



Firefly Life Sciences

AN INTRODUCTION

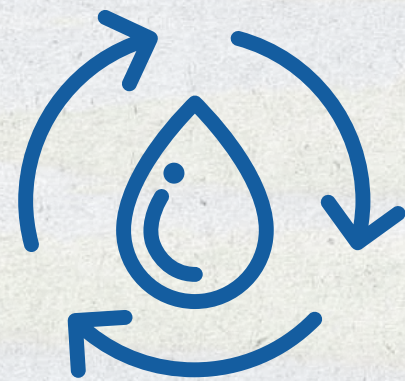
Offerings

Firefly Life Sciences is engaged in **sustainability** and **innovation** in the fields of Regenerative Agriculture, Biological Water Treatment, Living Aquatic Systems, Sustainable Landscape Design and Biomethanation Technology. Our products and services are tailor-made to the client's needs.

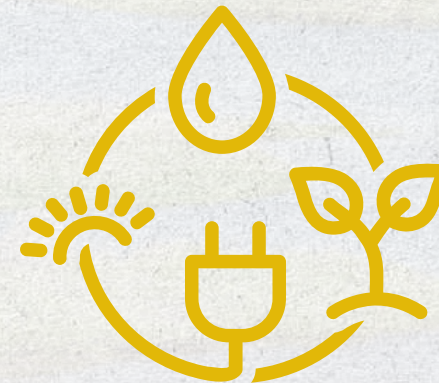
Our solutions and **ecologically** and **economically** efficient.



**Regenerative
Agriculture**



**Living
Water**



**Clean
Energy**



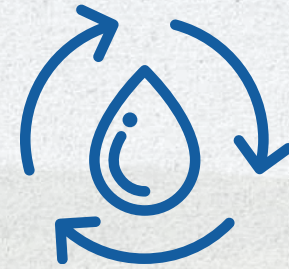
**Green
Habitats**

Our Services



Regenerative Agriculture

- Customised Agricultural Inputs and Protocols
- Agricultural Design and Consultancy
- Urban Agriculture Design
- Agroforestry & Food Forest Design
- Climate-Resilient Crop Planning
- Permaculture Workshops
- Climate Literacy Programs



Living Water

- Constructed Wetland Treatment System Design and Consultancy
- Water Harvesting Design and Consultancy
- Holistic Watershed Management Design
- Ornamental Ponds Design and Consultancy
- Bio Pools Design and Consultancy
- Aquatic Plant Nursery



Clean Energy

- Biomethanation Technology & Design
- Biogas Bottling & Purification Systems
- Biogas Compressors & Burners
- Biogas Generator Sets



Green Habitats

- Terrestrial Plant Nursery
- Landscape Architecture
- Ecological Masterplanning
- Biodiversity-Focused Landscape Design
- Native & Adaptive Planting Strategies
- Edible & Productive Landscapes
- Biophilic Design

