# Environment

Biodiversity

#2025



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# Shaping the future through innovation and expertise, together.

# C/2MP455

QUADRANTE COMPASS GROUP

Meta Engineering

IZHARIA COMPASS GROUP









+ 1.200

People

38

Offices

+ 11.100

Projects

21

Countries

+ 105M

Revenue

4

Continents



### About us

In a world where progress often clashes with nature, we embrace our purpose by always leading engineering and architecture projects with its Total Design approach, seeking economically optimised, sustainable solutions of technical excellence. It is centred on our mission. Designing. Delivering. Adding Value.

We have proudly assumed a leading position in the Portuguese market through continuous work and dedication, becoming a multinational company in a world that constantly presents us with considerable, complex challenges.

Our approach is not limited to complying with standards; we think beyond them. We are agents of change in the world. We are Quadrante.

#### Our purpose

To partner with our clients in creating and building sustainable, responsible and long-lasting infrastructures for a better world.

As a multidisciplinary consultancy and design group in Engineering, Architecture, Environment and Sustainability, we take a holistic view of the construction sector and pursue an integrated and evolving approach to sustainability.

Our guiding values are based on the future, professionalism, ethics and flexibility. Through these values, we endeavour to attract and nurture talent, giving them unique opportunities for development.

# Message from our Senior Management Team

An independent, non biased and technically strong environmental and social (E&S) assessment is crucial for sustainable resource management, offering a structured framework to evaluate project impacts on both ecosystems and communities.

By identifying risks early in the planning phase, we develop strategies to avoid and/or mitigate negative effects, ensuring that projects protect natural resources and social systems. Our approach enables informed decision-making, optimising resource use, preserving biodiversity and safeguarding human health. From planning to decommissioning, we provide continuous monitoring and adaptive management to address environmental and social challenges at every stage. By embedding E&S assessments as a core component of project management, we ensure your projects meet regulatory requirements, minimise risks and enhance resilience. This comprehensive approach helps industries optimise resources, reduce costs, and lasting outcomes - ensuring both business success and environmental stewardship.

With proven expertise in E&S assessments across all project stages, our team is a trusted leader in Portugal and a prominent player internationally. We combine deep local regulatory knowledge with global best practices to ensure compliance and drive sustainability. Our tailored solutions address specific environmental and social challenges, positioning your projects for success while aligning with global sustainability goals. By partnering with us, you will certainly gain a team dedicated to delivering high-quality, forward-thinking assessments that add lasting value across diverse sectors and industries.

With our E&S expertise, supported by efficient project management, you can ensure that your projects are not only financially viable but also socially and environmentally responsible. We also have solid relationships with lending groups, which can help streamline the financing process and foster smoother collaboration with key stakeholders.

By partnering with us, you gain more than just advisory support — you gain a dedicated partner who is invested in your success and works relentlessly to help you achieve a successful, sustainable, and impactful outcome. Let us help you navigate the path to success with confidence and transparency. In today's evolving financial landscape, integrating E&S considerations is essential for securing funding and ensuring the long-term success of your projects. Our Environment Business Unit offers expert guidance to borrowers and project developers, helping you navigate the complex E&S requirements of international finance. From early-stage planning through project execution, we provide the tools and insights to ensure your projects meet the highest standards of sustainability and compliance. We are fully committed to being part of your winning process and do the extra mile to support you towards a favourable outcome.

We help borrowers and developers assess and manage E&S risks by aligning your projects with key international frameworks, such as the Equator Principles, IFC Performance Standards, and the UN Sustainable Development Goals. Whether you're pursuing financing for infrastructure, renewable energy, or other large-scale projects, our team supports you in minimising potential risks, securing investor confidence, and meeting regulatory obligations across multiple jurisdictions.



We understand the local specificities and cultures, ensuring that E&S strategies are tailored to fit the unique needs of each project.

We provide world-class biodiversity consultancy services that combine scientific excellence, regulatory expertise, and cutting-edge technology from the deepest deserts to the most remote offshore locations. From Al-powered BRUV monitoring and eDNA analysis to ecosystem services valuation and TNFD- aligned strategy, we support clients across the full project lifecycle with actionable, compliance-ready insights.

Our stakeholder-driven approach ensures biodiversity is not only measured, but meaningfully integrated into sustainable onshore and offshore development. Through co-designed solutions and nature-positive strategies, we help clients lead in environmental stewardship while meeting the highest global standards.

Powered by science, technology, and strategic foresight.

We don't just measure biodiversity - we help build projects that protect, restore, and enhance it.

- > Rodrigo Ferreira, Head
- > Margarida Abrantes, Operational Director
- > Inês Guerra, Client Manager
- > Susana Serra, Client Manager
- > Eurico Loureiro, Team Leader





## **Environment Business Unit**

Environmental consulting at Quadrante began in 2005, and since then, the team has experienced significant growth, that has enabled us to effectively meet the demands of the market, both in Portugal and internationally. Our highly skilled team has continuously refined its approach, applying robust methodologies across emerging sectors such as industry and mining, renewables, transportation, and real estate.

To date, our portfolio includes 481 projects completed in Portugal and 135 internationally, in regions such as Angola, Mozambique, Ivory Coast, Tanzania, Ghana, Gabon, Nigeria, Chile, Brazil, Ecuador, and Peru. With an annual revenue exceeding 7M€, we deliver services across seven key areas: Capital Project Support (ESG/Sustainable Finance/ EU Taxonomy); Resource Efficiency and Climate Change; Contaminated Land Management; Operational Performance; Risk Assessment; Land Use Planning and Digital Services (the Portuguese market is complemented by Industrial Licensing.

The Environmental BU currently consists of a dedicated team of over 40 consultants, experts in diverse areas of the physical environment, biodiversity, and social domains. We leverage cutting-edge digital technologies to support our Clients' decision-making in the financing and execution of their projects.

Offering consultancy services in Sustainability, Engineering, Digital, Architecture, Construction and Supervision for highly complex, multidisciplinary infrastructures, to highly demanding Clients.



## Services

As Portuguese project developers expand internationally, and with increasing recognition from lenders, Quadrante plays a pivotal role in providing E&S finance support throughout the entire project lifecycle. We deliver expert assessments and tailored strategies that ensure capital projects align with global sustainability standards, mitigate risks, and enhance investment bankability.

Our Environmental Unit's activities are fully aligned with the corporate mission and vision of the Compass Group, working in synergy with the Business Sectors of Energy, Sustainable Cities, and Mobility. This collaboration enables us to offer a consultancy service that blends engineering with our ethos of "Designing. Delivering. Adding Value. "We consistently uphold the Group's core values: High Standards, Determination, Respect, Collaboration, Integrity, Excellence, and Flexibility".

