

# Feed An Island

A vibrant tropical beach scene. In the foreground, a white sandy beach curves along the bottom right. A large, lush green palm tree stands prominently on the right side, leaning slightly. The water is a clear, bright turquoise color, with gentle waves lapping at the shore. In the background, there are green, hilly islands under a bright blue sky filled with fluffy white clouds. A double rainbow is visible, arching across the sky from the left towards the right, with the second rainbow appearing slightly higher and further to the right. The overall atmosphere is peaceful and idyllic.

There are thousands of islands dotted around the world's oceans most of which are uninhabited. Those that are not struggle with food security.

# 95–97%

OF VEGETABLE PRODUCE

IN THE

# USVI

**IS IMPORTED**



## The Problem

Most produce consumed in the USVI is imported

- High food costs
- Supply chain vulnerability
- Limited local production capacity
- Food insecurity across communities

**“The USVI depends on imports for nearly all of its fresh produce”**



# The Solution

## A decentralized food production network

- 1,000 Root Tube systems across the territory
- Small-footprint, high-efficiency production
- Works in urban, coastal, and arid conditions

Not gardening but deployable food production infrastructure

## Why It Works



Limited land



Water constraints



High import costs

### Technology Advantage:



**2–3x yield**  
per footprint



**Year-round**  
production



**90%**  
less water



**80–90%**  
less fertilizer



**“Designed specifically  
the islands.”**

## Why This Model Wins

- Limited land
- Water constraints
- High import costs

### Technology Advantage:

- 2–5x yield per footprint
- Year-round production
- 90% less water
- 80–90% less fertilizer

**“Designed specifically for the islands.”**

# The Model

## Food Ambassadors



~1 system →



household



~1 system →



community

## “Get Two – Give Two” Structure



### ~Household production

Grow food for your family.



### ~Community food access

Share the extra, strengthen your community.



### ~Self-expanding network

Ambassadors inspire others. The network grows.



**YOU GET TWO**  
Grow for your family.



**YOU GIVE TWO**  
Share with your community.



### THE NETWORK GROWS

More systems. More food. More impact.

# The Island Model

## Food Ambassadors

~1 system → household

~1 system → community

## “Get Two – Give Two” Structure






~Household production

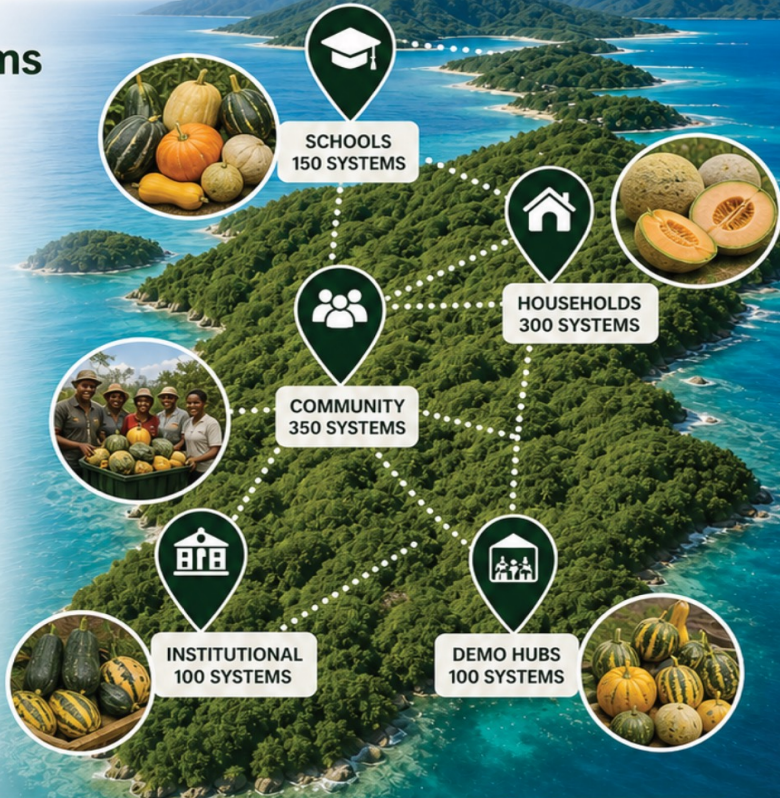
~Community food access

~Self-expanding network quickly creating food security grower-by-grower

# Deployment

## 1,000 Food Systems

-  Schools: 150
-  Community: 350
-  Households: 300
-  Demo hubs: 100
-  Institutional: 100



*“Territory-wide distributed production network”*

 <b>150</b> SCHOOLS	 <b>350</b> COMMUNITY	 <b>300</b> HOUSEHOLDS	 <b>100</b> DEMO HUBS	 <b>100</b> INSTITUTIONAL
				

# Island Deployment

## 1,000 Food Systems

- Schools: 150
- Community: 350
- Households: 300
- Demo hubs: 100
- Institutional: 100

*“Territory-wide distributed production network”*



**TERRITORY-WIDE DISTRIBUTED PRODUCTION NETWORK**

More sites. More food. Stronger communities.

