



 **cubicfarm**  
SYSTEMS CORP.

LOCAL  
CHAIN  
AG-TECH

TECHNOLOGY TO FEED A CHANGING WORLD

TSX:CUB

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**FOOD SECURITY IS A GLOBAL CRISIS  
WHICH COVID ACCELERATED...**

**OUR WORLD'S POPULATION IS  
EXPECTED TO NEARLY **DOUBLE** WITHIN 40 YEARS**



**WE ARE ALREADY USING **100%** OF THE WORLD'S  
AVAILABLE AGRICULTURAL LAND AND WATER**



**BY 2050, MORE THAN HALF THE WORLD'S  
POPULATION WILL RELY ON FOOD SOURCED  
OUTSIDE THEIR COUNTRY.**



**A SUPPLY CHAIN DESIGNED FOR EFFICIENCY  
LED TO FRAGILITY. PUTTING PEOPLE, FARMERS,  
ENVIRONMENT, AND ECONOMIES AT HUGE RISK.**



**TECHNOLOGY TO GROW MORE FRESH  
LIVESTOCK FEED & FOOD WITH LESS (LAND,  
ENERGY, WATER, LABOUR)**



# AWARD-WINNING TECHNOLOGIES FOUNDED BY FARMERS

CubicFarms™ is a leading local chain ag-tech company.

We developed and deliver automated indoor growing technologies to help local farmers grow profitably and sustainably 365 days a year, anywhere on earth.



GROWING COMMERCIAL SCALE  
FRESH PRODUCE INDOORS



GROWING COMMERCIAL SCALE  
FRESH LIVESTOCK FEED INDOORS





# LOCAL CHAIN AG-TECH

Local chain technologies shorten the supply chain, minimize the use of natural resources, and maximize cubic space.

Local chain ag-tech grows more with less — less land, water, energy and labour, 365 days a year.



