



sustainable development  
on our finite planet

We track satellites and ride camels - we are OIKO.

I feel very proud to make this introduction.

For decades we have been witnessing how the changing climate is evolving and disturbing the equilibrium and sustainability of our planet. We founded OIKO in 2004 in order to work and aid vulnerable communities exposed to the unstable patterns of climate change. Communities that learnt harvesting and fishing from their ancestors and have relied on knowledge passed down for decades sometimes centuries. But climate today is different from what it used to be and traditional knowledge is no longer sufficient.

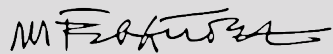
OIKO was founded to help just such vulnerable communities. We focus primarily on economic livelihood opportunities for the world's most climate vulnerable populations and guide them towards a sustainable future. We learn with our clients to adapt, to build and to anticipate the risk of a changing climate. We listen to their stories and by utilizing science-based solutions, we support and improve their qualities of life and prospects for generations to come.

Today we are a Research and Advice Consulting company, a worldwide group with 5 offices in 4 continents and an in-house staff of over 50 people.

We are proud of our roster of exceptional climatologists, economists, anthropologists, hydro-meteorologists and engineers who have thorough understanding of science-based climate information. They combine strong scientific backgrounds with unbiased commitment to the practical needs of our planet's most vulnerable herders, farmers and fishermen.

Climate variability is a challenge in many countries and effective action requires the right information and expertise to understand and find solutions. OIKO is proud, after all these years to introduce a team and the knowledge tools to provide the solutions.

This brochure celebrates our 16th anniversary. It highlights our commitments, our team, our achievements and our collective path forward. We are honored and excited for you to take a look inside.



Miguel Trillo,  
Chief Executive Officer CEO · OIKO



CELEBRATING 16 YEARS  
OF STANDING UP FOR CLIMATE

*"We provide consistent consulting services worldwide to improve the relationship between vulnerable livelihoods, natural resources and food security"*

Miguel Trillo





Nicholas Georgescu-Roegen

The father of ecological economics, the Romanian mathematician, statistician and economist publishes seminal work "The Entropy Law and the Economic Process", in which he argues that natural resources are irreversibly degraded when put to use in economic activity



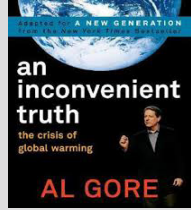
IN OUR HANDS  
EARTH SUMMIT '92

### Earth Summit

UN Conference on Environment and Development (UNCED) is held in Rio de Janeiro. Agreements are reached on Agenda 21, the Rio Declaration

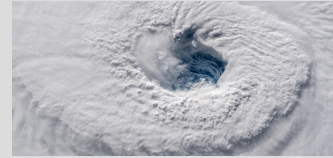


Legal constitution and foundation of OikoLogica in La Coruña · Spain



### The most inconvenient truth

Let's face it, this documentary is perhaps the most influential talk on climate ever, alerting the public to an increasing "planetary emergency" due to global warming. Al Gore with a few slide presentations and a few flip chart illustrations won him the Nobel Peace Prize



### Looking at our planet with new glasses

OIKO contributes to the design of a network of climate centres in vulnerable ACP countries to ensure access to The Copernicus Climate Change Service (C3S) to supports society by providing authoritative information about the past, present and future climate in vulnerable countries in Africa, Caribbean and The Pacific



### How much is the Leather-back turtle worth?

Oiko travels to the Caribbean for the application of an innovate valuation exercise in the North East Iyanola Region. We conducted a comprehensive analysis on the economic worth of natural resources within a uniquely pristine biodiverse region on the island of Saint Lucia, mainly to make reasonable conservation decisions about the future

1968

1973

1992

1997

2004

2005

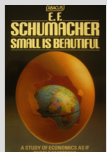
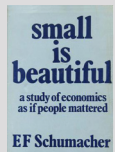
2007

2009

2017

2018

2019



### As if people matters

First published in 1973, Small Is Beautiful brought Schumacher's critiques of Western economics to a wider audience during the 1973 energy crisis and emergence of globalization



