



# BioloopX

## Xchanging Waste for Value — BioLoop for Europe's Future

# Company Profile

Presented by  
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# Who We Are

Vertically integrated agribusiness: crop farming, animal husbandry, dairy & meat processing, and retail network.  
Operating since 1972 (renewed philosophy in 2011).  
Core Values: Zero Waste, Sustainable Farming, Family-First Philosophy.  
Own biogas plant, ISO-certified production, export capacity.

[LEARN MORE](#)

[www.bioloopx.farmerok.top](http://www.bioloopx.farmerok.top)



## MISSION STATEMENT

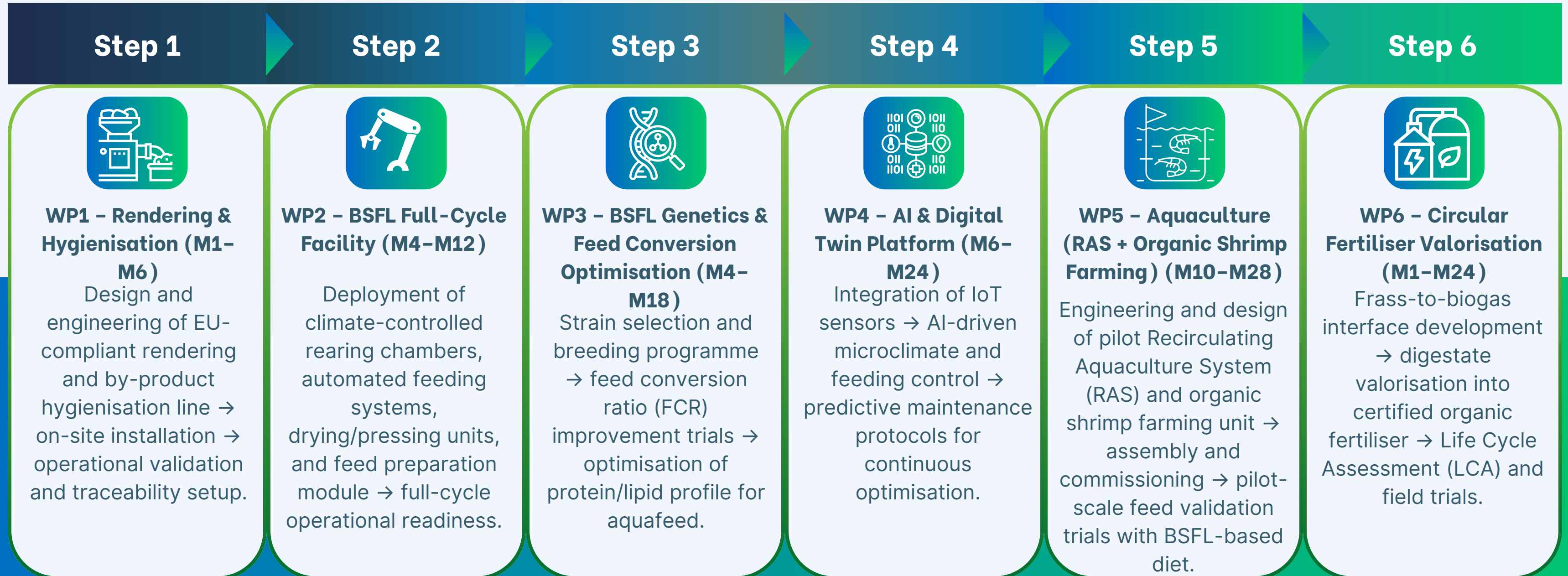
We produce food “as if for our own families,” integrating sustainable practices from field to fork, creating a closed-loop system that minimizes waste, maximizes value, and benefits both people and planet.



# BIOLOOPX – ROADMAP & WORK PACKAGES (36-MONTH EU INTEGRATION PLAN)



Advancing circular bioeconomy for a resilient, green, and competitive Europe.

