SEAGRASS BLUE
Scaling seagrass meadows to remove carbon
and increase ocean biodiversity

One hectare of seagrass removes
30 times more CO_2
than a hectare of Amazon rainforest
But restoring seagrass is hard...
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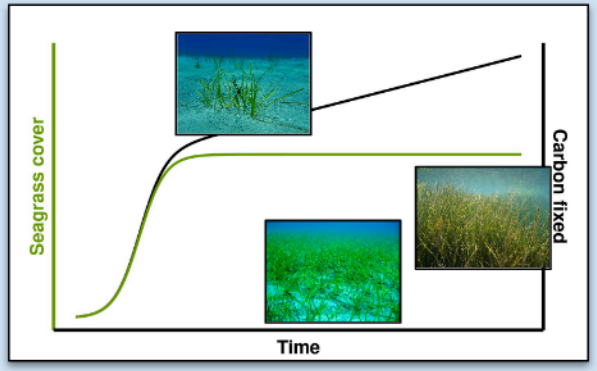
Our Solution

Aquaculture of **seagrass meadows** in modular mid-water Farm Pods

Robotic monitoring of seagrass growth, carbon capture, and biodiversity



Carbon removal and biodiversity increases that are **verifiable and transparent**

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Seagrass Blue

Chris Lewis

The engineer and entrepreneur

Dr Craig Syms

The marine scientist and biostatistician

Lana Cranga

The commercial sales expert

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The challenges...

- Seagrass has never been grown in open-water aquaculture before
- Need: Real-world demonstration of proof of concept before scaling up to industrial scales
- Integrate robotic monitoring for carbon verification and biodiversity contribution

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EMSO ERIC Physical access

- **OBSEA**: 20m depth, 4km offshore, with 4G coverage, protection from fishing

- **UPC staff** with background and expertise:
  - Equipment deployment
  - Seagrass cultivation in lab

- UPC **partnerships** with logistics and engineering companies

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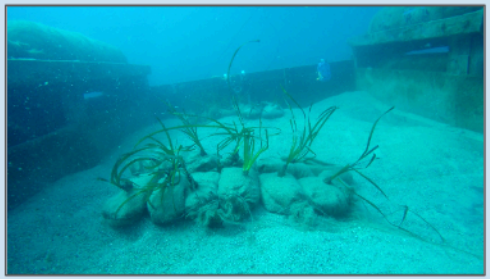
Tasks achieved and ongoing

Deployment

Planting



Robotics and sensor testing

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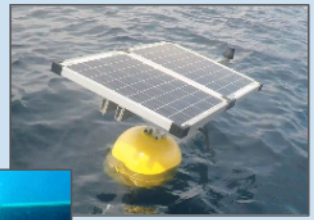
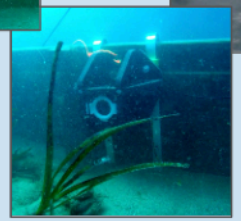
The Seagrass Blue - EMSO ERIC link

Technical synergies





Ecological synergies

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Collaborations and the future

- Further development of technology and engineering solutions to >TRL6

- Synergistic relationship with UPC and Obsea
  - Ocean sensing instrumentation
  - Seagrass restoration

- Key milestone in developing a scalable commercial solution to capture carbon and increase biodiversity

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Save the planet, grow grass
https://seagrass.blue