



Fresh and pure food from sustainable  
highly efficient aquaponics technologies

by

# aquaponics Iberia



Recognized as an **R&D** entity by **ANI**, in the technical-scientific domains:



AGÊNCIA NACIONAL  
DE INOVAÇÃO

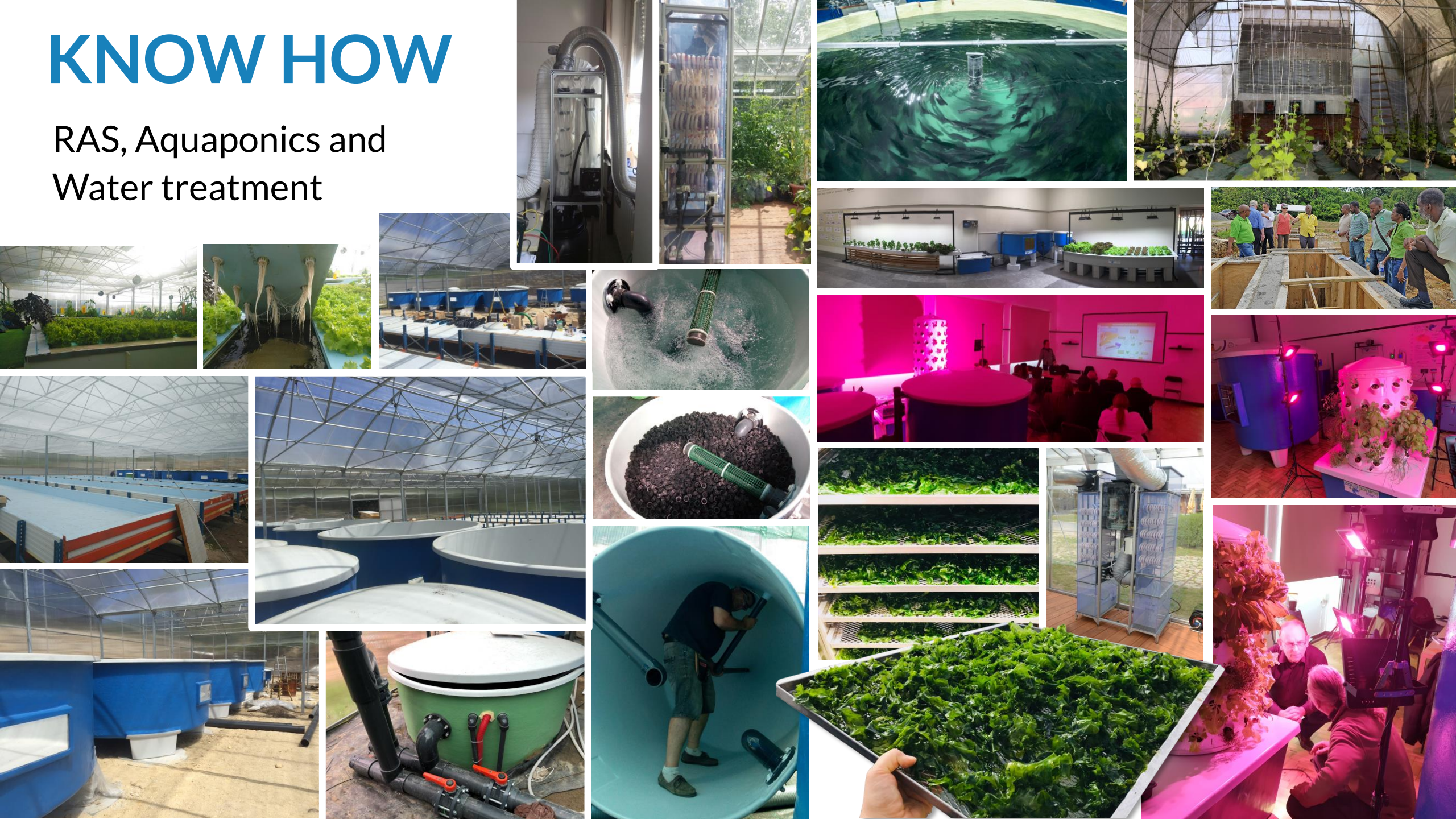
**Agri-food** – Healthy and sustainable food

