



Founded in January 2022



Multi Disciplinary Team

Seaweed Farming / Marine Biology / Finance and Investment / Creel Fishing

Vision

To create a vertically integrated seaweed farming industry in Scotland

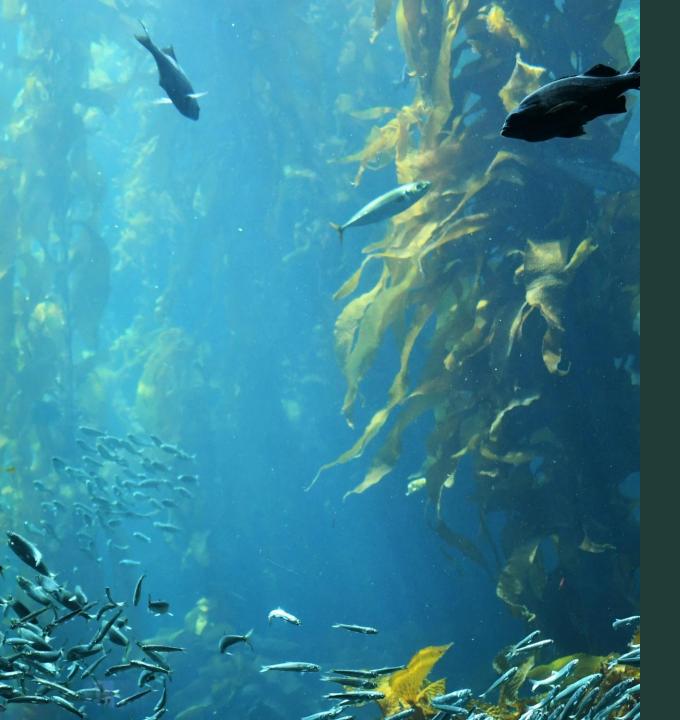
Mission

Cultivate Seaweed / Improve the Marine Environment / Create tangible benefits to local Communities



- Engage with all Marine interests
- Science led SAMS/Stirling University
- Loch Bay Prototype/Research Farm
- Seaweed Protocol SCFF
- Farming Partnership Model
- Farm Design Kelp & Creel
- Local Marine Conservation Plan





Environmental benefits of seaweed farming

- Habitat for juvenile fish
- Improves marine biodiversity
- Absorbs CO2 faster than rainforest
- Absorbs excess nitrates and phosphates
- Reduces need to wild harvest kelp
- Co-location benefits from fin fish farming

Kelp - What are the end-products?













Loch Bay Pilot Farm

- Prototype Farm
- Training
- Research & Development
- Farm Design testing
- Marine Data real time
- Satellite Monitoring
- DNA Data Collection
- Seeding and Harvesting techniques

Centre of Excellence

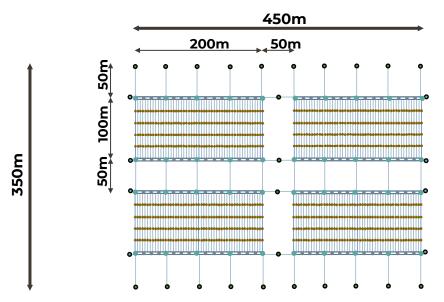


Loch Bay Grid Design

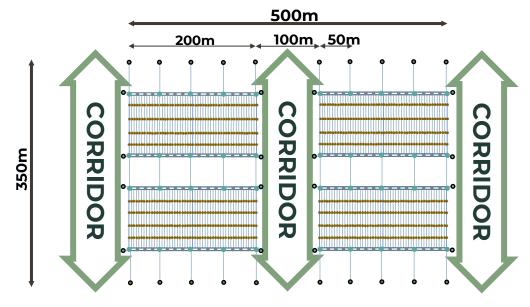
Integrated Kelp & Creel Model

- Seeding in Oct / Nov
- Harvesting in April / May
- 6 month Growing / 6 month Fishing
- Multi Trophic Aquaculture oysters, mussels and clams