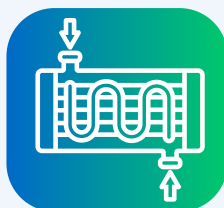




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## Step 7

## Step 8



### WP7 – Energy & Heat Synergy (M3–M24)

Monitoring and optimisation of integration with existing Combined Heat and Power (CHP) biogas units → heat recovery systems for BSFL and RAS facilities.



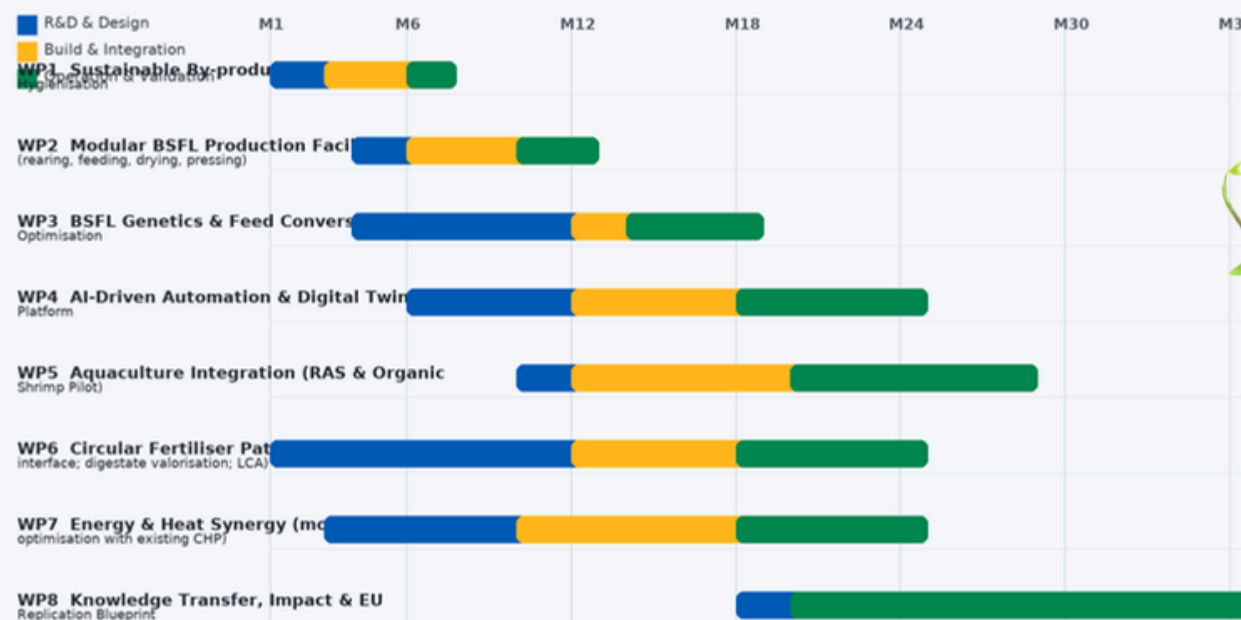
### WP8 – Knowledge Transfer & EU Replication (M18–M36)

Development of replication blueprint for EU stakeholders → capacity-building workshops → dissemination, exploitation, and commercialisation roadmap.



### BioLoopX – Roadmap & Work Packages (36 Months)

Project scope only • Existing biogas CHP is outside scope (integration & valorisation tasks only)



Note: Construction of the biogas CHP is outside the project scope. This project covers integration, interface protocols, certification and valorisation (digestate field trials & LCA).





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# The Challenge



## HIGH IMPORT DEPENDENCE

- Over 60% of EU seafood, fishmeal, and soymeal is imported.
- Vulnerable to global price shocks, geopolitical risks, and supply chain instability.



## ENVIRONMENTAL FOOTPRINT

- Conventional feeds drive overfishing, deforestation, and CO<sub>2</sub> emissions.
- Urgent need for local, circular, and low-trophic feed solutions.