Our Stakeholders



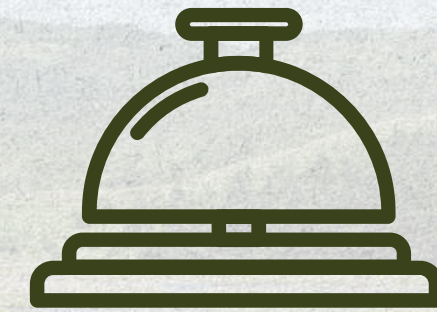
Corporates



Farms & Estates



Govt. & Institutions



Hospitality



Individuals



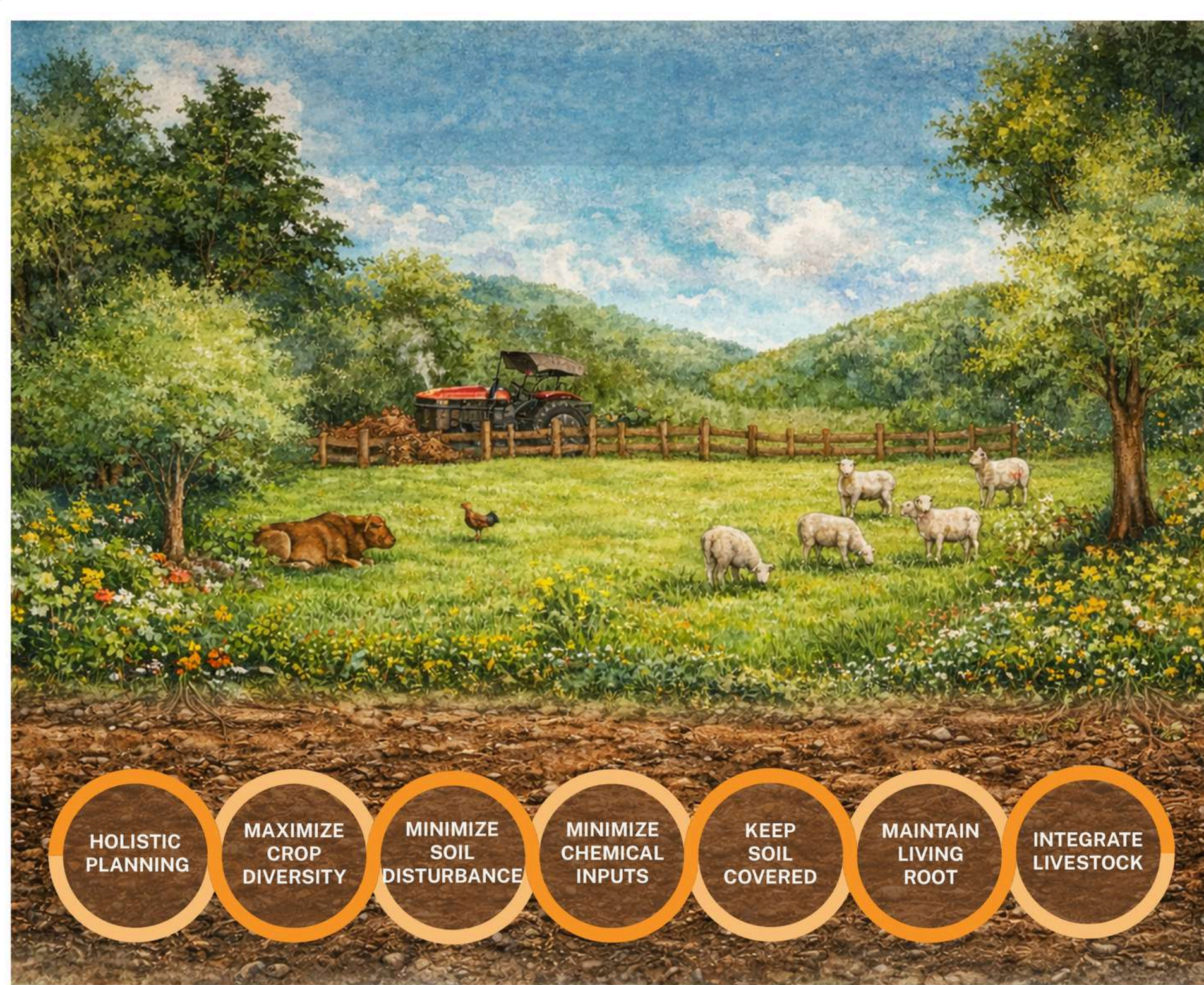
NGOs



Real Estate

Regenerative Agriculture

Offerings



Certified Organic Agricultural Inputs that cater to holistic nutrition & pest management for a wide variety of crops

Sustainable and Resilient agricultural protocol development & consultancy drawn from **permaculture** principles

Creating Closed-Loop agricultural systems that are self sufficient and have low wastage & minimal environmental footprint

Creating Soil Amendments such as **Biochar** using the unique **Adam-Retort®** technology to **restore soil fertility**

Facilitating Permaculture Workshops & Climate Literacy Programs to build awareness and capacity for sustainable living



Water Management **Nutrition Management** **Pest & Disease Management**

BIO WARRIOR **BIO STAR** **BIO MAGIC** **BIO SUPER** **BIO MIRACLE** **BIO VITAL** **BIO ELLIMINAT**

All our inputs are organic and biodegradable.



