

Green Eco-buildings

GREEN ECO BUILDINGS

GreenUniverse



Eco Buildings Group Plc



Aither



Lombarda Group





BUILDING THE FUTURE

A shared vision of sustainable development.



A SHARED GOAL

- Building the Future Together.



Madagascar is a land rich in natural resources, culture and potential. But it is also vulnerable and faces environmental and social challenges. We believe that a public-private partnership can offer concrete, lasting solutions that honour local identity.

<https://greenuniverse.eu>



Shared Objectives:

- Promote sustainable and inclusive development
- Build resilient infrastructure
- Support education, healthcare and food security
- Protect the environment and regenerate ecosystems

TWO ORGANISATIONS, ONE VISION

- Together, We Can Go Far.

GreenUniverse

GreenUniverse specialises in environmental sustainability, agroforestry development and ecological regeneration. We promote high-impact projects that benefit the climate, biodiversity and local communities.



Eco-buildings

Ecobuildings designs and builds ecological, modular, low-impact buildings that are designed to last and tailored to local contexts. We use natural materials, circular technologies and locally trained labour.

REGENERATE TO GROW

- New Life Springs from the Earth

Green Eco-Building represents best-in-class sustainable architecture.

Its innovative technologies and methods align perfectly with our vision of environmentally responsible, community-centred development.

- Low-impact green building
- Use of local materials and workforce
- Modular, replicable designs adapted to community needs
- Technical training and stable employment opportunities
- Reduced ecological footprint and enhanced structural resilience



SOLUTIONS FOR CHANGE

- Deep Roots, a Stable Future.

The partnership between **GreenUniverse** and **Ecobuildings** is driven by a shared desire to deliver integrated, practical solutions tailored to local needs, creating a positive and lasting impact. We believe in an approach that combines **sustainable architecture, environmental regeneration, training and circular innovation** – always placing people and local resources at the centre.

At the heart of this approach is the construction of sustainable buildings – homes, community centres and other structures – made using natural materials and eco-friendly methods.

These buildings are modular, easily replicable and adapted to Madagascar's climate. Each one is built to last and **to improve residents' quality of life**, thanks to features such as natural ventilation, **rainwater harvesting and energy self-sufficiency** using solar panels and induction hobs.

SOLUTIONS FOR CHANGE

- Deep Roots, a Stable Future.



Our partnership with **Aither** strengthens the environmental and social impact of our work by integrating land regeneration with scientific approaches to climate mitigation.

With Aither's support, we are able to certify the environmental benefits of our projects – such as **reforestation** and **sustainable agriculture** – and convert them into certified carbon credits, generating income to reinvest in local communities.

Together, we promote **agroforestry systems** that blend trees, gardens and local crops – boosting **soil fertility**, protecting **biodiversity** and increasing **food security**. We work with local plant nurseries, cooperatives and families to recover traditional agricultural methods adapted to climate change, as part of a model that combines **environmental sustainability, social inclusion and economic development**.

Thanks to Aither, each project forms part of a broader climate strategy of decarbonisation, certification and shared value creation.

SOLUTIONS FOR CHANGE

- Deep Roots, a Stable Future.

Finally, we believe deeply in a development model rooted in the circular economy and **self-sufficiency**. Every structure we build is designed to minimise resource use and waste.

Our goal is simple: **to work with the Department of Madagascar to build projects that genuinely improve people's lives while safeguarding the country's natural heritage.**

With respect, dialogue and shared expertise, we can shape a new model for **sustainable cooperation**.



A PARTICIPATORY METHOD

- Listen. Act. Grow.

GreenUniverse, Ecobuildings and Aither work together using an integrated model that combines technical expertise, environmental awareness and community engagement.

Each project is developed and implemented with deep respect for the local context, people and resources – through a five-step process.

Participatory Spatial Analysis

Each project begins with a thorough assessment of the area. We conduct environmental, socio-economic and climate analyses, in addition to interviews and meetings with local communities, authorities and stakeholders.

