Regenerative Aquaculture
A New Standard for Shrimp Farming

CASE STUDY: ShrimpVet, Vietnam

EcoSeafood Group – An ESG company

Loc Tran

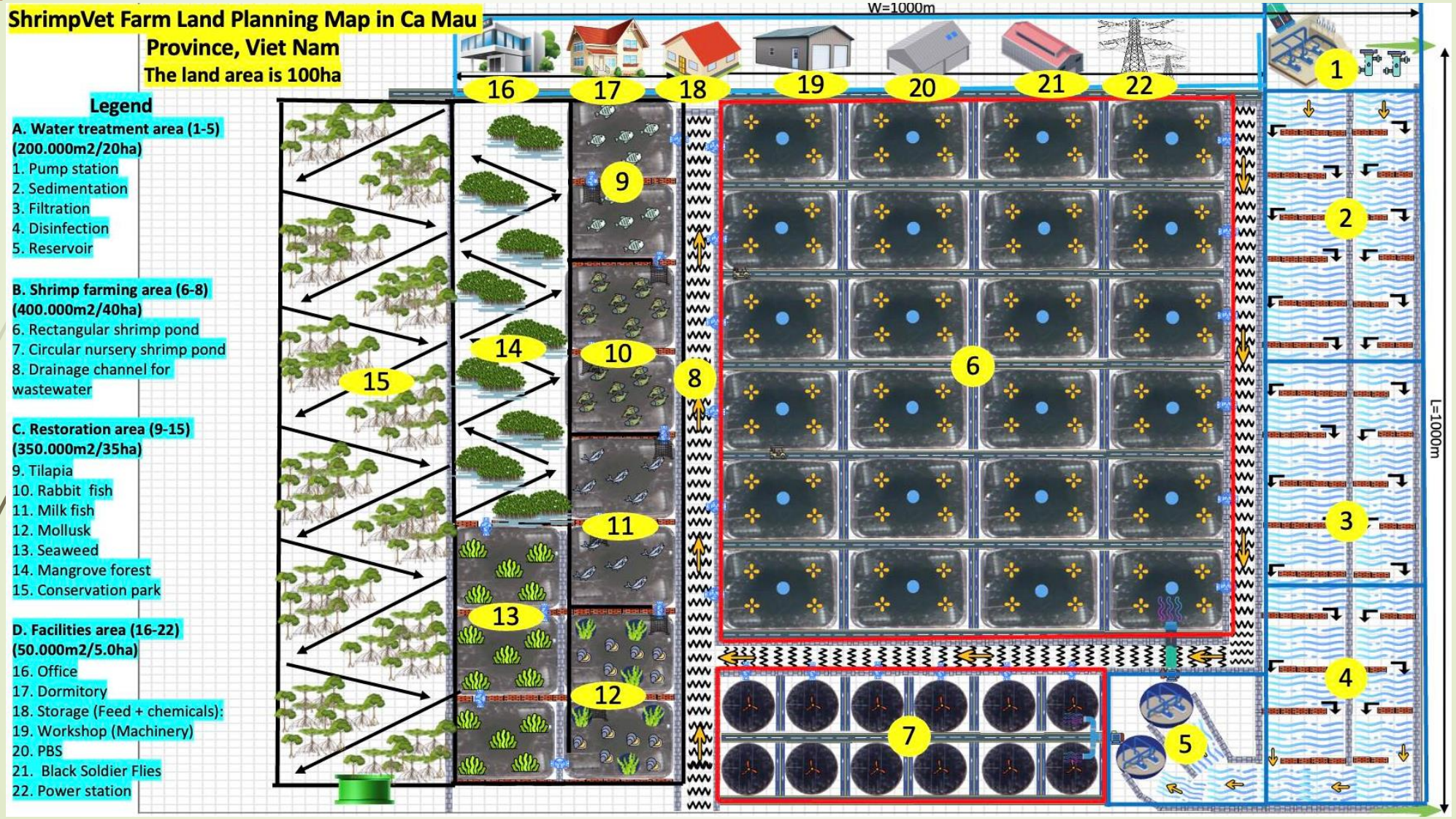
MISSION AND OBJECTIVES

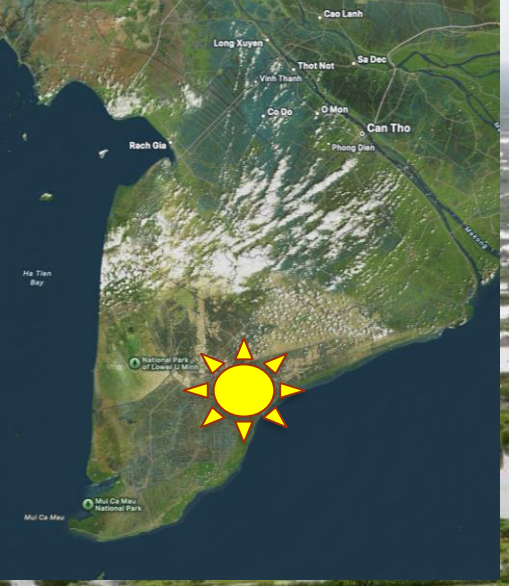
- **Mission**: To develop a scalable and transferable business model for the next generation of shrimp producers—enabling sustainability, operational efficiency, global competitiveness, and compliance with international standards..
- **Objectives**: Deploy 50 modular production units, each with a capacity of 2,000 tons, to achieve 100,000 tons of sustainable, antibiotic-free, and cost-effective shrimp by 2030. •
- Transfer advanced farming technologies and the business model to 500 large-scale farms through contract farming, targeting a national output of 1 million tons of sustainable shrimp in Vietnam.

Core Values & Commitments

- **Quality**: 1. Antibiotic-free and ablation-free shrimp, 2. Zero waste discharge into the environment , 3. Stress-free farming practices promoting animal welfare
- **Traceability**: 1. Fully transparent and open-source production system, 2. End-to-end traceability including broodstock, animal movement, disease control, feed, probiotics, and additives.
- **Compliance**: 1. Full certification across the value chain: hatcheries, farms, feed inputs, and processing facilities 2. Alignment with relevant international standards and market requirements
