



 **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.



 **cubicfarms**
INDOOR AG-TECH

GROWING COMMERCIAL SCALE
FRESH PRODUCE INDOORS



 **hydrogreen**
NUTRITION TECHNOLOGY

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.



CUBICFARMS

**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

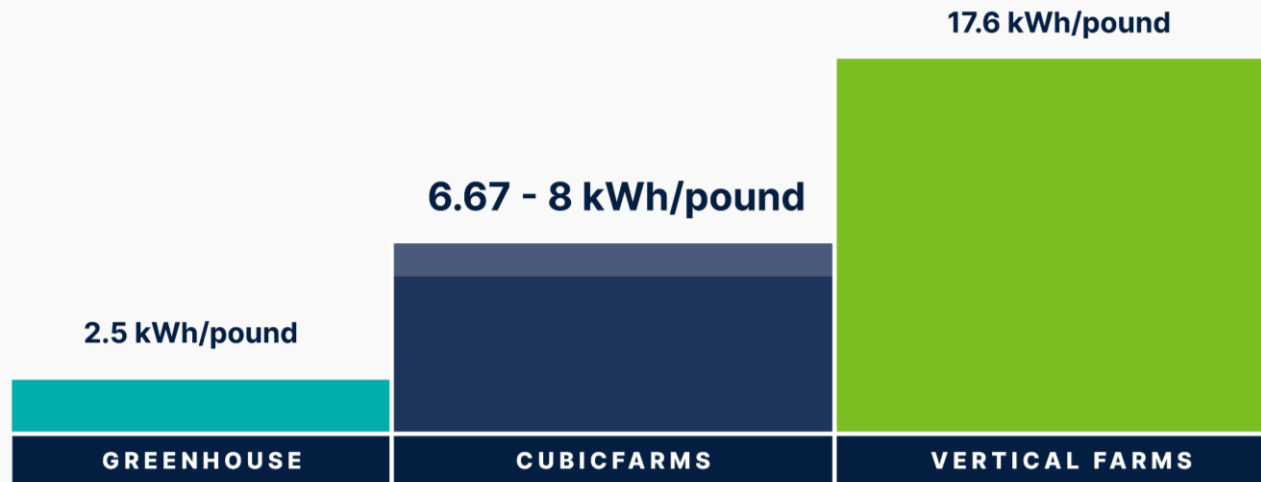


High quality produce,
45% more nutrients

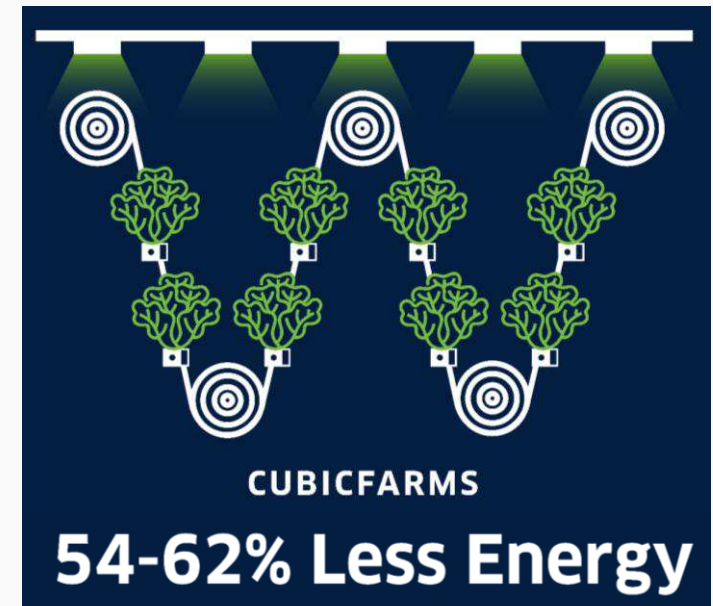


GROWING PRODUCE WITH LESS ENERGY

- 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



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

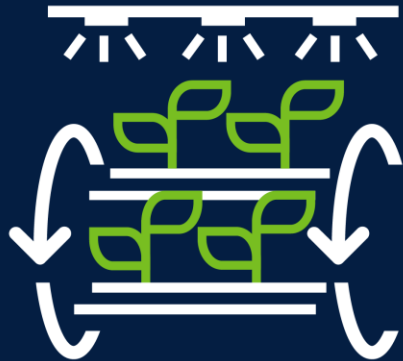


With long chain food supply, we're buying **two heads of lettuce** and throwing away **more than half of it** – this is not okay.