Living Water

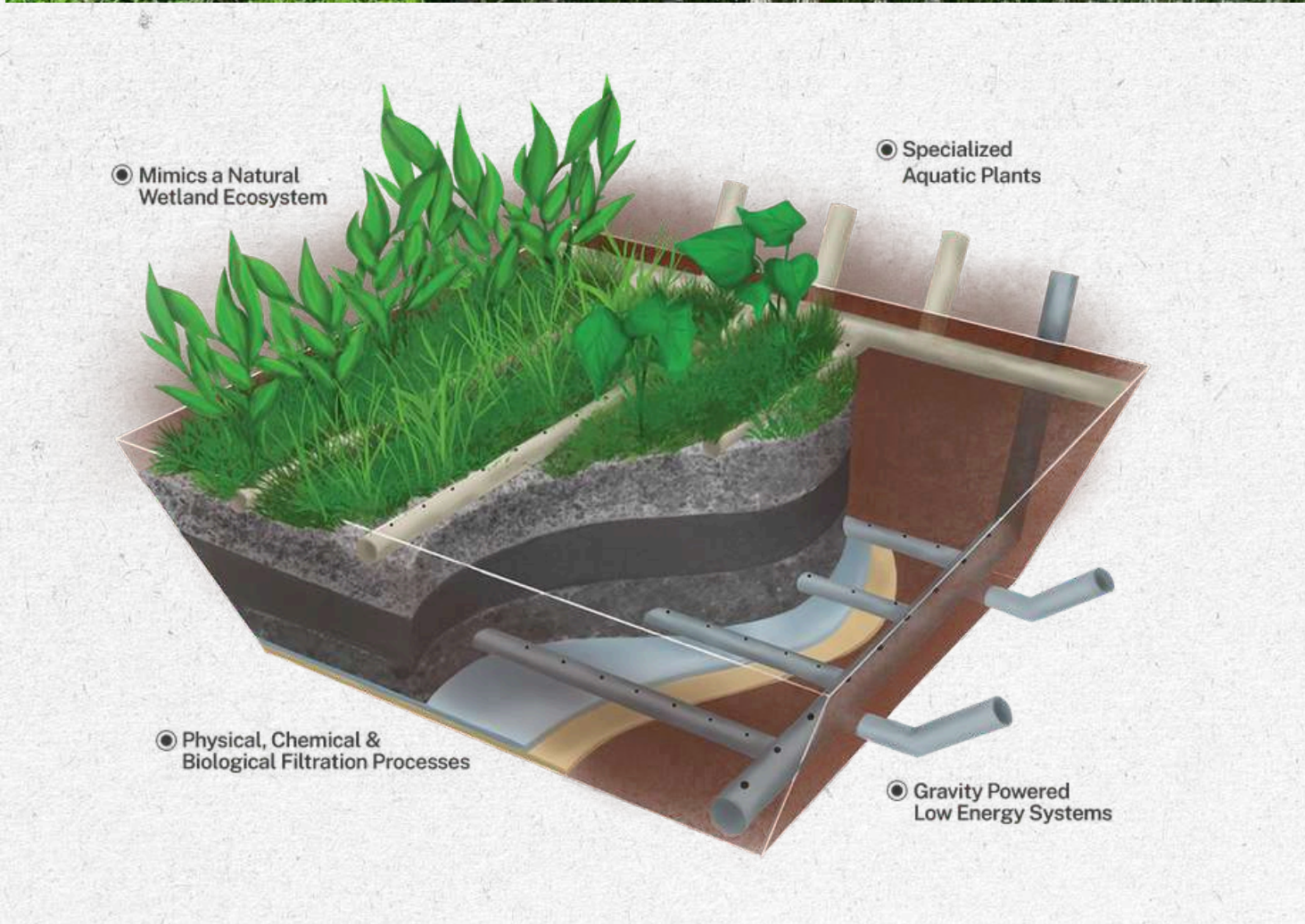


Offerings

Holistic Watershed Management: Water harvesting & conservation

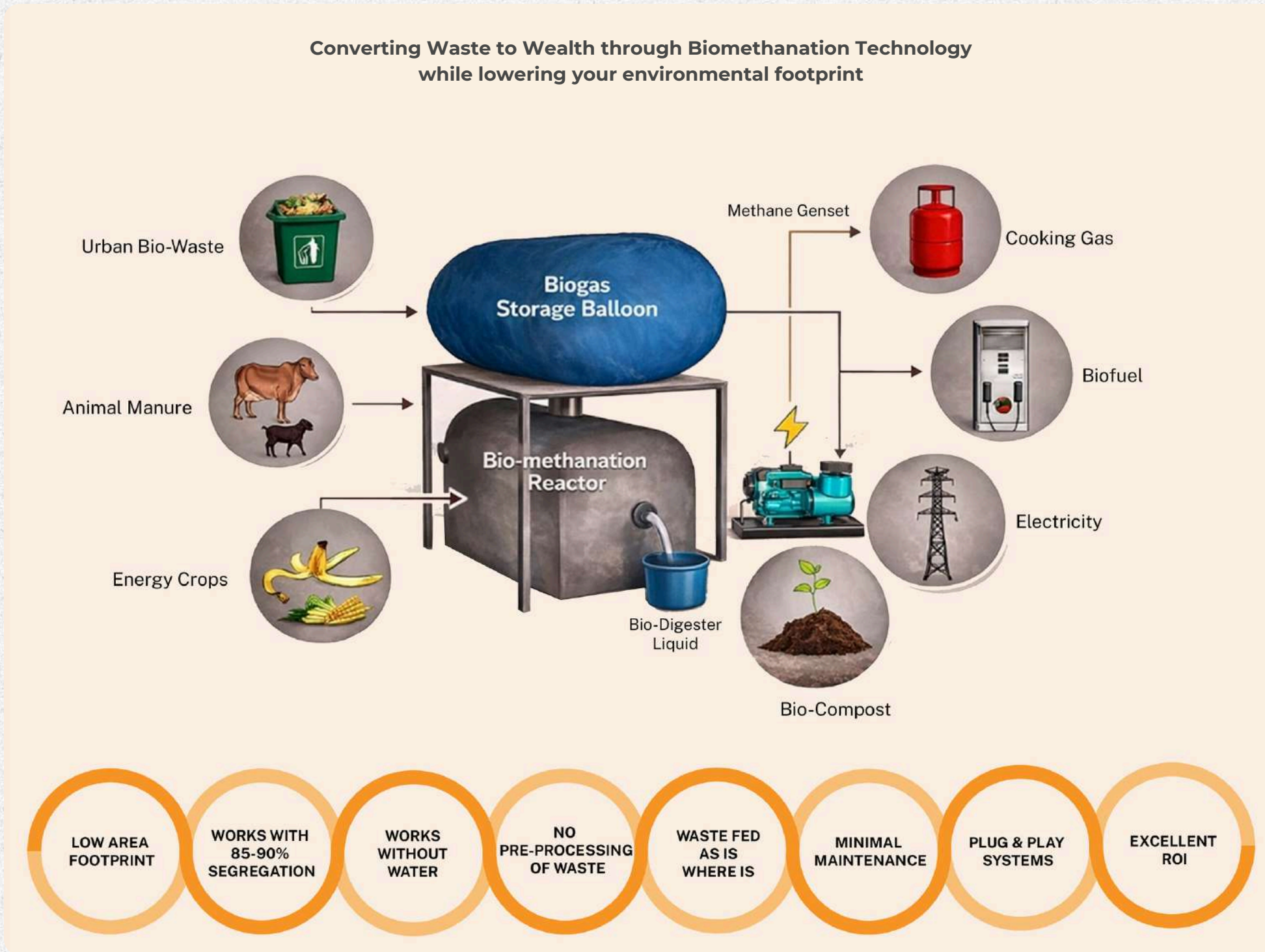
Constructed Wetland Treatment Systems (CWTS): Treating water through phytoremediation from wetland plants