- **Sustainability**: 1. 70% lower carbon footprint than industry average, with a goal of carbon neutrality by 2030 2. 30% of farm area restored or converted to mangroves 2. Closed-loop, circular farming model with no environmental discharge

MASTER PLAN


ShrimpVet Farm Land Planning Map in Ca Mau Province, Viet Nam
The land area is 100ha
W=1000m
L=1000m
Legend
A. Water treatment area (1-5) (200.000m2/20ha)
1. Pump station
2. Sedimentation
3. Filtration
4. Disinfection
5. Reservoir
B. Shrimp farming area (6-8) (400.000m2/40ha)
6. Rectangular shrimp pond
7. Circular nursery shrimp pond
8. Drainage channel for wastewater
C. Restoration area (9-15) (350.000m2/35ha)
9. Tilapia
10. Rabbit fish
11. Milk fish
12. Mollusk
13. Seaweed
14. Mangrove forest
15. Conservation park
D. Facilities area (16-22) (50.000m2/5.0ha)
16. Office
17. Dormitory
18. Storage (Feed + chemicals):
19. Workshop (Machinery)
20. PBS
21. Black Soldier Flies
22. Power station



MODULE 1: 30 HA, 42 PONDS, 6 CROPS/YEAR, 2,000 TONS/YEAR

WATER TREATMENT

NURSERY

PRODUCTION PONDS

FISH POND & MANGROVE

EcoSeafood Group

FISH POND & MANGROVE

- E.S.G Farm is a pioneering regenerative shrimp farming model in Vietnam.
- Located in Ca Mau – the heart of Vietnam's shrimp production zone.
- Built on nature-based solutions: 30% mangrove restoration, multi-trophic farming system.
- No antibiotics, no ablation, no chemical discharge – producing premium, eco-healing shrimp.

