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RED PIatform Whitepaper 2025

Software as a Service Solution for Sustainability and Renewable Energy

This document will be open for Public Consultation until August 17th, 2025. Please send your comments to support@redplatform.com.

1. Executive Summary

The RED Platform is a flexible software system that uses blockchain to help modernize how we manage sustainability. It allows businesses, governments, energy producers, and communities to easily track, certify, and earn from their environmental impact—with full transparency and automation.

Through a suite of integrated digital services, RED empowers its users to:

- **Certify renewable energy production in real time** using blockchain-registered Renewable Energy Origin tokens (REO-G).

- **Track and offset carbon emissions** through on-chain tokenized carbon credits validated under the RED Carbon Standard.

- **Calculate carbon footprints** across Scope 1, 2, and 3 emissions with full integration into enterprise systems via API.

- **Tokenize environmental assets,** including renewable energy rights, afforestation projects, and virtual solar modules (Solar NFTs),

- **Facilitate peer-to-peer energy trading, fractional PPAs, and virtual power plants** using smart contracts.

RED is a software platform that's easy to use and easy to connect with. You can access it through a web interface or connect it directly to your own systems using developer tools (APIs). It's built to work in all kinds of environments—from big companies and city governments to local communities.

Everything that happens on the platform—like energy certifications or carbon tracking—is **securely recorded on RED's state of the art custom-built blockchain "Zalmoxis"**. This means the data is transparent, can't be tampered with, and is ready to meet legal and reporting requirements.

Core Services at a Glance

- **RED Carbon Registry**: On-chain issuance and retirement of carbon credits

- **Carbon Footprint API**: Scope-based calculation and emissions reporting

- **Solar NFT**: Tokenization of fractional solar energy production

- **Environmental Asset Marketplace**: Transparent trading and ownership management

- **REDx** enables the **direct certification of renewable energy production on the blockchain in real time**.

- **RED Platform as SaaS solution** for franchisees and investors.

Target Clients

- **Renewable Energy Developers**: seeking faster financing and transparent certification tools

- **ESG-Driven Corporations**: looking for verifiable emissions reporting and offsets

- **Public Institutions & Municipalities**: in need of tools for smart city energy tracking

- **Energy Cooperatives & Prosumers**: managing distributed generation and local trading

By **combining blockchain, IoT, smart contracts, and environmental science**, the RED Platform delivers a scalable SaaS infrastructure that brings trust, efficiency, and automation to the global sustainability transition.

2. Market Context & Problem

The Global Push Toward Net Zero and ESG Compliance

Since the earlier parts of the year 2021, talks and actions regarding carbon emissions in the world certainly reached an all-time high. In an effort to do so by the Paris Agreement, political entities like the UK, EU and even the state of California have already set up mandatory carbon markets. These mandatory carbon markets will cover particular industry sectors.

A primary goal of the mandatory carbon markets is to ensure that global heating does not go more than 2 degrees Celsius north of pre-industrial levels. To reach this audacious goal, the global annual carbon emissions need to be cut by 50% by 2030 and eventually reduced to net zero by 2050.

Beyond the mandatory carbon markets, companies and organizations in other sectors of the economy formed the voluntary carbon markets. The voluntary carbon market is more fluid and not mitigated by boundaries. As fluid as the voluntary carbon markets are in their approach to reducing carbon emissions, the goal remains the same; cut carbon by 50% by 2030 and net zero by 2050.

At approx. 40 bill. tons of CO_2 emissions per year that's about 5 tons CO_2/person globally. Let's just take a second and think about it, Carbon is traded today at prices between 20 USD/ton for voluntary projects and 70 USD/ton inside the EU Emissions Trading System. That means

Carbon is a big business, if we take an average of 50 USD/ton of CO_2 that's a whopping 2 Trillion USD market. Our goal is to help people and organizations become aware of their carbon footprint and give them the tools and opportunities to monetize their positive actions and participate in this 2 Trillion Dollar market.

Climate change and resource scarcity have pushed governments, corporations, and communities around the world to adopt more aggressive sustainability goals. The 2015 Paris Agreement, the European Union's Green Deal, and the United Nations Sustainable Development Goals (SDGs) all reflect a growing consensus: we must urgently decarbonize the global economy.