**CUBIC FARMS**  
**HOW DO WE LOCALIZE COMMERCIAL**  
**SCALE PRODUCE INDOORS?**



# FLEXIBLE MODULAR CONFIGURATION SUPPORTS NUMEROUS CULTIVARS AND MARKETS



95% less fresh water



Automation to optimize  
space and minimize labour



Patented Crop Motion  
Technology™ uses a single layer  
of LED lights



Zero pesticides



Significantly less waste,  
shortened supply chain

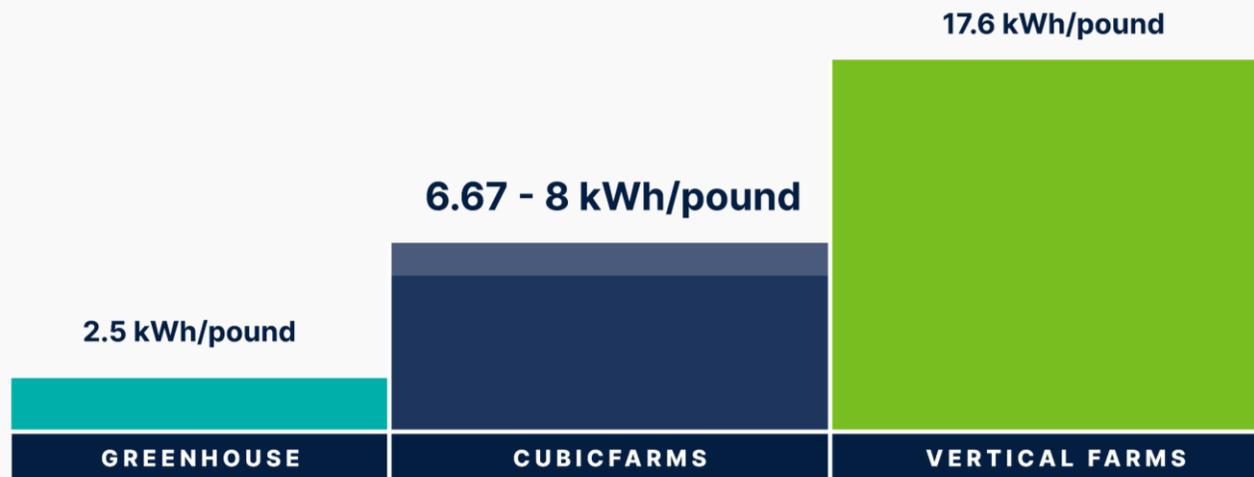


High quality produce,  
45% more nutrients

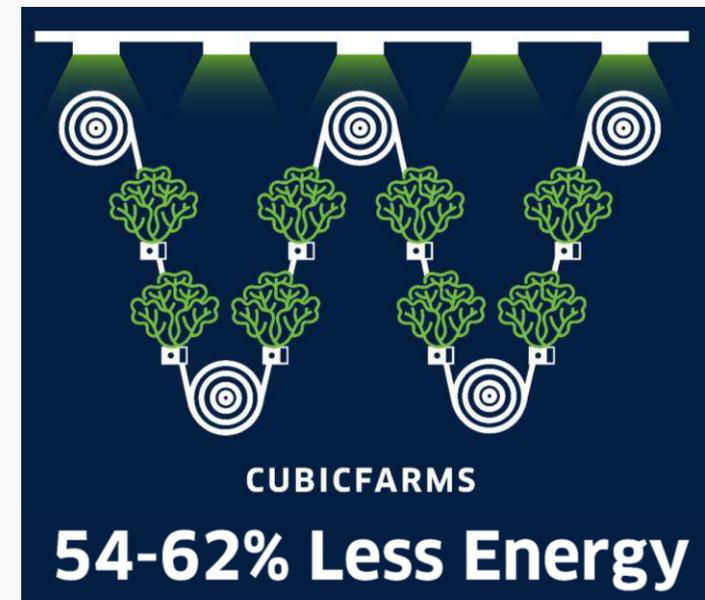


# GROWING PRODUCE WITH LESS ENERGY

- Electricity is the #1 cost in vertical farming (65% energy usage)
- CubicFarms uses **~2X less energy** than other vertical farms
- CubicFarms' patented Crop Motion Technology™ uses just **ONE layer of lights** instead of thousands of LEDs in rack and stack systems



– TYPE OF CONTROLLED ENVIRONMENT AGRICULTURE FACILITY –





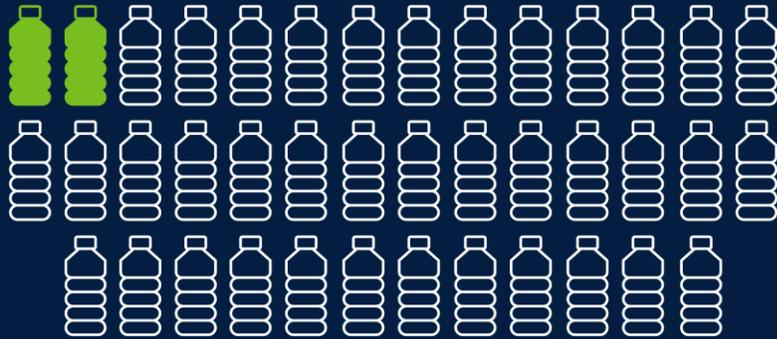