**Water and Environment** – Waste reduction, management, treatment and recovery

**Agri-food** – Waste treatment and reuse

# KNOW HOW

## RAS, Aquaponics and Water treatment



# OUR CORE TEAM



Funded by the European Union



Participants in Climate-KIC 2017,  
EIT Food FAN Bilbao 2019,  
BlueInvest Readiness Assistance 2020,  
EIT Innwise Scale Water Scarcity 2022,  
Blue Bio Value Edition 2022

JOÃO COTTER



CEO

+20 years of experience in aquaculture & aquaponics



ORLANDO RODRIGUEZ



COO

+40 years of experience in aquaculture & aquaponics



PATRÍCIA COTTER



CCO

+10 years of experience in sales, food safety & processing



PAULO TORRES



CSO

+17 years of experience in marine biology & aquatic R&D



TECHNOLOGY IN



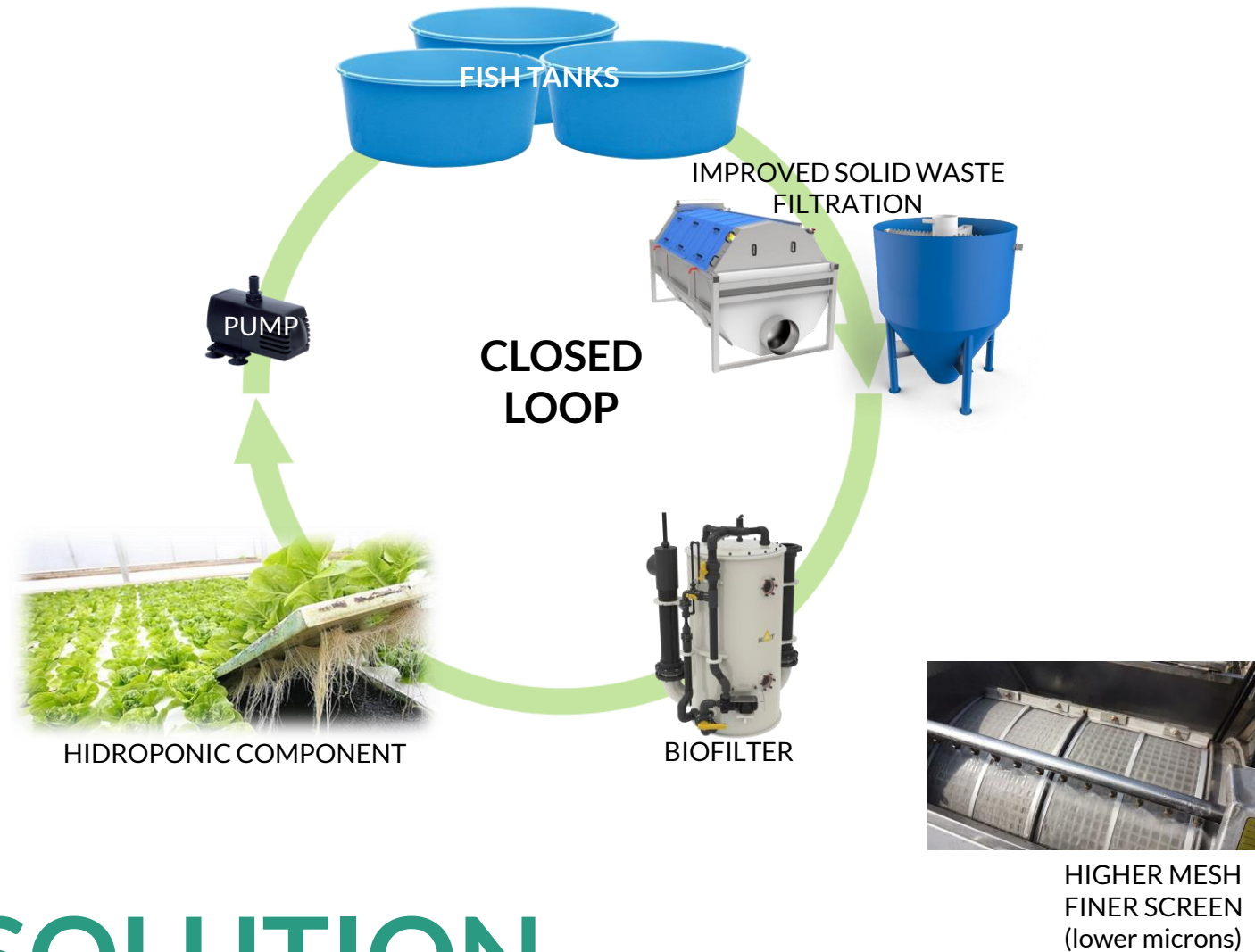
by  aquaponics  
iberia

The 'by' text is in a small blue font. The 'aquaponics iberia' logo features the word 'aquaponics' in green and 'iberia' in blue, with a small blue fish icon and green leaves to the left.

**SOLID WASTE INTEGRATED MANAGEMENT SYSTEM**

# BALANCED CLOSED-LOOP AQUAPONICS

1. Improved retention of fine sediments.
2. **However**, removing all solid waste leads to less nutrient availability for plants.



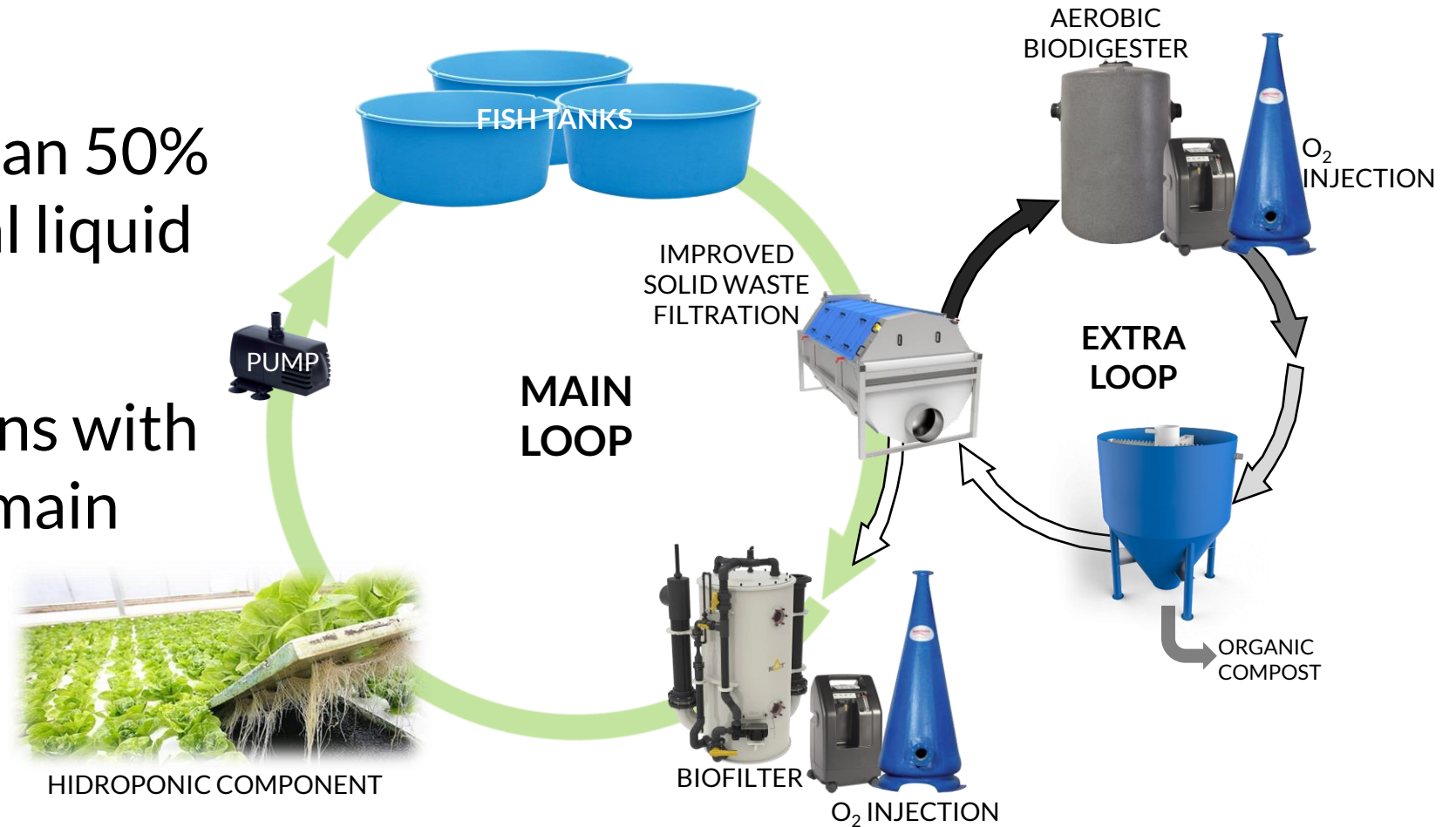
WHAT NOW?