### Christmas in Guayas with El Niño

El Niño shows up while we are there and sends a first warning. We are direct witness of colossal devastation in Guayas and the first idea to create Oiko is born. The following year La Niña caused flooding so severe that it displaced 200 million people in China, submerged half of the land mass of Bangladesh, and spurred on the North Atlantic hurricane season, where the deadliest hurricane in history occurred



### Inside Harpy's nest

Oiko celebrates new year's day in Corcovado National Park, Costa Rica. With the support of the Inter American Development Bank (IADB), our project resulted in the first Sustainable Development Strategy for the Golfito Peninsula, home to Costa Rica's shyest and most endangered inhabitants; Baird's Tapirs, Jaguars, Scarlet Macaws, Harpy Eagles, Red-backed squirrel monkeys and White-lipped Peccaries



### Oiko in the Kingdom beyond the clouds

Oiko supports the National Happiness Commission of the Royal Kingdom of Bhutan through the Global Climate Change Alliance to develop the first country climate readiness assessment



### Living on an island

Again, we start the year 2018 in the remote Island of Timor-Leste. Oiko conducts a Climate Risk Evaluation of The Dili-Ainaro Road Development Corridor aiming to strengthen the resilience of communities to climate induced disasters such as floods and landslides

To view the full timeline visit [oikologica.com](http://oikologica.com)



# Our DNA

OIKO is a leading provider of technical advice and analysis for sustainable development around the world.

OIKO delivers intelligent solutions on the social, ecological and economic dimensions of sustainability and climate change.

We work to catalyze sustainability, climate adaptation and resilience into public and private projects and investments, facilitating the integration of climate science into business and policy decisions.



# Our Mission

Our mission is to deliver impartial research and policy advice to ensure and preserve sustainable development.

We use science-based evidence to help users anticipate and prevent the impacts of climate change, inefficiency, scarcity and vulnerability on business, economies, societies and nature.



# Our Vision

OIKO was established in 2003 with the vision of contributing to the sustainable development of life on our finite planet. We envisioned a world where the use of science-based earth observational tools and information technologies can radically and extensively improve sustainability of ecosystems, society and livelihoods.

The reality in 2020 is that we have provided consistent advisory services to clients in more than 100 countries in the six continents.

Our commitment is becoming a trusted source of advice for governments and businesses helping them to make the best rational decisions, and to find solutions to restore balance to threatened ecosystems.





# Our Values

OIKO is the word used by ancient Greeks for the human habitat. The ancient word was more insightful and comprehensive than today's, embracing the sustainability dimensions beyond the physical properties.

Through our work we aspire to respect the old three dimensions of sustainable development of human life on our finite planet: social, economic and ecological. Our focus is on rational choices where living conditions and resources on Earth are logically and rationally balanced in time and space.

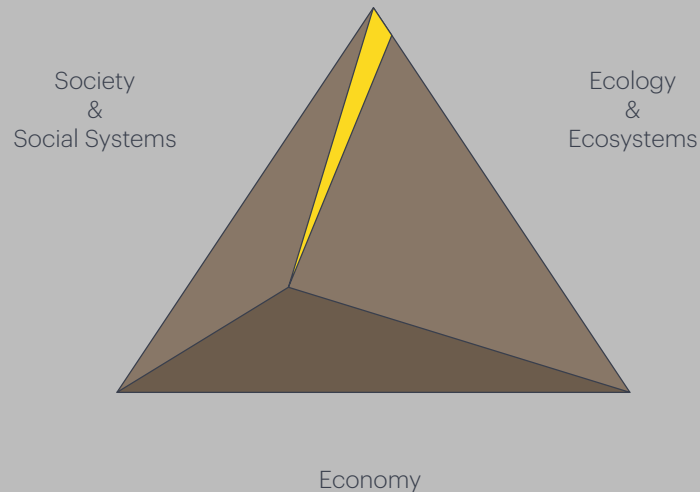
We endorse the global challenges addressed by the Sustainable Development Goals of The United Nations, including those related to climate change, environmental degradation, and right-based access to resources of the most vulnerable by the year 2030.