Standard 4 Grids Design

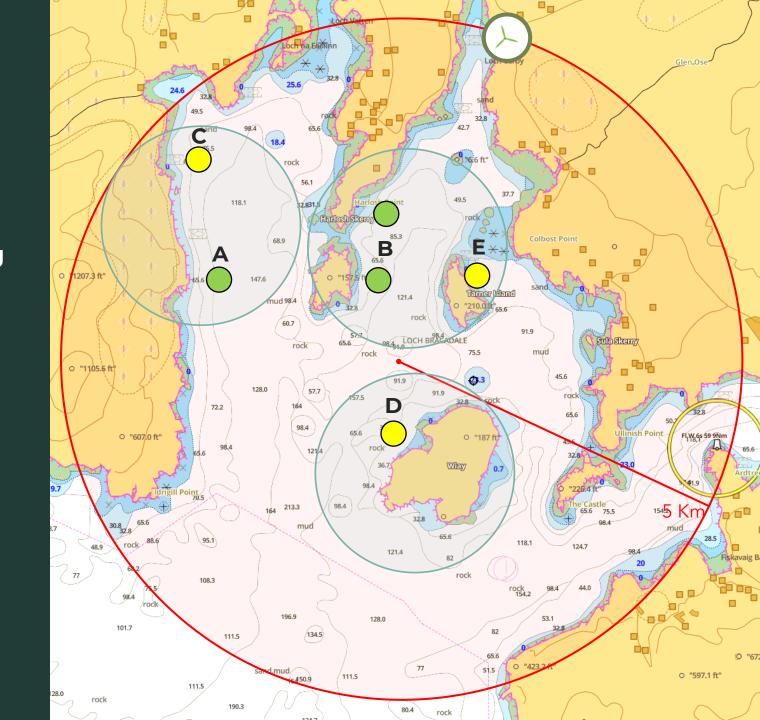


Kelp & Creel Integrated 4 Grids Design

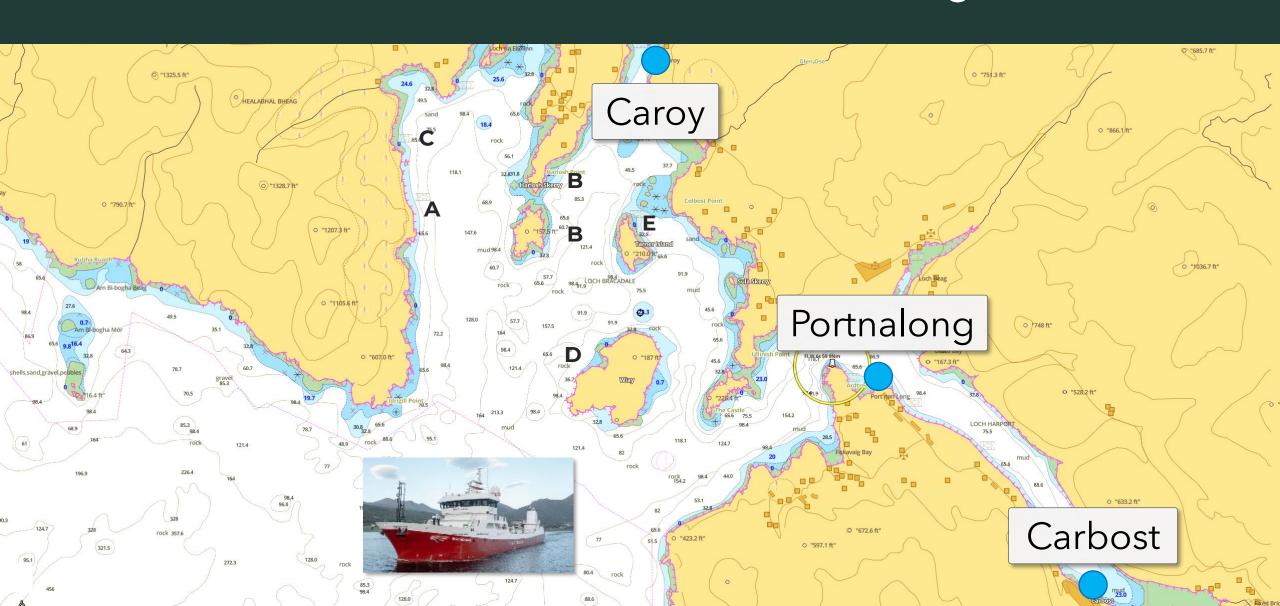


Loch Bracadale Sites Screening

- RED CIRCLE Scope of site screening
- BLUE CIRCLE Potential site zones
- SITE SCREENING:
 - Green Few constraints
 - Yellow Moderate constraints
 - Red Significant constraints
- SUGGESTED LOCATIONS: C E
- ALTERNATIVE SITES: A & B
- GLEN ULLINISH PROPOSAL