OUR SOLUTION



# BALANCED CLOSED-LOOP AQUAPONICS

- 3. Converting more than 50% of solids into natural liquid fertilizer.
- 4. This fertilizer returns with automation to the main loop according to plants' needs.



## OUR SOLUTION



# BALANCED CLOSED-LOOP AQUAPONICS

- 5. Digital monitoring and controlling of parameters of the main loop and extra loop making nutrient delivery an automated process.



## OUR SOLUTION





# QUALITATIVE COMPARISON BETWEEN AQUAPONICS TECHNOLOGIES

Features	Standard balanced closed-loop aquaponics system	Decoupled aquaponics system	SWIMS™
Consumer trust in organicity (symbiotic ecosystem)	✓	✗	✓
Free of synthetic fertilizers (< input costs)	✓	✗	✓
Flexibility to increase/reduce plant production capacity	✗	✓	✓
Stability and control of nutrient concentration levels	✗	✓	✓
Long term plant high productivity and stability	✗	✓	✓
Long term dissolved oxygen availability and food safety	✗	*	✓
Low maintenance (cleaning) requirements	✗	✓	✓✓
Low water waste/consumption	✓	✗	✓✓

\* Depending on the option to use controlled oxygen input



# OUR PRODUCTS



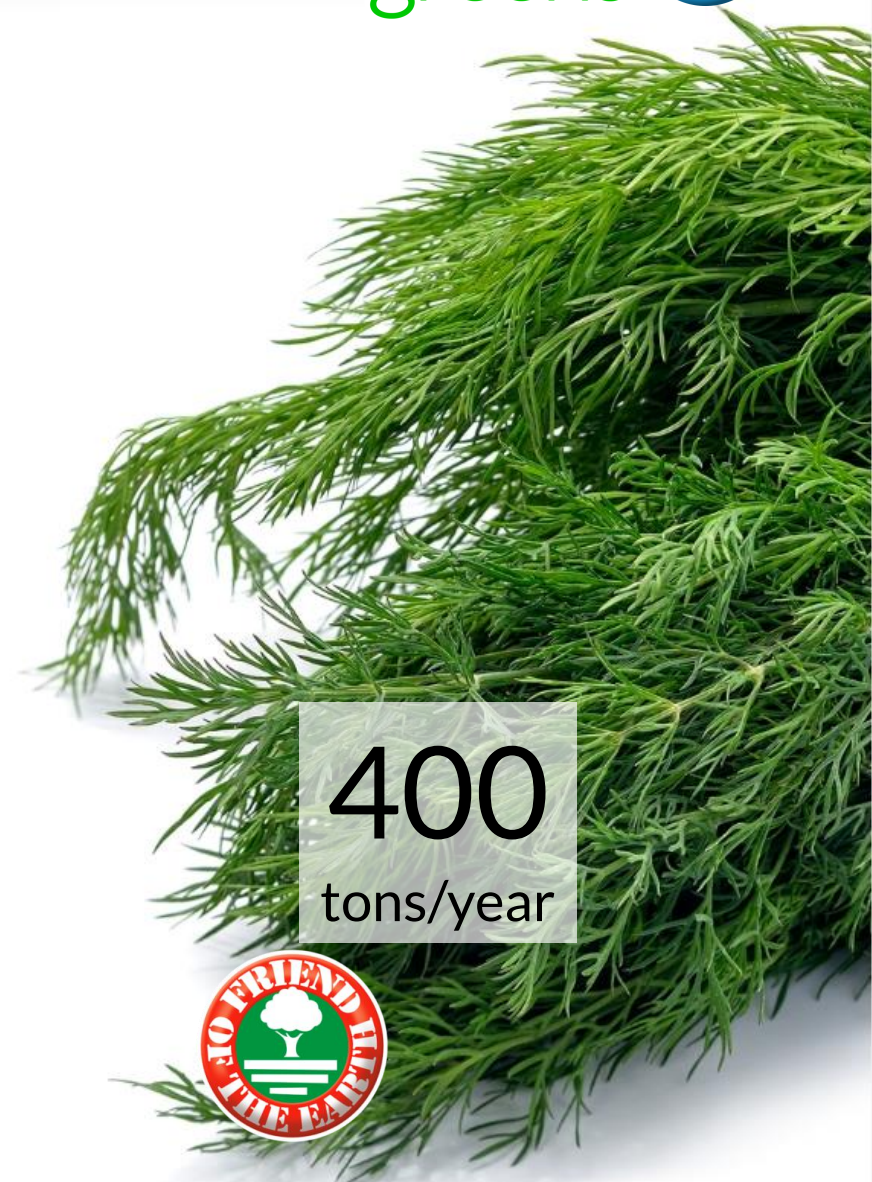
Fresh, local, tasty, healthy and sustainable fish and vegetables!