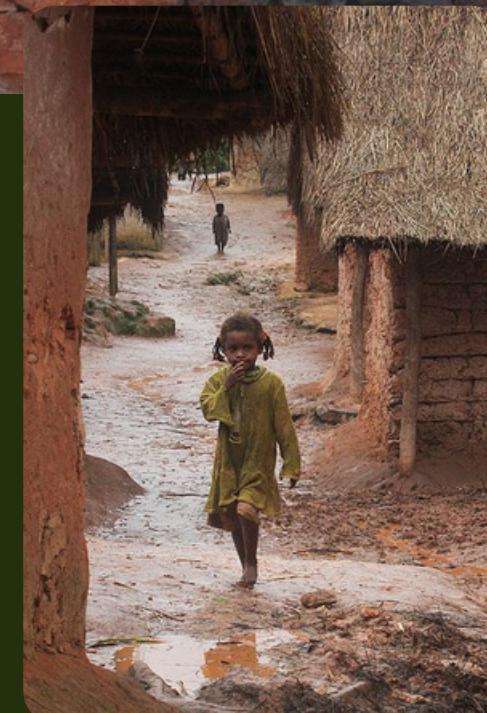
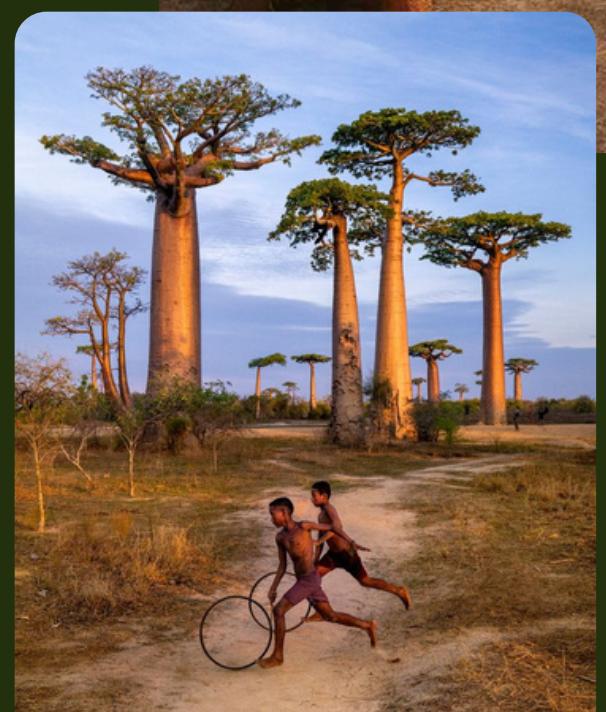
Co-Design with Local Authorities

We collaborate closely with public institutions, communities and local operators to co-design each project. Architectural, agricultural and energy solutions are jointly developed to ensure full local ownership and sustainability.

Monitoring, Transparency and Replicability

All interventions are continuously monitored using qualitative and quantitative indicators. We assess environmental, social and economic impact, share the results and develop tools to replicate successful models elsewhere. Transparency forms an integral part of our approach: we openly share costs, processes and outcomes.







REAL IMPACT

ECO BUILDINGS GROUP

> Cutting-Edge Technology and Efficient Production

Eco Buildings was founded on an ambitious vision: to make construction sustainable, affordable, fast and high-quality. Thanks to our proprietary technology and the use of modular GFRG (Glass Fibre Reinforced Gypsum) panels, we create turnkey buildings that are up to 50% cheaper, five times faster to construct and over 20% lighter than traditional methods.

Our system is revolutionising construction: every wall is prefabricated with millimetre precision, pre-equipped for electrical and plumbing systems and ready for quick on-site assembly. The result? Structures that are solid, safe, earthquake- and fire-resistant, fully recyclable and environmentally friendly.

We operate globally, with projects in Australia, the United Arab Emirates, Chile and Albania. **We work on a large scale: from social housing to multi-storey buildings, tourist residences, shopping centres and accommodation for workers. Every project is customisable, efficient, and above all, sustainable.**

Eco Buildings offers a new way of thinking about how we live.