The Water Nursery: Aquatic plants nursery in Hunsur with 150+ species being conserved & propagated



Clean Energy

Offerings



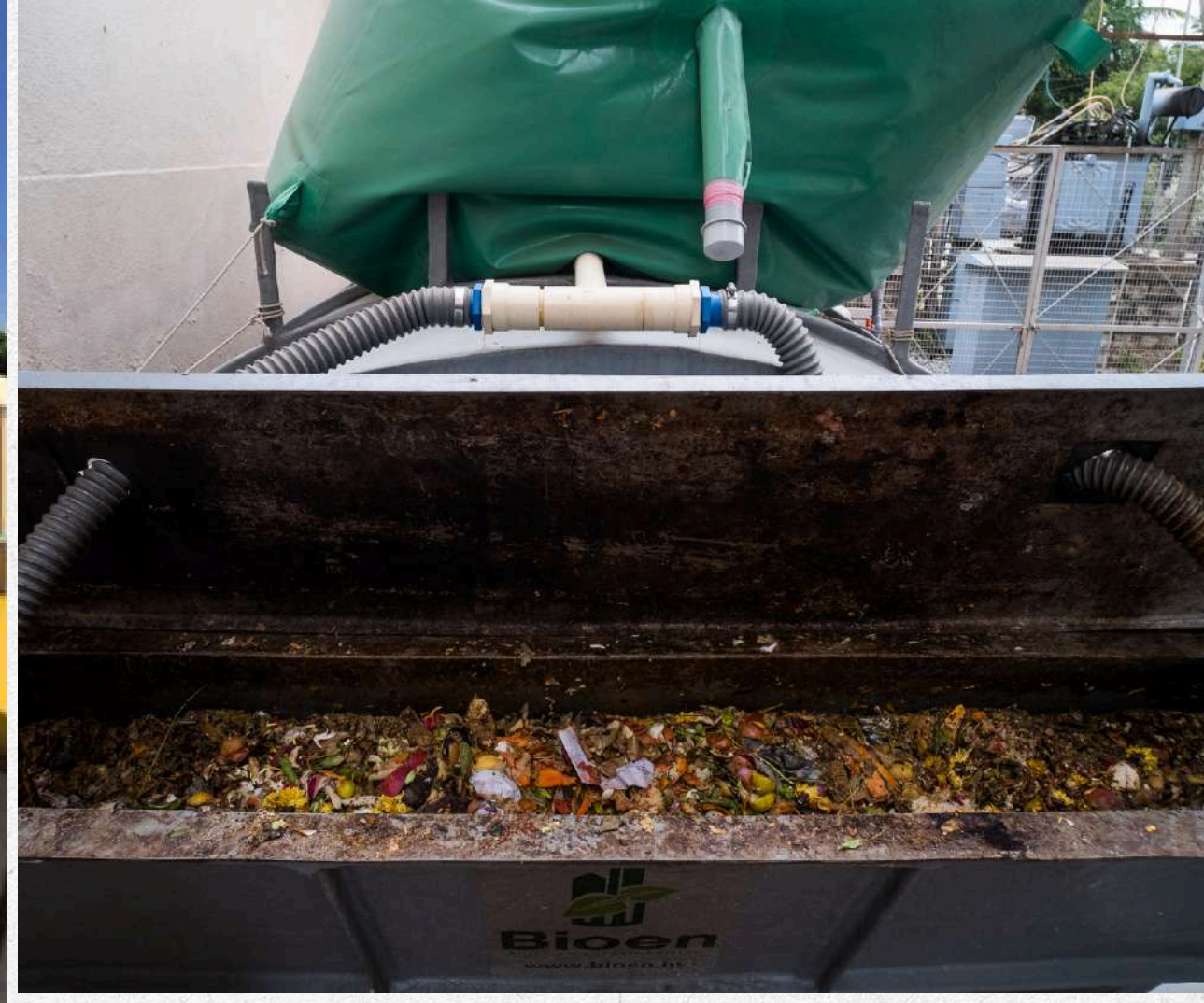
Biomethanation Technology is an environmentally friendly, cost-effective solution that generates various beneficial outputs using biomass

Closed-Grid Systems for waste management that convert waste to by-products that can be used within the same site