# Areas of Work

We help our clients understand the implications of sustainability and climate change, specially through the use of science and technology.

To do so, our work accounts for the three dimensions of sustainable development:



Each of the 3 dimensions corresponds to the three-pillar conception of sustainability: social, economic and environmental.

What makes our approach so powerful isn't the simple relationship between the three pillars. What makes our work so remarkably relevant are directional relationships and transitive relationships we take into account.

The transitivity relationship among the three dimensions (economy, ecology and sociology) evolves in network patterns and degrees of separation uncovering relationships between them that otherwise may seem disconnected or unrelated and are undetected by a relational database.

Climate Mitigation	<ul style="list-style-type: none"> <li>▲ Earth Observation and Spatial Data</li> <li>▲ Access to Clean and Affordable Energy</li> <li>▲ Climate Finance Mitigation Upscaling</li> <li>▲ Deforestation Forest loss</li> <li>▲ Forestry MRV and AFALOU</li> </ul>
Sustainability of Natural Resources	<ul style="list-style-type: none"> <li>▲ Integrated Water Resources Management</li> <li>▲ Renewable and Natural Resources Sustainability</li> <li>▲ Climate Public Expenditure Institutional Review CPEIR</li> <li>▲ GHG Emissions in the Forestry Sector</li> </ul>
Climate Change Adaptation	<ul style="list-style-type: none"> <li>▲ Early Warning System</li> <li>▲ Disaster Risk Assessment and Management</li> <li>▲ Climate Impact and Risk modelling</li> <li>▲ The Local Climate Adaptive Living Facility</li> <li>▲ Climate Risk and Impact on Corporate Supply Chain</li> </ul>
Livelihood Resilience	<ul style="list-style-type: none"> <li>▲ Climate Vulnerability and Poverty</li> <li>▲ Early Warning System for Food Security</li> <li>▲ Socio-economic Impact of Climate</li> </ul>
Ecosystems	<ul style="list-style-type: none"> <li>▲ Ecosystem Service Valuation</li> <li>▲ Ecosystem Based Adaptation</li> </ul>