As a result, the global market is rapidly transitioning toward **Net Zero emissions**, with thousands of corporations committing to measurable **ESG (Environmental, Social, and Governance)** targets. These commitments are driving demand for verifiable renewable energy sources, carbon credits, and transparency in sustainability accounting. However, this demand is colliding with critical infrastructure and operational challenges.

The Problem with Today's Sustainability Markets

Even though sustainability and ESG (Environmental, Social, and Governance) performance are becoming more important, the current systems used to manage and track environmental progress have serious flaws:

- **Hard to Trust the Data:** Many companies publish their own ESG or green energy reports without any independent verification. This creates space for "greenwashing"—when companies make claims that sound environmentally friendly but aren't backed by real action.

- **No Real-Time Tracking:** Most systems don't offer live data on how much clean energy is being produced or how much carbon is actually being reduced. It's hard to know what's really happening on the ground.

- **Small Projects Struggle to Get Funding:** Smaller renewable energy developers and local sustainability initiatives often can't access the money they need because certification is expensive, slow, and controlled by a few large players.

- **Carbon Markets Are Complicated:** Traditional carbon credit systems are slow, expensive, and full of red tape. This makes it difficult for everyday businesses and individuals to take part in offsetting carbon.

The RED Solution

The RED Platform was created to fix these problems. It offers a digital, easy-to-use system that brings **transparency, automation, and trust** to sustainability.

Powered by **blockchain and IoT**, RED allows for:

- **Real-time certification** of green energy and carbon reductions,

- **Automatic and secure data verification**, and

- **Open access** for companies, communities, and individuals to participate in the green economy.

With RED, you can prove, trust, and scale sustainability.

3. RED Platform as a SaaS Solution

The RED Platform is a **flexible, easy-to-connect software system** that helps organizations of all sizes measure and prove their sustainability efforts. Whether it's a large company, a city, a local energy group, or an individual expert, RED gives them ready-to-use tools powered by secure blockchain technology.

3.1 Modular SaaS Architecture

At its core, RED is structured as a **layered software platform** that enables users to access and combine sustainability tools as needed, without requiring in-depth blockchain knowledge.

Layer	Description
Application Layer	Web and mobile interfaces for end users (corporates, individuals, NGOs, franchisees)
API Layer	REST and Web3 APIs for enterprise integration with ERPs, IoT systems, e-commerce platforms
Smart Contract Layer	Pre-audited, modular contracts powering issuance, verification, tokenization, and staking
Blockchain Layer	Zalmoxis blockchain provides secure, immutable tracking of all transactions and claims

Each part of the RED Platform is built so it can run on its own. This means tools like the carbon registry or Solar NFT system can be updated or expanded individually—without slowing down or affecting the rest of the platform.

3.2. Core Characteristics

Blockchain-Backed Data Integrity

All transactions—whether energy production claims, carbon offsets, or tokenized asset transfers—are recorded on the **Zalmoxis blockchain**, a low-energy, EVM-compatible chain using a hybrid **Proof-of-Reputation + Proof-of-Stake** consensus model.

Real-Time Automation with Smart Contracts

Smart contracts power:

- **Automated issuance** of renewable energy and carbon certificates

- **Payouts** for Solar NFT holders

- **Marketplace** settlement and P2P energy trade resolution

- **Trigger-based actions** from IoT sensors (e.g., energy output > 5kW → mint REO-G token)

Seamless Integration with Existing Systems

RED's API suite allows integration into:

- **ERPs** (SAP, Oracle): carbon accounting and emissions reports

- **IoT Platforms** (Huawei, SMA): live data from solar inverters and smart meters

- **CRM & Procurement Systems**: emissions embedding in procurement workflows

- **Sustainability Reporting Tools** (CDP, GRI): auto-export for ESG reporting

Multi-Stakeholder Role Support

The platform supports tailored experiences for:

- **Renewable Energy Producers** (solar, wind, hydro)

- **Corporate Buyers** (for offsetting, ESG reporting)

- **Public Institutions** (city-wide energy transition programs)

- **Sustainability Consultants** (franchisees or API clients)

- **Individual Users** (offset, claim rewards, invest in projects)

3.3 SaaS-Enabled Feature Modules

Each tool can be used on its own or combined with others to create a complete sustainability system:

- **RED Carbon Registry**
  A clear and secure system for managing carbon credits from verified environmental projects. It supports both RED's own standard and other trusted certifications.