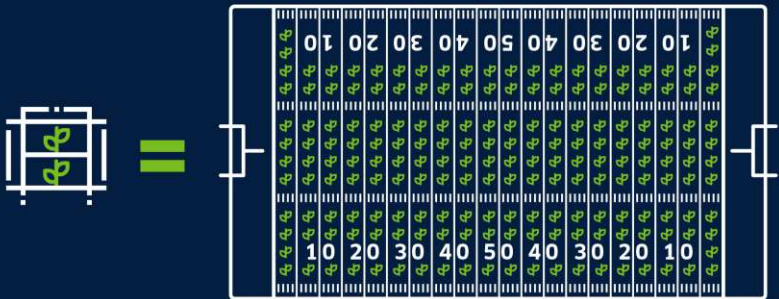
KEY NUMBERS

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 CUBICFARMS 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%

FERTILIZER
COSTS HAVE
DOUBLED

PROLONGED
**MEGA
DROUGHTS**

FUEL
COSTS HAVE
INCREASED

**REDUCED
COW
WEIGHTS**

GENERATIONAL
FARMS
DECLINING

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



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

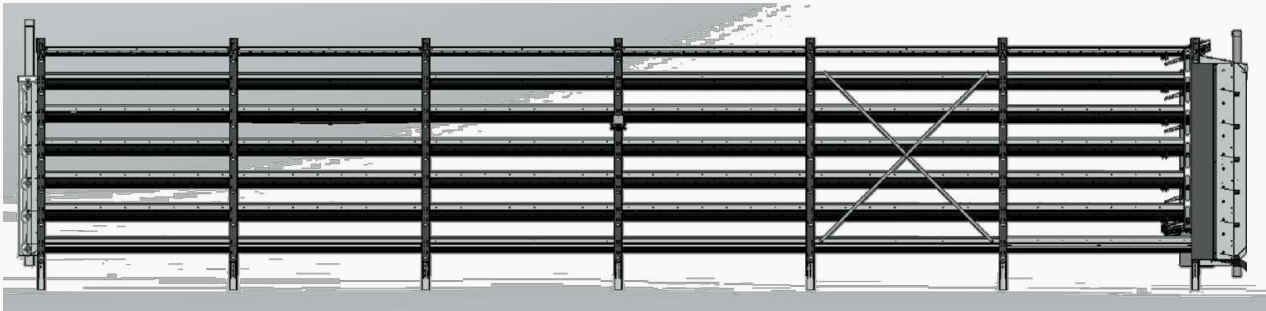