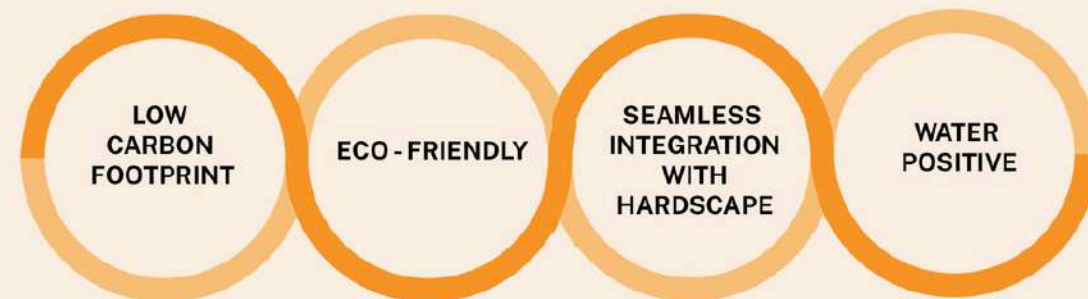
Clean Fuel in the form of biomethane

Clean, Renewable Energy generated from the biogas collected

Bio-Fertilisers and Bio-Compost that are sustainable agricultural inputs



Green Habitat



Offerings

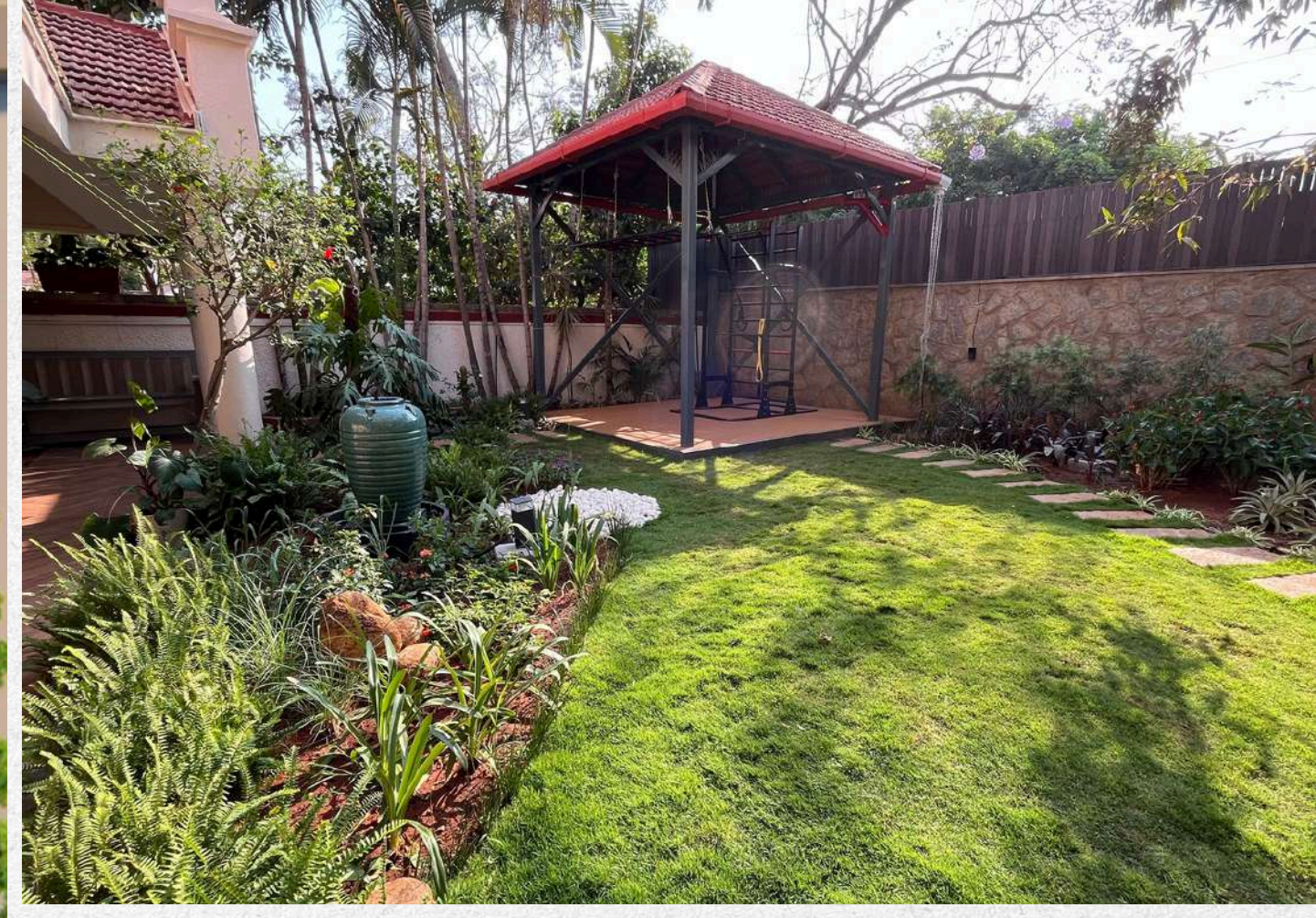