- Capital Project Support ESG / Sustainable Finance / EU Taxonomy
- > Resource Efficiency and Climate Change
- > Contaminated Land Management
- > Operational Performance
- > Risk Assessment
- > Land Use Planning
- Digital Services

## Support to Business Sectors

### Energy

Our multidisciplinary team is at the forefront of implementing decarbonisation and energy transition strategies. The services we provide in the energy sector include sustainable engineering and architectural solutions across the entire value chain: production, storage, transportation, and distribution of green energy.

At Quadrante, we offer support at all stages of a project's life cycle, from the design phase to industrial licensing, leveraging our in-depth technical and market knowledge and maintaining close relationships with regulatory bodies. We also engage in risk-sharing models with developers in the co-development of renewable energy projects, demonstrating our flexibility, agility, and ability to navigate challenging and highly uncertain processes.

## Mobility

Our services are based on the concept of Total Design, which takes a holistic approach to projects by considering their needs and impacts, ensuring that the infrastructure contributes to decarbonising and reducing the ecological footprint and enables a more sustainable future for the communities affected.

We offer a full spectrum of services across all stages of infrastructure development, including planning, feasibility studies and determination of CAPEX/OPEX, design, procurement, construction supervision, operation, maintenance, and consultancy. We help our Clients with a comprehensive approach to identifying red flags, optimising solutions, and managing risks associated with transportation infrastructure.

## Sustainable Cities

We are totally committed to creating harmonious and sustainable urban environments that are accessible, equitable and prepared for change and designed for the future. Our Sustainability Certification services help Clients to design their strategy, while our Circular Economy Consultancy makes it possible to reduce the environmental impact of operations, optimise resource usage and promote a sustainable life cycle for products and services.

We recognise the vital importance of water resources, and we offer consultancy and design services for water utilities and resources, with a commitment to developing systems that meet people's current needs and guarantee their future viability.

At city level, we support our Clients to create solutions, providing consultancy and design services for land use and urban infrastructure, with a functional design and accessible spaces, with optimised responses in line with the principles of sustainable development.



# Bridging Engineering and Environment: A Unified Approach

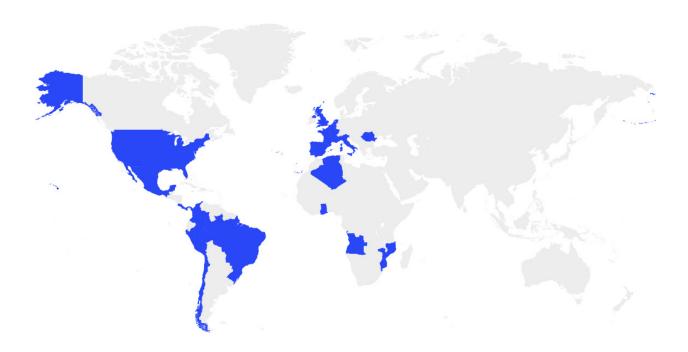
- > Integrated Planning and Design: Holistic approach; reduced rework
- **> Improved Communication and Coordination:** Single point of contact; faster decision-making
- > Cost Efficiency: Cost savings; bundled services
- Consistency in Reporting and Compliance: Regulatory alignment; avoiding conflicting interests
- Tailored Impact Mitigation Measures: Engineering-informed mitigation; proactive problem-solving
- > Faster Project Delivery: Shorter timelines
- Enhanced Risk Management: Coordinated risk mitigation; reduced accountability gaps
- Innovation and Flexibility: Synergistic Science-based solutions; adaptive design
- > Aligned Goals: Unified project vision; single vision on Client's perspective

# Why Quadrante on **Biodiversity**?

- Scientific Integrity: Core staff with PhDs and decades of global project leadership
- Digital Intelligence: Cutting-edge biodiversity tech and remote sensing integration
- > Global Agility: Active across Europe, Africa, and South America
- > Multilateral Experience: Proven delivery under IFC, IDB, EIB, and other DFIs
- Trusted Partnerships: Strong subcontractor network and institutional collaborations
- **Deployment-Ready:** Field logistics, mobile labs, and long-term team placement capabilities



## Geographies and Markets



Our international projects have predominantly been focused on the African and South American markets. As of January 2025, we have successfully delivered 135 projects, with 117 of these located across Africa, a significant portion of which are lender-driven.

In the Portuguese-speaking African countries (PALOP), the Environment BU has completed 103 projects, with notable emphasis on Angola and Mozambique. Our resident teams, complemented by the support of our central offices, have cultivated strong, collaborative relationships with local E&S companies, regulators, and a wide range of stakeholders. This unique synergy empowers us to navigate complex, high-stakes projects while maintaining an unwavering commitment to exceptional quality, on-time delivery, and strict budget adherence - a seamless blend that optimizes our Clients' strategies across the continent.

Through continued learning improvement of our technical approaches, we consistently meet stringent deadlines, leveraging a powerful combination of expertise and experience to address key priorities. Our adherence to both national regulatory frameworks and international best practices throughout the project lifecycle ensures compliance at every stage. Coupled with a wide range logistical network that facilitates operations in remote locations for extended durations, we stand as a privileged and trusted partner, strategically positioned to support the success of your projects.

#### Our numbers

Consultants

| 616<br>Projects in Total         | + 42M€<br>Revenue since<br>2005   |
|----------------------------------|-----------------------------------|
| 135<br>International<br>Projects | <b>7M€</b><br>Annual Revenue      |
| + 230<br>Clients Globally        | 8.5M€<br>New Contract<br>Annually |
| + 40                             |                                   |

## Our Clients

GAUFF Engineering



ANA -Aeroportos de Portugal





Enel Green Power



INZAG Germany GmbH



CCECC



Alves Ribeiro Construção



Mota-Engil

**MOTA-ENGIL** 

MCA Group



Conduril SA



Casais Group



Karadeniz Holding



Saesa Group



Cabo Verde Airports



rmeta Sustainability Meta

DP World Luanda



GIM-UEMOA



Total Energies





Savannah Resources Plc



Statkraft



Lightsource bp



Iberdrola



Galp



Standard Chartered



KFW IPEX-Bank



BBVA



African Development Bank Group



IFC



EXIM Bank



Euler Hermes



UK Export Finance



**Bpifrance** 



Proparco



ekn



Cesce



# Biodiversity & Ecosystem Services - A Strategic, Science-Based Offering

# Understanding Biodiversity and Ecosystem Services

Biodiversity underpins essential ecosystem services such as climate regulation, water purification, food security, and coastal resilience—services critical to global infrastructure, community well-being, and long-term development. Global frameworks such as the Convention on Biological Diversity (CBD), the Kunming-Montreal Global Biodiversity Framework, and the EU Biodiversity Strategy for 2030 stress the urgency of conserving and restoring biodiversity.