Significant reduction of greenhouse gas emissions

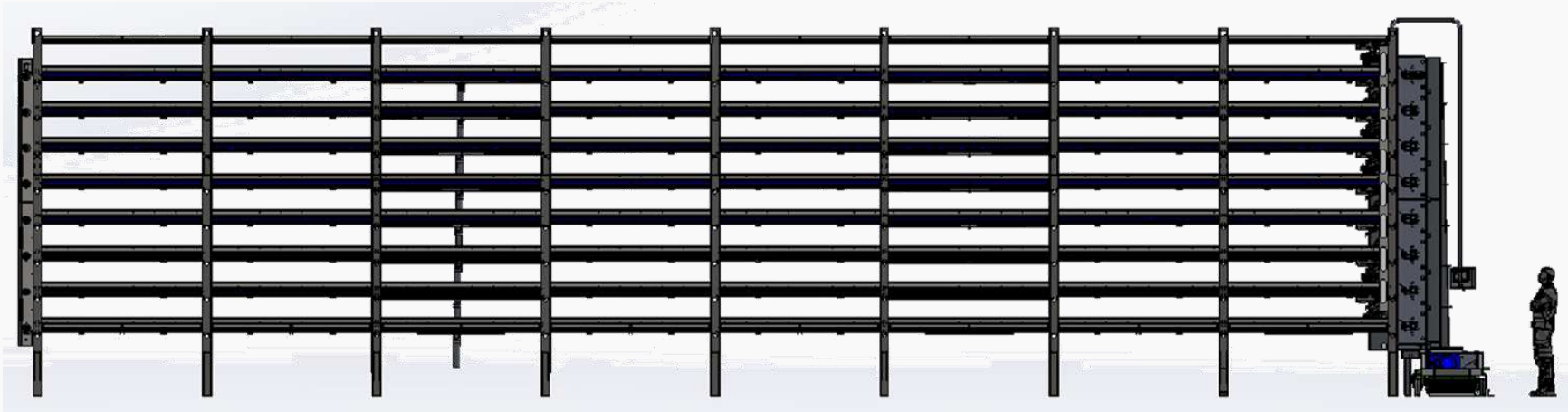


AUTOMATED VERTICAL PASTURES

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

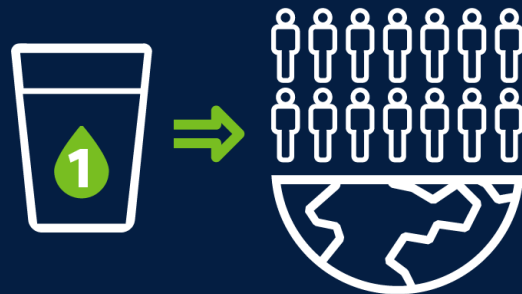




MASSIVE SAVINGS OF LAND AND WATER

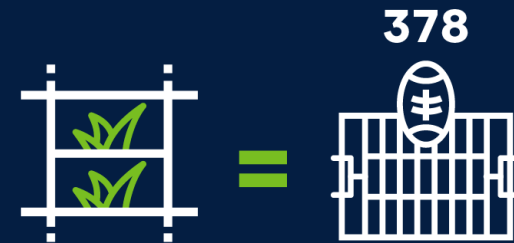
12 AUTOMATED VERTICAL PASTURES ON JUST 1 ACRE:

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>





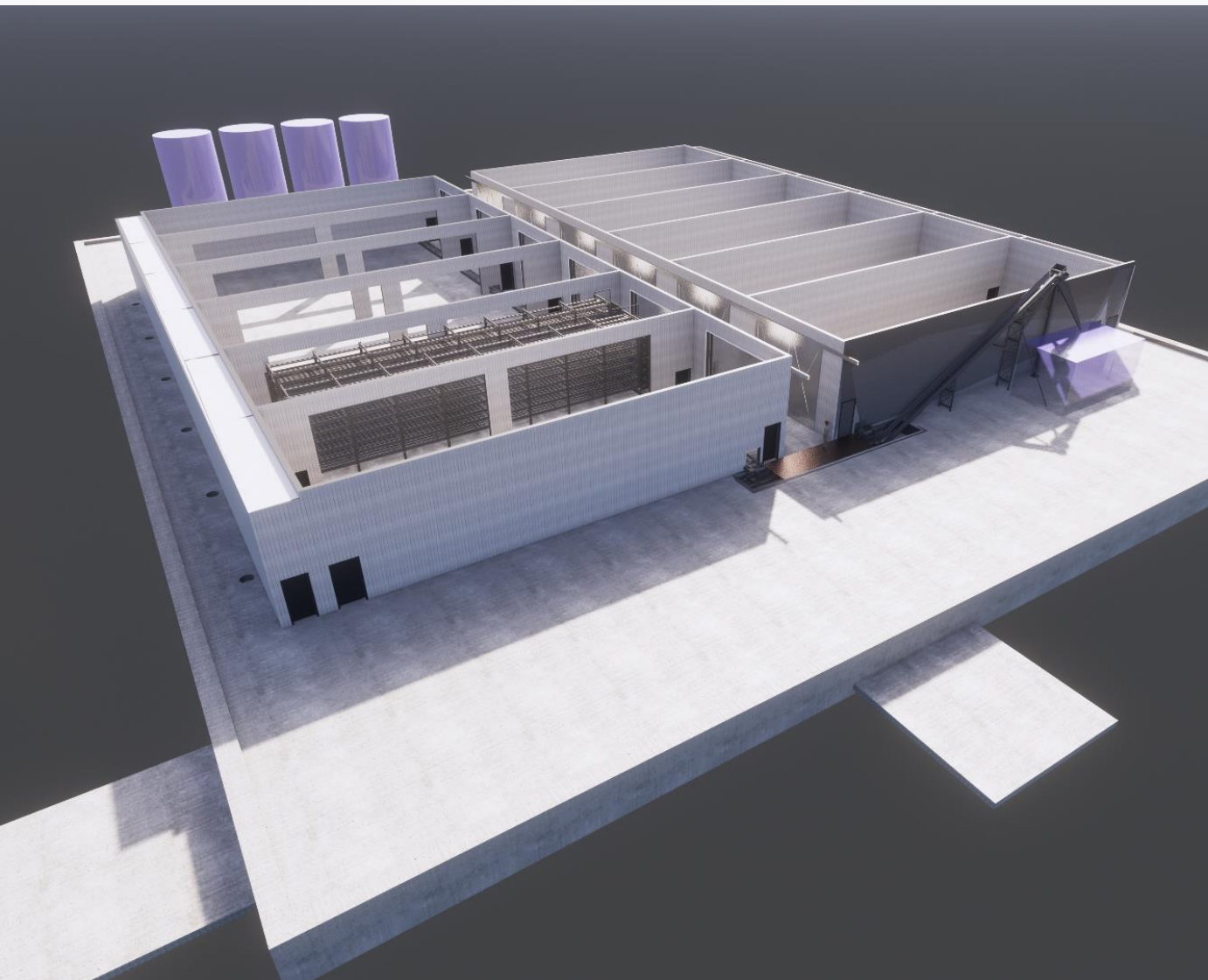
AUTOMATED VERTICAL PASTURES™ AT BURNETT'S

