

Transformative nature intelligence

Reduce nature-related
risks, unlock new
opportunities & amplify
impact with robust,
scalable nature data,
powered by eDNA



THE
EARTHSHOT
PRIZE

Finalist
2024

• Nature

A trusted nature intelligence
partner for more than 600
organizations in 110 countries



Scottish Government
Riaghaltas na h-Alba
gov.scot



9.9%

of the Earth has been surveyed with NatureMetrics eDNA

Including data from 110 countries and tens of thousands of species, including mammals, fish, invertebrates, birds, fungi, and bacteria.

Our Services



Monitor nature

Monitor hard-to-detect species with high-integrity eDNA surveys



Generate metrics

Access a pipeline of ecosystem metrics on an enterprise grade platform



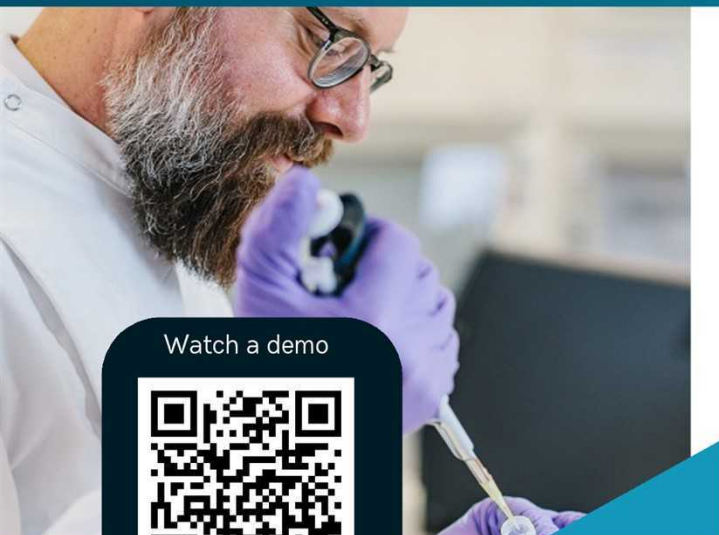
Develop strategy

Understand & optimise your nature-related risks & opportunities



Track restoration

Measure and evidence restoration success with a simple Metric



Watch a demo



Who are NatureMetrics

The world's largest eDNA company with an established track record of delivery at scale. We offer a full end-to-end solution, from nature strategy development, survey design and sampling training, to report interpretation.

- ✓ 600+ customers
- ✓ 110 countries
- ✓ World Economic Forum Technology Pioneer
- ✓ Earthshot Prize Finalist

What is eDNA and why are the world's leading companies adopting it



All living things leave traces of their DNA in the environment (eDNA). This can be used to identify individual species from small samples of soil, sediment, water and air. Hundreds of species can be detected from a single sample, which can be collected in just 10 minutes.

eDNA provides an unrivalled picture of a site's biodiversity. It provides the most comprehensive view available of the full spectrum of life, including fungi & bacteria, no matter how hard-to-detect.

Benefits of eDNA vs. other methods



A higher data return vs. sampling effort than other methods



Reliably monitor hard-to-detect and invisible species, including fungi & bacteria



Train anyone to take scientifically-robust eDNA samples in less than 10 minutes



Spend up to 70% less time in the field, reducing costs & health and safety risks

Collect repeatable, robust data that can enable AI/ML and big data analysis

Case Study: Searching for aquatic species in the Peruvian Amazon

WWF Peru approached NatureMetrics to help survey six aquatic species including Amazon manatees, pink river dolphins and migratory catfish along the Marañon river in the Northern Peruvian Amazon as part of their Healthy Rivers programme.

Traditional methods would have meant conducting separate surveys and multiple trips, but with eDNA they could all be surveyed together. Three trips later, we delivered a comprehensive set of data to WWF covering a vast array of aquatic and non-aquatic species, including the six target species.



"This was a vast, landscape-level survey, stretching from the Andean slopes in the east to the Brazilian border in the west.

To survey this length of river for just a few species using traditional techniques would have taken many more person hours, requiring multiple trips and resulting in less reliable, auditable and systematic data."

Brenda Toledo, WWF Peru

Results from just 3 surveying trips:

375
fish.