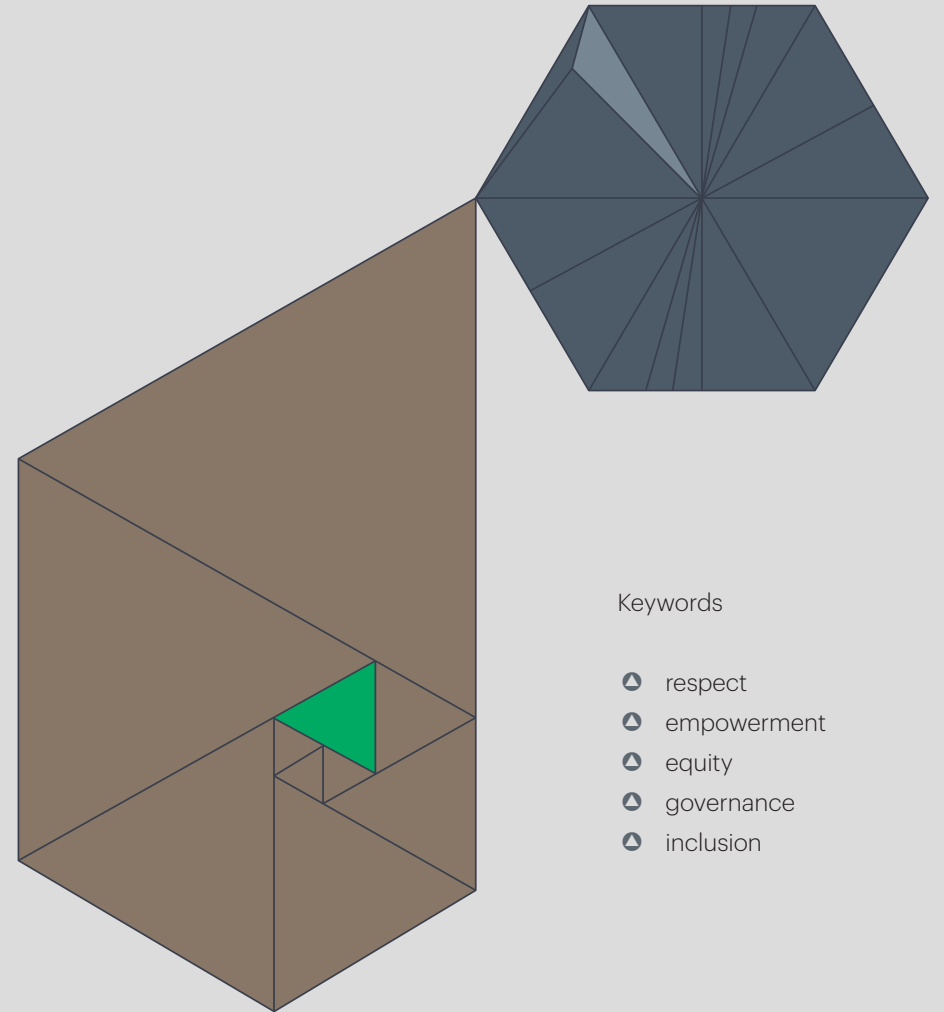
# The Social Dimension

## Embeddedness

Karl Polanyi, the historian, economist, sociologist and anthropologist, understood the multi-disciplinarity of human actions when he conceived the concept of Embeddedness: the degree to which economic activity is constrained by additional non-economic human and social dimensions.

What makes OIKO different is precisely, the application of embeddedness, where human actions need not be rationalized, and where economic activity provisioning is instead contextualized in social, non-economic dimensions such as kinship, religious, and political circumstances.

This is evident in the collaborative approach to our work: participation, sensitive listening to beneficiaries' needs, and resilience, responsiveness to the vulnerability and risk of each community. We believe every solution is embedded in a unique social context, requiring a differentiated action.





# The Ecological Dimension

## Resilience

Ecosystems are physical and living interactions among species and natural resources with a transitive relationship between them (economy, ecology and sociology). Time and spatial scales play a meaningful impact, with many possible network patterns.

OIKO works to underscore and value the unique benefits from ecosystems: marketable products such as pharmaceuticals, recreational experiences, valuable services such as erosion control or water purification, aesthetic values, etc.

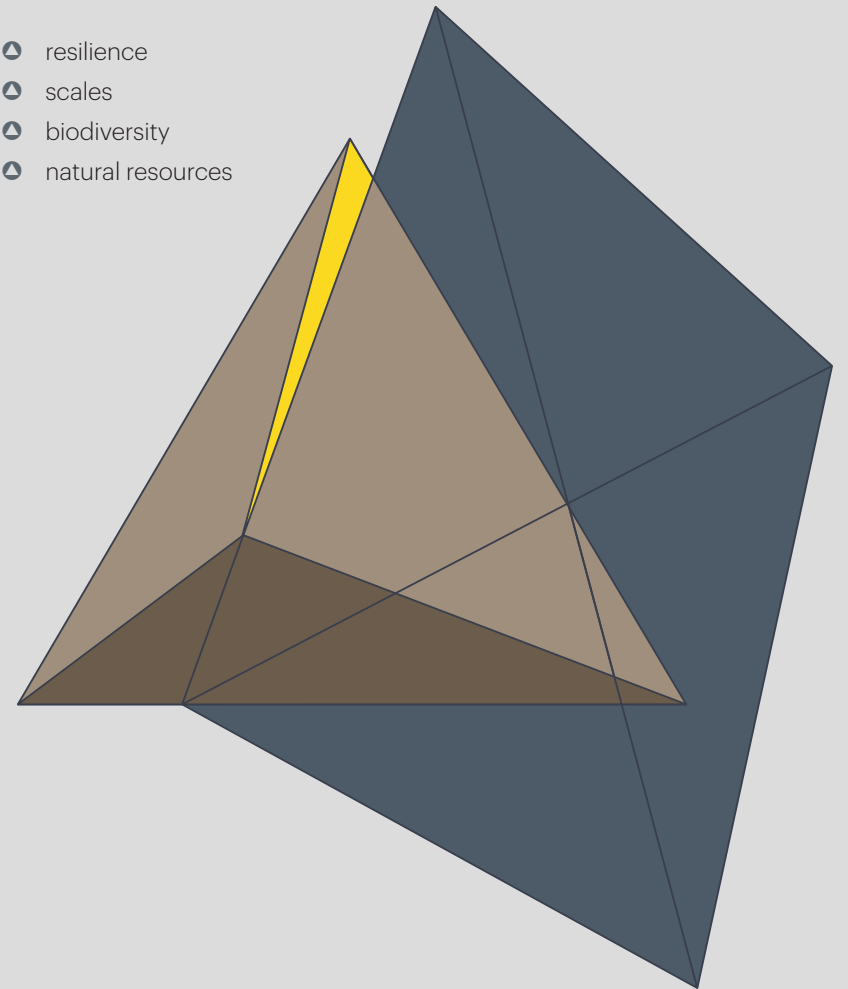
All these values need a contextualization and they receive attention in our analysis. Despite the critical role ecosystems play in our planet, these areas are increasingly threatened by the impacts of a growing human population through habitat destruction and air and water pollution.