- **Carbon Footprint Calculation API**
  A tool that helps businesses measure their carbon emissions (Scope 1, 2, and 3) in real time. It pulls data from meters, bills, shipping systems, or manual entries—and can be branded for use by sustainability consultants.

- **Solar NFT Platform**
  Lets people invest in solar energy by owning a small share (NFT) of a project. Investors earn payouts from the energy generated, and they can sell their share at any time—automatically handled by smart contracts.

- **REDx Real-Time Energy Certification**
  Uses blockchain and the connection to the inverters to track clean energy production directly at the source. The data is securely recorded on the blockchain. This enables:

  - Verified tracking of where green energy comes from

  - Peer-to-peer energy trading

  - Split ownership of energy agreements (fractional PPAs)

- **NF3 Environmental Asset Tokenization**
  Turns natural assets—like forests and wetlands—into digital tokens using satellite data and scans. These tokens can be bought, sold, or retired to support conservation and offset carbon emissions.

3.4. Scalability and Extensibility of RED Platform

Organizations can build **new SaaS modules on top of RED** using:

- **Customizable Solutions:** New SaaS products can be developed on the platform using the Zalmoxis Blockchain and existing legal frameworks.

- **Multi-Industry Applications:** Beyond energy, the platform can be extended to carbon credits, sustainable supply chain management, ESG reporting, and even biodiversity tokenization.

- **Legal Framework:** RED Platform's solutions are compliant with EU ESG standards, MiCA regulations, and globally recognized carbon and energy standards.

- **Franchise & White-Label Opportunities:** SaaS can be deployed by partners under their own brand.

RED Platform is flexible enough to support new products on top of its blockchain system, and it works within existing legal and environmental standards.

RED isn't just for energy—it can also be used for carbon credits, ESG reporting, sustainable supply chains, and even protecting nature. Businesses and partners can also run RED under their own brand through franchise or white-label options, making it easy to bring these solutions to local markets.

3.5 Deployment Options

RED SaaS can be deployed based on user scale and integration needs:

Model	Description
Cloud-Based SaaS	Hosted by RED, maintained and updated automatically. Ideal for SMEs and local institutions.
White-Label Deployment	Customized front-end, domain, and localized branding for franchisees or institutional partners.
API-Only Integration	Full control for large enterprises to embed RED functionality directly into their internal systems.

All deployment options include role-based access control to manage user permissions securely, multi-language localization to support global users, and ongoing technical support with optional Service Level Agreements (SLAs) to ensure reliable performance and service quality.

3.6 Franchise & Licensing Opportunities

- **Franchisees** can operate localized sustainability service businesses using RED SaaS modules, fully translated and customized.

- **Consulting Firms** can license modules such as the Carbon Footprint API or Solar NFT issuance tools to add new digital revenue streams.

The RED Platform brings together **easy-to-use software and the trusted security of blockchain**. It's the first flexible digital system built for environmental impact that anyone can set up and start using—quickly and from anywhere.

4. RED Platform Core Modules

4.1. REDx Real-Time Certification and Tokenization of Renewable Energy

REDx is a complete solution for certifying renewable energy production in real time using blockchain technology. It is designed to support local energy communities and clean energy producers by enabling them to automatically track, verify, and tokenize the energy they generate. By combining automation, data integrity, and smart integration, REDx offers a secure and transparent process that simplifies the path from energy generation to certified digital assets.

The system works by connecting directly to renewable energy sources such as solar panels, wind turbines, hydropower stations, and biogas facilities. **It captures production data in real time through direct integration with smart inverters.** Once collected, this data is cryptographically signed and transmitted to the Zalmoxis blockchain, where it is instantly verified and permanently recorded. After certification, the energy is automatically tokenized into Renewable Energy Origin Guarantee (REO-G) tokens. These tokens can be stored by the energy producer, traded on the marketplace, or retired to offset carbon emissions.