At Quadrante, we operate in Europe, Africa, and South America, addressing biodiversity challenges in terrestrial, coastal, and deep-sea ecosystems—across sectors including offshore wind, port logistics, mobility infrastructures, urban development and oil & gas.

#### Our work is grounded in:

- PhD-level scientific leadership in onshore and offshore biodiversity management,
- Direct experience managing complex biodiversity projects worldwide
- > Technical proficiency in data capture, ecological modeling, and geospatial analytics

We bring together science, systems thinking, and strategy to deliver biodiversity services that go beyond compliance—establishing a standard for nature-positive, bankable infrastructure.

# IFC Performance Standard 6, IUCN Guidance, and Biodiversity Risk Management

#### All our biodiversity services align with:

- > IFC Performance Standard 6 (PS6),
- > IUCN guidelines
- National biodiversity regulations across our key geographies.

## Our teams apply structured, scalable, and science-backed methodologies in:

- Natural and Critical Habitats: including Natura 2000 sites (Europe); Atlantic Forest and Amazon (South America); Tropical forest, savannas, mangroves and coastal wetlands (Africa)
- Key Biodiversity Areas (KBAs) and marine protected areas, relevant to offshore wind, port dredging, and subsea oil & gas infrastructure

#### Core Services Include:

- > Desktop baselines and GIS-enabled ecological modeling
- Seasonal biodiversity field assessments (including boat and aerial surveys) and innovative Environmental DNA sampling
- > Critical Habitat Assessments (CHAs)
- > Net loss/net gain and mitigation hierarchy planning
- Biodiversity Action Plans (BAPs), Biodiversity Monitoring and Evaluation Plans (BMEP)
- > Biodiversity offsets and restoration design
- > Long-term monitoring using drones, ROVs, BRUV with AI, and acoustic sensors
- > Invasive Alien Species (IAS) management

We ensure full QA/QC compliance, adherence to data governance standards, and scientific reproducibility. Our workflows integrate biodiversity performance into environmental impact assessments (EIA), ESG strategy, and regulatory submissions.

# **Biodiversity Services for Compliance** and Sustainability

#### We enable organizations to meet the requirements of:

- > IFC PS6, World Bank ESF, and regional E&S frameworks
- > EU Biodiversity Strategy for 2030, CSRD, and SFDR
- > Science-Based Targets for Nature (SBTN)
- Taskforce on Nature-related Financial Disclosures (TNFD) using the LEAP approach
- > UN Sustainable Development Goals (SDGs) particularly SDG 14 (Life Below Water) and SDG 15 (Life on Land)

#### We support infrastructure and resource clients in:

- > Habitat restoration and ecological connectivity design
- > Nature-based climate adaptation and resilience planning
- > Climate-biodiversity co-benefit modeling and reporting
- > Sustainable marine and terrestrial land-use planning
- > Applying international indicators (e.g., STAR, EBVs) in biodiversity reporting

We work across project life cycles—from feasibility and permitting to operations and decommissioning—embedding biodiversity into adaptive environmental and social management systems (ESMS).



#### **Commitment to Global Biodiversity Goals**

#### Our operational model reflects a strong alignment with:

- > The EU Green Deal
- > The Kunming-Montreal Global Biodiversity Framework
- > Post-2020 biodiversity targets
- National Biodiversity Action Plans (NBAPs) in Brazil, Angola, Mozambique, Portugal, and more

Our staff has led biodiversity components in globally financed infrastructure by:

- > IFC, IDB, EIB, AfDB, and other development finance institutions (DFIs)
- > Private sector multinationals with robust ESG mandates
- > National governments and bilateral cooperation programs

Our projects are built on credible science, implemented through inclusive stakeholder engagement, and evaluated with independent third-party assurance when required

#### **Sector-Specific Expertise and Case Applications**

We deliver biodiversity services in diverse regulatory and ecological contexts:

#### Offshore Wind

- Marine Megafauna biodiversity baselines using drones, vessels, aerial surveys and C-PODs
- > Marine mammal mitigation and seabird migratory corridor planning
- Marine mammal, seabird, and marine turtle abundance estimates and distribution modelling
- > PS6 and EU Habitats, Birds, and Marine Strategy Framework Directives (MSFD) compliance
- Habitat restoration and long-term marine monitoring using BRUV with AI-enabled video analysis and eDNA

#### **Ports and Dredging**

- Marine biodiversity baselines using eDNA, BRUV and ROV technologies in turbid estuarine waters
- > Real-time turbidity, sedimentation, and benthic impact modeling

#### Oil & Gas

- Deep-sea ecological assessments using Baited Remote Underwater Video systems with AI for non-intrusive species detection
- > Habitat quality analysis and biodiversity net gain planning
- Long-term monitoring aligned with licensing and ESG reporting standards

Our multidisciplinary team brings proven global leadership in projects that require high scientific standards, geopolitical sensitivity, and ecological stewardship.

## Innovation, Capacity Building, and Stakeholder Engagement

#### Digital Innovation in Biodiversity Monitoring

We apply cutting-edge technologies to deliver precise, efficient, and transparent biodiversity insights:

- > Al-powered species identification and acoustic recognition
- Drone, Plane, ROV, and Baited Remote Underwater Video (BRUV) systems enhanced with Artificial Intelligence for marine monitoring
- eDNA analysis for rapid, non-invasive biodiversity detection in aquatic and terrestrial environments
- > IoT-enabled sensors for environmental data logging
- GIS-integrated dashboards for real-time reporting and stakeholder access

Our AI-enhanced BRUV systems allow for:

- > Rapid, standardised assessments of demersal, pelagic, cryptic, and rare species across diverse marine environments
- Scalable biodiversity data to support fisheries management,
   CHAs, BAPs, and net gain assessments

#### Stakeholder Engagement & ESG Integration

We lead inclusive stakeholder processes with:

- > Local communities, Indigenous Peoples, and government agencies
- > NGOs, environmental authorities, and scientific partners
- > Companies reporting to TNFD, CDP, and GRI standards
- Collaboration with academic institutions across Portugal, Africa and Latin America

Fisheries Engagement Focus:

- Mapping overlaps between biodiversity impacts and fishing zones (AIS data)
- > Engaging artisanal and commercial fishers in project planning
- > Designing compensation and co-management solutions
- Using BRUV video data to communicate impacts and validate species presence transparently



# Biodiversity #Onshore



#### **Integrated Terrestrial Baseline Studies**

Delivering ecological baselines that underpin sustainable land-use decisions and regulatory approval.