## STRATEGIC FIT WITH EU GOALS

Directly aligned with:

- Farm to Fork Strategy
- EU Strategic Guidelines for Sustainable Aquaculture 2021–2030
- EU Algae Initiative
- Food 2030 R&I Policy Framework



## SLOW EU AQUACULTURE GROWTH

- EU aquaculture growth is almost stagnant compared to global trends.
- Lack of diversification into low-trophic species and innovative production models.

Supports diversification to low-trophic species, IMTA, organic aquaculture, zero waste, and circularity.



# The BioLoopX Solution



Transforming grain & livestock by-products into feed for Black Soldier Fly Larvae (BSFL).



## SHRIMP FEED

Premium, protein-rich insect meal & oil — a sustainable alternative to fishmeal for shrimp and fish farming. Boosts growth rates, improves health, and supports eco-friendly aquaculture.



## HIGH-PROTEIN INSECT MEAL & OIL

Derived from Black Soldier Fly Larvae, ideal for animal and aquaculture feed. Delivers balanced amino acids, omega-3 & omega-6 fatty acids, and essential micronutrients.



## ORGANIC FERTILIZER (FRASS → BIOGAS → DIGESTATE)

Nutrient-dense, 100% organic frass is first utilized in our biogas plant, producing renewable energy and ensuring complete sterilization. The process yields digestate — a stabilized, nutrient-rich organic fertilizer that improves soil structure, enhances yields, and restores natural biodiversity without synthetic chemicals.