No GMOs, no pesticides, no herbicides, no synthetic fertilizers.

Fish free of heavy metals, and microplastics, without medicines, antibiotics and hormones!



120  
tons/year



400  
tons/year



# OUR CONTRIBUTION TO THE SDGs

2 ZERO HUNGER



4 QUALITY EDUCATION



3 GOOD HEALTH AND WELL-BEING



13 CLIMATE ACTION



5 GENDER EQUALITY



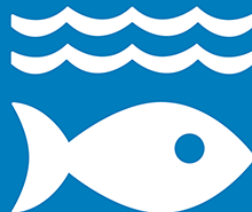
6 CLEAN WATER AND SANITATION



8 DECENT WORK AND ECONOMIC GROWTH



14 LIFE BELOW WATER



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



# END CONSUMER TRENDS



- 1 Healthy
- 2 Sustainable
- 3 Local

# BUSINESS MODEL



## Revenue sources



and by-products (fish waste, organic compost, organic liquid fertilizer, carbon credits)

## Customers (Target Market)

SECURED

### B2B

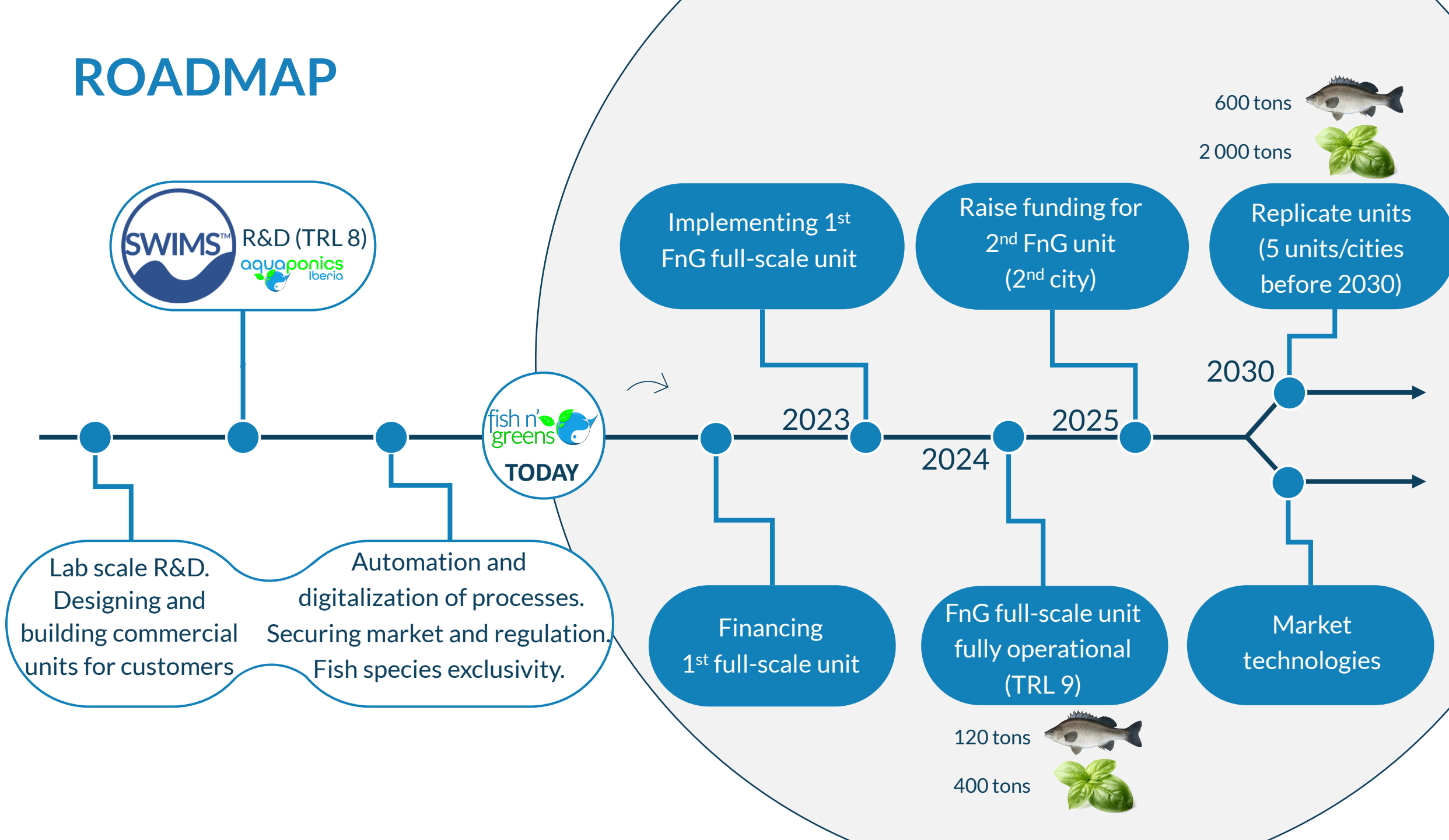


- **Municipality schools**  
(*Biocanteens* project in local schools, supplying close to 11,000 students)
- **Food Retailers**  
(supermarkets, grocery stores, organic food stores and gourmet stores)
- **Restaurants and hotels**
- **Local workplace offices**  
(delivery of fresh food baskets)
- **Other industries**  
(organic agriculture, animal feed, ...)

