

# Transforming our food system by recycling food wastes to grow vegetables, greens, herbs and berries



[heartfoods.co](http://heartfoods.co) Bellingham WA

Technology Food Infrastructure PBC and B Corps Clean Tech

## LEAD INVESTOR



### Tom CAMPBELL

Heartfoods combines three most important factors utilizing food waste, net zero energy, and producing organic foods in our neighborhoods. This company will make a huge difference for climate change and food security. The founders are experienced engineers and consultants that can readily replicate a viable food system in hundreds of locations. Our focus is to scale food production in our communities that can provide fresh food and local jobs.

Invested \$60,000 this round

## Highlights

- 1 Fresh organic foods are grown year-round using recycled nutrients, carbon, water and energy from local food wastes
- 2 The upcycled food waste industry is worth over \$50 billion (and climbing). \$1 trillion worth of food is wasted per year.
- 3 Replicable worldwide community locations help achieve the goal of 5X business expansion every year
- 4 An agritech & cleantech precedent entering the global food market that generated over \$8 trillion in revenue in 2020
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- 5 The Net Zero design goals include: net zero waste, net zero energy, net zero water and net zero carbon
- 6 Unique design of cleantech: anaerobic/fermentation digester, fuel cells, bioaugmentation, solar PV, and geothermal
- 7 Our innovative, proprietary processes capture the carbon in food wastes to increase crop growth.
- 8 Addresses social issues of food security, hunger, and jobs while providing fresh foods that are good for the heart

## Our Team



**Mark Buehrer** Founder and CEO

Professional civil engineer, author, inventor, and founder of 2020 ENGINEERING. Since 1995, he has been at the forefront of the research and development of sustainable methods, systems, and infrastructures.

Over 25 years ago, Mark Buehrer created 2020 ENGINEERING as visionary engineering consulting company, founded on a simple design approach to economically solve complex environmental problems. As time passed, he realized that the issues of food waste, food transportation, food security, food poverty, and urban food deserts could be better addressed. The year 2020 gave opportunity to bring the idea to fruition with the formation of HeartFoods Community Farms.



**Janet "Jessie" Buehrer** Founder and CFO

Business, marketing, financial, facility and management professional. Managed large and small business development, systems planning, program deployment, HR, legal, IT, vendor relationships, contract development. Supported three business startups.

## Pitch



### Objective

#### HeartFoods Community Farms

Fresh organic foods grown year-round using recycled nutrients, carbon, water and energy from local food wastes.

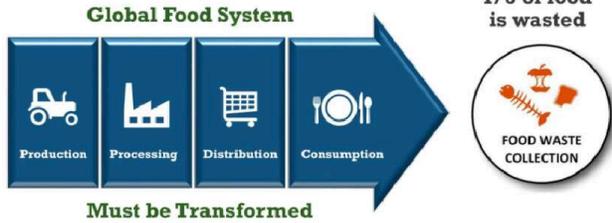
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## Problem



Current Global Food Supply Chain Creates Food Waste



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## Farm to Fork Economy

100% of HeartFoods products are sourced and sold within the HeartFoods community.

HEARTFOODS® Food System

Current Global Food System



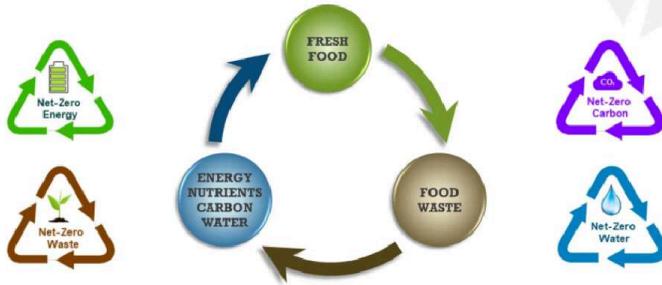
\$ Linear Money Flow \$



\$ Circular Economy \$

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## Net Zero Design

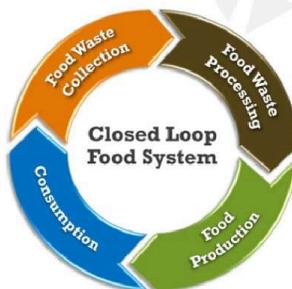


**Closed-Loop Design**  
Energy + Nutrients + CO<sub>2</sub> + Water

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## Unique Advantages

- ✓ Agritech & Cleantech Precedent
- ✓ Proven Sustainable Technologies
- ✓ Whole Systems / Integrated Design
- ✓ Provides Local Food Security and Jobs
- ✓ Food Transport Cost Avoidance
- ✓ Proprietary Organic Fertilizers
- ✓ Year-Round Food Freshness & Quality
- ✓ Carbon Capture & Sequestration
- ✓ Replicable Worldwide Locations
- ✓ Stimulate Local "Circular" Economies



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## Plant-Based Organic Foods



**Greenhouse & Vertical Food Production**  
Hydroponics & Aeroponics

\*\*\* Vegetables, Greens, Herbs, Spirulina and Berries \*\*\*



**Recirculating Aquaculture**  
Fresh Organic Fish & Shrimp

\*\*\* Fed with plant-based aquaculture feeds \*\*\*



## Food Distribution



Tomatoes  
Peppers  
Cucumbers  
Greens  
Herbs  
Spirulina  
Duckweed  
Berries  
Shrimp  
Barramundi

And more...



Grocery/  
Retail



Restaurants,  
Hospitals &  
Schools



Commercial  
Kitchen &  
Cafe



Food  
Trucks



Home  
Delivery  
Services



## Food Waste Collection



Grocery  
/Retail  
Restaurants,  
Hospitals &  
Schools  
Commercial  
Kitchen &  
Cafe  
Food  
Trucks  
Home  
Delivery  
Services



Tomatoes  
Peppers  
Cucumbers  
Greens  
Herbs  
Spirulina  
Duckweed  
Berries  
Shrimp  
Barramundi

And more...



## Community Farm "Plug & Play"





## Community Farm Example Campus



## HeartFoods Management Team



**Mark Buehrer**  
CEO  
Founder & Director



**Jessie Buehrer**  
CFO  
Founder & Guardian



**Karl Thomas**  
Business Development  
Facilities Operations



**Noramae Munster**  
Nourishment Champion  
Culinary Creator



## Downloads

- [1. Business model summary deck](#)
- [2. Timeline for future funding chart](#)
- [3. Team Bios](#)
- [4. Mark Buehrer 2020 ENGINEERING Resume](#)
- [5. Website Links to Newer Developments in the Worlds Food System](#)
- [6. Example Presentation Converting Urban Food Deserts to Food Oases.](#)
- [7. Example 2020 ENGINEERING Project William Penn School](#)
- [8. Example 2020 ENGINEERING Eco Lab Algae Poster](#)
- [9. Example Media 2020 ENGINEERING Business Pulse Fall 2017 Article](#)
- [10. Craft3 Financing LOI](#)
- [11. HeartFoods Pitch Deck](#)

[12. LINK to Video Recording of the Net zero 2021 Conference](#)