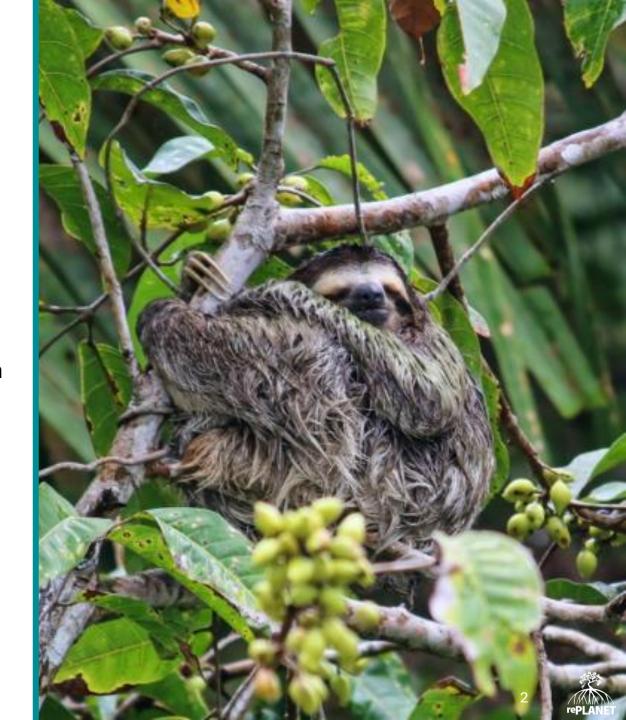


A for purpose company, driving large scale ecological restoration and protection through private sector funding

Paper and pulp industry carbon offsetting or insetting

Corresponding adjustments:

- Strong scientific evidence for the carbon pools
- 60% of baseline budgets benefiting local stakeholders (owners, users, managers) PLUS 60% of profits made on reselling the credits when issues
- Quantified biodiversity for co-benefits or issued as separate biodiversity credits





Quantifying community benefits

Issuance price

25 year budgets agreed based on an issuance price of around \$10 for carbon and \$5 for biodiversity.

A minimum of 60% of these budgets must benefit local stakeholders (owners, users and managers of the site)

Bonus payments

Over the 25 years the prices of carbon and biodiversity credits are likely to rise. If prices triple then the local stakeholders would only have had 20% of the value of the credits. So all contracts require 60% of any price rises over the issuance price is paid back as a bonus to local stakeholders

Benefits

Buyers can be confident that they won't be exposed in the media as having exploited local communities

Communities are protected against selling too early and ot getting benefits of future price rises

Governments see the scheme as equitable and are likely to approve carbon rights letters





Quantifying Biodiversity

Certificates

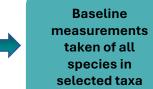
Organisation Name	ganisation Name Credit Name Organisation		Credit Name	
BioCarbon Registry Biodiversity Standard	Biodiversity Credit	Plan Vivo Pivotal-for-PV Nature	Plan Vivo Biodiversity Certificate	
Biodiversity Net Gain	Biodiversity Unit	Rebalance Earth	Nature Credit	
Botanic Gardens Conservation International	Biodiversity Impact Credit	recelio	Dynamic Biodiversity Token	
CarbonZ	CarbonZ Biodiversity Action Credit	Savimbo	Biodiversity Credit	
CreditNature	Nature Impact Token	Single Earth	MERIT	
EarthAcre	EarthAcre Restore, Nature Stewardship Credit	South Pole	Biodiversity Credit	
Ekos	Sustainable Development Unit	South Pole EcoAustralia	EcoAustralia™ Credit	
Environment Bank	Nature Share	Swedish University of Agricultural Sciences Biodiversity Credit		
ERA Brazil	Biodiversity Stewardship Token	Terrain NRM	Cassowary Credit	
GreenCollar NaturePlus™	NaturePlus™ Credit	Terrasos	Biodiversity Credit	
InvestConservation®	IC Token®	ValueNature	Nature Investment Certificate	
New South Wales Biodiversity Offset Scheme	Biodiversity Credit	Verra SD VISta Nature Framework	Nature Credit	
NewAtlantis Labs	Marine Biodiversity Token	Wallacea Trust	Biodiversity Credit	
Niue Ocean Wide Trust	Ocean Conservation Credit	WCS HIFOR	HIFOR Unit	
Open Earth Foundation Ocean Program	Marine Ecosystem Credit	Wilderlands	Biological Diversity Unit	
Organization for Biodiversity	Biodiversity Certificate			



