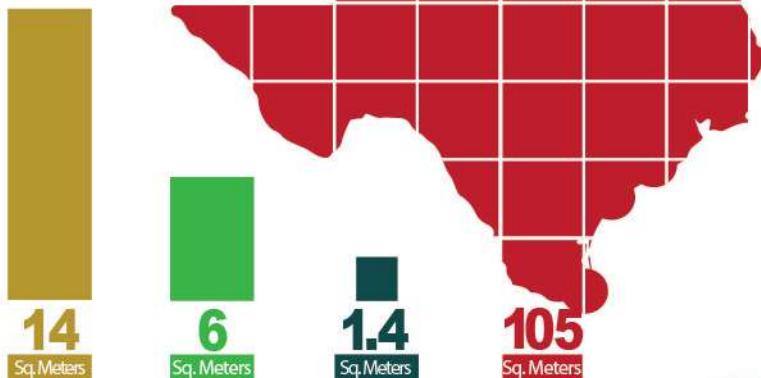
Commonly grown crops like corn, or soybean take an entire season for just one harvest. Under the right conditions, algae can be harvested daily.

By 2050 we humans are expected to have another two billion mouths to feed. Our current farming methods can not sustain the upcoming demand.

Cultivating algae is a proven and energy- efficient system of producing food and energy that operates in harmony with the environment.

# LESS LAND AREA

to produce 1 kg of protein



Growing Spirulina allows us to heal the planet by feeding the world.

# A BLOOMING INDUSTRY



**\$588M** 2023  
9-11% CAGR 2024-2030

Spirulina was only introduced to U.S. health markets in 1979. Since then, research, innovations and consumer adoption of plant proteins have fueled Spirulina's massive expansion into various product applications across several industries. In the past 20 years, governments, corporations and investors have put billions into bringing algae production facilities into operation.



## "CROP OF THE FUTURE"



United Nations

As climate change continues to dominate our culture and politics, support for green initiatives has led to the expansion of research from institutes, universities and government programs exploring the health benefits, sustainability and applications of Spirulina and other microalgae strains. Today, there are over 600 algae farms globally, making up about 50 mid-large scale facilities and 550 small micro producers.

With a robust scientific community, advanced technological infrastructure, and supportive regulatory framework, the U.S. has made significant strides in advancing algae-based technologies for various applications, including biofuels, food and nutrition, pharmaceuticals, and wastewater treatment.

Europe is at the forefront of adopting algae-based solutions to address various environmental and agricultural challenges. The region has witnessed significant growth in algae cultivation and utilization across multiple sectors, including food and beverage, agriculture, pharmaceuticals, and renewable energy.

Producing 70% of the global Spirulina supply, the Chinese government has invested heavily in algae research and development, with initiatives aimed at promoting algae cultivation as a solution to food security and environmental challenges. China's government investment in algae-related projects exceeded \$100M in 2020, reflecting a concerted effort to drive innovation and commercialization in this emerging sector.

South America has emerged as a key player in the adoption of algae-based solutions, leveraging the region's rich biodiversity and favorable climatic conditions. With a focus on sustainability and innovation, countries in South America are actively exploring the potential of algae across various sectors, including agriculture, aquaculture, biotechnology, and renewable energy.

India has launched a nationwide initiative promoting Spirulina's adoption. According to a report by The Economic Times, the Indian government aims to cultivate algae on 1.5 million hectares of land to produce biofuels, animal feed, and other valuable products. This initiative is projected to generate thousands of jobs in rural areas and contribute significantly to India's renewable energy goals while reducing the country's dependence on fossil fuels.

Japan's adoption of algae reflects a multifaceted approach encompassing research excellence, industry innovation, policy support, and international collaboration. With a strong foundation in research and development, coupled with strategic investments and partnerships, Japan continues to drive advancements in algae cultivation, utilization, and sustainability, positioning itself as a key player in the global algae industry.