> Materials and Environmental Sustainability

Our system is based on GFRG panels, which offer numerous advantages:

- Low environmental impact (low embodied energy and reduced, CO₂ emissions)
- Non-toxic, lightweight, 100 % recyclable material
- Excellent thermal and acoustic insulation, resistant to fire and cyclones

> Fast and efficient construction process

- Panels are pre-fabricated in the factory using CNC cutting and are pre-drilled for doors, windows and systems – reducing waste and simplifying on-site assembly.
- Installation is modular and can be done manually (for 1 m panels) or using trolleys/cranes for larger formats.

> Ideal for Large-Scale Projects

GFRG construction can reduce costs by up to 50% compared to traditional methods, with one-third of the weight and five times faster installation.

> Square Metres

Production capacity
25 working days/month × 20 hours/day
1,680 m² of material produced per day
Monthly: 1,680 × 25 = 42,000 m²/month
Yearly: 42,000 × 12 = 504,000 m²/year



REAL IMPACT

LOMBARDA GROUP

> LOMBARDA GROUP

Lombarda Group is a dynamic, well-structured company overseeing several companies capable of managing **residential, industrial, commercial** and **hospitality** construction projects both in Italy and internationally.

They handle construction and contract management directly, ensuring top-quality results and meticulous attention to detail at every stage of the process.

With strong organisation and extensive experience, Lombarda executes new builds, renovations, extensions and turnkey projects – managing the entire process, from design to delivery. They also offer general contracting and subcontracting services, backed by their own skilled workforce and equipment.

Their mission is to build quality – prioritising functionality, aesthetics and durability. This is supported by a management system that continuously monitors materials, processes and results, always aiming for technological innovation and customer satisfaction.

REAL IMPACT

AITHER

> AITHER

Aither is a global alliance of specialist companies united by a shared mission: to create a sustainable, interconnected world.

With over 15 years of experience in environmental markets, Aither stands out as a collaborative force of consultants, innovators and industry leaders. Their work spans:

- pioneering solutions in environmental markets
- promoting tech innovation in Africa
- supporting renewable energy transitions across Asia.

Guided by the vision of a "World in Harmony with Nature", Aither works to make this a reality by designing frameworks and solutions that align human activity with the environment – driving a sustainable future.