Beyond certification, REDx includes several advanced functionalities that extend its value. Users can create and manage fractional Power Purchase Agreements (PPAs) directly on the blockchain, allowing for more flexible and inclusive energy sales. **The platform also enables the creation of Virtual Power Plants (VPPs)** by aggregating certified energy from multiple producers into unified digital energy pools. This aggregation strengthens local energy resilience and expands access to clean power. In addition, certified energy can be exchanged directly between users through secure peer-to-peer (P2P) trading mechanisms, encouraging local energy sharing and price transparency.

All activities within REDx are logged immutably on the blockchain, ensuring that energy production and transactions are auditable and traceable for compliance with environmental regulations and ESG reporting requirements. The platform maintains a complete historical record of energy output, tokenization, and trades, which can be accessed at any time for verification or analysis.

REDx supports a wide range of energy sources, including solar, wind, hydro, geothermal, and biogas. Its architecture allows for seamless integration via API, enabling quick deployment across new or existing infrastructure. Certification and tokenization are fully automated, minimizing the need for manual processes. Importantly, REDx is designed to comply with global sustainability standards, including the EU Green Deal and the GHG Protocol, making it suitable for international use by enterprises, cooperatives, and public institutions.

By turning clean energy into trusted digital assets, REDx not only improves transparency and accountability but also unlocks new opportunities for financing, trading, and scaling renewable energy in both centralized and decentralized ecosystems.

Use Cases:

- **Energy Producers:** Certify renewable energy production in real-time, creating verifiable green energy assets.
- **Corporate Buyers:** Secure access to verifiable green energy for ESG reporting and carbon neutrality.
- **Energy Communities:** Establish P2P trading networks for community-produced energy.
- **Virtual Power Plants (VPPs):** Aggregate energy from multiple certified sources to participate in larger energy markets.
- **Government Compliance:** Public institutions verify renewable energy production for green initiatives.

Strategic Benefits:

- **Trust and Transparency:** Real-time certification and immutable blockchain records ensure that energy claims are verifiable and tamper-proof.
- **Automated Compliance:** Meets international renewable energy standards (EU Green Deal, GHG Protocol).
- **Scalability:** Can be deployed across multiple regions and integrated with various energy production systems.
- **Seamless Integration:** Works alongside other RED Platform modules, including the RED Carbon Registry and the Carbon Footprint API.

4.2. RED Carbon Registry: Tokenized Carbon Credit Management

The RED Carbon Registry is a blockchain-based system designed to manage carbon credits in a transparent, traceable, and secure way. Built on the Zalmoxis blockchain, it ensures that each carbon credit is verifiable and tied to real environmental action. By using blockchain technology, RED eliminates the risks of double-counting, fraud, or unverified claims that often affect traditional carbon markets.

Carbon credits on the RED Platform are tokenized as non-fungible tokens (NFTs), with each token representing the verified removal or avoidance of one tonne of CO_2. These NFT-based credits are permanently recorded on the blockchain, providing a clear, tamper-proof record of origin, ownership, and transaction history. When a credit is used to offset emissions, it is automatically retired by the system, and a permanent proof of offset is generated. This creates a transparent audit trail for anyone—whether an individual buyer, a business, or a regulator—to verify.

The RED Carbon Registry supports carbon credits issued under the RED Carbon Standard as well as other recognized certification frameworks. It integrates directly with sustainability

projects, validators, and auditors to ensure that all credits listed are legitimate and backed by real environmental impact. Projects can include afforestation and reforestation, renewable energy production, waste-to-energy conversions, and other emissions reduction initiatives.

Real-time tracking and automated reporting are built into the system, giving users instant visibility into credit issuance, transfers, and retirements. By using blockchain as the foundation, the RED Carbon Registry not only enhances trust and traceability but also makes participation in the carbon market more accessible, secure, and future-ready.

Advanced Functionalities:

- Automated verification of carbon credits using smart contracts.
- Carbon credit marketplace.
- Secondary market for trading tokenized credits.

Use Cases:

- **Companies** purchase and retire carbon credits for net-zero commitments.
- **Developers** list verified carbon offset projects for funding.
- **Municipalities** offset public sector emissions transparently.