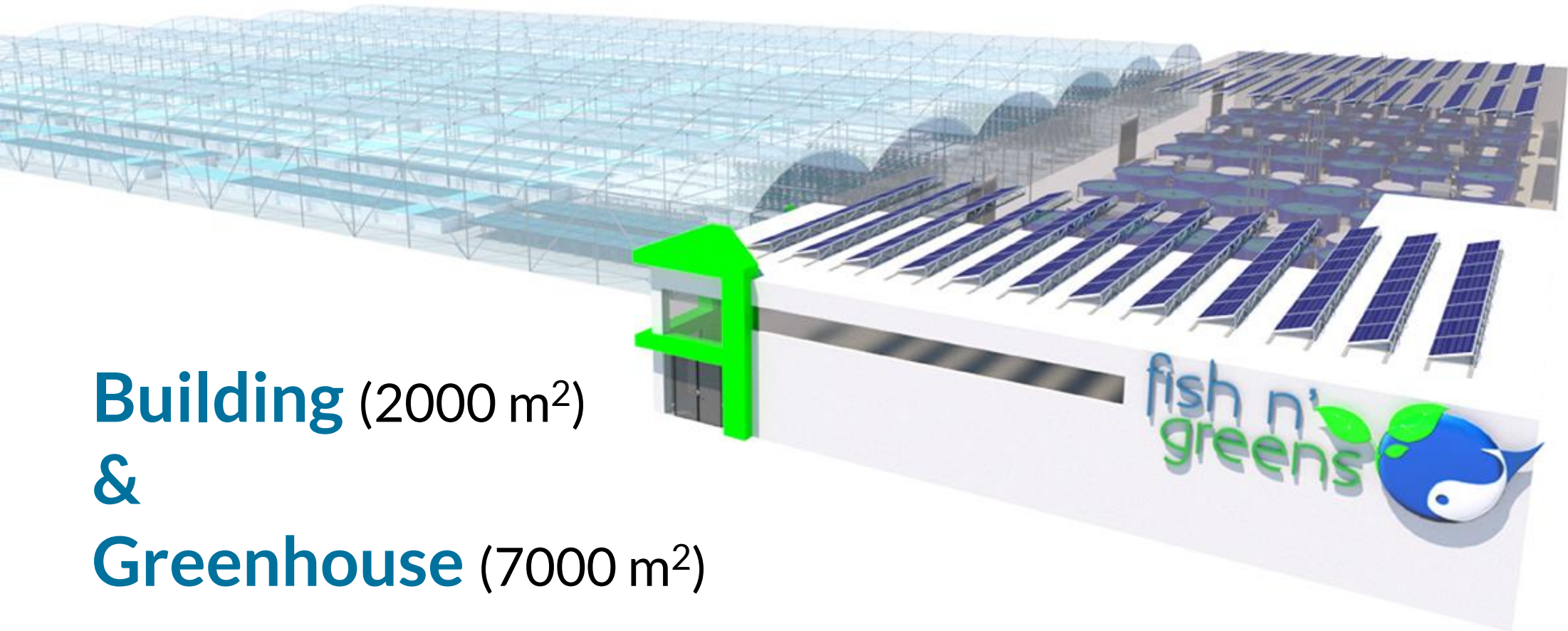
### B2C

- **Online consumers**  
(through webstore)
- **Weekly Farmers markets**
- ***Fish n' Greens* urban fresh food stores**  
(with demonstrative aquaponics system keeping greens alive; coming soon project)

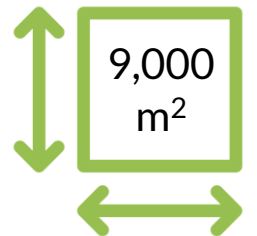
# ROADMAP



# FACILITIES (1<sup>st</sup> FULL-SCALE UNIT)



**Building** (2000 m<sup>2</sup>)  
&  