- > Habitat and species surveys aligned with EUNIS classifications and Natura 2000 requirements
- > eDNA, camera traps, and Al-enhanced acoustic sensors for comprehensive biodiversity detection
- > Ecological connectivity and corridor assessments to support Green Infrastructure planning
- > Multi-season biodiversity inventories tailored to IFC PS6 critical habitat criteria
- > Ecosystem service baselining (e.g., pollination, carbon storage, water regulation)
- > Integration with national and EU-level biodiversity data (e.g., EEA, Copernicus)

#### Strategic Environmental G Biodiversity Impact Assessment (EIA/ESIA)

Providing robust, defensible assessments aligned with EU directives, IFC PSC, and the Equator Principles.

- > Full lifecycle delivery of EIAs and ESIAs for infrastructure, energy, agriculture, and extractives
- > Critical habitat screening and impact assessments under IFC PS6 and EU Habitats/Birds Directives
- > Cumulative and transboundary biodiversity impact modeling
- > Ecosystem service impact evaluation and socio-ecological trade-off analysis
- Development of mitigation hierarchy strategies, Biodiversity Monitoring and Evaluation Plans (BMEP) and Biodiversity Action Plans (BAPs)
- Stakeholder-informed biodiversity assessment, aligned with Equator Principles' due diligence protocols

#### Monitoring, Compliance & Adaptive Management

Ensuring regulatory compliance and biodiversity performance through real-time data and adaptive frameworks.

- Long-term biodiversity monitoring programs aligned with Nature Restoration Law and IFC PS6 Management Plans
- > Al-enabled sensor networks (camera, acoustic) and eDNA for species and habitat tracking
- > Restoration monitoring and early warning for habitat degradation or invasive species
- Integration of ecosystem service indicators into Environmental and Social Management Systems (ESMS)
- Compliance audits to meet lender requirements (Equator Principles IV, performance monitoring clauses)

#### Spatial Planning, Restoration & Nature-Based Solutions

Designing resilient land-use strategies that protect biodiversity and support restoration goals.

- > Spatial planning aligned with EU Biodiversity Strategy 2030 and Green Infrastructure Framework
- > Connectivity mapping and restoration targeting for ecological networks and buffer zones
- > Scenario modeling for land-use impacts, restoration trade-offs, and offset feasibility
- > Development of nature-based solutions (e.g., afforestation, erosion control, water retention)
- > Restoration planning aligned with EU Nature Restoration Law and LIFE Programme priorities





#### Permitting, Regulatory Strategy & Policy Advisory

Navigating complex legal landscapes to secure compliant, finance-ready biodiversity approvals

- > End-to-end support for biodiversity licensing and permitting (local, national, EU)
- > Documentation aligned with Equator Principles, IFC PS6, and EU EIA Directive
- > Preparation of Critical Habitat Assessments and offset feasibility studies
- $\,igcep$  Ecosystem services integration into EU Taxonomy and TNFD-aligned disclosures
- > Policy advisory for clients seeking to align with CAP eco-schemes, LIFE, and Green Deal incentives

#### Biodiversity Strategy, ESG Integration & Finance-Linked Advisory

Aligning biodiversity with ESG mandates, nature risk disclosure, and sustainable investment frameworks.

- > Corporate biodiversity strategy development aligned with IFC PS6, TNFD, and EU CSRD
- > Design and implementation of Biodiversity Net Gain (BNG) strategies and KPIs
- > Natural capital valuation and ecosystem service accounting (SEEA EA, ENCORE)
- > ESG-aligned biodiversity integration for Equator-compliant projects
- > EU Sustainable Finance guidance (e.g., SFDR, EU Taxonomy, Green Bonds)
- > Integration of biodiversity risk and opportunity into corporate and lender reporting

#### Innovation, Technology & Applied Ecology

Applying frontier science and digital tools to enhance biodiversity intelligence and performance.

- > Al-powered biodiversity monitoring: camera traps, drones, acoustic sensors
- > Soil health and microbial diversity analysis via metagenomics
- > Predictive species distribution and habitat degradation modeling
- > Custom biodiversity dashboards and data platforms for ESG, TNFD, and lender reporting
- > Participation in European R&D (e.g., Horizon Europe, Biodiversa+) and biodiversity digital twins



#### Stakeholder Engagement, Co-Design & Capacity Building

Ensuring inclusive, locally embedded biodiversity governance and outcomes.

- > Stakeholder mapping and culturally sensitive engagement (e.g., Indigenous groups, rural communities)
- > Co-creation of biodiversity management plans and ecosystem service prioritization
- > Participatory mapping of spiritual, recreational, and cultural ecosystem services
- > Science communication and public outreach aligned with EU Biodiversity Awareness goals
- > Capacity building for public agencies, NGOs, and local monitors using open-source biodiversity tools
- > Community benefit strategies linked to biodiversity offsets and nature-based solutions

#### **Optional Modules & Cross-Cutting Expertise**

- > Restoration Ecology & Monitoring: Wetlands, peatlands, forests, and grasslands
- > Agroecological Biodiversity: Integrating biodiversity into sustainable agriculture (CAP Pillar II)
- > Urban Nature Integration: Blue-green infrastructure, ecological corridors, and EU climate adaptation plans
- > Natural Capital Reporting: For banks, investors, and corporates aligned with Equator Principles IV
- > EU Policy Scanning: Tailored support for alignment with emerging biodiversity and sustainability legislation

# Biodiversity #Offshore



#### **Advanced Environmental Baseline Studies**

Establishing robust, defensible ecological baselines as a foundation for offshore decision-making.

- > High-resolution habitat mapping (multibeam sonar, ROV, satellite remote sensing)
- > Oceanographic profiling (ADCP, CTD, turbidity, nutrients)
- > Benthic and pelagic community structure analyses
- > Al-enhanced BRUV (Baited Remote Underwater Video) for automated species detection, abundance estimation, and habitat associations
- Integrated seabird, turtle, and marine mammal presence/abundance surveys (drone, vessel and plane) and distribution models
- > Seasonal and interannual variability assessments
- > Baseline valuation of ecosystem services (e.g., fish nursery areas, carbon sequestration, water purification)

#### Strategic Environmental & Biodiversity Impact Assessments (EIA/SEA)

Comprehensive, transparent assessments aligned with global environmental governance standards.

- > End-to-end EIA/SEA design and delivery, compliant with IFC PS6, EU EIA Directive, and national law
- Cumulative and transboundary impact modelling using biodiversity layers (including Potential Biological Removal –PBR- analysis
- > Ecosystem services impact evaluation and trade-off analysis (e.g., fisheries, carbon storage, recreation)
- > Application of mitigation hierarchy and design of no-net-loss / BNG strategies
- > Use of BRUV+AI outputs to strengthen impact significance analysis
- Targeted stakeholder engagement strategies integrated into EIA processes (e.g., local fisheries, NGOs, indigenous groups)

#### Monitoring, Compliance & Adaptive Management

Data-driven, AI-enabled biodiversity surveillance to manage risk and maintain ecological performance.