Loch Bracadale - Possible Landing Points



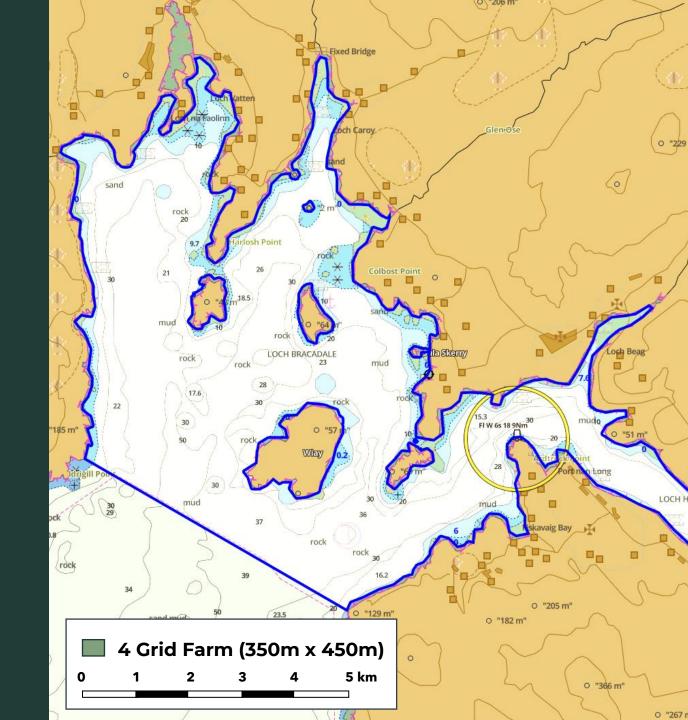
Loch Bracadale

"SPATIAL SQUEEZE" - emerging term from intensified marine usage

Loch Bracadale Area - 5,700 ha

KALY APPROACH

- Marine Data Collection
- Kelp Growing Trails
- Phase 1 4 Grids (0.28%)
- Phase 2 8 Grids (0.56%)



Timeline from Site Selection to Operation

Sites Screening

- High-Level Consultation
- Internal Assessments

Pre-App Engagement

- Community Councils
- Public Bodies/Trusts

Public Consultations

- Local Communities
- Local Marine Users

Marine Scotland Applications

- Community Consultation
- License Application

Seaweed Farm Consent

- Marine Scotland Directorate
- Crown Estate Scotland Lease
- Farm Partnership Agreement

Deployment

- Year 1 Test lines
- Year 2 4 Grids
- Year 3 8 Grids

Application Content

- Clear Supporting Plans and Charts
- Planning and Method Statements
- Pre-Application Consultation Report
- Navigational Risk Assessment
- Vessel Management Plan
- Environmental Report / Responsibilities
- Seascape and Visual Appraisal
- Habitat Assessments

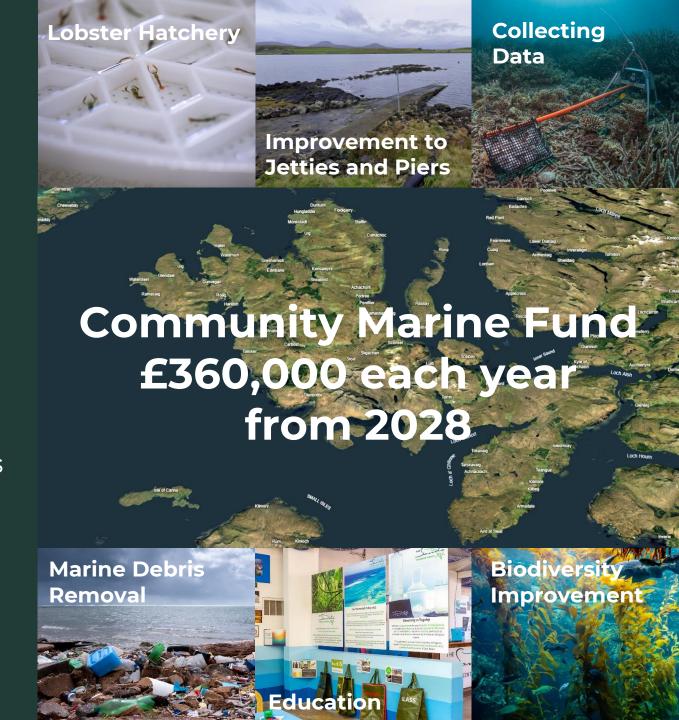


Community Benefits

- Boost to local economy
- Job creation
- Training and New Careers
- Supplementary income
- Citizen Science
- Community Conservation Plan

Community Conservation Plan

- Biodiversity Improvement
- Lobster Hatchery
- Seagrass Restoration
- Reintroducing Native Oysters/Mussels
- Coastal Protection
- Marine Pollution Removal
- Local Environmental Plan



Vertically Integrated Business



Vision - Marine Innovation Park for Scotland











We welcome your comments

Thank You!