Wallacea Trust Methodology Summary

Step-by-Step Overview of Biodiversity Credit Measurements

Choose
appropriate taxa
for measuring
biodiversity
(minimum of five)



Species weighted by importance based on scarcity and relative abundance on 5 point scales



Repeat surveys
using same
methods, sites
and effort to
calculate new
taxa scores

Median value of change multiplied by hectares gives number of biodiversity credits

Implementation of Taxa Score System



Taxa selection
designed to
reflect what
biologists would
use to assess
whether the
habitats had
improved

2

Recording all species in each selected taxa using standard effort, methods and sample sites



Rarest species score 5 and most common 1 for importance and a 5 for most common and 1 for least common for abundance



The scores for each taxa are calculated to reflect species richness, rarity levels and relative abundance



Each taxa will have changed by a different percentage value from the baseline. Median value used as overall measure of change



Credits issued
ex-post either
from uplift or
avoided
biodiversity loss
against a paired
development site

Strengths of The Methodology:

- Works in all ecoregions and habitats because it is a percentage increase over the baseline.
- Using complete taxa prevents any one species skewing the data
- Unit of biodiversity change defined as a 1% increase or avoided loss per hectare in the median value of a basket of metrics
- · Can be independently validated and verified by Biodiversity Futures Initiative
- Biodiversity credits can be used to quantify biodiversity gain in supplier chains, operated sites or as contributions to GBF 30 x 30 targets
- Biodiversity credits can be stacked with carbon credits if neither carbon nor biodiversity can fund the project



Calculating biodiversity units of gain

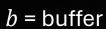
Number of claimable biodiversity units (BDC) is defined as:

$$BDC = b \times [B_{u}/B_{l} \times (A_{p} - l)]$$

Biodiversity credits = 0.8 X ((400 X (1944-0)) = 622,080



Metric	%age difference between paired development and project site		
Beetles	100		
Breeding birds	322		
Forest cover	400		
Reptiles	744		
Amphibians	744		





Credits produced by protecting Cusuco for 25 years

Credit type	Numbers	Price per credit	Income
Biodiversity	622,080	\$10	\$6,220,800
Carbon	524,180	\$10	\$5,241,800
Totals	1,146,260		\$11,146,260





Wallacea Trust biodiversity unit of gain methodology

- ✓ Works in all 1,500 ecoregions
- ✓ Quantifiable as a unit of uplift or avoided loss
- ✓ Can be independently validated & verified
- ✓ Can be issued as credits and traded using the same carbon credit architecture

Uplift
Credits issued ex-post

Same biodiversity metrics measured at start of new management programme and re-measured every 5 years

Avoided loss

Credits issued ex-post

Biodiversity metrics of site under threat of development is measured and compared against paired development site



Definition of a Unit of Biodiversity Change

"A unit of biodiversity change is a 1% gain per hectare in the median value of a basket of taxa that encompass the conservation objectives for the site and has permanence and additionality"

Companies reporting on investment towards their **nature positive targets** can quantify it as having achieved an average biodiversity gain of say **20% over say 2000 hectares in the last year**. This could be linked to global targets by identifying how much of that biodiversity gain was achieved in 30 x 30 estate sites.

Can be used to quantify the **overall biodiversity benefit** of expenditure on conservation projects.





Independent Verification of Claims

Academic peer review is required for the verification of biodiversity claims.

The **Biodiversity Futures Initiative (BFI)**, a grouping of academics from a range of universities, externally verifies biodiversity claims, offering:

- Stage 1 Reviews: Basket of metrics, methodologies and sampling strategy £2000
- Initial Pre-screening Option: £500
- Stage 2 Reviews: Audit of data sets, recalculations and issuance of certificates to confirm biodiversity gain £5000

Biodiversity credit issuance via registries (e.g. blockchain) or through traditional certification bodies.