## CUBICFARM SYSTEM

Watch the video: [www.youtube.com/watch?v=bSImrq6YK7k](https://www.youtube.com/watch?v=bSImrq6YK7k)



# KEY NUMBERS

**95%**  
LESS WATER



To grow a head of lettuce in our **CubicFarm System** it only takes **two bottles of water** compared to **40 bottles of water** needed for field farming.

**+80%**  
LESS WASTE

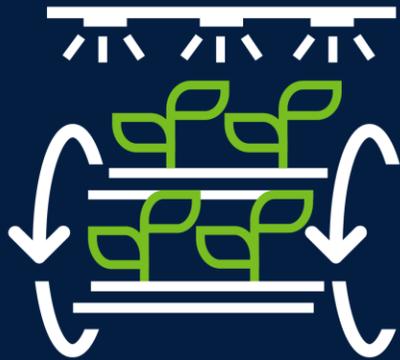


With long chain food supply, we're buying **two heads of lettuce** and throwing away **more than half of it** – this is not okay.



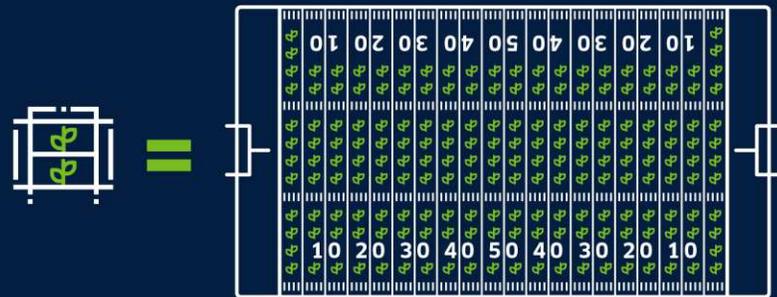
# KEY NUMBERS

**1**  
ROW OF LIGHT



Our unique patented **Crop Motion technology™** moves plants under just one set of growing lights simulating outdoor growing, instead of using lights on every growing level.

**52X**  
LAND EFFICIENT



The volume you grow in **one CubicFarms module** is the same amount you could grow in a football field.