This ecological dimension is illustrated in our work through resilience, the uncovering of untwined in an unpredictable relationship between rigid physical structures and natural forces which often are undetected by a relational analysis.



Keywords

- ▲ resilience
- ▲ scales
- ▲ biodiversity
- ▲ natural resources



# The Economic Dimension

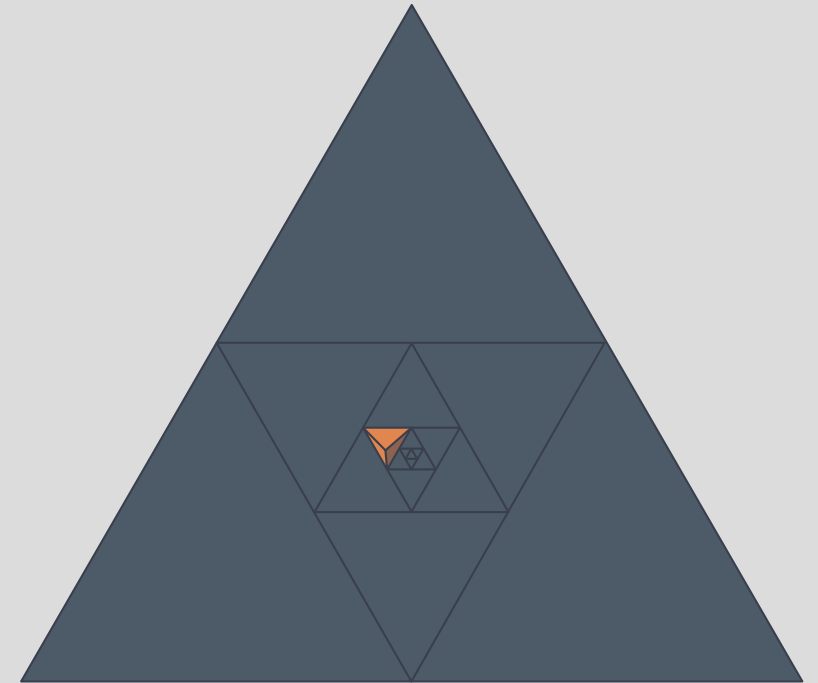
## Stability

Economics is not a science, it's a combination of logic and rational decisions to conserve the finite resources of our planet and the rules are used to define and explain the value scarce resources have today and their possible value in the future.

We understand economic sustainability as a practice extending the time and space dimensions to future generations, where we support long-term economic steady state growth, without negatively impacting social, environmental, and cultural aspects of the community.

Our work engages economic entities (people, institutions, policies, events, consumption, actions, concepts and places) and the immeasurable relationships in an open circle of production and consumption of natural resources.

We have illustrated this nuclear idea symbolized by a colored brown core, crystalized inside a complex blue grid of iterative and ever-growing linear relationships among the elements of the triangular concept of sustainability. The core is representing the life "returns" of the Earth's natural resources rather the approach of consuming them.