- Automated Dewatering
- Automated Harvesting
- Automated Nutrient Production

# REDUCED COSTS

# ACCELERATED YIELDS

Algae 2 Automation's flagship facility in Texas will utilize the tried and true raceway pond growing method enhanced with energy saving technology and automated machinery lowering the overhead and increasing production.

Building out raceway ponds exclusively for the first facility provides consistent revenue and research capabilities; fueling an industry changing scalability plan.

Automated Climate Control ●

Automated Feeding ●

Automated Cleaning ●



## LABOR REDUCTION

Automation of growing and harvesting processes reduces the need for manual labor, leading to significant savings in labor costs.



## ENERGY-SAVING EQUIPMENT

Implementing energy-efficient equipment and proven technologies lowers ongoing operational costs and enhances profitability.



## CONSISTENCY & QUALITY

Automated systems ensure consistent quality and higher productivity by maintaining optimal growing conditions & reducing human error.



## TEXAS COAST LOCATIONS:

Algae 2 Automation, LLC is considering three sites along the Texas coast, leveraging nutrient-rich Gulf waters. These sites are centrally located with access to ports for export. They offer extensive space for future expansion and low land costs. All three locations benefit from low taxes, business-friendly regulations, and opportunity zone status.

### YEAR 1

#### Q1 Prospecting

- Evaluate access to deep ocean water, existing infrastructure usability, on-site resources, and current zoning requirements
- Test water, source facility power, explore community support, examine local regulations and survey landscape and usable space at each potential site
- Finalize site selection for the flagship facility

#### Q2 Site Planning

- Establish key partnerships with suppliers, distributors, and industry experts
- Buy land and obtain necessary permits and approvals from local authorities
- Develop detailed site plans, including layout, infrastructure requirements, and resource needs
- Recruit key personnel and form a multidisciplinary team with expertise in engineering, environmental science and business management
- Begin preliminary marketing efforts to build brand awareness

#### Q3 Constructing the Flagship Facility

- Begin construction of the flagship facility based on the site plans
- Install lab, warehouses, growing systems, water supply, and energy sources
- Implement automation systems for monitoring and managing algae growth

#### Q4 Establishing Administration

- Develop operational protocols and standard operating procedures (SOPs)
- Staff administrative positions & establish corporate governance structures
- Finish construction of flagship facility

### YEAR 2

#### Q1 Becoming Operational

- Initiate the first production cycle of Spirulina
- Monitor and analyze data to ensure optimal growing conditions and yield
- Refine processes, address any issues to improve efficiency and productivity
- Implement financial management systems, establish accounting practices

#### Q2 Market Penetration

- Finalize product formulations and launch e-commerce platform
- Obtain relevant certifications such as organic, non-GMO, and clean label certifications to build trust and meet consumer expectations
- Initiate partnerships with health food stores and pharmacies
- Begin educational content marketing
- Begin small-scale distribution of nutraceutical products to test the market

#### Q3 Establishing Presence in the Nutraceutical Market

- Collect customer feedback and adjust product offerings as necessary
- Attend industry events & trade shows to establish the company's presence
- Secure wholesale buyers and launch promotional campaigns

#### Q4 Enhancing Products and Performance

- Review performance and adjust strategies based on market feedback
- Refine product formulations and e-commerce platform where necessary
- Continue sales and begin targeting cosmetics markets

# CULTIVATING HIGH RETURNS

Conservative projections show A2A competing with global leaders.



U.S.-based Cyanotech Corporation, a global leader in algae production, reported a gross income of \$36 million in 2022 with a profit of \$13.6 million from their 96-acre facility. Using Cyanotech's performance as a benchmark, A2A's 150-acre facility (160 acres including structures) will conservatively generate \$21 million annually.

The 15-20% annual revenue growth estimate for years 4-5 is grounded in realistic industry trends and specific growth initiatives that A2A is poised to implement. By leveraging economies of scale with strategic investments in production optimization, product diversification, and market expansion, we aim for substantial revenue growth and high ROI.