# HIGH-DENSITY CUBIC FARMS FRESHHUB

- New 96-module configuration
- Next generation high-density system
- On 1 acre of land, FreshHub will grow the equivalent of 100 acres of field production





LABOUR COSTS UP  
**30%**

LAND COSTS ARE UP  
**18%**

PROLONGED  
**MEGA DROUGHTS**

GENERATIONAL FARMS  
**DECLINING**

FERTILIZER COSTS HAVE  
**DOUBLED**

FUEL COSTS HAVE  
**INCREASED**

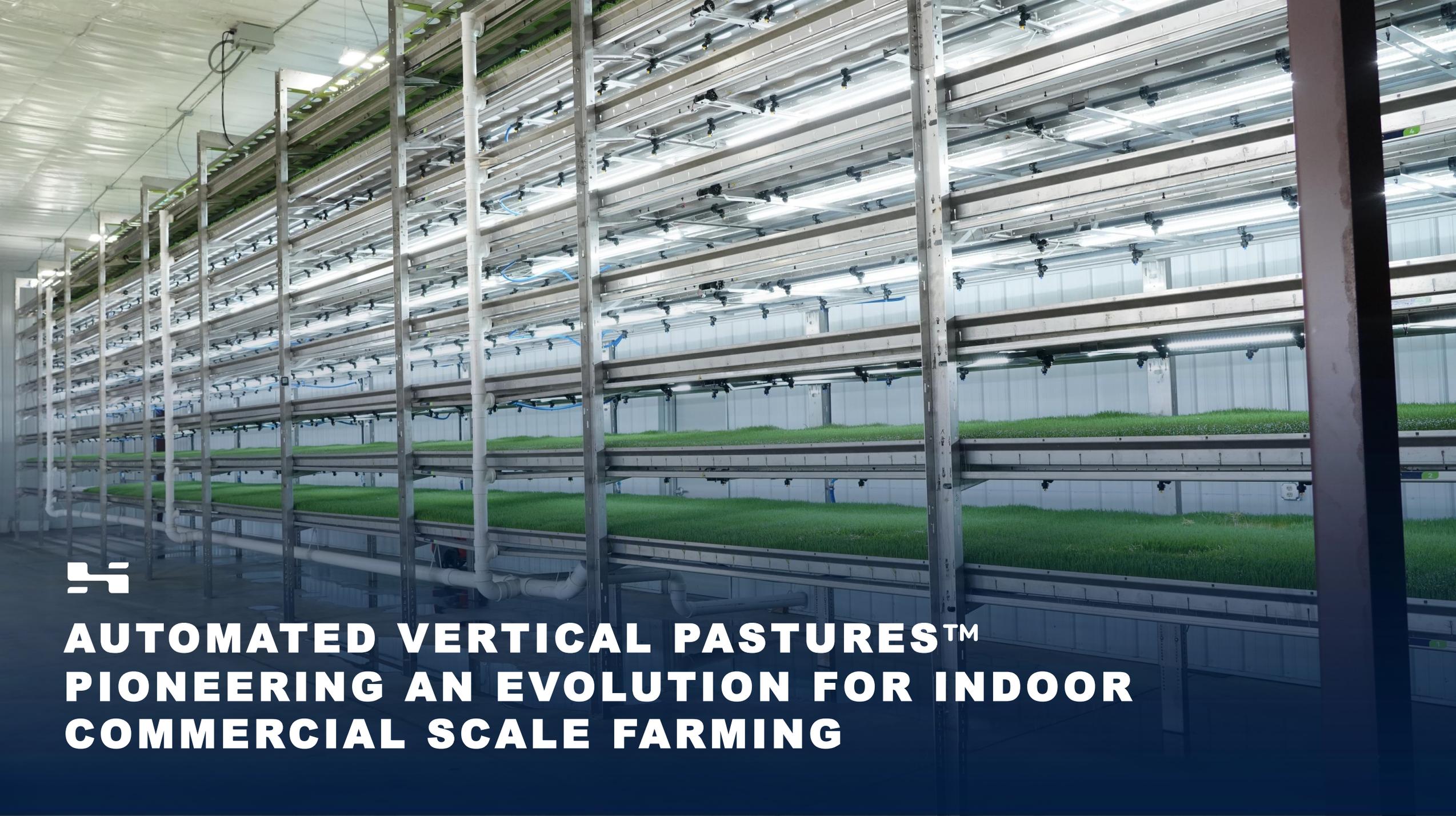
**REDUCED COW WEIGHTS**

CROP QUALITY  
**DIMINISHED**

INPUT COSTS UP  
**30%**



**THIS PASTURE ISN'T REALITY.**



**AUTOMATED VERTICAL PASTURES™**  
**PIONEERING AN EVOLUTION FOR INDOOR**  
**COMMERCIAL SCALE FARMING**



## HYDROGREEN AUTOMATED VERTICAL PASTURES™

Watch the video: [bit.ly/HydroGreenOverview](https://bit.ly/HydroGreenOverview)



