

Marine Industry



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What is OceanNexus™?

BIODIVERSITY, IN PLAIN SIGHT.

OceanNexus™ is a SaaS analytics platform that turns video into automated, data-rich assessments of aquatic life and habitat conditions.

The problem it solves

- Diver/ROV surveys are costly, weather-limited, typically infrequent, and miss most mobile, invasive, and endangered species.
- Permitting, compliance, and disclosure require repeatable, comparable evidence over time.
- Operators need clear visuals and defensible metrics for regulators and stakeholders.

Core value

- **Defensible baselines:** build a repeatable record of biodiversity and habitat conditions, with audit-ready evidence, confidence scoring, and traceable imagery.
- **Prove performance:** before/after evidence for works, mitigation, and recovery.
- **Lower cost, higher coverage:** consistent monitoring, reduced field risk & disruption.
- **Compliance & reporting-ready:** Outputs aligned with real-world regulatory and reporting needs.

Book at demo: cnbs@cascadiaseaweed.com

Designed for marine industry

- **Compliance-ready insights** to support approvals, monitoring plans, ESG, certification schemes, nature and biodiversity disclosure frameworks.
- **Transparent, visual outputs** that can be shared with regulators, and coastal communities.
- **Early-adopter benefit:** a “Compliance View” dashboard aligned to your priorities.

Resource Manager, Water Steward, or Conservation Specialist? Ask us for that flyer!

Where it's used

- **Ports + harbours:** dredging, upgrades, expansions, and ongoing environmental monitoring.
- **Clean energy:** offshore wind, tidal, and wave project baseline and impact monitoring.
- **Coastal + subsea infrastructure:** construction, outfalls, cables/pipelines, industrial marine facilities.
- **Co-management + transparency:** shared evidence to support shared decision-making in working waters.

What you get each month

- **Biodiversity metrics** + updated trends on chosen taxa
- **Habitat and water-quality:** temperature, salinity, turbidity, chlorophyll (as required, where available).
- **Report-ready insight** for decisions & communication.
- **Detection alerts** for invasive or endangered taxa.
- **Maps** + GIS-ready exports
- **Interactive insight:** Select time periods to explore.

You are in control

OceanNexus™ is not a black box.

Drill down from dashboards to source imagery to verify what's being reported.

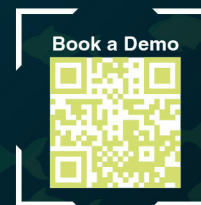
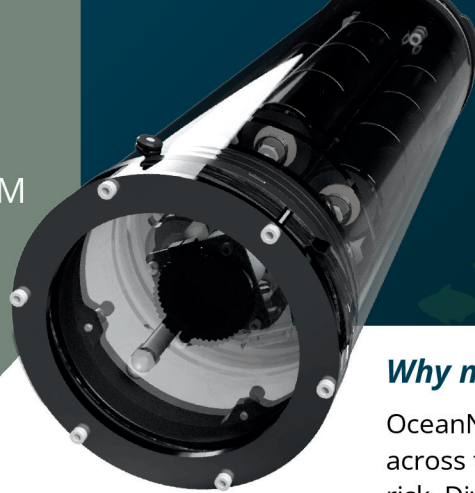
- ✓ **Confidence score** included with every detection.
- ✓ **Verify detections** against the original imagery.
- ✓ **Optional review:** prioritize taxa, flag unknowns.
- ✓ **Accuracy improves over time:** as desired.

In your reporting language

- Dashboards can be configured to common or custom formats (e.g., MPA/IPCA reports, national habitat/fisheries reporting, national biodiversity strategies, SDGs, TNFD, internal management targets).

Ask us how: cnbs@cascadiaseaweed.com

How does OceanNexus™ work?



1

LookSea™ FishCams (data capture)

Programmable underwater cameras capture video at set intervals (e.g., 5 minutes, hourly) and store locally. Upload for processing.

- **Autonomous** and repeatable.
- **Passive monitoring:** stationary, silent devices eliminate wildlife disturbance and improve repeatability over time.
- **Scales across sites and seasons:** a time-lapse rather than a snapshot.

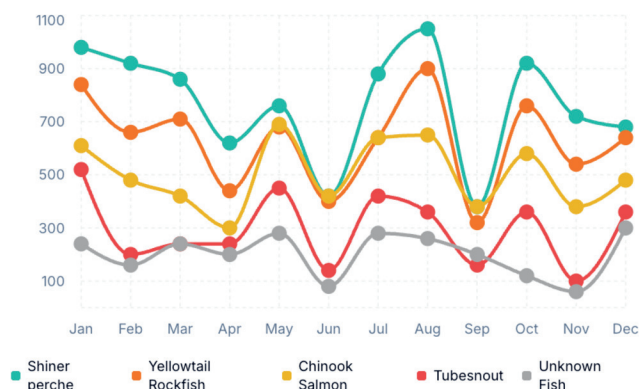
2

OceanNexus™ platform (data analysis)

AI-powered object detection and machine learning classify taxa and estimate abundance, then combine video insights with environmental parameters (local sensors, as relevant).

- **Data processed and updated monthly** for a continuous picture of change.
- **Dashboards display insight** in maps, time series, alerts, and reports.

Sighted Species Counts by Month
Monthly species detection counts and trends



About the team: OceanNexus™ is built by Cascadia Nature-based Solutions (CNbS), combining marine ecology, AI, and real-world deployment experience. CNbS is a division of Cascadia Seaweed Corp. [Ask us about pilots and reporting formats.](#)

Why not just dive?

OceanNexus™ delivers continuous, comparable evidence across time and conditions—at lower cost and operational risk. Dive and ROV transects deliver costly snapshots. OceanNexus™ delivers a high-quality, economical time-lapse.

- **More locations, more often**, regardless of sea state.
- **Better coverage** of mobile taxa (like fish).
- **Reduces liability** & safety exposure of frequent dive ops.

Best-fit applications

- **Biodiversity monitoring and reporting** to support regulatory and voluntary disclosure (CSRD/ESRS, TNFD, EcoPorts, Green Marine)
- **Baseline + impact assessments** for port and coastal infrastructure works.
- Construction, operations, and cable **monitoring for offshore renewables** (wind, tidal, wave).
- Ongoing **compliance monitoring** and transparent reporting to stakeholders.
- **Guide monitoring investment:** find hotspots and gaps to focus effort. Classify biotopes.

Try OceanNexus™

Early adopter benefits include...

- ✓ **Dashboard tailoring:** configure indicators, thresholds, and reporting views to match your priorities (where feasible).
- ✓ **Preferred pilot terms:** early access, hands-on onboarding, and priority support during the pilot period.
- ✓ **Funding support:** CNbS can co-write grant applications to help subsidize monitoring for eligible stewardship and NGO partners.

Partner with us

Help make OceanNexus™ accessible to all!

- ✓ **Camera-agnostic pilots:** we can analyze existing underwater video (not just LookSea™) as a pilot.
- ✓ **Trial deployments welcome:** with ports, harbours, aquaculture, and offshore energy (wind, tidal, wave).
- ✓ **Alongside existing monitoring:** complements consultant surveys and environmental monitoring programs.