- > Long-term ecological monitoring frameworks using adaptive management principles
- > Autonomous BRUV systems with cloud-based analytics for ongoing faunal and habitat tracking
- > Passive Acoustic Monitoring (PAM) for marine mammals and anthropogenic noise
- > Fisheries interactions and bycatch monitoring
- Invasive species early detection networks
- > Periodic reassessment of ecosystem service provisioning and restoration effectiveness

#### Marine Spatial Planning (MSP) & Decision-Support Tools

Spatially intelligent solutions that prioritize ecological resilience and stakeholder value.

- > Ecosystem-based marine spatial planning using biodiversity and service provision layers
- > Predictive modelling of critical habitats and biodiversity hotspots
- Mapping of ecosystem services such as provisioning (fisheries), regulation (carbon), and cultural (tourism, heritage)
- > Stakeholder-informed marine zoning and conflict analysis
- > Interactive web-based GIS tools and decision platforms





#### Permitting, Compliance & Biodiversity Policy Advisory

De-risking projects by guiding clients through complex biodiversity regulatory landscapes.

- Regulatory mapping for offshore biodiversity compliance (e.g., Habitats Directive, CBD, Marine Strategy Framework Directive)
- > Permitting strategy design and delivery, including BAPs, BMEPs, HRAs, and biodiversity offset plans
- > Support with nature-related financial disclosures (TNFD) and Environmental Due Diligence (EDD)
- > Use of BRUV+AI-derived indicators and ecosystem service trends in permitting documentation
- > Engagement with statutory bodies and biodiversity-focused NGOs

#### Biodiversity Strategy, ESG Integration & Nature-Positive Transition

Enabling clients to lead on nature through actionable, science-based ESG commitments.

- > Corporate biodiversity strategy development aligned with Global Biodiversity Framework (GBF) and TNFD
- > Design and monitoring of Biodiversity Net Gain (BNG) and nature-positive portfolios
- > Nature risk and dependency assessments via ecosystem services mapping and modeling
- > Biodiversity footprinting and KPI tracking
- > Supply chain biodiversity risk analysis (including indirect ecosystem service impacts)
- > ESG reporting aligned with CSRD, SASB, and SBTN

#### R&D and Emerging Technology for Biodiversity

Pioneering marine ecological innovation to transform environmental intelligence.

- > Al-enhanced BRUV monitoring platforms with automated species recognition and behavior detection
- > eDNA and metagenomics for cryptic species and bioindicator tracking
- > Integration of satellite and drone imagery for dynamic habitat classification
- > Machine learning pipelines for acoustic data, video annotation, and ecosystem modeling
- > Innovation partnerships with academic institutions, global NGOs, and indigenous knowledge holders





#### Stakeholder Engagement, Co-Design & Capacity Building

A core pillar of world-class biodiversity work: transparency, equity, and collaboration.

- Stakeholder mapping and influence/interest analysis (e.g., local communities, indigenous groups, small-scale fisheries)
- > Co-creation of biodiversity objectives, indicators, and monitoring frameworks
- > Facilitation of participatory mapping for culturally or ecologically significant areas
- Training programs for local agencies, NGOs, and project teams on biodiversity tools and governance (e.g., BRUV+AI dashboards, ecosystem service modeling)
- **>** Development of communication materials and engagement plans tailored to multilingual, multicultural audiences
- Inclusive design of restoration and offsetting projects to ensure equitable distribution of ecosystem services

#### **Optional Modules & Specializations**

- > Blue Carbon Advisory: Valuation, MRV, and integration of ocean carbon sinks (e.g., seagrass, macroalgae)
- > Natural Capital Accounting: Quantifying biodiversity and ecosystem services for finance and policy
- Marine Ecosystem Restoration: Feasibility, design, and monitoring (e.g., oyster beds, kelp forests, artificial reefs)
- Conflict Resolution & Grievance Mechanism Design: Particularly for shared marine resource use and ecosystem service trade-offs

## Digital

### Living in a Digital Ecosystem

We truly understand that technology and digitalisation are much more than just process enablers. They are new ways of thinking and connecting.

We truly understand that technology and digitalisation are much more than just process enablers. They are new ways of thinking and connecting. At Quadrante, we deliver more value to our Clients based on new digital solutions. Aware of the fast pace in the world, we face the complex challenges that the future presents us with. As digital transformation forerunners, we are constantly building, training and learning to get the most out of our solutions, supporting our Clients to make the best possible decisions.

At Quadrante, we recognise that technology and digitalization are not merely tools for process optimisation, rather authentic transformative forces that redefine how we think, connect, and innovate. We leverage cutting-edge digital solutions to create substantial value for our Clients, equipping them to navigate the complexities of an increasingly fast-paced world. As leaders in digital transformation, we continuously evolve - building expertise, fostering innovation, and embracing new learning opportunities. This allows us to maximise the potential of our solutions, empowering our Clients to make informed, strategic decisions and stay ahead in an ever-changing landscape.

Within the E&S space we developed a set of tools, methods, approaches, and automatic reporting that certainly support decision making, showing/showcasing multi format data and monitoring performance on a project and portfolio basis. A comprehensive package of solutions was designed, tested and rolled-out on multiple complex projects – **Project Database**, **Geospatial Analysis**, **Site Survey**, and **Site Survey Information Processing**.

Our online GIS platform, GeoVision, aggregates these solutions. GeoVision is designed to enhance our engineering services by providing high-quality, diverse data accessible to

all stakeholders. It integrates advanced multi-criteria analysis tools and modelling packages within dynamic geospatial visualisations. The platform consolidates real-time data from multiple sources, displayed through interactive maps and custom dashboards, offering tailored project insights. It supports a multi-project approach, enabling efficient data management and comprehensive documentation storage, ideal for organisations managing multiple initiatives.

To maintain data integrity and prevent duplication, all information is validated before being shared. The platform centralises foundational data, which undergoes rigorous quality control to ensure accuracy. This ensures internal and external teams can access and share information according to predefined methodologies and formats, maintaining consistency across the project.

This WebGIS service facilitates smooth collaboration between Quadrante teams and project proponents throughout the project lifecycle, with a focus on data validation and correction in the early stages. This ensures the project progresses smoothly, supporting content production and result dissemination via advanced output models.

Graphical representations are organised to reflect adjacency, connectivity, and contiguity, adhering to cartographic standards and Territorial Management Instruments. Scales are calibrated to accurately depict environmental factors, with detailed scales used where necessary, ensuring precision and clarity in all visual outputs.