 For carbon-led projects biodiversity quantified calculate biodiversity gain which is used to enhance the carbon prices

High quality mangrove restoration funding is about 90% carbon and 10% biodiversity

 Restoration of native forest funding is about 60% carbon and 40% biodiversity. In these cases, the biodiversity is either quantified to enhance carbon values or issued separately as biodiversity credits

 Funding not an issue because investors can get funding back after 5 – 9 years with an IRR of 12 – 15%

 For many high nature value projects, (restoration of grassland, open sea marine reserves (or where govts control the carbon then issuance of biodiversity credits is required

25 projects being developed in Costa Rica, Panama,
 Colombia, Mexico, UK, Romania, Spain, Indonesia



Market Ready rePLANET Projects

Countries	Number of Carbon Credits	Number of Biodiversity Credits	Carbon Credit Prices	Biodiversity Credit Prices
Costa Rica, Panama	10,000,000	6,500,000	\$10	\$5
Costa Rica, Indonesia, Mexico	6,000,000	1,800,000	\$45	\$5
UK	60,000	236,000	\$45	\$30
Ecuador	0	2,750,000	N/A	\$12
Anguilla	0	1,200,000	N/A	\$10
Spain	0	199,000	N/A	\$30
Egypt	0	336,900	N/A	\$5
Romania	484,000	420,000	\$25	\$18
Honduras	524,180	622,080	\$10	\$10
Mexico	1,750,000	600,000	\$8	\$15
	Costa Rica, Panama Costa Rica, Indonesia, Mexico UK Ecuador Anguilla Spain Egypt Romania Honduras	Countries Carbon Credits Costa Rica, Panama Costa Rica, Indonesia, Mexico UK 60,000 Ecuador 0 Anguilla 0 Spain 0 Egypt 0 Romania 484,000 Honduras 524,180	Countries Carbon Credits Biodiversity Credits Costa Rica, Panama 10,000,000 6,500,000 Costa Rica, Indonesia, Mexico 6,000,000 1,800,000 UK 60,000 236,000 Ecuador 0 2,750,000 Anguilla 0 1,200,000 Spain 0 199,000 Egypt 0 336,900 Romania 484,000 420,000 Honduras 524,180 622,080	Countries Carbon Credits Biodiversity Credits Credit Prices Costa Rica, Panama 10,000,000 6,500,000 \$10 Costa Rica, Indonesia, Mexico 6,000,000 1,800,000 \$45 UK 60,000 236,000 \$45 Ecuador 0 2,750,000 N/A Anguilla 0 1,200,000 N/A Spain 0 199,000 N/A Egypt 0 336,900 N/A Romania 484,000 420,000 \$25 Honduras 524,180 622,080 \$10

19,266,000

15,141,900

Totals



Monetizing Biodiversity

Biodiversity Net Gain. Landscape Recovery programmes enable private and public sector blending.

Carbon-led projects that are improving biodiversity are the easiest to sell.

Purpose Vehicle for ecosystem service rights which issues shares which represent either one carbon or one biodiversity credit to be issued on an agreed date is the best option. Credits issued on block chain. Allows multiple smaller philanthropic investors who spread the risk and receive biodiversity and carbon credits they can monetize in the future. This approach used for Transylvania and Scottish rewilding sites

Getting credits onto trading platforms by registering the SPV's with an ISIN number and then listing on the Swiss stock Exchange. This approach being used for the Galapagos project

Biodiversity Baseline Monitoring and Monetisation for Farms and Estates

rePLANET and Mozaic Earth have developed a:

"Biodiversity baseline monitoring package for farms and estates that costs £10,000"

Monitoring utilises:

- Artificial Intelligence (AI)
- Remote Sensing
- Metabarcoding
- Farm Team Training and Data Collection on the Mozaic App

Biodiversity quantification uses the **Wallacea Trust Methodology** and generates data in formats
submissible for **BFI Stage 2 Reviews**.



Biodiversity Baseline Monitoring and Monetisation for Farms and Estates





The Opportunity

Whilst food production remains the main income stream for most farms and estates, there is significant opportunity to monetise additional ecosystem services through biodiversity and carbon credits. Projects that demonstrate biodiversity uplift and carbon sequestration attract substantial interest from private sector investors.

Monetising ecosystem services requires baseline biodiversity quantification and external verification; this is critical for all biodiversity methodologies. So, how does one do this cost effectively and in formats accepted by verification bodies?



Our Solution

To overcome this challenge, **rePLANET**, in conjunction with **Mozaic Earth**, have developed a:

Biodiversity baseline monitoring package that costs £10,000* to quantify baseline farm and estate biodiversity in a format that can be submitted for a Biodiversity Futures Initiative 'Stage 2 Review'.

This high quality, verifiable package is at least **3X cheaper** than alternative site-based ecological surveys and it combines **AI with remote sensing, metabarcoding** and **farm team training** for data collection and ecological survey equipment usage.