155
mammals

65
birds

Track nature in any habitat



Tropical & sub-tropical forest



Fresh water



Grasslands, savannahs, deserts



Marine water



Mangroves & coastal ecosystems

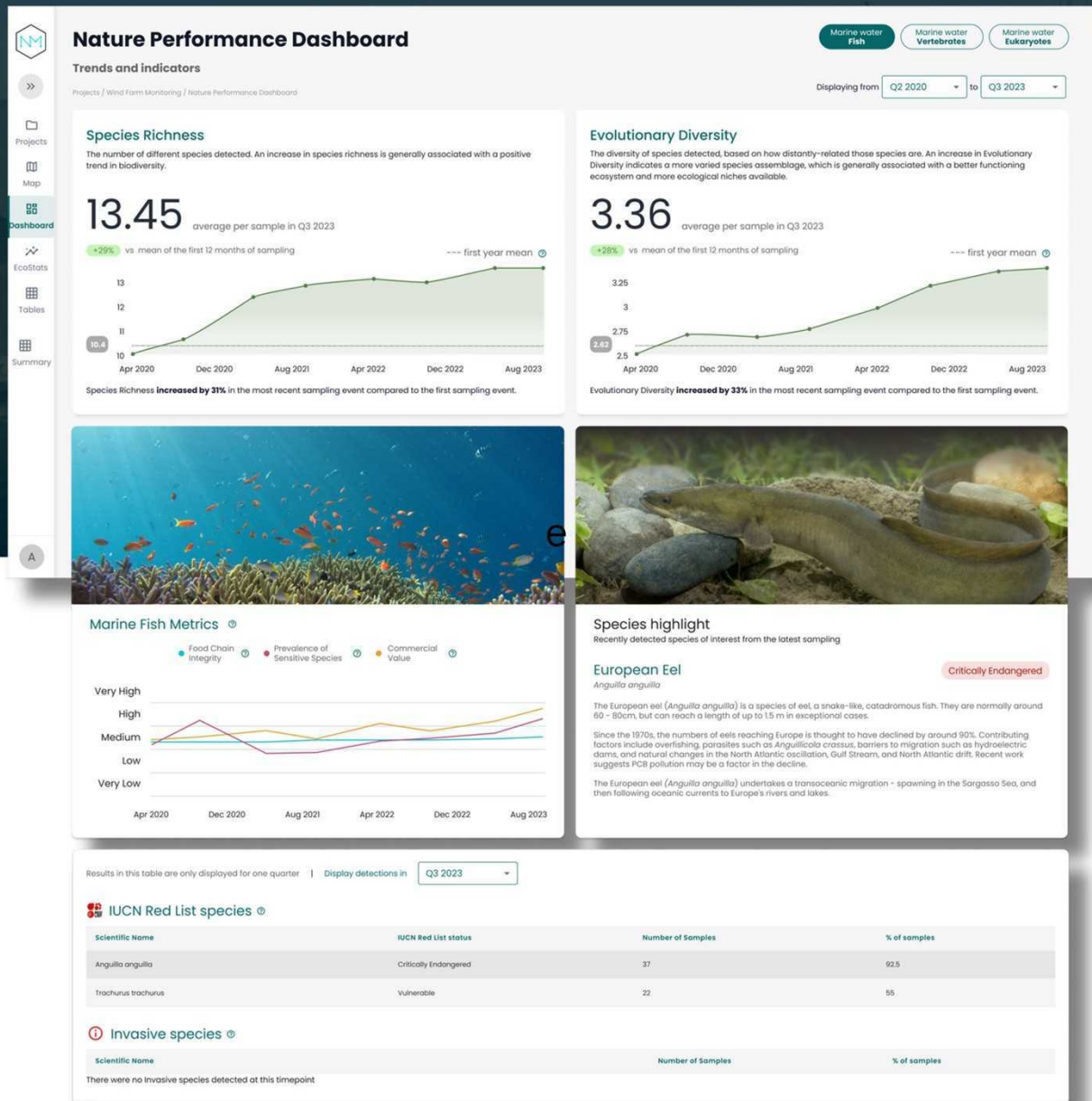


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NatureMetrics Intelligence Platform

Turning nature into data and insights
that drive impact at scale



Easily compare different sites and groups from across your portfolio.



Inform management actions with an automated suite of metrics.



Intuitively navigate your data on an interactive map of survey sites.



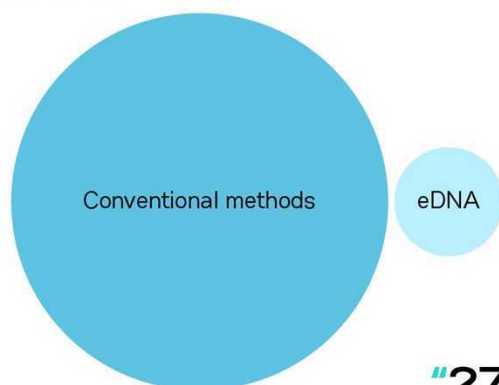
Improve stakeholder comms with high impact metrics & visualisations

Case Study: Optimising environmental impact assessments in the Peruvian jungle

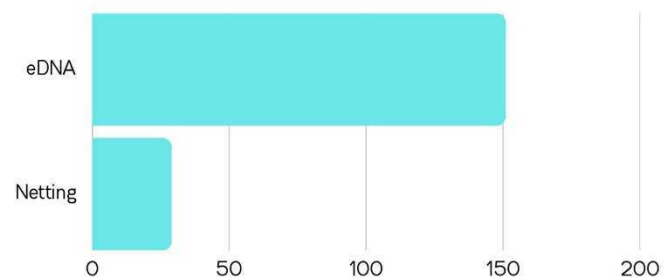


Repsol worked with NatureMetrics to test the efficacy of eDNA vs traditional biodiversity monitoring methods in the Peruvian jungle. eDNA surveys identified 5x as many fish and mammal species in one twelfth of the time, including 12 IUCN red-listed species not found using other methods.