### Keywords

- ▲ equitable growth
- ▲ efficiency
- ▲ steady state
- ▲ stability

# Our Services

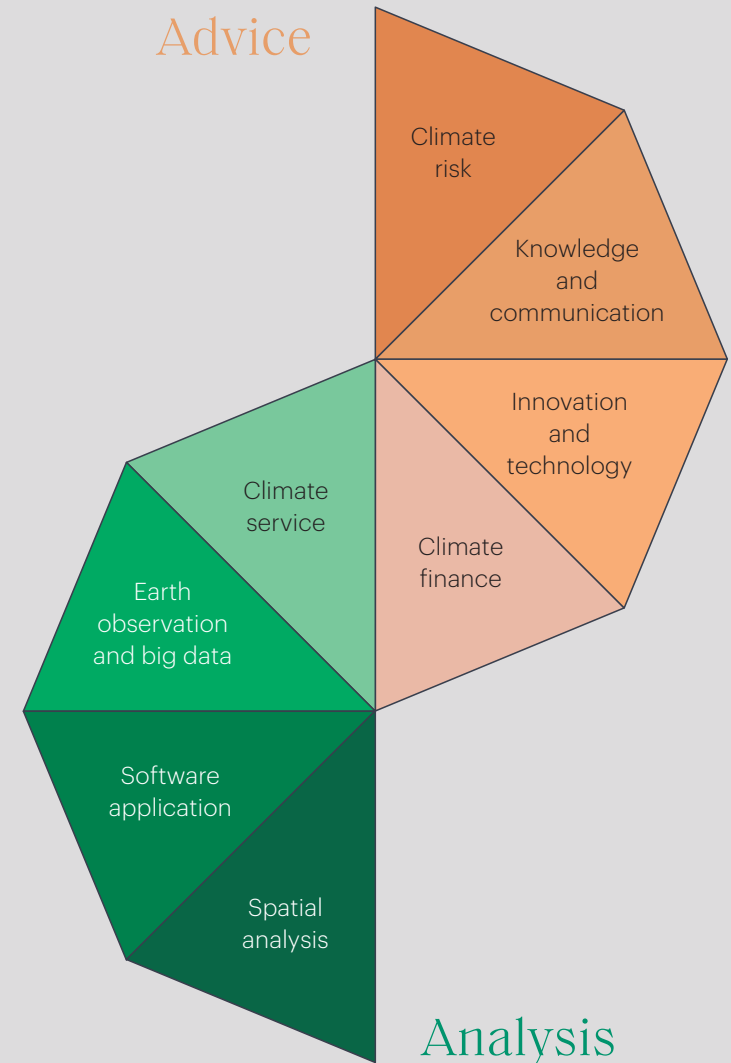
## Advice

Our consulting division provides technical advice to international organizations, private sector and governments on how to make informed decisions about sustainability and changing climate.

## Analysis

Our analysis division works collecting and operating scientific information and data. We use software to help clients conduct assessments of different types of climate risks:

Climate Risk	OIKO has had first-hand experience of the striking increase in the number and severity of natural disasters and the impact on business and government policies.
Knowledge and Communication	We conduct research on consumer behaviour and public climate change knowledge, climate attitudes, green taxes and environmental policy preferences.
Innovation & Technology	OIKO has been a forerunner and active participant of climate debate and state of the art innovations. From earth observation and climate projection data to climate risk assessment and adaptation.
Climate Finance	With wide-ranging international expertise in public finances and policy advice, OIKO has been counselling governments, businesses, and financial institutions.
Climate Services	We provide timely, appropriate and innovative services through the use of information technologies of the earth and space to improve rational choices to prevent climate impacts.
Earth Observation and Big Data	OIKO require the use of supporting technologies such as cloud computing, and big data tools to investigate climate, as well as intelligent analytics platforms and new technological progressions.
Software Applications	Application of new information technologies into climate change adaptation and mitigation measures, based on the best use and facilitation of access to scientific information, data and knowledge.
Spatial Analysis	OIKO conducts quantitative and qualitative analyses and map representations showing visual geographical interpretations to explain patterns of social, economic and ecological human behaviour.