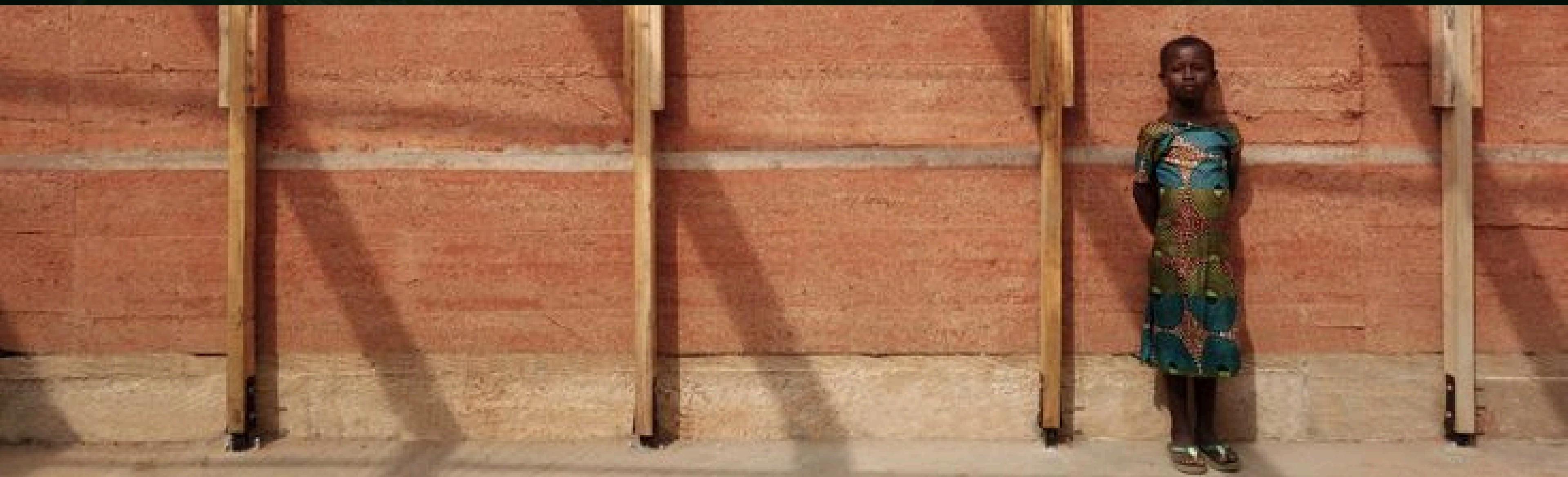


A CONCRETE PARTNERSHIP

Collaborating with Green Eco-Buildings means:

- Strengthen the Department's operational capacity
- Attract international resources (funding, technologies, expertise)
- Serve as a development model for the African continent
- Offer communities tangible, measurable solutions

- Together for Madagascar.





Main Objective

To create a new, modern, sustainable, smart city to reduce pressure on Antananarivo, offering housing, services and jobs to over 300,000 people (200,000 residents and 100,000 workers).

Government Vision

This is a flagship project for Madagascar's social inclusion, environment protection and economic regeneration, where the private sector plays an active, strategic role.





How GreenEco-Buildings Can Support Madagascar

Sustainable Energy and Smart Grids

We believe in a future powered by clean, affordable, intelligently managed energy. With Aither, renewable energy also becomes certified.

That's why we install high-efficiency photovoltaic and wind systems capable of supplying independent, continuous energy to homes, schools and public buildings. These are paired with storage systems and smart grids that optimise production and distribution, cutting emissions and reducing dependence on the national grid.

The goal is simple: to bring energy to where it's needed – sustainably, reliably and for the long term.

Ecological and Prefabricated Construction

We build using modular GFRG technology that is fast, affordable, earthquake-proof and fully recyclable.

Large-scale social housing with a reduced environmental footprint, and optimised time and resource use.

Integration of solar, water and electrical systems directly into the prefabricated panels.

Local Jobs and Technical Training

Local Malagasy labour will be used for all construction sites (in line with government planning).

Training programmes will be developed in partnership with local institutions, for installers, green technicians, solar panel installers and more.

We'll also support the creation of local cooperatives focused on energy and the environment.

Urban Planning and Integrated Sustainability

Support for the design of smart, low-emission neighbourhoods.

Solutions for rainwater harvesting, natural purification systems and sustainable waste management.

THE PROJECT

> Project

The first pilot project is a **residential building** in Madagascar comprising 60 homes across three storeys, built with a modular, repeatable structure. Design Highlights:

Architecture: the building has a simple, practical architectural style, with continuous balconies on the first and second floors, accessed by a central staircase. Ground-floor units have private entrances.

Materials and colours: warm-toned façades create a pleasing visual effect. Vertical dividers between sections add rhythm and break up the monotony.