# Production Output

## Premium Island Pricing



**20–200 lbs**  
per system/year



**Up to 200,000 lbs**  
/year total



**Continuous**  
production cycles

*“Up to 200,000 lbs/year  
of local food production”*



Per System  
**20–200 lbs**  
per year



Island Wide  
**Up to 200,000 lbs**  
per year total



Year-Round  
**Continuous**  
production cycles




**Up to 200,000 lbs/year of local food production**  
Fresher food. Stronger communities. A more food secure future.

# Production Output

- 20–200 lbs per system/year
  - 3x yield bush beans
  - 4x yield tomatoes
  - 5x yield peppers
- Up to 200,000 lbs/year total
- Continuous production cycles

*“Up to 200,000 lbs/year of local  
food production”*

# Resource Efficiency

 ~52 gallons/year per system


 ~90% less water


 ~80–90% less fertilizer

**“Grow more food with dramatically less input”**

 ~52 gallons/year per system

 ~90% less water

 ~80–90% less fertilizer

 **Grow more food with dramatically less input.**  
Smarter use of resources. Stronger communities. A more food secure future.

# Resource Efficiency

~Only 52 gallons per system per year

~Radically water-efficient: up to 90% less water, with each plant using just 0.07–0.12 gallons per day

~Pre-charged with organically sourced, slow-release fertilizers, reducing fertilizer use by 80–90%

**“Grow more food with dramatically less input”**

# Economic Impact



~\$0.15–\$1.50  
per lb



~\$5–\$8/lb  
current market



~\$1M–\$1.6M  
import displacement



“Produce food  
at up to 90%  
below imported cost”



~\$0.15–\$1.50  
per lb



~\$5–\$8/lb  
current market



~\$1M–\$1.6M  
import displacement



Produce food at up to 90% below imported cost

# Financial Impact

~\$0.15–\$1.50 per lb production cost  
(up to 90%+ below market)

~Current market pricing: \$5–\$8 per lb,  
reflecting premium island import costs  
for fresh produce

~\$1.0M–\$1.6M annually shifted from  
imports to local food production

“Produce food at up to 90% below  
imported cost”

# Cost & Deployment

**\$** • \$40–\$60 per system

**Factory** • \$40K–\$60K production cost

**Calculator** • \$295K–\$335K total deployment

**\$300K → 200,000 lbs/year production capacity**



<b>\$</b> \$40–\$60 per system	<b>Factory</b> \$40K–\$60K production cost	<b>Calculator</b> \$295K–\$335K total deployment	<b>Upward Arrow</b> \$300K → 200,000 lbs/year production capacity
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# Cost & Deployment

- \$40–\$60 per system
- \$40K–\$60K production cost
- \$295K–\$335K first phase total deployment

**“\$300K → 200,000 lbs/year production capacity”**

# Why We Win

System	Cost per lb
Imports	\$5-\$8
Hydroponics	\$2-\$4
<b>This System</b>	<b>\$0.15-\$1.50</b>

*“The lowest known cost-per-pound food production model deployable at scale in island environments.”*



Imports  
\$5-\$8



Hydroponics  
\$2-\$4



**This System**  
**\$0.15-\$1.50**



The lowest known cost-per-pound food production model deployable at scale in island environments.

# Island Economics

## Lowering The Cost Of Food

System	Cost per lb
Imports	\$5-\$8
Hydroponics	\$2-\$4
<b>This System</b>	<b>\$0.15-\$1.50</b>

**“The lowest known cost-per-pound food production model deployable at scale in island environments.”**

# Scale Path



Phase 1 →  
1,000 systems



Phase 2 →  
5,000



Phase 3 →  
10,000+

*“Built to scale rapidly across the territory”*



Phase 1  
1,000 systems



Phase 2  
5,000



Phase 3  
10,000+



Built to scale rapidly across the territory

# Food Security Path

- Phase 1 → 1,000 systems year 1
- Phase 2 → 5,000 years 2 & 3
- Phase 3 → 10,000+ years 4 & 5

*“Built to scale rapidly across the territory”*



# Contact

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## Island Food Ambassador Network

This initiative establishes the first scalable, decentralized, community-based food production network in the U.S. Virgin Islands, designed to reduce food import dependence by up to 50% by 2031.