**Greenhouse** (7000 m<sup>2</sup>)

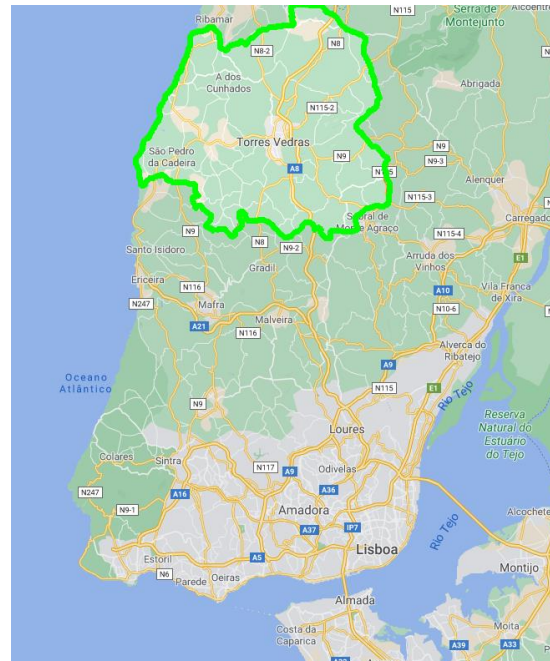


# WHERE



## Torres Vedras

**Location of the first production unit.**  
A region of more than 2 million consumers (50 km radius).  
Less than 30 minutes from Lisbon.



Later, expand to the outskirts of other European cities, through the replication and adaptation of this concept.