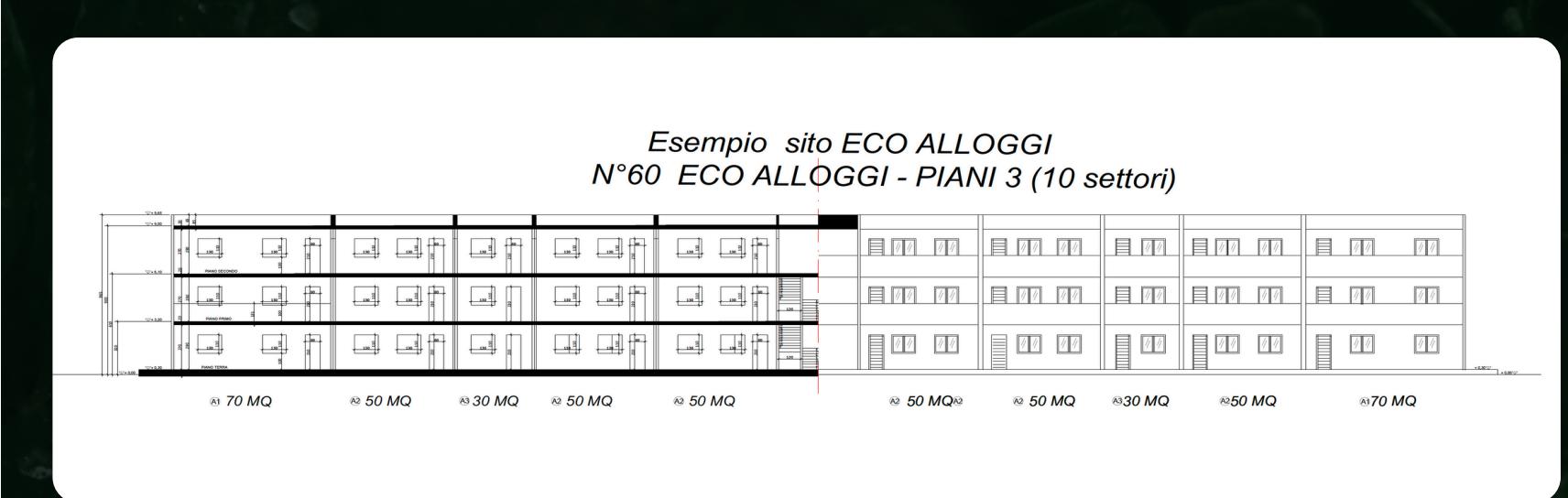
THE PROJECT



Greenery: hanging plants on balconies provide a natural touch and improved aesthetics.

Location: the building is suited to tropical and subtropical contexts typical of Madagascar's cities.

<https://greenuniverse.eu>

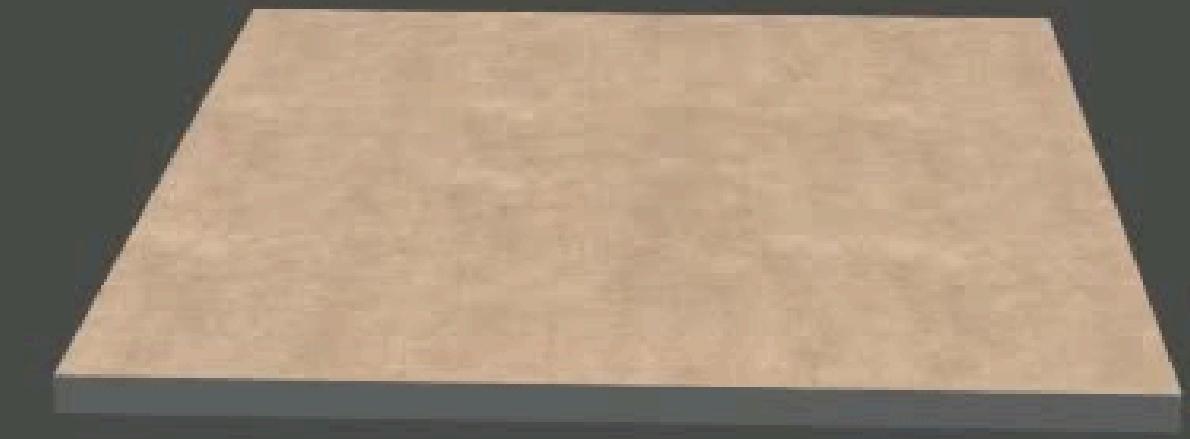
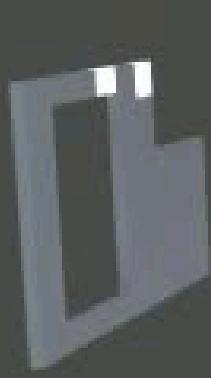


Each unit will be fully fitted with doors, windows and sanitaryware, and will:

- connect to the drinking and waste water systems via wells or storage tanks.
- include a rainwater recovery system.
- be powered by an integrated photovoltaic system
- feature electric hobs for cooking, powered by solar energy