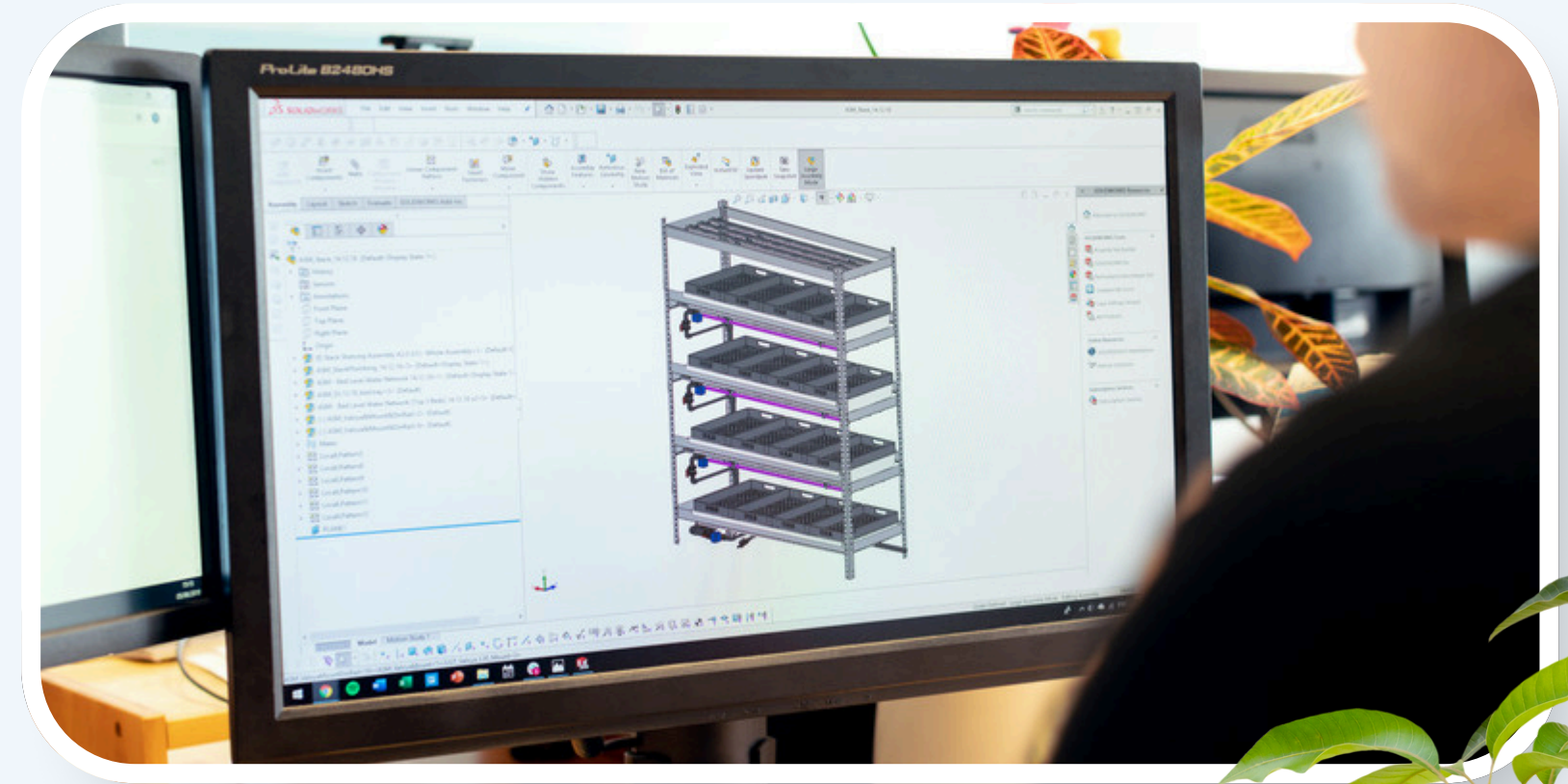
## ORGANIC SHRIMP

High-quality, nutrient-rich shrimp produced through sustainable aquaculture, free from synthetic additives, and aligned with EU's "Farm to Fork" strategy.



# INNOVATION EDGE

BioLoopX delivers a fully circular, climate-smart and resource-efficient model, transforming agricultural by-products into high-value nutrition, aligning directly with EU Green Deal objectives, the Farm to Fork Strategy, and the transition towards a sustainable blue economy.



## > Fully vertically integrated value chain

from crop production to premium food products – concentrated on a single site, ensuring cost-efficiency, quality assurance, and full traceability at every stage.

## > On-site renewable biogas energy

powering BSFL processing – delivering energy independence and a minimal carbon footprint.



### > Closed-loop circular economy model

all by-products are valorised within the system, achieving up to 90% waste reduction and significant CO<sub>2</sub> emissions savings.