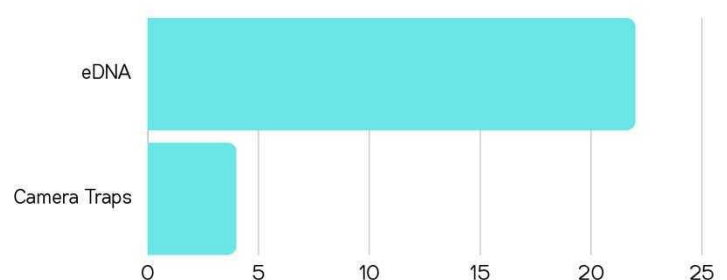
Person days required in remote field stations



Fish surveys



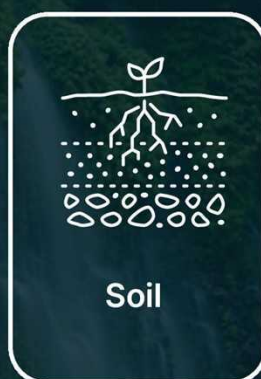
Mammal surveys



"27x more species per unit sampling effort"

Types of eDNA Surveys

eDNA can be deployed in any habitat using a variety of survey types to detect the whole web of life



An unrivalled Nature Intelligence service

Experienced, cross-functional team including ecologists, biodiversity scientists, molecular scientists, statisticians and nature policy experts to help you get the best data and make the most of it.

Purpose-built, state-of-the-art eDNA laboratories, including Cat. II biocontainment facilities.

Experienced in international logistics and compliance: we have successfully worked with our clients to export samples from all over the world in compliance with Nagoya Protocol on Access and Benefit Sharing.

APHA import licences held for samples arriving from overseas. We operate rigorous QA / QC processes to document performance at every stage.

Our laboratory boasts highly validated workflows honed across over >50,000 samples, ensuring unparalleled accuracy and reliability in our analyses.

Optimised and automated bioinformatics pipeline to accurately and rapidly generate large biodiversity datasets utilising highly curated reference databases to return



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Case Study: Pioneering study with EDF Renewables transforms biodiversity monitoring for offshore wind

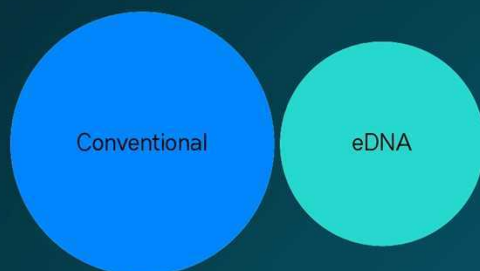


Offshore wind's rapid expansion has exposed critical limitations in traditional fish surveying methods such as trawling. eDNA promised a safer, more humane, and lower impact alternative.

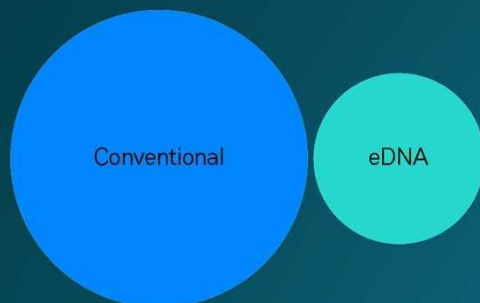
EDF renewables partnered with NatureMetrics & Natural Power to study eDNA's efficacy vs. conventional methods.

The study established eDNA as an effective solution and revealed significant cost and time savings plus improvements in data quality.

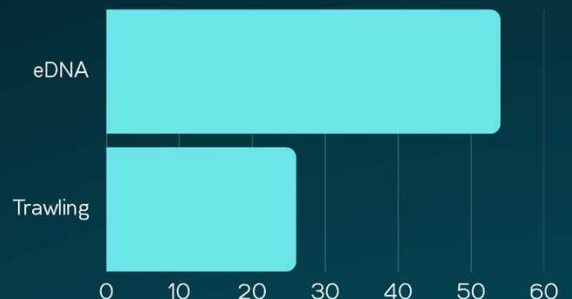
Vessel time required



Personnel resources required



Species detection by method



Survey Highlights

- Collected first of its kind species data supporting artificial reef hypothesis.
- 4 marine mammal species detected.
- Identified seabirds, including great cormorant and common guillemot.
- Detected important species missed by trawling, including European eel & Atlantic salmon
- Led to 40% reduction in vessel time and 70% reduction in personal resources.

"eDNA-based surveys are a market-ready solution to optimise consenting phase surveys of offshore wind site development, as well as ongoing monitoring and targeted mitigation strategies,"

Michelle Elliot, Principal Environmental Consultant at Natural Power



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