



Nature Based Solutions and Earth Repair

Nature-based solutions are actions to protect, sustainably manage, or restore natural ecosystems in order to address societal challenges and provide both human well-being and biodiversity benefits. Nature based solutions should be cost effective and commercially viable and can be applied at both local and regional scales. Earth Systems multi-disciplinary team of specialist scientists and engineers have extensive experience in the design and management of Projects that can deliver successful nature-based solutions and 'repair the earth' to drive positive sustainability outcomes at scale.

Natural capital underpins our economy, society and indeed our very existence. Nature-based Solutions are increasingly becoming recognised for their potential to address global biodiversity and climate challenges and restore critical natural ecosystems. Earth Systems has been developing nature-based solutions with our clients for more than 20 years and has recently established an 'Earth Repair' business group to capitalise on our expertise in this area and develop large scale nature-based solutions projects.

Examples of nature-based solutions projects include restoring wetlands, mangroves and terrestrial ecosystems to protect local communities and increase economic, social and biodiversity values. These projects are often medium to long term, require collaboration with a large range of stakeholders and present both financial and reputational risks if not well managed. Earth Systems has the expertise to help identify, design and guide nature-based solutions projects throughout their lifecycle with secured income streams (e.g. carbon / biodiversity credits) to support both ecosystem restoration and sustainable livelihoods for local partner communities.

SERVICES PROVIDED

Earth Systems can tailor our nature-based solutions service offerings to client needs. This includes support throughout the Project lifecycle from concept and business case development to Project implementation and Project closure. Key services include:

- Identifying suitable project types, landscapes and technology options for nature-based solutions project development.
- Planning and design of nature-based solutions projects with a focus on bankable projects that create positive environmental and financial returns on investment.
- Design and implementation of projects using approved methodologies to obtain carbon and biodiversity credit income.
- Facilitating early-stage investments for suitable projects.

- Technology utilisation and tools (including specialised tools developed in-house) for design, implementation and monitoring and verification.
- Evaluation of carbon/biodiversity credit business cases.
- Stakeholder engagement and management throughout the project life cycle.
- Provision of specialist project support studies such as Environmental and Social Impact Assessments, Critical Habitat and High Conservation Value (HCV) assessments, Community Benefits Assessments and application of Free, Prior and Informed Consent (FPIC) with partner communities.

PROJECT EXPERIENCE INCLUDES

- Technical Assistance for implementation of REDD+ Projects and Feasibility Studies in Kenya and Lao PDR
- Support for design and implementation of Projects obtaining carbon and biodiversity credits under the Verified Carbon Standard (VCS) and Climate, Community and Biodiversity (CCB) Standards in Sri Lanka, Lao PDR and Rwanda.
- Clean Development Mechanism (CDM) project registration and carbon purchase agreements for projects with clients in the hydropower, wind, biomass to energy and oil and gas sectors in Lao PDR, Papua New Guinea and Sri Lanka.
- Pilot restoration of riparian areas to demonstrate biodiversity, river health and community benefits in Lao PDR.
- Strengthening carbon project approval processes within government departments in Lao PDR, Sri Lanka and Fiji.
- Facilitating investment and purchase agreements with international buyers since 2008.
- Developing tools for land-based restoration projects including Project Identification and Mapping and Carbon Modelling tools.



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