### > Production of health-oriented products

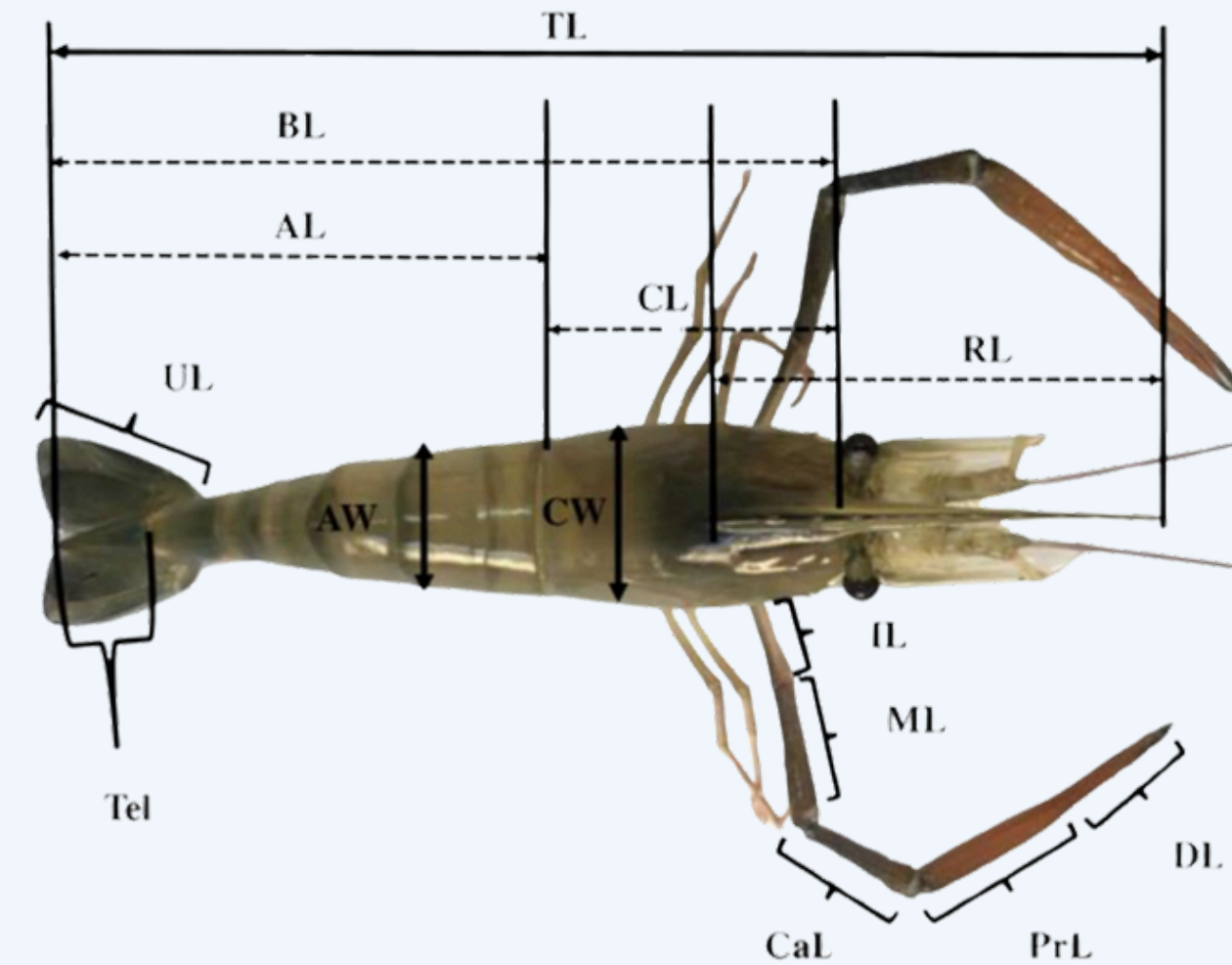
(organic shrimp, sustainable aquafeed, organic biofertilizers) in line with the EU Farm to Fork Strategy and Zero Waste principles.

### > Contribution to rural development and job creation

strengthening the socio-economic fabric of the region.

### > Scalable and replicable blueprint

for sustainable aquaculture and agri-food systems, adaptable across the EU and associated countries.





# EXPECTED IMPACT



## AQUACULTURE:

Stable, sustainable, and locally produced feed supply — reducing dependency on imported fishmeal and enhancing resilience of EU aquaculture value chains.



## FARMERS:

New revenue streams through valorisation of agricultural by-products, improving economic resilience and supporting rural development.



## SOCIETY & HEALTH:

Production of organic, high-quality, nutrient-rich food products (organic shrimp, sustainable aquafeed, organic fertilizer) aligned with the EU Farm to Fork Strategy and the Sustainable



## ENVIRONMENT:

Preservation of marine biodiversity by replacing fishmeal with insect-based protein; reduced greenhouse gas emissions through circular waste-to-value processes.



## CLIMATE ACTION:

Up to 90% waste reduction and significant CO<sub>2</sub> savings via integration with renewable biogas energy and closed-loop nutrient recycling.



## REPLICABILITY:

Scalable and adaptable model for sustainable aquaculture and agri-food systems across the EU and Associated Countries.





### ➤ R&D COLLABORATIONS

Universities, research institutes, and innovation hubs specialising in aquaculture, insect technology, and sustainable food systems.

### ➤ INDUSTRY ASSOCIATIONS

Networks to promote market adoption, certification, and policy alignment at the EU and international level.

### ➤ FUNDING & SCALING

Horizon Europe, LIFE Programme, EIC Accelerator, and other green investment mechanisms to expand production capacity and replicability across the EU.

### ➤ PILOT & DEMONSTRATION SITES

Opportunities to co-develop and showcase integrated aquaculture-insect-biogas solutions in real-world settings.

# Partnership Opportunities

We are seeking strategic partnerships to maximise BioLoopX's environmental and economic impact:

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