# HYDROGREEN ENABLES PREDICTABLE, PROFITABLE AND SUSTAINABLE FARMING

## FARMERS ARE FACING



**SEVERE  
DROUGHT**



**SCARCITY OF  
AG LAND**



**INCREASING  
SEVERE WEATHER  
EVENTS**



**INCREASED INPUT  
COSTS**



**DAILY FRESH  
NUTRITIOUS  
LIVESTOCK FEED**

**FARMERS NEED: Increased yield with reduced footprint, reduced methane, net zero**



# PLANT SCIENCE AND ANIMAL PERFORMANCE DATA



## HydroGreen

- Quality
- Consistency
- Dependability



## Feed Intake

- Palatability
- Sugar levels
- Digestibility



## Efficiency

- Nutrient density
- Enzyme activity
- Propionate



## Performance

- Production
- Health
- Fertility



# CONSISTENT LIVESTOCK FRESH FORAGE

HydroGreen harvest provides fresh live green feed every day



# HYDROGREEN BENEFITS ANIMALS, THE FARM, THE FARMER, AND THE CONSUMER



Uses 95% LESS fresh water



Six AVPs support 1,000 cows at 15%  
ration inclusion



Seed to feed in 6 days yielding four  
tons DM / 32 tons as fed



ZERO pesticides or fertilizer



Highly nutritional, full of vitamins,  
antioxidants, and enzymes

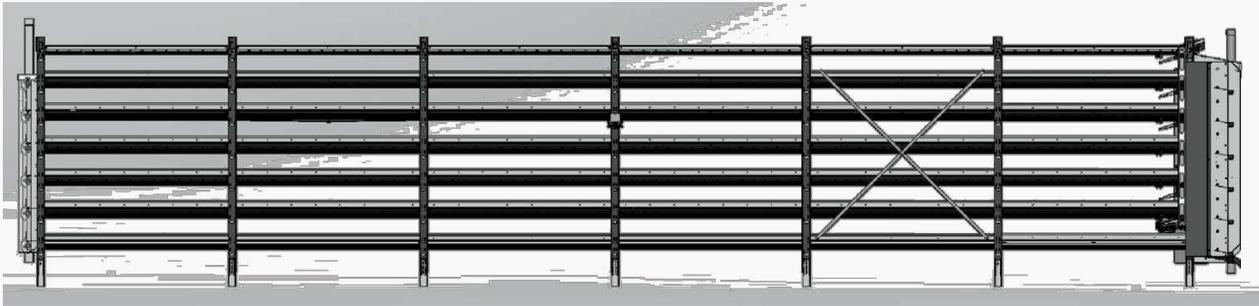


Significant reduction of greenhouse  
gas emissions

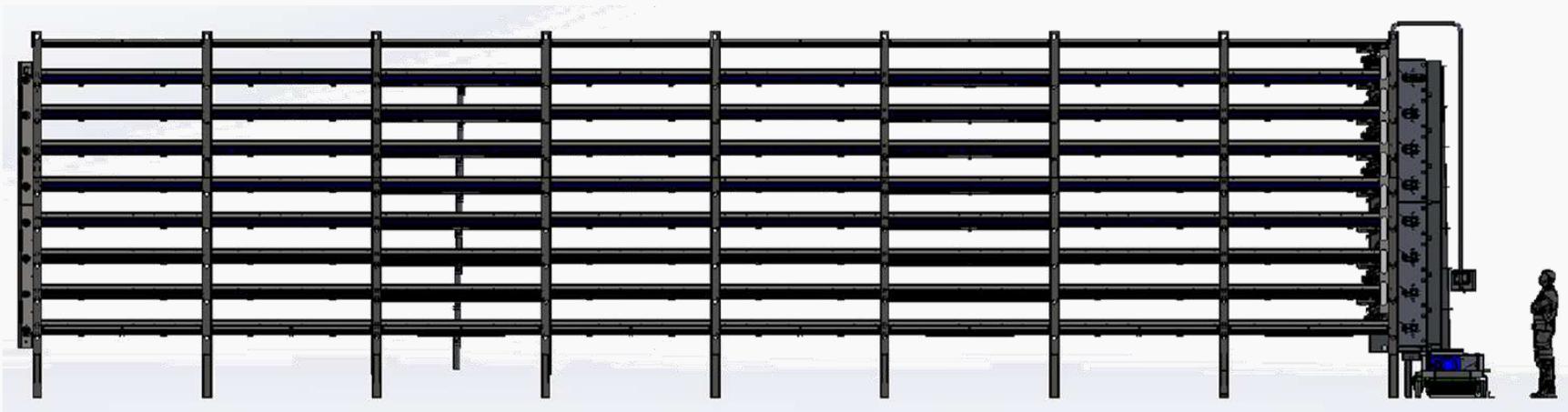


# AUTOMATED VERTICAL PASTURES

Simple, Modular, and Scalable



DGS 66



GLS 808

- DGS 66 – 6 levels
- GLS 808 – 8 levels
- Singles or multiples
- Fully automated indoor growing ag-tech