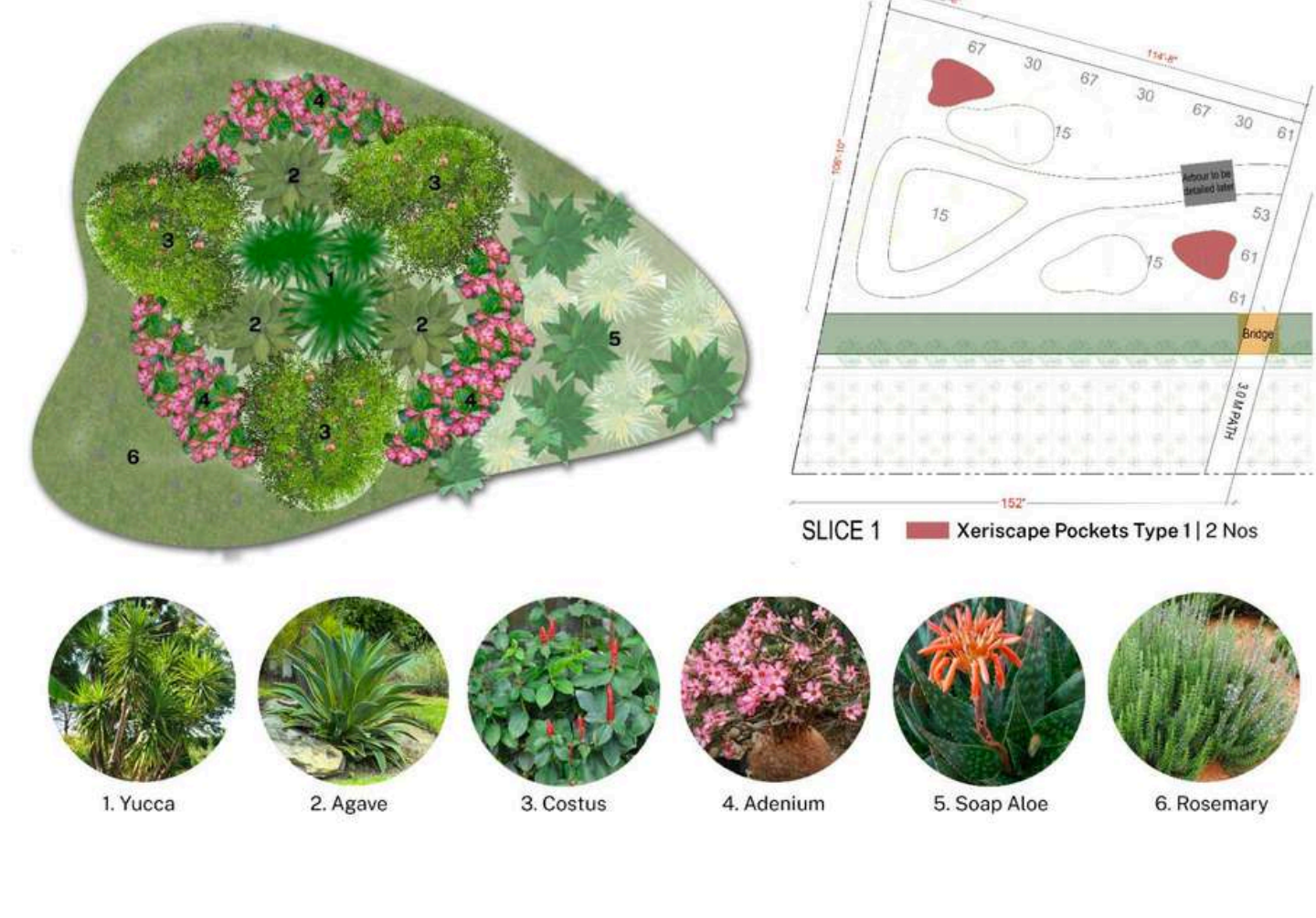
Balancing **aesthetic landscapes** with the tenets of **sustainability**: environment, economics and socio-cultural influences

Water management consultancy for ensuring water-sufficient and water-positive landscapes

