



SH Bio

CLEANER AIR. STRONGER SOIL. SMARTER GROWTH.

Clean Air and Biostimulant Technologies for Controlled Precision Environmental Agriculture & Cannabis



A HEALTHIER, SUSTAINABLE FUTURE FOR AGRICULTURE

SH Bio is advancing agriculture through biological systems that restore balance to cultivation environments. By purifying air and regenerating soil, we reduce chemical dependence, protect ecosystems, and increase yields.

PROBLEM & MARKET OPPORTUNITY

ABOVE AND BELOW THE SURFACE, GROWERS FACE RISING THREATS.

Controlled cultivation faces rising costs, regulatory pressures, and sustainability demands. SH Bio addresses these challenges across three large and expanding markets.



CONTROLLED ENVIRONMENT AGRICULTURE (CEA):

A global market is projected to exceed \$100 billion by 2030.



CANNABIS CULTIVATION:

The North American market expected to surpass \$40 billion by 2027.



BIOSTIMULANTS AND SUSTAINABLE INPUTS:

A global biostimulants market forecast to reach \$7.6 billion by 2027 (12 percent CAGR).

Air pollution from pesticide aerosols & VOCs risks worker safety and crop integrity.

Synthetic overload depletes soil microbiomes and drives nutrient loss.

Costs, regulations, and ESG pressures make traditional practices unsustainable.

OUR BioCAZ SOLUTION

A Dual Platform for Regenerative Growth

BioCAZ SOIL PLATFORM



Restores soil health with probiotics



Boosts nutrient uptake & root resilience



Reduces chemicals & runoff

CAZAG AIR SYSTEMS



Eliminates spores, VOCs, aerosols



Protects workers & plants without filters or ozone



Scalable for cannabis, greenhouses, vertical farms

PROVEN RESULTS

Soil potassium boosted up to 698%

Yield & nutrient density matched premium fertilizers

Outperformed HEPA & UV-C in pathogen control



SH Bio Introduction

SCIENTIFIC VALIDATION

Proven by Science, Validated in the Field



Rutgers University: BioCAZ increased ammonium by 1200%, phosphorus by 288%, and microbial respiration by 143%.



BioCAZ restored depleted soils, raising potassium by up to 698%.



BioCAZ equaled premium fertilizer performance in lettuce yield while boosting nutritional content and root density.



Outperformed carbon and HEPA filters, and UV- C lights in commercial trials, demonstrating superior pathogen and VOC reduction.



Adopted by Harmony Dispensary and validated by Rutgers, University of Florida, and Vineland Research.

BioCAZ increased soil potassium by 698% and ammonium by 1200% in trials.

Equaled premium fertilizers in lettuce yield while boosting nutrition.

Outperformed HEPA filters and UV-C in pathogen and VOC control.

BUSINESS MODEL

Proven. Scalable. Ready for Growth.

Clean Air Zone Ag's commercial strategy is built to generate recurring revenue while scaling rapidly through targeted partnerships.



Direct sales of CAZAG air units to growers, distributors, and system integrators.



Recurring revenue from BioCAZ product orders aligned with crop and irrigation cycles.



Value-added services including system design, installation, maintenance, and regulatory compliance support.

GO-TO-MARKET STRATEGY



Direct sales to cannabis and greenhouse operators to establish beachhead customers.



Focused pilot programs to secure flagship accounts and drive market credibility.



Strategic partnership with Advanced AgTech companies Smarter AgTech for facility integration and solution bundling.



Expansion through a network of regional distributors and certified installers to amplify reach and service.

SUSTAINABILITY AND COMPLIANCE LEADERSHIP



BioCAZ is USDA Biobased Certified and OMRI-listed, qualifying as a fully organic, low-impact microbial amendment



CAZAG eliminates airborne contaminants without filters, chemical sprays, lights, or ozone- based purifiers



Reduces pesticide and fertilizer runoff by promoting soil regeneration and nutrient cycling



Protects biodiversity by rebuilding microbial ecosystems critical for long-term soil fertility and carbon retention



Helps growers meet strict VOC and microbial load thresholds across regulated cannabis and CEA sectors

OUR TEAM

Led by experienced executives and advisors with deep expertise in agricultural science, innovation, and commercialization.



STEPHANE IFRAH
CHIEF OPERATING OFFICER



DWAYNE ELIAS
CHIEF SCIENTIFIC OFFICER



THOMAS W. JANES
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CHIEF INNOVATION OFFICER

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