Operating in Texas presents several advantages over Cyanotech's Hawaii location.



## Real Estate

Commercial property costs, including rent and purchase prices, are significantly less in Texas, drastically reducing up-front and monthly expenses.



## Material Costs

Materials in Hawaii cost more due to transportation and import expenses. Texas benefits from proximity to suppliers and lower transportation costs.



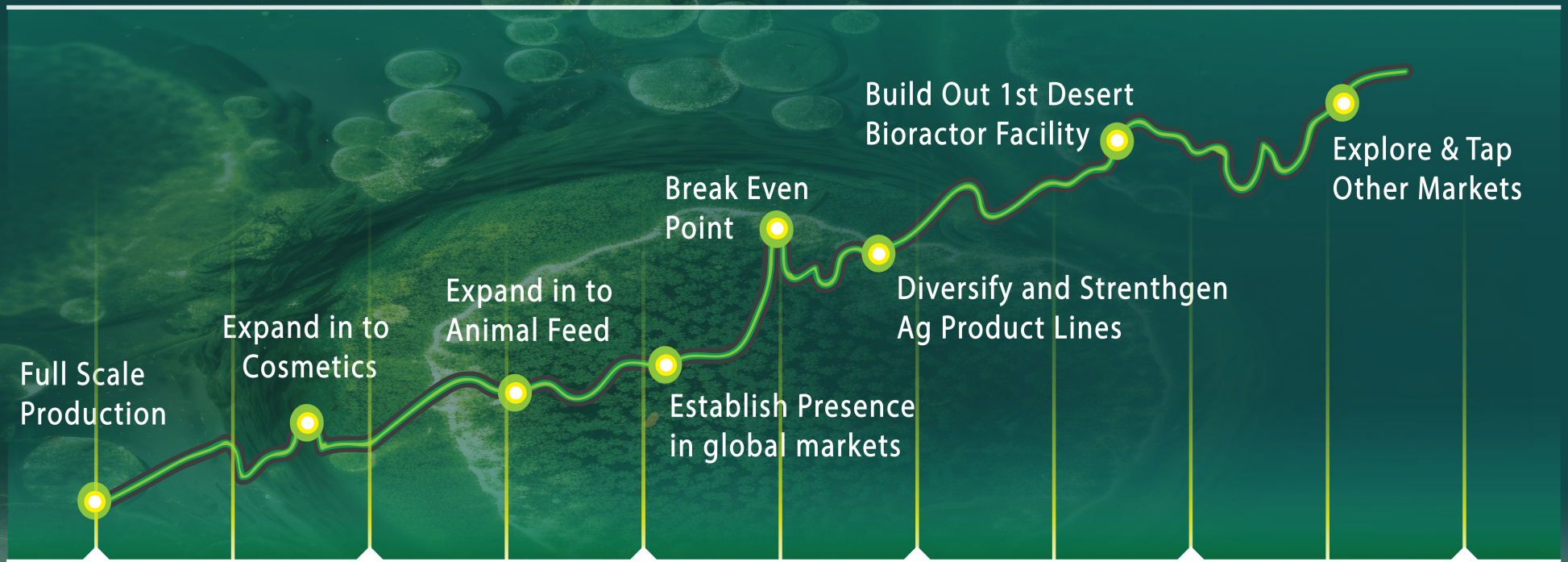
## Taxes

Texas has a lower overall tax burden for businesses, including corporate income tax, property taxes, and sales tax, reducing overall tax liability.



## Imports & Exports

Hawaii's geographical isolation causes higher import/export costs, while Texas's central location and access to major transportation networks, reduces these costs.