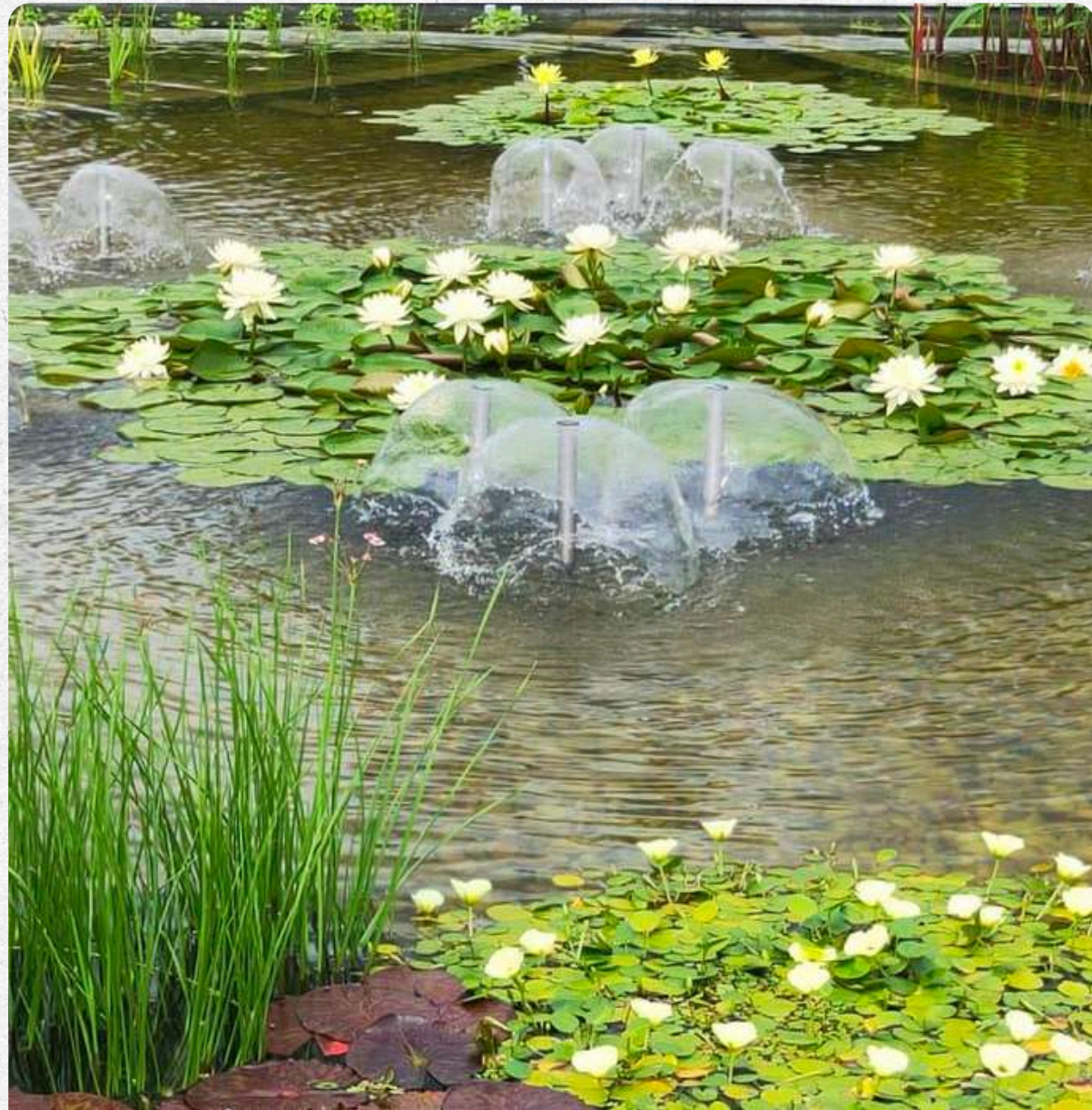
Multi-layered planting designs to ensure **biodiversity**

Creating **dynamic** and innovative aquatic & terrestrial features as beautiful elements that are easy to maintain

Conserving and using **native species** to ensure overall health of the designed landscape habitat











Our Farms & Estates

Yemmegundi Coffee Estate

Suntikoppa, Coorg



Located in Suntikoppa, Coorg, we cultivate coffee (Arabica & Robusta) and pepper on our **Yemmegundi Estate**

We have demarcated **5 acres** dedicated to pure permaculture cultivation. We market and sell our permaculture produce separately

Value addition using innovative methods such as coffee fermentation ('molecular coffee') allows us to create speciality coffee with an enhanced flavour and aromatic profile

Our coffee estate includes numerous regenerative practices such as creating and using our own **vermicompost, biochar** (produced in the Adam-Retort®)

We use a **Constructed Wetland System** that uses phytoremediation to treat our coffee pulping water - an effluent that is otherwise highly acidic and polluting for aquatic systems



The Forestry

Hunsur



The Forestry is our 8 Acre **citrus orchard** located in Hunsur, Karnataka. We use **regenerative practices** to ensure optimal soil health and therefore high quality of produce.