4.3. Carbon Offset and Sustainability Solutions for Business and Individuals

The RED Platform offers a complete suite of carbon offset and sustainability tools for both individuals and organizations. At the individual level, users can access a simple, user-friendly carbon footprint calculator that asks lifestyle-based questions to estimate emissions from daily activities such as travel, home energy use, and personal consumption. Once their footprint is calculated, users can choose to offset their emissions through automated options that issue verifiable NFT Carbon Offset Certificates. These certificates serve as on-chain proof that a user's carbon impact has been addressed through real environmental projects.

For businesses, RED provides a powerful corporate carbon footprint calculator that automates emissions tracking across all three scopes (Scope 1, 2, and 3). The tool is designed to integrate seamlessly with existing systems such as ERP software and IoT devices, allowing companies to collect real-time data on energy use, transportation, production, and more. Industry-specific models are available to provide accurate assessments tailored to sectors like manufacturing, retail, and logistics. Once emissions are calculated, companies can directly offset them by purchasing tokenized carbon credits from the RED Carbon Registry.

The platform also includes several advanced features to support more in-depth sustainability planning. Real-time data integration enables live emissions tracking, while the system can also generate personalized carbon reduction recommendations based on a company's or user's specific behavior. Offsetting is automated, with the platform matching calculated emissions to

appropriate, verified credits from ongoing sustainability projects. For developers and consultants, **RED offers API integration, allowing third-party platforms to plug directly into its carbon calculation and offset tools.** This makes RED's sustainability solutions both powerful and easy to adopt, helping individuals and organizations take real, measurable steps toward climate responsibility.

4.4. RED Solar NFT: Fractionalized Renewable Energy Ownership

Speeding up the growth of renewable energy is essential for tackling climate change. To help drive this shift, Restart Energy and the RED Platform developed the **Solar NFT**—a simple and accessible way for everyday people to invest in clean energy. This innovation works by dividing large-scale solar projects into smaller, digital shares called Solar NFTs, making it possible for anyone to take part in renewable energy production through a streamlined, standardized process. **Solar NFTs**, represent **fractional ownership of physical renewable energy equipment** that powers **Virtual Power Plants (VPPs)**.

This system enables retail and institutional participants to own parts of a clean energy infrastructure—specifically, **solar photovoltaic (PV) equipment**—without managing construction or operations themselves. Each Solar NFT corresponds to a defined physical fraction of solar equipment (such as panels or inverters), which is assigned to solar development projects listed on the RED Platform.

These equipment fractions reflect **real-world hardware ownership**. The hardware is subsequently **leased to vetted solar project developers**, who install and operate it as part of large-scale solar plants. In return, the NFT holders—owners of the equipment—receive **rental income or the produced energy for personal usage**.

A New Model of Decentralized Energy Ownership

Through the RED Platform, users acquire Solar NFTs which reflect their fractional equipment ownership. These components are then deployed across renewable energy projects. The result is a **Virtual Power Plant (VPP)**: a digital aggregation of all equipment held by a specific NFT holder.

This VPP model ensures that owners gain the benefits of large-scale infrastructure while retaining clear and traceable asset ownership.

Revenue and Utility Model

Project developers who lease the equipment from NFT holders are responsible for **paying rent** under smart contract agreements facilitated by the platform. These rental payments may be made in:

- **Cash (fiat or stablecoins)**

- **Physical electricity**, delivered directly to the owner's place of consumption through **RED's energy supply partners**, where local regulation allows.

This hybrid model—rent in energy or cash—creates flexibility and maximizes alignment between asset ownership and real-world utility. It also allows end-users to **consume the energy produced by their own virtual plant**, reducing costs and increasing energy independence.

Ownership & Proof

Each Solar NFT is issued as an ERC-721 token, embedding:

- TokenID: A unique identifier for each Solar Project NFT.
- Owner: The Ethereum address of the current owner of the NFT.
- Stake Reason: The reason for staking, i.e., whether it's for tokenised energy rewards or rent benefits.
- Solar Park Identifier: Name of the solar park where the PV module is located.
- Solar Park Project URL: The public page of the project implementation
- Date of Stake: When the PV Module NFT was staked to create this Solar NFT.
- Energy Capacity: The energy production capacity of the staked PV modules.
- Location: The geographical location of the solar park.
- Manufacturer: The manufacturer of the PV modules assigned to the project.
- Installation Date: The date when the PV module was installed.
- Performance History: A record of the PV module's performance data over time.
- Benefit Records: A record of the benefits (energy tokens or rent) distributed to the NFT holder over time. (This will be a link to an off-chain database).