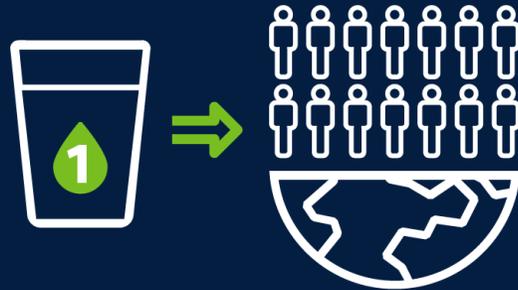




# MASSIVE SAVINGS OF LAND AND WATER

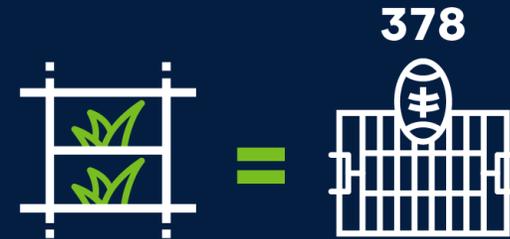
12 AUTOMATED VERTICAL PASTURES ON JUST 1 ACRE:

**500M**  
gallons of  
water saved



A dozen **Automated Vertical Pastures™** save 500 million gallons of water every year compared to irrigated crops. That's enough to give a glass of water to everyone on the planet.

**500**  
acres  
repurposed



**Automated Vertical Pastures™** give producers the option to repurpose land (up to 500 acres). That's equivalent to 378 football fields.



## RESEARCH CONFIRMS GHG REDUCTIONS

Published university research **confirms 7.4% fewer greenhouse gas emissions using HydroGreen's hydroponic fodder system.**



*“With approximately 70% of all agricultural land being used for some aspect of livestock production, beef and dairy farming currently represents approximately 14.5% of all human-induced GHG emissions.”*

**DR. LENORE NEWMAN, CUBICFARMS SCIENTIFIC ADVISORY BOARD**

<https://www.facetsjournal.com/doi/full/10.1139/facets-2020-0066>





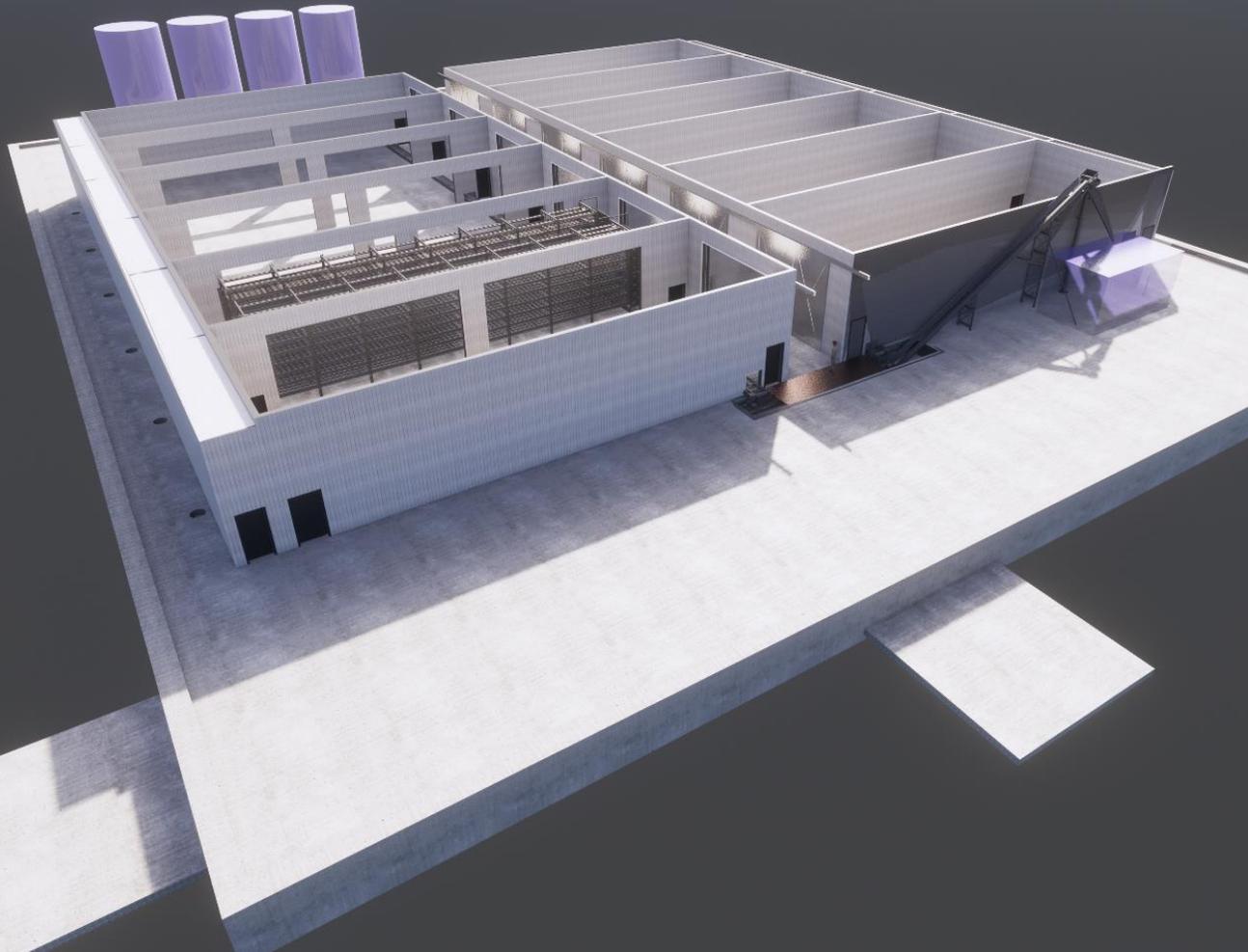
# AUTOMATED VERTICAL PASTURES™ AT BURNETT'S

