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The world's first scalable health and biodiversity maps of the seafloor

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Co-Founder & CSO

Lack of data prevents solution at scale

- **Less than 1-5% of the seafloor is recorded further than topographic maps** (e.g. biodiversity, habitat and health assessments)
- Why is it important? The seafloor mirrors the state of the ocean and is identified as **key player** for
 - climate mitigation (climate regulator, CO2 sink, best carbon sequester)
 - food security
- **Examples SAM** (SAM = Serviceable Available Market):
 - Blue carbon \$600m (SAM in 2030), Offshore wind €450m benthic habitat mapping (SAM now)

Example: Replacing traditional methods to provide data at scale for blue carbon projects



Manual Assessment

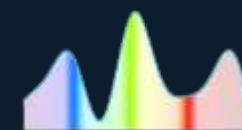
of e.g., seagrass health or biodiversity



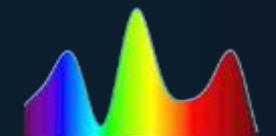
PlanBlue Technology



Products:
**Health, Carbon Stock, Biomass,
Coverage, Elevation, Orthoimagery**



Standard (RGB) camera
3 light bands



Hyperspectral camera
+200 light bands

Technology is applicable to all ecosystems and ready for robotic



Example:

Assessing **biodiversity** or coastal protection/resilience



Photo: Laetitia Plaisance

Example:

Assessing (**state/health**) of seagrass and stressors/ pollution



Example:

Guidelines/ Legal framework for **pollution**/ aquaculture



Peer-reviewed articles about PlanBlue technology (more coming soon):

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- Artificial reef effectiveness changes among types as revealed by underwater hyperspectral imagery (2023, Restoration Ecology)
- Assessment of the utility of underwater hyperspectral imaging for surveying and monitoring coral reef ecosystems (2023, Scientific Reports)
- Coral reefs in transition: Temporal photoquadrat analyses and validation of underwater hyperspectral imaging for resource-efficient monitoring in Guam (2024, PLoS ONE)
- Ground-truthing biomass and health estimates of seagrass meadows by combining advanced imaging, underwater navigation and machine learning (in progress - Scientific Reports)



5 patents



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