- 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

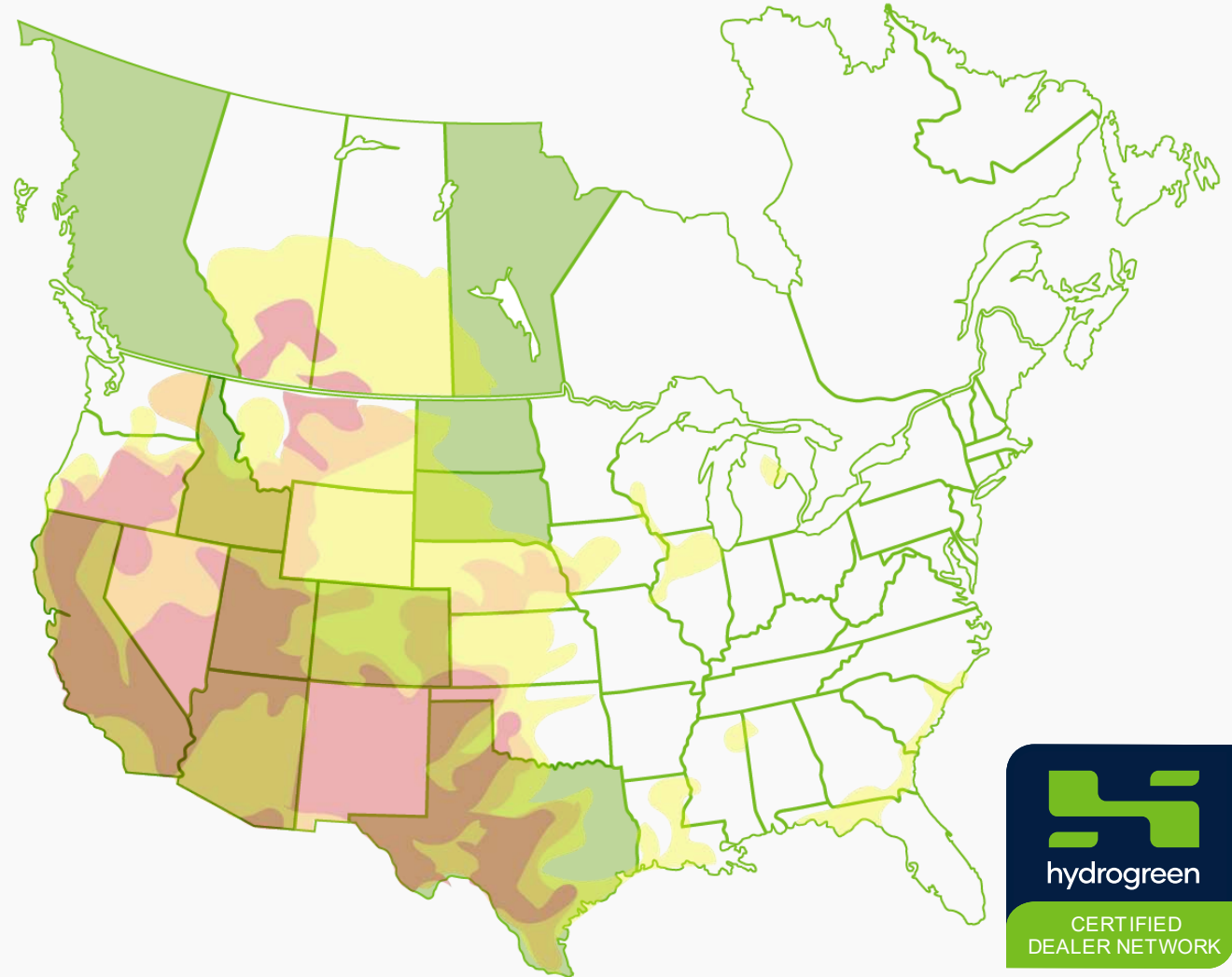


hydrogreen^{canwest}

UNITED STATES



Kirk Hansen





PURPOSE-BUILT FOR CEA

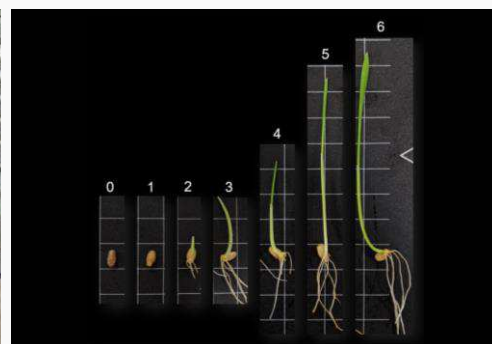
CubicFarms is the Platform leader for full stack CEA technology.



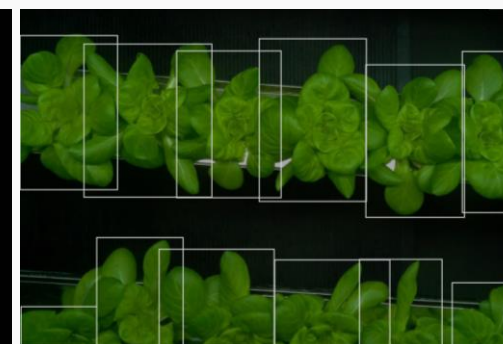
 **cubicfarms**
INDOOR AG-TECH