#### **GeoVision Platform Features**

- Designed to enhance our services and support our Client's projects | High quality and diversified data | The platform supports a variety of data types, enabling organisations to integrate and visualise geographic and project-specific data seamlessly.
- A platform that allows us to provide unique engineering services | Project Insights | With customisable dashboards, users can tailor their views to reflect the metrics and data most relevant to their projects, enhancing both monitoring and decision-making processes.
- > Geodata insights accessible to all stakeholders | Project portfolio approach | The platform adopts a multi-project approach, allowing for both segregated and consolidated data management, ideal for enterprises handling multiple simultaneous initiatives. Each project team can access distinct data sets as needed or combine data from multiple sources for overarching analyses.
- > Real time data showcased online | Real time data | The platform is engineered to connect to external data sources in real time, ensuring that the information you work with is always updated and comprehensive.
- > Documentation storage available online | Documentation Storage | Embedded documentation storage provides a central repository for all project documents and reference materials, directly accessible within the platform.
- > User friendly and fit for purpose navigation | Project data navigation | The platform's project main page is the command centre for geospatial data analysis, offering multiple configurable map views and dashboards that are directly linked to geodata or live real-time data sources.

- Each user can have a highly personalised and efficient workspace by optimising the layout to best suit their analytical needs and workflows.
- Advanced geospatial analysis & simulation | Multicriteria analysis | For those requiring deep analytical capabilities, the platform includes customisable application features such as multi-criteria analysis tools. These tools allow users to weigh and assess various factors, providing nuanced insights that support complex decision-making.
- > Advanced geospatial modelling | Modelling features |
  The platform enables the embedding and execution of
  various specialised modelling packages. The application
  can integrate hydraulic, electrical, or other model types
  and combine them with geodata, dynamically displaying
  the models within your maps and dashboards.
- High level of customisation & advanced analytical capabilities | Project progress tracking support | The platform also offers project progress tracking. Users can monitor project advancement through dashboards configured to read and interpret data from both geospatial data sources and other external sources, providing a comprehensive view of the project's status in real-time.



https://geovision.quadranteglobal.com



#### Capital Project Support - ESG / Sustainable Finance / EU Taxonomy

| 2025      | Tosyali Angola    | Angola            | Energy             | Scoping and ESIA for a Steel Factory in Namibe.   |
|-----------|-------------------|-------------------|--------------------|---|
| 2025      | Casais Angola     | Angola            | Sustainable Cities | Scoping and ESIA for the Quilonga 2 Water Supply Project in Luanda.                                       |
| 2025      | Casais Angola     | Angola            | Sustainable Cities | Scoping and ESIA for the Multiperfil Clinic Expansion, Luanda.  |
| 2025      | Maprise S.A.      | Spain             | Energy             | Bankable Feasibility Study for the La Tiesa<br>Mine – Environment.  |
| 2025      | PROEF/RAXIO       | Angola            | Energy             | ESIA for the Medium Voltage TL between Data<br>Centre and the Cacuaco Substation, Luanda.                 |
| 2024-2027 | Gauff Engineering | Angola            | Mobility           | Mussende-Andulo Road Rehabilitation ESAP Monitoring.  |
| 2024-2025 | Conduril SA       | Angola            | Sustainable Cities | Scoping and ESIA for the Water Supply System in the Agropastoral Region of Porto Amboim.                  |
| 2024-2025 | Gauff Engineering | Angola            | Sustainable Cities | Resettlement Framework and Action Plan for the Water Supply Project Quilonga 1.                           |
| 2024-2025 | Gauff Engineering | Angola            | Sustainable Cities | Human Rights Risk Assessment for the Water<br>Supply Project Quilonga 1.                                  |
| 2024      | MCA Angola        | Angola            | Sustainable Cities | ESIAs for 50 Water Supply Projects Across Angola.   |
| 2024-2025 | Conduril SA       | Angola            | Mobility           | E&S Screening, Governance and Management<br>Plans for the Construction of 182 Bridges<br>in Angola.       |
| 2024      | BCDAO             | Senegal Iv. Coast | Energy             | Scoping for BCDAO Headquarters and 3 Data<br>Centres in Dakar and Abidjan.                                |
| 2024-2025 | Gauff Engineering | Ivory Coast       | Sustainable Cities | Scoping for the Phase I of the Sanitation and Drainage Master Plan of the Autonomous District of Abidjan. |
| 2024      | Tyllium S.A.      | Senegal Iv. Coast | Energy             | Scoping for BCDAO Headquarters and 3 Data<br>Centres in Dakar and Abidjan.                                |
| 2024      | LAR               | Angola            | Mobility           | ESIA for the Lobito Railway Rehabilitation.   |
| 2024      | MCA               | Angola            | Mobility           | Scoping e ESIA for the Rehabilitation of EN 280/180: Mavinga – Rivungo.                                   |
| 2023-2024 | CCECC SARL        | Ivory Coast       | Sustainable Cities | Scoping, ESIA and Resettlement Framework for the Phase 3 Great Abidjan Water Supply Project.              |
| 2023      | Gauff Engineering | Angola            | Mobility           | ESDD for the Caiundo-Mbalatchau-Savate<br>Road Rehabilitation.  |



#### Capital Project Support - ESG / Sustainable Finance / EU Taxonomy

| 2023      | Holisticos Lda.                        | Angola     | Energy             | Critical Habitat Assessment for the Gove-Matala Transmission Line.   |
|-----------|--|------------|--------------------|--|
| 2023-2025 | SAESA                                  | Chile      | Energy             | Bankable Feasibility Study for the La Tiesa<br>Mine – Environment.   |
| 2025      | PROEF/RAXIO                            | Angola     | Energy             | Controlled Disturbance Plan for Low Mobility<br>Terrestrial Fauna – 1x66 kV Montenegro<br>Transmission Line. |
| 2023      | DPWorld                                | Mozambique | Mobility           | E&S Supervision of the Surveys at the Maputo Container Terminal.   |
| 2022-2023 | MCA Angola                             | Angola     | Mobility           | ESIA for the EN 250 (Luena/ Léua /Lumeje)<br>Reahbilitation.   |
| 2022      | Mark Cables                            | Angola     | Energy             | Environmental assessment of Angola Public<br>Lighting and Electrification Projects.                          |
| 2021      | Exe-Quadrante Lda                      | Libéria    | Mobility           | Monrovia Pier Structural and Under-wharf<br>Structure Inspection – Environment.                              |
| 2021-2025 | SAESA                                  | Chile      | Energy             | ESIA for the Gamboa Chonchi Transmission Line.   |
| 2021      | FUNAE                                  | Mozambique | Energy             | ESMS for the Hydropower Scheme Lot 3.  |
| 2021-2025 | MCA                                    | Angola     | Sustainable Cities | Scoping and ESIAs for 60 Solar Projects in Angola.   |
| 2021      | FUNAE                                  | Mozambique | Energy             | Simplified Impact Assessment for Lot 1:<br>Chimbonila, Erati and Milange and Cabo Delgado.                   |
| 2020      | Matilda Minerals Lda                   | Mozambique | Energy             | Scoping for the Heavy Sands Mineral Project, Inhambane.  |
| 2020      | Entrix                                 | Equador    | Mobility           | ESMS for the Quito Subway.   |
| 2020      | Victoria Solar SpA                     | Chile      | Energy             | Solar PV ESMP.   |
| 2020      | Sociedad Austral<br>de Electricidad SA | Chile      | Energy             | E&S Feasibility Study.   |
| 2020      | VINCI                                  | Brazil     | Mobility           | ESDD for the Fortaleza, Salvador, Florianopolis and Porto Alegre Airports.                                   |