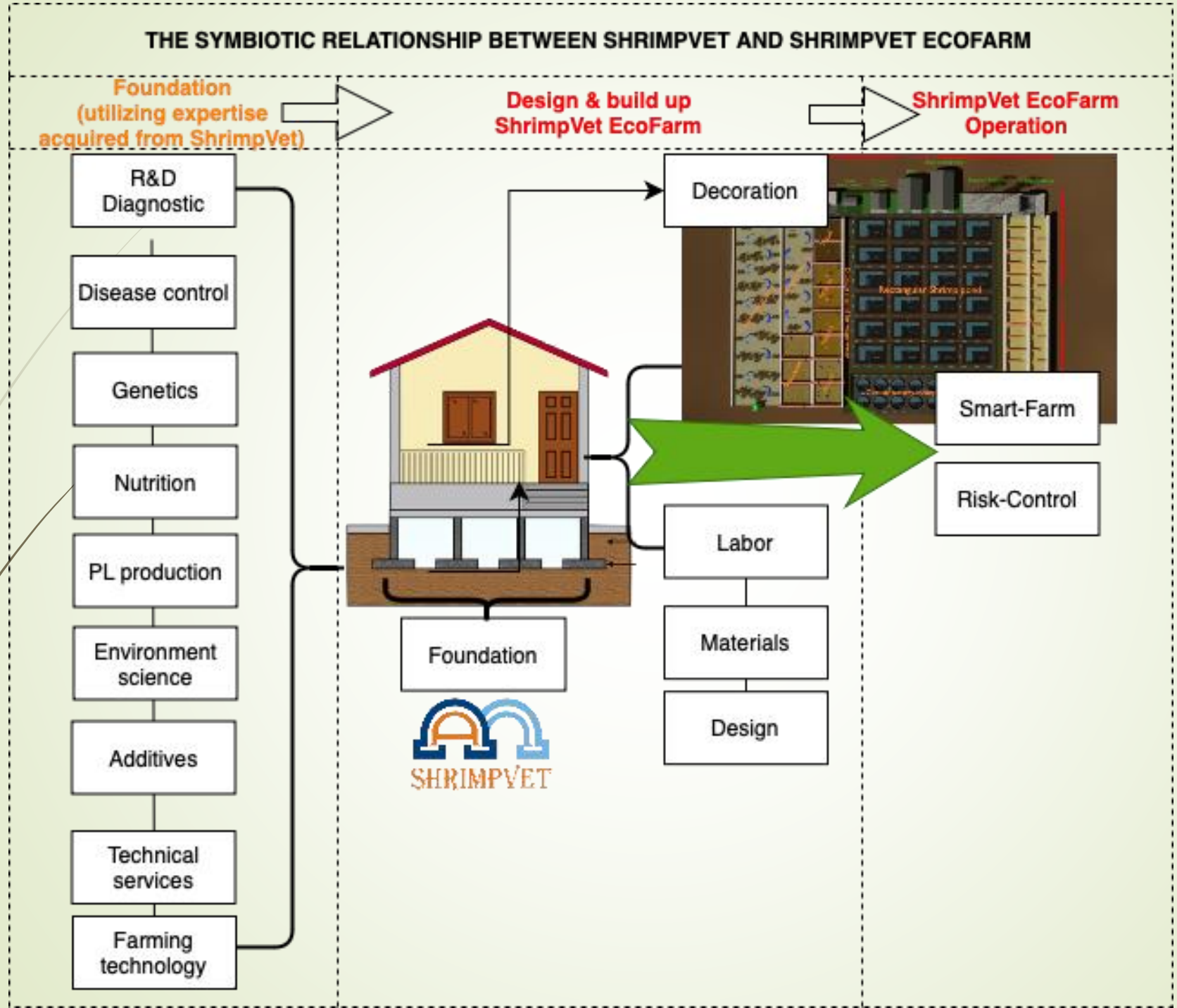
MODULE: 30 HA, 42 PONDS, 6 CROPS/YEAR, 2,000 TONS/YEAR

- Zero discharge: All waste recycled by integrated species (fish, mollusks, seaweed, flies).
- Carbon-negative operations: solar power, local probiotic/PSB production.
- Water quality targets: $NH_4 < 0.1$ mg/L, $NO_2 < 0.45$ mg/L, $PO_4 < 0.5$ mg/L before discharge.

Scaling Regenerative Aquaculture for a Sustainable Future

- Scalable, open-source model for replication across Asia.
- 2030 Vision: 100,000 tons/year from 50 modules, 1 million tons via partners.
- Each module: 20–30 ha with shrimp, fish ponds, mangroves, and solar systems.
- Impact: restores ecosystems, reduces carbon, creates green jobs, trains local farmers.

MODULE: 30 HA, 42 PONDS, 6 CROPS/YEAR, 2,000 TONS/YEAR


THE SYMBIOTIC RELATIONSHIP BETWEEN SHRIMPVET AND SHRIMPVET ECOFARM
Foundation (utilizing expertise acquired from ShrimpVet)
Design & build up ShrimpVet EcoFarm
ShrimpVet EcoFarm Operation
R&D Diagnostic
Disease control
Genetics
Nutrition
PL production
Environment science
Additives
Technical services
Farming technology
Foundation
Decoration
Labor
Materials
Design
Smart-Farm
Risk-Control
SHRIMPVET

Thank you!