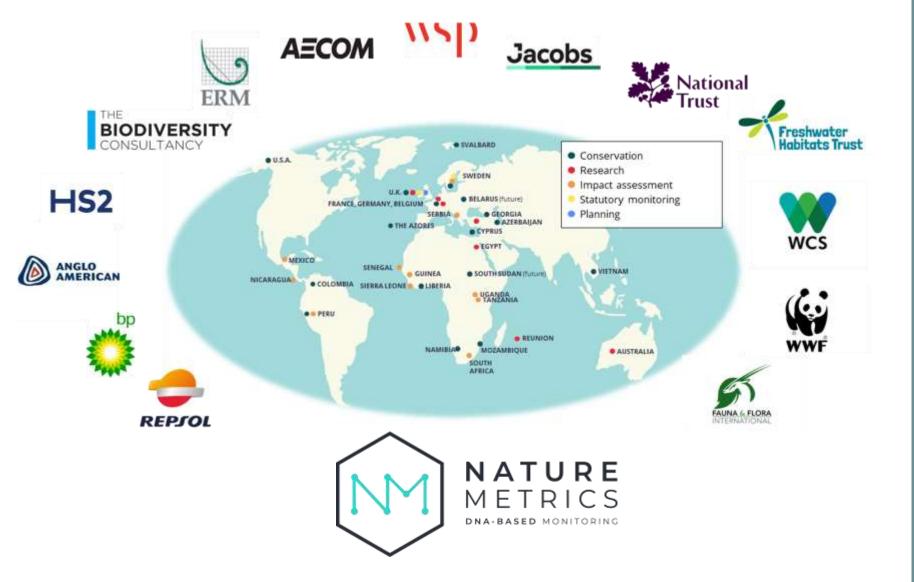


We are a leading eDNA company, providing data for impact assessment, restoration & conservation





80 employees

> 480+ Client orgs

#### End-to-end services for our clients

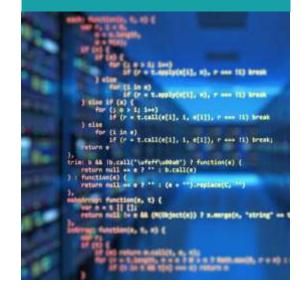
### Sampling kits for use by non-specialists



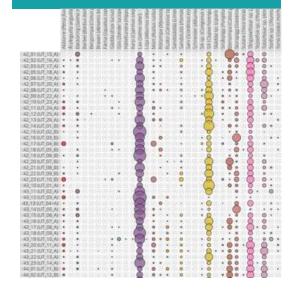
### Decades of molecular laboratory experience



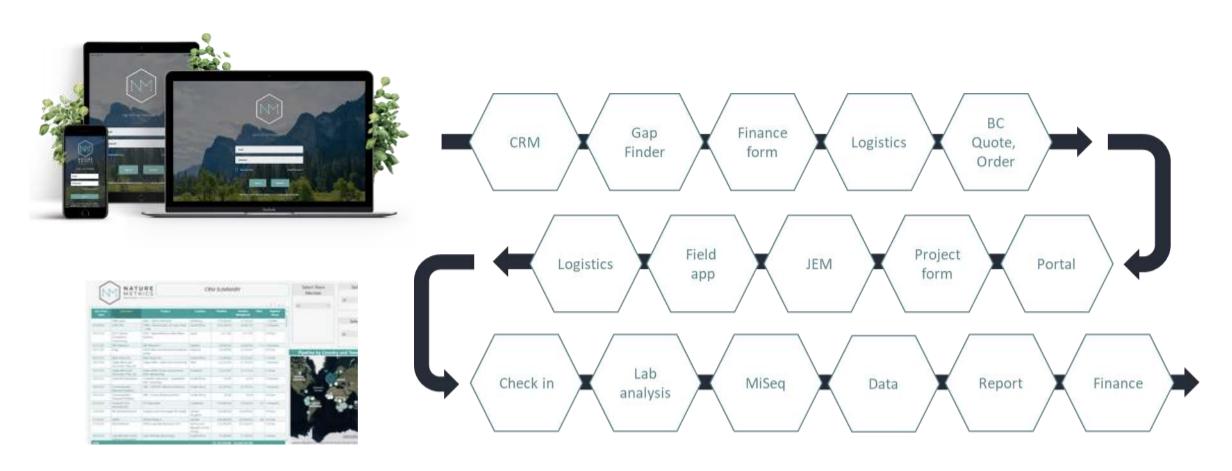
### Robust and replicable bioinformatics