DAY

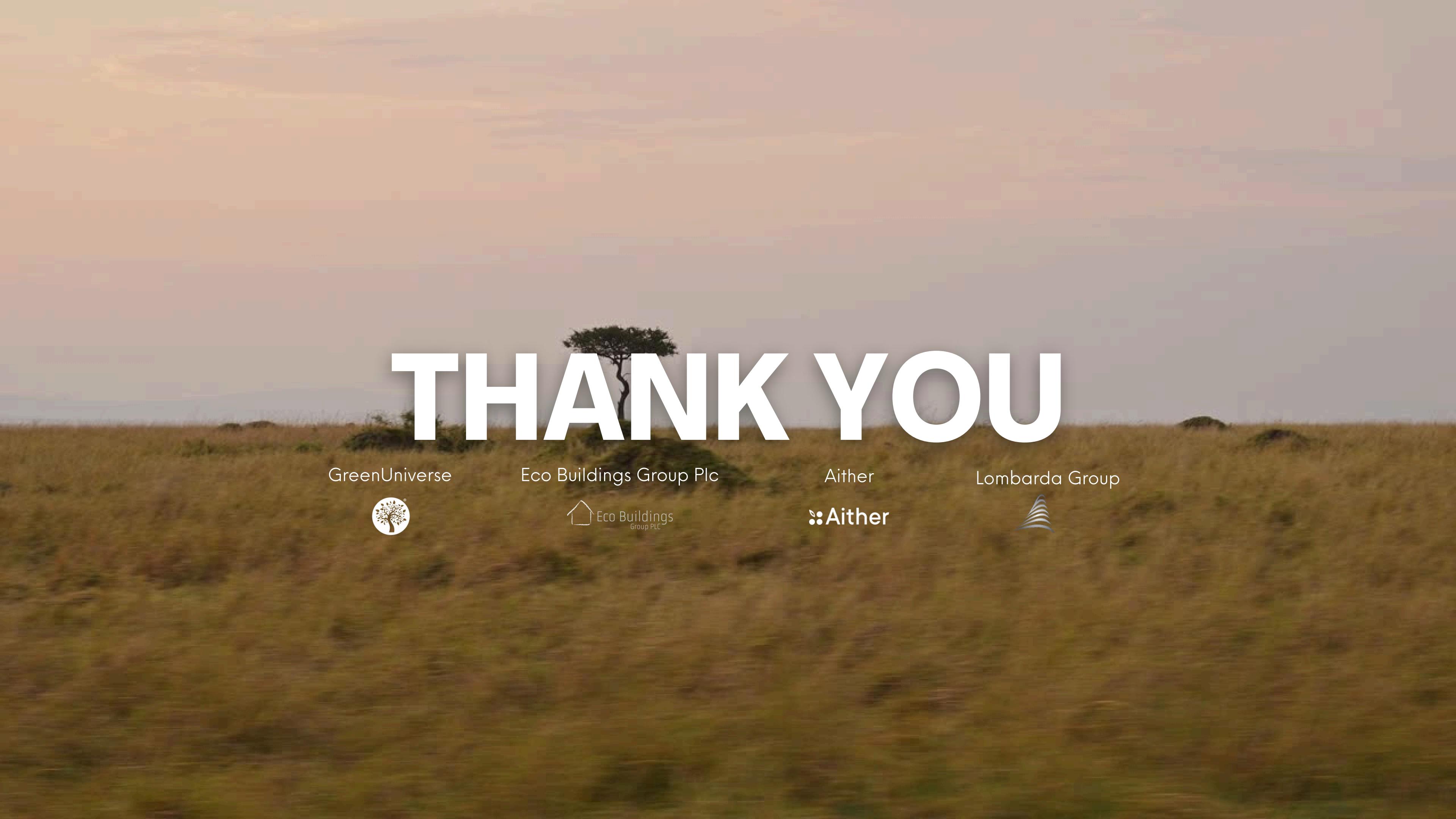


Eco Building



A photograph of a woman in a traditional, patterned dress working in a field. She is bent over, tending to the plants. The background is a bright, overexposed sun, and the foreground shows the textured ground of the field.

CULTIVATING TOMORROW WHILE RESPECTING
TODAY'S LAND.



THANK YOU

GreenUniverse



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Aither



Lombarda Group