**YR 3**

**YR 4**

**YR 5**

**YR 6**

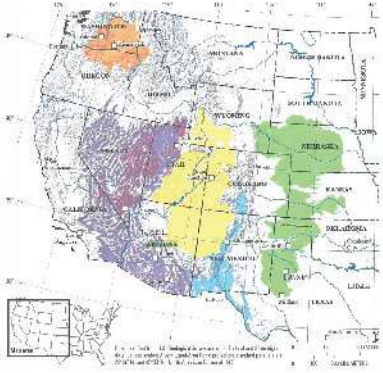
**YR 7**

**YR 8**





# SCALING SUSTAINABLY



The U.S. Army Corps of Engineers drilled wells across the southwest United States in search of fresh water, finding only brackish water in vast aquifers. These wells were subsequently capped and abandoned. Unlike traditional crops, algae can utilize brackish water.

**A2A is poised to capitalize on the vast desert areas of cheap land to automatically grow algae with underutilized aquifers.**

Capitalizing on this underutilized water reduces implementation costs for each new desert facility. By using desalination technology, A2A can tap into these aquifers, adjusting the water's salinity for optimal algae growth. This technology will also provide fresh water for lab work, employee consumption, harvesting, and cultivation.

## A2A'S SCALABILITY PLAN UTILIZES BIOREACTORS EXCLUSIVELY.



### Water Conservation

The sealed design of bioreactors prevents evaporation, allowing a limited water supply to sustain a larger growing area in the desert.



### Stable Growing Conditions

Bioreactor systems do not lose water through evaporation, which alters the salt concentration, leading to wasted water and other problems.



### Cheap Access to Underground Water

Taking advantage of underutilized aquifers with brackish water drastically reduces the expenses of implementation.



### Automated Climate Controls

A2A's bioreactors feature automated climate controls to maintain stable temperatures in the extreme desert climate conditions.

**Cost-Effective Implementation:** The upfront cost savings in land make building high-cost bioreactor facilities viable, where it would otherwise take about a decade to produce a net gain. This competitive edge allows us to bridge the gap between the costs of installing bioreactors and the long-term benefits they provide.

**Carbon Credits:** Algae cultivation absorbs CO<sub>2</sub>, providing a potential revenue stream through the sale of carbon credits to companies looking to offset their emissions.

**Opportunity Zones:** Due to the typically low economic opportunities in desert communities, many of our prospective sites will qualify as an opportunity zone, making us eligible for reimbursement from the program.

**Support and Alignment with Sustainable Practices:** Pivoting toward sustainable farming in desert landscapes opens the door to support from eco-friendly consumers, environmental organizations, government agencies, partnerships with green brands and grant funding.

**Economies of Scale:** As production scales up, fixed costs are spread over a larger output, reducing the cost per unit of algae produced. This reduction in cost allows A2A to compete with traditional crops like soybeans on price.


**New Market Penetration:** This direction naturally aligns the A2A brand with natural and organic farmers, allowing us to break into the massive and ever-growing animal feed and animal feed additives markets.

# COMMITTED TO SUSTAINABILITY

John's entrepreneurial spirit & diverse background makes him an ideal leader for Algae 2 Automation. The blend of business management, engineering, manufacturing and cultivation expertise positions him to drive innovation in algae production and contribute to a sustainable future.



“By harnessing algae we can diversify the food supply and offset our current dependence on unsustainable farming practices.”

  
John Hittner Founder - Algae 2 Automation, LLC

## Building Fishy Business, INC

John moved to San Diego at 19 and began working at Fishy Business, INC, a pond care company and aquatic nursery. Discovering his passion for cultivation, John purchased the company within six months, marking the start of his entrepreneurial career.

As the owner, John expanded the company's services to include some of the most recognized water features in San Diego, such as the Balboa Park Mirror Pond. Over five years, he developed a robust company model and a strong client base, undertaking large-scale projects for state, county, and corporate clients. His work in aquatic systems management laid the foundation for his deep understanding of ecosystem dynamics and sustainable practices.