#### **Land Use Planning**

| 2020 | DNA        | Angola | Sustainable Cities | Kwanza River Basin MasterPlan  |
|------|------------|--------|--------------------|--------------------------------|
| 2020 | SOAPRO Lda | Angola | Sustainable Cities | Zambeze River Basin MasterPlan |

#### **Resource Efficiency and Climate Change**

| 2024       | Conduril SA               | Angola      | Sustainable Cities | Climate Change Risk Assessment for the Water<br>Supply System in the Agropastoral Region of Porto<br>Amboim.      |
|------------|---------------------------|-------------|--------------------|---|
| 2024       | Gauff Engineering         | Ivory Coast | Sustainable Cities | Climate Change Risk Assessment for the Sanitation and Drainage Master Plan of the Autonomous District of Abidjan. |
| 2025       | Cabo Verde Airports       | Cabo Verde  | Mobility           | Carbon Footprint from Cabo Verde Airports   |
| 2023       | MCA                       | Angola      | Mobility           | Climate Change Risk Assessment for<br>the Rehabilitation of EN 280/180: Mavinga<br>– Rivungo Project.             |
| 2023       | CCECC SARL                | Ivory Coast | Sustainable Cities | Climate Change Risk Assessment for the Phase 3<br>Great Abidjan Water Supply Project.                             |
| 2021-2025  | CCECC SARL                | Ageroute    | Sustainable Cities | Plan de Drainage et d'une Stratégie d'adaptation<br>Climatique de Abidjan.  |
| Contamina  | ted Land Managem          | ent         |                    |   |
| 2025       | Casais Angola             | Angola      | Sustainable Cities | Soil Contamination Assessment for the Multiperfil Clinic Expansion.   |
| 2021       | MOLINERA<br>COQUIMBO S.A. | Chile       | Energy             | Inspection of Dust Sources and Potential Soil<br>Contamination  |
| 2020       | SOAPRO Lda.               | Angola      | Energy             | Contingency Spill Plans and Emergency Plans<br>for 5 Fuel Stations of Sonangol                                    |
| 2020       | SOAPRO Lda.               | Angola      | Energy             | Contingency Spill Plans and Emergency Plans for Soyo and Malange Fuel Stations of CNC                             |
| 2020       | SOAPRO Lda.               | Angola      | Energy             | Monitoring of the Remediation Measures of the ESSO Condominium  |
| Operationa | l Performance             |             |                    |   |
| 2024-2027  | Gauff Engineering         | Angola      | Mobility           | Mussende-Andulo Road Rehabilitation ESAP Monitoring.  |
| 2024-2025  | Conduril SA               | Angola      | Mobility           | ESMS for E&S Monitoring for the Construction of 182 Bridges in Angola.  |
| 2024       | CCECC SARL                | Ivory Coast | Sustainable Cities | Cooperate Policies for the HSE Management for the Phase 3 Great Abidjan Water Supply Project.                     |
| Digital    |                           |             |                    |   |
| 2025       | Conduril SA               | Angola      | Mobility           | Geoportal for E&S Monitoring for the Construction   |

of 182 Bridges in Angola.

### Contacts



Rodrigo Ferreira — Head of Environment Biophysical Engineer, PhD rferreira@quadranteglobal.com

Rodrigo Ferreira has been, for the past two years, Head of the Environment Business Unit at QUADRANTE. Dr. Ferreira is a Biophysical Engineer (1999), with an MSc in Biodiversity (2003) and a PhD in Biodiversity Management (2017). He brings 25 years of international professional experience in environmental consulting, supporting clients in the Energy and Industry, Infrastructure, Oil & Gas, and Mining sectors, with a focus on business development, project management, team leadership, Environmental and Social (E&S) risk analysis, and technical, commercial, and project team coordination.

He has a strong track record and a deep interest in sustainable international finance, providing advisory services and support to developers and lenders/ECA processes. His work includes auditing, environmental risk analysis for capital projects, impact assessment and monitoring, sustainability strategies, climate change mitigation (low-carbon transition), and the restoration of disturbed areas. Beyond working with developers, Rodrigo has built solid relationships with Lenders — particularly Development Finance Institutions — and is often referenced as a go-to expert by these institutions for major capital projects.

Between 2011 and 2018, he lived in Africa (Mozambique and South Africa), gaining hands-on field experience and building deep regional knowledge. Since then, he has overseen a portfolio of more than 160 projects across Sub-Saharan African countries. From 2018 to 2020, Rodrigo led critical biodiversity workstreams in the Afungi Area, managing extensive fieldwork for multiple onshore monitoring programs associated with the Gas Project Environmental and Social Management Plan (ESMP), including efforts related to resettlement villages.

In parallel with his professional career, Rodrigo has maintained a strong personal investment in research and development. He is the author or co-author of over 90 publications on vegetation and nature conservation across diverse geographies, including two books, consolidating his reputation as a respected voice in the field.



Susana Serra — Client Manager Environmental Engineer, MBA sserra@quadranteglobal.com

Susana is an experienced Project Manager and Environmental Specialist with a proven track record of leading complex environmental and social assignments for large-scale oil and gas projects, including the Mozambique LNG development. With over 25 years of professional experience, Susana has successfully managed multidisciplinary teams and coordinated a wide range of technical activities to ensure compliance with national regulations, international best practices, and lender requirements (IFC Performance Standards, EHS Guidelines).