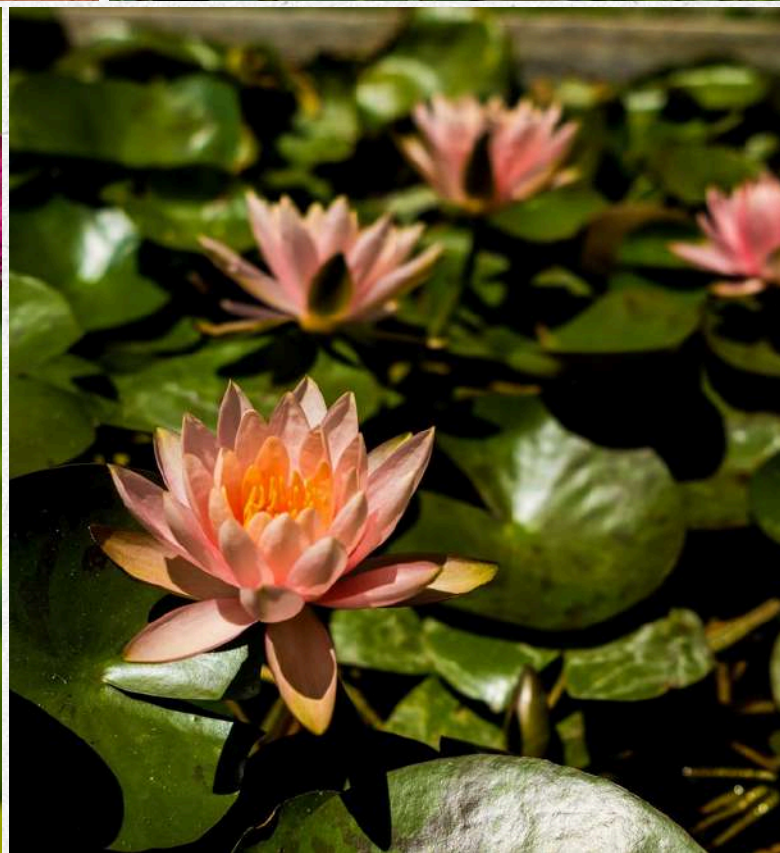
Our **soil management** protocol entails using our own microbial agri-inputs for holistic nutrient and pest management.

Our **Organic Wealth Centre** converts biomass to valuable **vermicompost** that boosts soil health and beneficial microbial activity. We also use **biochar** and practices like complementary planting and cover cropping to naturally mobilise nutrients to enhance plant health.

Additionally, we use drip irrigation to **conserve water** by ensuring precision irrigation and using compostable mulch sheets that retain moisture, prevent weeds and are microplastic-free.

The Water Nursery

Hunsur



Our **Water Nursery** located in Hunsur, Karnataka is an **aquatic plant nursery** where we have conserved over 200 species of native wetland and riparian habitat plants.

Many of these plants are highly **endangered** in India due to the destruction of wetland ecosystems

Plants from The Water Nursery are used for a range projects, namely:

- Constructed Wetland Treatment Systems
- Wetland Conservation
- Lake Restoration
- Natural Bio-Pools
- Ornamental Water Features
- Aquatic Microhabitats

Our nursery also attracts bird and insect **biodiversity**

The Coconut Plantation

Hunsur



The Coconut Plantation was built on an erstwhile textile mill. When Firefly acquired the plantation, we used **permaculture** practices to revive and improve the health of the trees

Using **circular guilds**, we intercropped the plantation with other species to create a more fertile, productive system that utilises resources optimally

A **Biomethanation Plant** set up on the plantation takes biomass and converts it to biomethane and other beneficial inputs like bio-fuel and electricity. Using this electricity for irrigation keeps our plantation **closed-loop** and **self-sufficient**

Bee keeping and extracting and branding honey and coconut oil are our **value-added** products from the Coconut Plantation



How We Work With You

We work with some of the top specialists in the industry and follow a **proven six-step process** to professionally manage and deliver our projects.

1. UNDERSTANDING YOUR VISION

We closely work with you and your team to understand your vision, requirements and ideas for your project.

2. PROJECT REQUIREMENTS

We capture your needs, desires, limitations and ideas in step 2, where we focus on extensive information gathering.

3. DATA COLLECTION & SITE SURVEY

Our experts conduct surveys to collect important data on hydrology, soil, topography and sources of material, plants and other components.

4. DESIGN & RECOMMENDATIONS

In this step, we develop the final design for the proposed system, integrated with the master landscaping layout of the site.

5. CONSTRUCTION & INSTALLATION

Our team and partners build and install the systems, provide all resources and hand-over the project to the client.

6. MONITORING & SUPPORT

To ensure the system installed is maintained and works efficiently, we provide ongoing monitoring, support, evaluation and training.

Our Ecosystem of Partners



CONNECT VENTURES

Transcending





ZSP is a design studio that focuses on creating spaces that are uniquely **elegant, creatively sound** and **sustainably aware**. Their projects combine aesthetics and functionality, translating each space with quality craftsmanship.



Phitons Bioengineering offers **sustainable packaging** solutions that go beyond biodegradability with the key vision of **eliminating micro-plastics** to foster a healthier planet for future generations.



Potential Health Development seeks to provide an **integrated approach** to better health. They provide a combination of lifestyle programmes, fitness and nutrition consulting, cutting edge diagnostics and in-depth research and analytics to create a holistic **Health Experience Ecosystem**.



Behavioural Foresight is a **Performance and Sport Psychology** lab that develops holistic practices, products and enduring hacks for everyday living. Their services aim to unlock the skills humans possess inherently, enabling them to transcend their fears, challenges and limitations to **live and perform optimally** in any situation.



Lucky Gods was started in 2018 as a fermented foods and beverages company. The focus of this venture was to address **gut-health** by introducing **functional foods** that have important implications to overall human health. We are supported by state of the art microbiomic and metabolomic testing.



Creating ecosystems that
enable functional, viable &
regenerative habitats for all.

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