- 12 commercial scale machines are being installed on Burnett's dairy and beef cattle farm in Wyoming
- Occupying just one acre, it replaces 500 acres of farmland
- **Once installed, this will be the largest automated indoor fresh livestock feed system in the world**
- Agreement includes collaboration on research and nutrition data collection





# AUTOMATED COMMERCIAL SCALE FEED



  
2,000+

  
95%  
less irrigation  
water used

  
500+  
land acres  
repurposed

  
Zero  
pesticides  
or fertilizer

## HydroGreen 12-Machine System

- Harvesting 68,000 pounds per day equates to 25m lbs. per year!
- Occupying just an acre, allows for repurposing of 500 acres of farmland
- Increased animal performance benefits and methane reduction
- Puts farmer on the path to net zero



## BEEF CATTLE MARKET

- 12 HydroGreen Automated Vertical Pastures recently purchased by wholesale distributor DGI for beef cattle customers.

*“This just saved our farm. The severe drought had us worried we wouldn’t be able to feed our herd. The HydroGreen technology allows us to grow our own on farm fresh livestock feed.”*

- Michael Rigby, Rigby Cattle Co., Utah

*“These steers are finishing grading AAA, which is really impressive, and we can do this year-round because we’re using HydroGreen.”*

- Bill Vanderkooi, Baker View Eco Dairy, BC





# CHANNEL COVERAGE

## CERTIFIED DEALER NETWORK

### CANADA

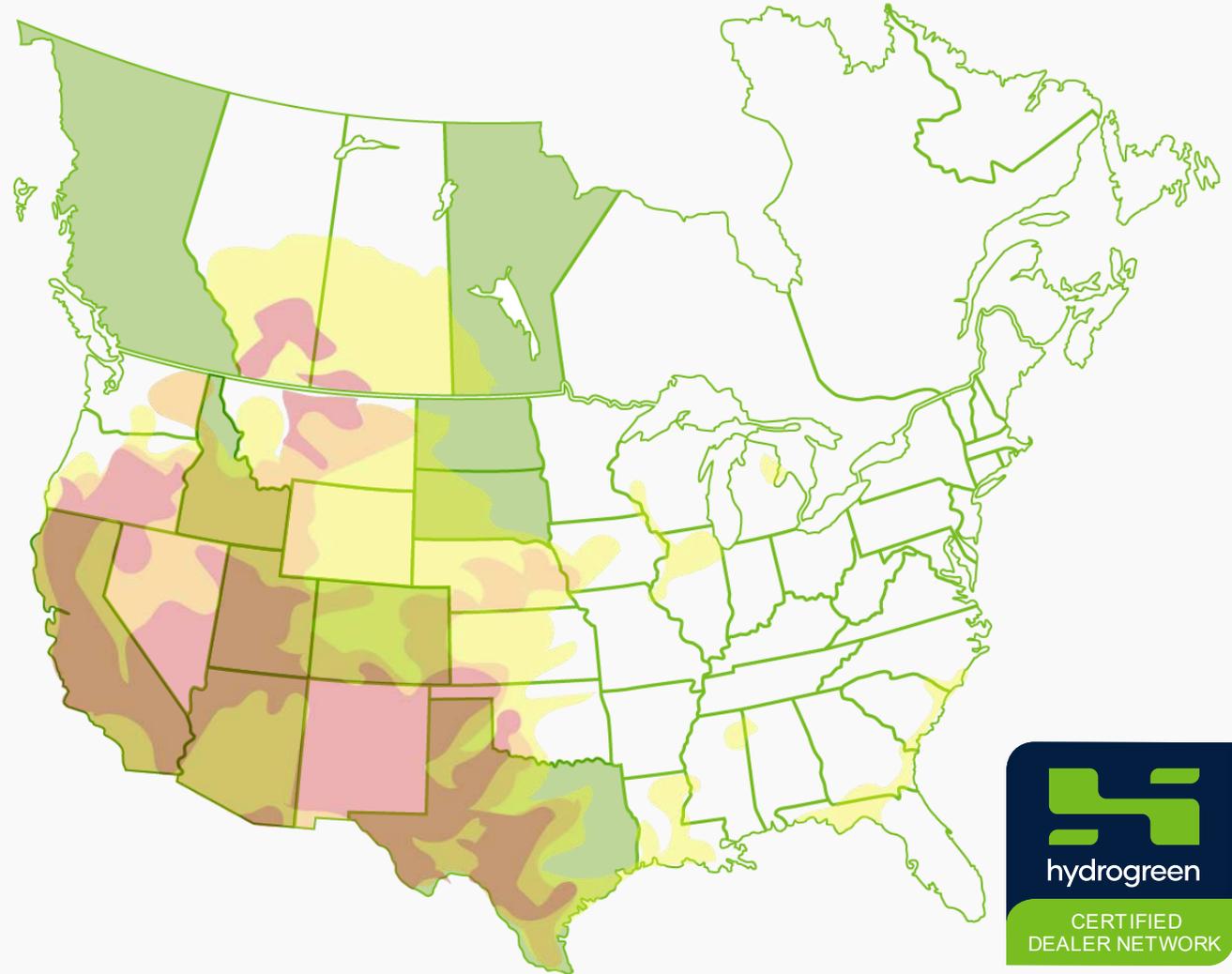


hydrogreen<sup>canwest</sup>

### UNITED STATES



Kirk Hansen





# PURPOSE-BUILT FOR CEA

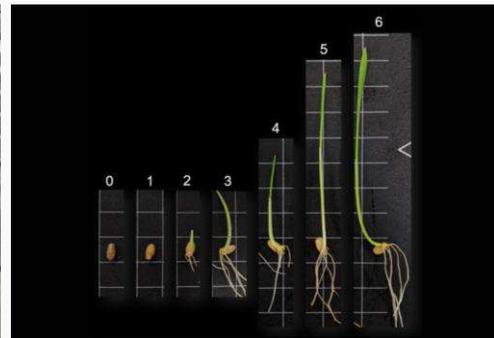
CubicFarms is the Platform leader for full stack CEA technology.



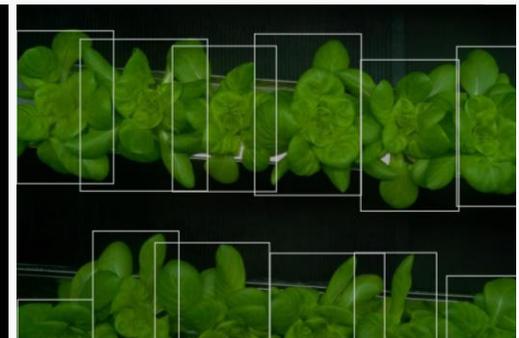
 **cubicfarms**  
INDOOR AG-TECH



 **hydrogreen**  
NUTRITION TECHNOLOGY



DATA



AI & ML

**ENTERPRISE-LEVEL PLATFORM**



# PLATFORM AND TECHNOLOGY

## DATA DRIVEN EXCELLENCE

- Our team of Data Scientists and Machine Learning Engineers is world-class
- Data being held securely and safely is a non-negotiable requirement
- Data insights allow for ongoing improvements to both our systems and customer experience