In the Mozambique LNG project, Susana acted as the Project Manager responsible for the oversight, planning, and delivery of key activities such as:

- > Offshore Environmental Monitoring, including ROV operations, Marine Mammal Observers (MMO), Passive Acoustic Monitoring (PAM), Baited Remote Underwater Video Systems (BRUV), scientific diving operations, and offshore water sampling and laboratory analysis.
- > Benthos sampling and analysis to support biodiversity baseline and monitoring programs.
- > Onshore and Offshore Noise Modelling and Underwater Noise Monitoring, ensuring the assessment of potential impacts to marine fauna and compliance with project noise thresholds.
- > Leadership of Environmental Audits, identifying compliance gaps and improvement actions for operational and construction activities.
- > Waste Management Audits, including gap analysis and corrective action planning for offshore and onshore operations.
- > Planning and execution of Alien Species Surveys and Risk Assessments for two offshore flotels to manage the risk of invasive species introduction in compliance with international maritime standards



**Hélder Araújo** — Biodiversity Expert Biologist, PhD haraujo@quadranteglobal.com

Hélder Araújo is a senior biodiversity consultant with almost 20 years of experience, primarily in offshore environments. His work focuses on marine megafauna—including cetaceans, seabirds, sea turtles, and large fish—and encompasses marine biodiversity policy, monitoring, and the development of management frameworks for offshore projects. He has worked across the full span of European Atlantic and Mediterranean waters and has also participated in initiatives in the Western Indian Ocean, supporting environmental compliance and the integration of ecological criteria into offshore industrial operations.

In recent years, Hélder has been deeply involved in biodiversity monitoring and planning in Mozambique, contributing to Floating Liquefied Natural Gas (FLNG) projects. Within these initiatives, he was responsible for the development of Biodiversity Management and Evaluation Plans, as well as targeted Monitoring Plans for key species groups. His role involved the design and coordination of multi-season field campaigns, the analysis of ecological data, and the preparation of performance reports aligned with international standards.

He holds a Ph.D. in Marine Science, Technology, and Management. His doctoral research focused on the development of techniques to assess the distribution, abundance, and habitat use of seabirds, contributing to methodological improvements in marine avifauna monitoring. He is trained and experienced in multiple data analysis tools, including Distance Sampling methods, statistical modelling, and geographic information systems (GIS), which he applies in both research and consultancy settings.

Hélder has actively contributed to marine spatial planning processes, including proposals for the expansion and designation of marine protected areas in Portugal. His applied fieldwork spans key international biodiversity surveys, including the SCANS III and IV (Small Cetaceans in European Atlantic Waters and the North Sea), the ACCOBAMS Survey Initiative in the Mediterranean, and the ObSERVE Programme in Ireland. These initiatives reflect his long-standing involvement in large-scale offshore biodiversity assessments across Europe.

He has authored more than twenty peer-reviewed scientific articles published in journals indexed in the Web of Science (WoS), mostly focused on research conducted in offshore environments.



Pedro Geraldes — Biodiversity Expert Biologist pgeraldes@quadranteglobal.com

Pedro Geraldes is a Senior Conservation Officer with a degree in Biology and over 25 years of experience in habitat management, nature conservation, and sustainability. His core expertise lies in habitat restoration, marine conservation, and the management of protected areas. Throughout his career, Pedro has worked on and coordinated numerous projects funded by the European Commission, private donors, and international foundations such as MAVA, CEPF, GEF-UNEP, the Rufford Foundation, the LIFE Programme, and INTERREG. He has led multidisciplinary teams and maintained regular reporting to diverse stakeholders and donors.

His consultancy work spans the Mediterranean and West African regions, with significant contributions in Portugal, Cabo Verde, Guinea-Bissau, Malta, Greece, and Italy. Pedro has participated in over 40 projects as a scientific advisor, conducting environmental assessments and monitoring infrastructure developments including roads, rock quarries, bridges, airports, dams, and agricultural projects.

Pedro has a strong background in marine conservation, having contributed to the identification and proposal of new marine protected areas in Europe and Cabo Verde, as well as the development of management plans for these areas and species action plans. Between 2013 and 2018, he lived in Cabo Verde, managing projects with a strong social dimension, achieving measurable improvements in socioeconomic outcomes and contributing to poverty reduction.

With his technical expertise in animal surveys, Pedro maintains close connections with fieldwork teams while consistently investing in scientific research. He is co-author of over 60 peer-reviewed scientific articles on seabirds, conservation, and marine protected areas, as well as six technical books in these fields.

### Contacts



Camila Barcellos — Senior Engineer Biologist, MSc cbarcellos@quadranteglobal.com

Camila Barcellos is a senior biodiversity and environmental consultant with over 15 years of international experience across Latin America, Africa, and Europe. She specializes in biodiversity impact assessment, conservation planning, and sustainability advisory for infrastructure, industrial, and energy projects. Her expertise includes aligning project design and management with international standards, particularly IFC Performance Standard 6, and supporting the development of biodiversity KPIs for renewable energy, linear infrastructure, and complex industrial assets.

Camila has contributed to corporate sustainability programs by supporting disclosures to the Dow Jones Sustainability Index (DJSI) and CDP Water, and by participating in a cross-regional task force to pilot the TNFD framework. In this role, she applied the LEAP approach to assess biodiversity risks across power generation assets globally, identify management gaps, and propose strategic actions.

Her technical background includes work on national marine biodiversity assessments in Brazil, with a focus on echinoderms, as well as field-based and policy advisory work bridging the oil & gas sector, fishing communities, and conservation NGOs. She has also led the preparation of methodologies to implement the mitigation hierarchy and define measurable biodiversity targets consistent with global best practice.



Bruno Pereira — Social Expert Environmental Engineer, MBA bppereira@quadranteglobal.com

Bruno is a dedicated Site and Logistics Officer with extensive experience supporting the operational delivery of large-scale environmental and social projects, including the Mozambique LNG development. With a strong background in field logistics, site coordination, and resource management, Bruno has played a critical role in ensuring that complex offshore and onshore activities were executed efficiently, safely, and on schedule. In the Mozambique LNG project, Bruno was responsible for:

- > Coordinating logistics for offshore environmental monitoring campaigns, including mobilization of ROVs, scientific diving teams, Marine Mammal Observers (MMO), and Passive Acoustic Monitoring (PAM) equipment.
- > Managing the deployment and recovery of benthic sampling gear, water sampling devices, and BRUVs, ensuring all operations adhered to health, safety, and environmental (HSE) protocols.
- > Supporting the organization of onshore and offshore noise monitoring activities, ensuring the timely delivery of specialized equipment and field personnel to remote locations.
- > Arranging site access, transportation, accommodation, and supplies for teams involved in environmental audits, waste management audits, and alien species surveys.
- > Ensuring compliance with project logistics procedures, customs clearance processes, and coordination with marine and port authorities for offshore operations.
- > Acting as the main point of contact for field team support, troubleshooting logistical challenges in real-time to minimize downtime and maintain project schedules.

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