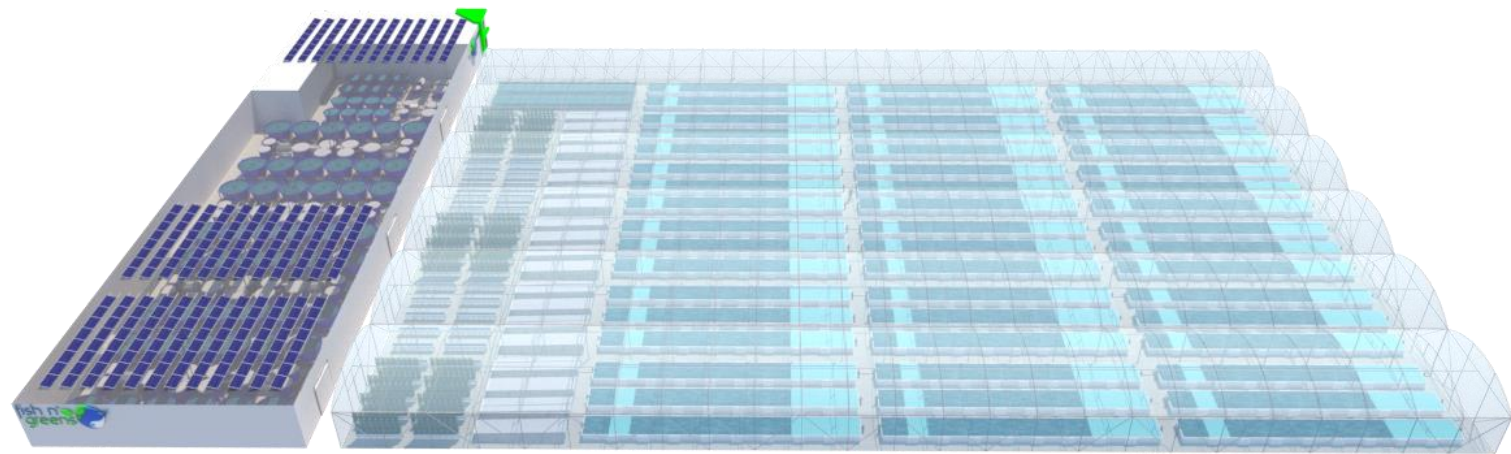
# INVESTMENT



4.5 million € (9,000 m<sup>2</sup> setup)

## Includes:

- 12,000 m<sup>2</sup> land,
- design and engineering,
- construction (building and greenhouse),
- equipment and materials,
- labour and installation,
- project management,
- licensing and certification,
- tests,
- expansion and training of the team,
- working capital and
- beginning of operations.



# INVESTMENT IN SUSTAINABLE AQUACULTURE



## FISH N' GREENS FARMS – KEY NUMBERS

	<b>1<sup>st</sup> full scale unit</b>	<b>Scale-up</b>
Size	→ 9 000 m <sup>2</sup>	5 x 9 000 m <sup>2</sup>
Carbon sequestration	→ 590 tons/year	2950 tons/year
Fresh finfish	→ 120 tons/year	600 tons/year
Organic fresh greens	→ 400 tons/year	2 000 tons/year
Financing demand	→ 4.5 M€	20 M€
Revenues per year	→ 5 M€	25 M€
EBITDA-To-Sales Ratio	→ 60%	66%
ROI	→ 56%	59%
Payback period	→ 3 to 4 years	3 years



# INVESTOR PERSPECTIVE

Raising  
**4.5 M€**  
for **37.5%** equity  
(SAFE)

Post-money  
valuation:  
**12 M€**

Incl. 18  
months  
run rate

Pre-money  
valuation:  
**7.5 M€**

Convertible  
debt

Considering only 1 Fish n' Greens full scale facility.

# SUMMARY



## Does it meet all your investment requirements?

- ✓ Highly productive and sustainable technology, tested & validated!
- ✓ Raising funding for the first large-scale commercial unit!
- ✓ 120 tons/year of the tastiest and  $\omega$ -3 fatty acids-rich fresh certified fish!
- ✓ 400 tons/year of certified organic herbs, leafy greens and fruits!
- ✓ Secured local market (local public schools)!
- ✓ Carbon neutrality!
- ✓ Sustainable «vegetarian» fish (full plant-based fish feed)
- ✓ Zero waste, zero pesticides and zero water waste!
- ✓ Farm to Fork, reaching a market of 2 million consumers!
- ✓ 56% ROI average per year (one unit)! \*
- ✓ 60% EBITDA-To-Sales Ratio \*
- ✓ 3-to-4-year Payback!
- ✓ Easy replicable for the outskirts of other large cities!
- ✓ The most experienced team in RAS and Aquaponics!



\* 4-year average, from 2025 onwards  
(from the 1st year of full production capacity)

# OUR JOINT VISION



## Partners and supporters



Aquaponics Iberia  
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