### OUR SOFTWARE DEVELOPMENT TEAM

**SAMSUNG**

 Microsoft

 Electronic Arts

Mercedes-Benz 

**amazon**



 **KABAM**

 **xmatters**

 Automotive  
Fuel Cell  
Cooperation

 **UJO**  
mobile entertainment

 **unity**

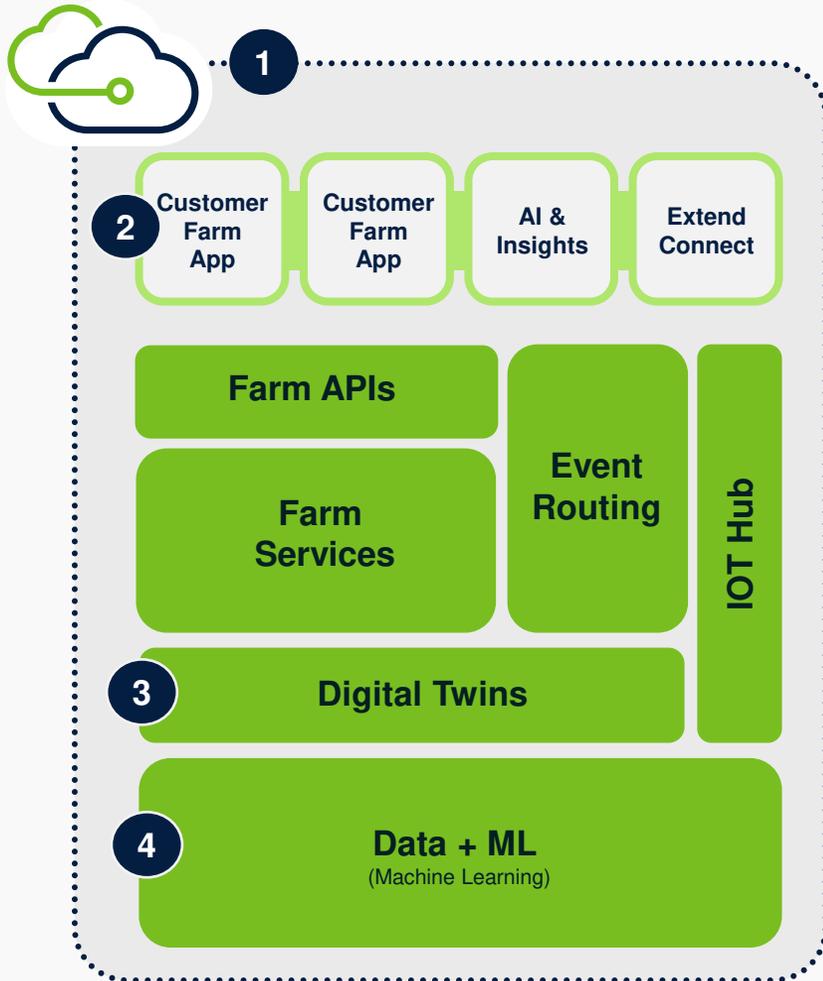
 *Providence*  
HEALTH CARE

 **NEXT LEVEL**  
G A M E S™

**Honeywell**



# DRIVING DEEPER VALUE INTO OUR PLATFORM



- 1 Enterprise Cloud Architecture**  
Protection and security, partnered with Microsoft
- 2 Integration & Extensibility**  
Integration with customers custom apps and extensible into business systems such as ERP (Enterprise Resource Planning) / CRM (Customer Relationship Management)
- 3 Digital Twin & IOT Architecture**  
Allows for 1:1 representation of physical machines to enable simulations, which reduces testing times and enables complex scenario planning
- 4 Artificial Intelligence**  
Full data warehouse ensuring data integrity by collecting and processing data, enabling robust ML (Machine Learning) and AI models for production



# WORLD-CLASS GROWING EXPERIENCE

CubicFarms' technology was developed by Jack Benne, founder of Bevo Farms, one of North America's largest plant propagation businesses, and his son Leo Benne, Head of Invention. Bevo's decades of growing experience have culminated in the next generation of ag-tech.

This includes HydroGreen, a technology for growing nutritious livestock feed, that was developed by Dohl Grohs for his ranches in South Dakota, Utah, and Missouri. Dohl developed the concept of low-maintenance feed growing for his cattle in areas with limited precipitation.





# EXPERIENCED LEADERSHIP TEAM

At the intersection of experience in engineering, cultivation, manufacturing, sales and global entrepreneurship, the CubicFarms team has been assembled to drive growth at an international level.

## OUR LEADERSHIP EXPERIENCE



			
<b>DAVE DINESEN</b> Chief Executive Office, Board Member	<b>LEO BENNE</b> Founder, Head of Invention, Board Member	<b>EDOARDO DE MARTIN</b> President, Chief Technology Officer	<b>JO-ANN OSTERMANN</b> Chief Customer Officer
			
<b>CARLOS YAM</b> Chief Financial Officer	<b>DAN SCHMIDT</b> President of HydroGreen	<b>TOM LISTON</b> Vice President, Corporate Development	<b>JEFF BOOTH</b> Board Chairman
			
<b>MICHAEL MCCARTHY</b> Board Member	<b>DANIEL BURNS</b> Board Member	<b>JANET WOOD</b> Board Member	<b>DAVID COLE</b> Board Member



# ADVANCING FOOD PRODUCTION TECHNOLOGY

Our CubicFarms **Scientific Advisory Board** brings significant knowledge and expertise in:

- Land use
- Controlled-environment agriculture
- Artificial intelligence
- Machine learning
- Automation
- Data analysis



**DR. LENORE NEWMAN**  
SAB Chair



**DR. TAMMARA SOMA**  
SAB Member



**DR. LAILA BENKRIMA**  
SAB Member



**DR. EVAN FRASER**  
SAB Member



EMPLOYEE SHARE PURCHASE & MATCHING PROGRAM

# WE'RE ON A MISSION TO TRANSFORM AGRICULTURE

We're leading an unstoppable movement to save the planet and ourselves.

**Our employees strongly believe in our mission.**  
They're acting like owners of the company because they are.



**AUTOMATED INDOOR GROWING  
TECHNOLOGIES FOR FRESH  
PRODUCE & LIVESTOCK FEED  
ANYWHERE, 365 DAYS A YEAR.**

**THANK YOU FOR YOUR INTEREST!**

For further questions, contact:

✉ [investors@cubicfarms.com](mailto:investors@cubicfarms.com)



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