## High-Pressure Extraction Equipment

John then founded CM Solutions and Hittner Machinery in California's North Bay area. For seven years, he focused on high-pressure extraction equipment, refining his engineering skills and production process knowledge.

## Leap Farms and M & B Vineyards

In Southern Oregon, John became a partner at Leap Farms, LLC, and M and B Vineyards, LLC. He designed a processing facility, ensured regulatory compliance, and developed sales and inventory management systems, all while staying under budget.

## CO2 Extraction Innovation

John's innovative techniques elevated CM Solutions in the competitive marijuana extraction market. He developed new technologies that maximized profitability and company longevity, leveraging his broad industry experience.



**Paul Hittner** *Cofounder/Branding Specialist*

Paul Hittner brings expertise in branding, positioning, marketing, networking and sales. He started BizVisionary, a branding and design company, in 2010. Collaborating with various professionals and marketing agencies to create captivating marketing materials and strategies, Paul has managed numerous branding projects. At A2A, he leverages

his extensive background to enhance the company's market presence, develop strong brand positioning, and drive effective marketing campaigns, ensuring the brand's visibility and appeal in a competitive market.



**Christopher Haltom** *Partner/Attorney*

With over 20 years of experience, Mr. Haltom specializes in tax planning, business structuring, and asset protection, ensuring Algae 2 Automation's legal and operational efficiency. His expertise in ERISA compliance, executive compensation, and nonprofit governance strengthens our organizational foundation. As a member of the State Bar of

Texas with degrees from Baylor University and Southern Methodist University, Mr. Haltom's legal acumen is pivotal for navigating regulatory challenges and supporting our growth.



**Robert Henrikson** *Advisor/Industry Expert*

Robert Henrikson is a pioneer in the algae industry with over 40 years of experience. He founded the world's largest algae farm, Earthrise Farms, and directed the development and marketing of spirulina products in over 30 countries.

Robert has served as president of the Earthrise Company, co-founded the Algae Biomass Organization, and authored influential books on spirulina and algae. His humanitarian efforts include promoting spirulina as a solution for malnutrition in developing countries. Robert's extensive experience in algae commercialization, marketing, and humanitarian initiatives will provide invaluable advisory support to Algae 2 Automation, ensuring the company leverages algae's full potential for both commercial and social impact.

# TOGETHER

Algae 2 Automation is well-equipped to drive innovation, secure investment, and achieve our mission in the algae industry. Our team's diverse skills and extensive experiences ensure the success of our business plan. Dale's technical and practical experience in algae cultivation, Robert's unparalleled industry leadership and humanitarian initiatives, Mr. Haltom's legal and tax planning acumen, Jon's business development and media strategies and Paul's marketing and branding expertise, collectively provide a robust foundation for Algae 2 Automation.



**Dale Solomon** *Partner / Head of Production*

Dale Solomon, a USC Viterbi School of Engineering graduate, worked as an aerospace engineer before his career in algae cultivation. In 2017 he founded Oasia Farms, where he successfully built and scaled a spirulina production facility from the ground up.

Dale has experience managing teams, implementing automated systems, overseeing production processes, designing and constructing facilities, ensuring quality control, optimizing yields, bringing products to market, and building strong customer relationships. His proven track record and passion for sustainable agriculture make him a valuable asset to our team.



**Jon Flatt** *Advisor/Funding Aquisitions*

Jon Flatt brings immense value to A2A with his leadership in building two \$100 million companies and earning multiple INC 500 awards. Currently leading the Magic Bullet Sales and Fundraising Accelerator, Jon has guided over 100 companies to 10x growth. His expertise spans training, coaching, media strategies and business expansion.

As the founder of RED McCombs Media, Jon generated over \$400 million in digital revenue. His latest venture, KERV Interactive, has won multiple Lumiere Awards and is recognized as a top innovative brand. Jon's contribution is pivotal to Algae 2 Automation's growth, ensuring robust business development and expansion plans.