# The Team

*Coming together is a beginning.*

*Keeping together is progress.*

*Working together is success.*

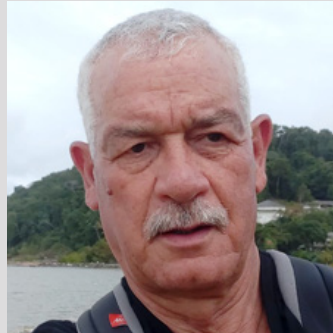
Henry Ford



**Miguel Trillo**

President and CEO

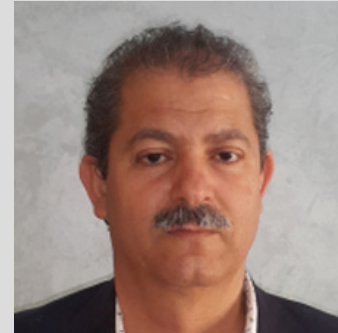
Miguel is President and CEO of OIKO. He is a natural resource economist with +25 years of experience examining the relationships between poverty, vulnerability and climate change.



**Mohammed S. Boulahya**

Technical Director

Mr. Boulahya is a weather, water and climate scientist with +40 years of World experience in meteorological sciences. Focused on the use of science, earth and space information technologies.



**Abdelkader Allali**

Team Member

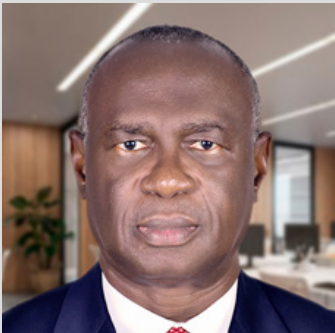
Mr. Allali has worked with more than 30 countries in Africa supporting governments in the preparation and analysis of national environmental policies and strategies in relation to institutional, organizational and regulatory aspects.



**Flaviane T. Kenfack**

Team Member

Expert in climate change adaptation, capacity building and DRR under a changing climate. +12 years of experience in hydromet climatic services, disaster risk management, agriculture, gender and youth.



**Daniel Ifeanyi Nnodu**

Team Member

Mr. Ifeanyi has been selected based on his experience of 10+ years of planning, developing, implementing and supervising similar programs in the climate technology field in Nigeria, both mitigation and adaptation.



**Elsayed Sabry Mansour Nasr**

Team Member

Chemical engineer, +30 years working on Research and Development and applied technologies to climate change mitigation. Has represented Africa from 2007-2010 in the Global Climate Adaptation Fund Board for CC.



**Lorene C. Flaming**

Team Member

Natural resources economist with +25 years of experience designing, implementing and evaluating projects and policies that strengthen natural resources management and sustainable livelihoods.



**Amitav Rath**

Technical Director of Research

+40 years background that combines research and policy on applied climate science and engineering, crossing the bridge between policy decision-making and scientific applications on climate change, air pollution and environment.



**Stephen Donkor**

Team Member

PhD in Engineering, M.Sc. in Water Management. Experienced in water resources development & management. Transboundary water resources advisor and a senior consultant for the African Water Facility (AfDB) & African Union.



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 Carrer Can Verí, 1 · 07001 · Palma de Mallorca · Spain

 +34 971 72 56 66

 [info@oikologica.com](mailto:info@oikologica.com)

 [www.oikologica.com](http://www.oikologica.com)



#### **U.S.A.**

1275 East 6th Street, Studio 202  
Los Angeles  
CA 90021 · U.S.A

#### **Cameroon**

Mme Flaviane T. Kenfack  
BP: 35311  
Yaoundé · Cameroon

#### **Algeria**

Résidence ELJAZI (Appt K-34)  
Rue Aissat IDIR , Cheraga  
16014 · Alger · Algeria

#### **Egypt**

BIOOMEGA  
25 AhmedFahim Biomy St.  
Triumph · Heliopolis, Cairo · Egypt