### Professional tracking reporting system



The **Product Delivery Team** brings together people from teams across the business to ensure we deliver to a high standard.





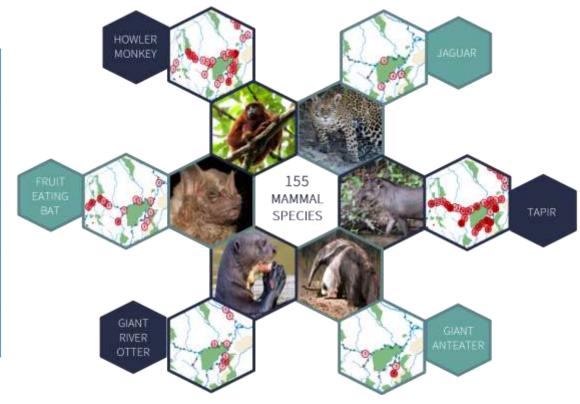
# RIVER DOLPHIN & eDNA SURVEY IN THE PERUVIAN AMAZON







Group	Species
Fish	375
Mammals	155
Amphibians	74
Reptiles	6
Birds	65







Testing the quality of data collected by citizen scientists

	Unwrapped					Wrapped				
	Emily	Jonny	Rozzy	Maia	Edwin	Mike	Tom	Jane	Kat	Kat2
European eel	٠		•	٠	•		•	•	•	٠
Spined loach	٠		٠	*	٠		٠	٠	٠	٠
Common bream	٠			٠	*			٠	٠	٠
Gudgeon	•	•	0	•	•	•	•	•	0	0
Dace/Orfe		•	•	•	0		•	•	0	0
Bitterling	0	0	•	0	0		•		0	0
Roach		0	•	0	0	•	0	•	0	0
Chub			٠	٠						٠
Tench			•				•	•		٠
Stone loach			٠	•	*			٠	•	
Northern pike			٠	*			٠	٠	٠	٠
Ruffe		٠	٠	٠	•	٠		٠	٠	٠
Perch/Zander	0	0	0	0	0	0	0	0	0	0
European bullhead					•	٠				
Mallard/Common shelduck			٠	٠	*	٠	٠		•	,
Duck species			٠	٠	•			٠	٠	0
Dove species			٠		¥			٠	٠	٠
Common moorhen	•		•			•			•	٠
Grey heron										
Water vole				*	*:	0			•	٠
Cow	٠		*	٠			*	٠		٠
Dog	0	0	0	0		*	0	0	0	٠
Human	0	0	0	0	0	0	0	0	0	0

Highlighted samples collected by expert for comparison

#### Freshwater eDNA in Liberia







Target: Pygmy Hippo Analysis: Vertebrates





- Samples collected by park rangers after short training
- Presence of pygmy hippos confirmed at 10 locations

- 165 other vertebrate species detected (aquatic & terrestrial)
- New country record of Tai Toad

Near-threatened	6
Vulnerable	6
Endangered	5
Critically Endangered	1



Scriptophyosemion schmitti
Passed on to IUCN and may
trigger a new KBA

#### Conservation and EIA projects across the region



#### Consistent data

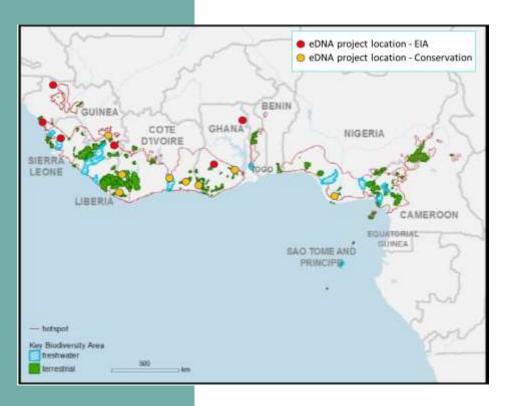
 Combine, compare & replicate across projects & locations