Advantages of this approach: (1) Independent academic verification, (2) Quantification and verification in agreement with the leading biodiversity credit methodology. (3) Internationally recognised biodiversity credit generation.



The Monitoring Process

Professional ecologists co-ordinate the entire process remotely and package costs include:

- Provision of equipment for data collection (excl. smartphones)
- Farm team training for: data collection and Mozaic app use
- Expert ecologist data analysis (photos, audio files and trap samples)

The output provides data on **five metrics**: habitat structure (DEFRA biodiversity metric 4.1) and the species richness, conservation value and relative abundance of higher plants, ground beetles, pollinators and breeding birds. Data is then packaged for independent academic verification and biodiversity uplift quantification using the **Wallacea Trust Methodology**.



External Verification The Biodiversity Futures Initiative

The <u>Biodiversity Futures Initiative</u> (BFI), a grouping of academics from a range of universities, offers the **most cost effective** way of externally verifying the package's bicdiversity claims (e.g. project 'A' has achieved a 100% increase in biodiversity across 1000 hectares compared to the baseline).

BFI verified biodiversity uplift claims can be used to:

- Increase carbon credit sale price through quantification of their biodiversity co-benefits
- Generate separate biodiversity credits via a block chain registry
- Support corporate nature-positive strategies and reporting





For further information on whether this package is suitable for your site please contact Dr Max Bodmer

Telephone: +44 1790 763194

*Package assumes that the land is <500 hectares and that it can be stratified into a maximum of 5 habitats with 50 replicate quadrat photos taken once in May/June and again in July/August for higher plants, 40 X 5 day pollinator samples each month from May to September, 200 x 5 day pitfall trap samples, 100 x 10 minute audio recordings in May and June. Costs can be adjusted for larger sites or for those with more complex habitat structure.



OUR TEAM

rePLANET Senior Management



Dr Dan Exton Director of Strategy

Identifies and develops pipeline projects that fit rePLANET criteria | Engages funders and investors and works on overall strategy with the board of directors | 15 years of experience working on biodiversity research and conservation



Max Hobhouse Head of Strategic Finance

Leads on rePLANET business development | Former Renewable Investment Consultant | MSc in Climate Change, Management and Finance | Extensive experience in business strategy and TCFD reporting



Dr José António L. Barão-Nóbrega Director of Project Development & Analytics

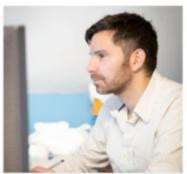
Leads on biodiversity credit applications and measurement reports, PDD development and rePLANET innovation | Extensive experience in satellite imagery analysis and herpetology | Leads GIS site screening to identify new projects

Board & Senior Management



Dr Tim Coles Director & CEO

Founder and Chair of Operation Wallacea | Founder of The Wallacea Trust | Established the Institute of Environmental Management and Assessment | BCA Taskforce Member | Over 50 publications on environmental impact assessment and management systems



Alex Tozer Director & COO

Leads on resource allocation, financial management and project appraisal | Extensive experience working with international partners and stakeholders



Dr Mathis Wagernackel Director

Co-Creator of the Ecological Footprint | Founder of Global Footprint Network | Winner of the 2018 World Sustainability Award, the 2015 IAIA Global Environment Award and the 2012 Blue Planet Prize



Isabel Hoffmann Director

Co-Founder and Equity Investor at rePLANET | Active Board Member of Tour du Valat Wetland Research Institute | Member of Scientific and Technical Committee of the Prince of Albert II Monaco Foundation



Louis de Montpellier Chair

Independent Beard Member and Senior Advisor of Pury Pictet Turrettini & Cie, Millennium Associated AG, GVE, Finance for Biodriversity | Former Global Head of State Street Global Advisors | Former Banking Department Deputy Head of Bank for International Settlements, Basel



rePLANET Board

Sir Charlie Burrell Vice-Chair

Chair of Carpathia in Romania | Chair of Nattergal | Mamber of the Advisory Board of Arcadia | Former Chair of the Board of Rewilding Britain | Rewilding Ploneer



Bernard Young Director

Corporate Strategist and Solicitor | Former APAC Strategy Lead for RICS | Former Capital Markets Lawyer with Baker & McKenzie | Business Strategist for Amazon Web Services



Angelo Salsi Director

Former European Commission Head of Department of 'Natural Resources, Climate, Sustainable Blue Economy and Clean Energy'