 **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

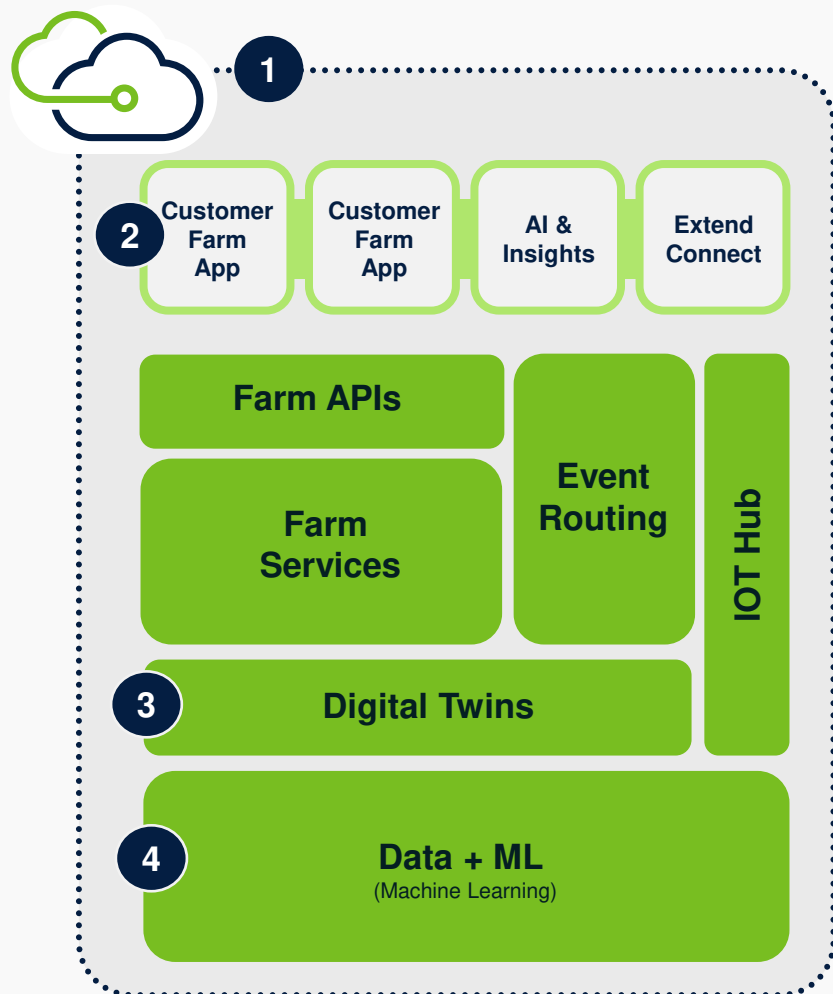
OUR SOFTWARE DEVELOPMENT TEAM

SAMSUNG





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 Dihl Grohs for his ranches in South Dakota, Utah, and Missouri. Dihl 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





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



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