Biodiversity 'by-catch' shared between organisations

 address multiple objectives & optimise use of conservation resources

Samples routinely collected by local stakeholders

- builds engagement & stewardship
- Scales-up monitoring





Mapping the world's biodiversity using environmental DNA

**A PARTNERSHIP BETWEEN** 





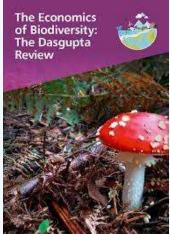
## BIODIVERSITY HAS A MEASUREMENT PROBLEM

Conventional surveys give patchy, inconsistent & incomplete data that is not fit for purpose

'Gold standard' data can be 100 years out of data

#### **eBi** Atlas













# ENVIRONMENTAL DNA (eDNA)

30,000 samples over 3 years









SEND

### **eBi**OAtlas







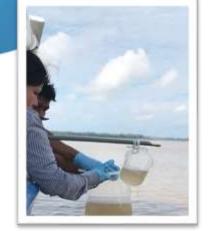












### **eBi** Atlas

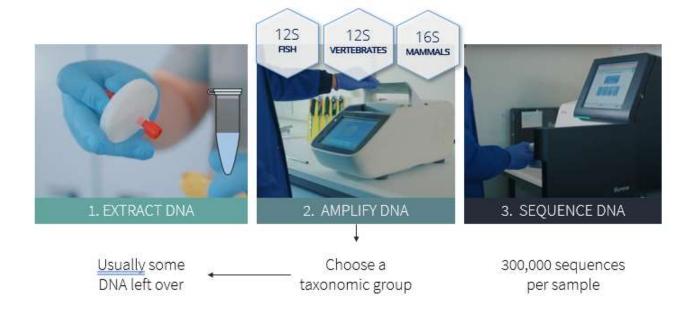


Global Biodiversity Framework









### \$15 M will fund:







30,000 eDNA samples



**Global reference library** 



**Equip local** stakeholders



**Digital** infrastructure



**Open data** 



**Sustainable financing** 





**IMPLEMENTATION** 

**RESEARCHERS** 

**BUSINESSES** 

**PUBLIC** 

**GOVERNMENTS** 

#### **Conduct field sampling**

Large international organisations as implementing partners





### **Smaller, local organisations**

as part of wider regional networks













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### Smaller, local organisations

as part of wider regional networks









#### **eBi**OAtlas



eBioAtlas TEAM

**IMPLEMENTATION** 

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**GOVERNMENTS** 

eDNA scientists can **add samples** & data to eBioAtlas as a route to impact for science & conservation

Access eBioAtlas data for research













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**GOVERNMENTS** 

**Sponsor sampling** opportunities in specific areas / river basins

Add site-based eDNA monitoring data from EIA as part of the eBioSite programme











**IMPLEMENTATION** 

**RESEARCHERS** 

**BUSINESSES** 

**PUBLIC** 

GOVERNMENTS

#### **Community science programmes**







**IMPLEMENTATION** 

**RESEARCHERS** 

**BUSINESSES** 

**PUBLIC** 

**GOVERNMENTS** 

**Integrate** eBioAtlas data into national biodiversity strategies







#### Securely store & curate data

- Sample info & metadata
- Quality control data
- Raw sequence data
- OTUs / ASVs

Label data & metadata
Integrate bioinformatics
Link to reference databases
Implement confidence thresholds



#### **OUR VISION**

By empowering local stakeholders to **monitor biodiversity** at previously unimaginable scales, we **address global knowledge gaps** and lay the **foundations** for meeting global goals on nature & biodiversity.