All NFTs and associated rental flows are recorded on the **Zalmoxis blockchain**, ensuring traceability and preventing disputes. Ownership can be transferred, NFTs can be resold, and rent payments are automatically distributed via smart contracts.

Benefits for Stakeholders

This model supports RED's broader mission: to decentralize the ownership of clean energy and democratize access to its financial and environmental benefits—creating a world where anyone, anywhere, can be a renewable energy owner.

The process begins with investors purchasing high-quality solar photovoltaic (PV) modules from Solar NFT projects listed on the RED Platform marketplace. After selecting a project, investors review and sign a digital contract, pay a Balance of System (BOS) fee—covering components like inverters, cables, and installation—and receive an NFT representing their share of the project directly in their digital wallet. For those not ready to commit to a project immediately, the platform offers flexible options. Investors can choose to store their modules until a suitable project becomes available or request delivery for personal use.

This system brings value to multiple stakeholders. For **project developers**, it offers fast, cost-effective funding through a crowdfunding model—especially useful for developers who may not qualify for traditional bank loans. RED's integrated platform simplifies the entire process of listing, funding, and launching clean energy projects. **Retail investors** gain entry to the renewable energy market without needing to manage hardware or installations. They can invest in virtual solar plants and earn returns from the energy produced, receiving automatic payouts through smart contracts. **Energy consumers** benefit too, gaining access to affordable green energy even if they cannot install solar panels themselves, while also contributing to sustainability efforts.

RED Platform franchisees can also take part in this ecosystem by onboarding clients and sustainability projects. They earn income from transactions related to project funding, carbon credit trading, and Solar NFT investments, supported by RED's blockchain infrastructure. This model opens the door to long-term business opportunities and recurring revenue streams.

The strategic advantages of Solar NFTs are significant. The model allows developers to raise capital from a global pool of small investors without needing complex financial tools. Ownership of each share is recorded as a blockchain-based NFT, offering secure, transparent, and easily verifiable proof of participation. Investors receive rent automatically based on the energy their share generates, providing passive income with no manual processing. Since Solar NFTs are available to retail investors worldwide, this model helps democratize access to renewable energy and brings meaningful financial and environmental impact within reach of the general public.

4.5. Renewable Energy Solutions

The RED Platform offers a range of innovative tools that make renewable energy production easier to track, certify, and trade. At the heart of this system are **REO-G tokens**—digital certificates issued automatically as NFTs for each unit of verified renewable energy generated. These tokens are created using real-time data from energy sources such as solar panels, wind turbines, and hydroelectric plants, with integration support for smart meter APIs from major providers like Huawei and SMA. Once issued, REO-G tokens can be stored, traded, or retired, with every action recorded securely on the blockchain. Users also have access to an NFT marketplace where REO-Gs can be exchanged with instant liquidity, and a full historical record of energy production and certificate redemption is maintained for transparency and compliance.

In addition to tracking, the RED Platform features a **Renewable Energy PPA Marketplace**, which tokenizes Power Purchase Agreements (PPAs) as ERC-721 NFTs. These tokenized contracts represent energy supply deals that can be traded in a decentralized, secure environment. The marketplace also supports **crowdfunding** for renewable energy projects, making it possible for developers to raise capital directly from the community. Through fractional ownership of PPAs, retail investors can participate in energy markets without the need for large upfront investments or physical infrastructure.

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Together, these renewable energy solutions empower producers, investors, and consumers to take part in a more transparent, accessible, and efficient green energy economy—while reinforcing the credibility and financial value of every kilowatt produced.

4.6. ESG Tokens Launchpad

The RED Platform includes a user-friendly system for the creation and launch of custom **ESG (Environmental, Social, and Governance) tokens**, allowing individuals, communities, and organizations to design and distribute their own sustainability-focused digital assets. Users can set up new tokens by defining key details such as total supply, intended use, and potential reward mechanisms. Before going live, each token proposal may go through a community review or approval process to ensure alignment with RED's sustainability goals and standards.

The platform already supports existing ESG tokens like **GTK (Green Tokens)**, which reward users for verified renewable energy consumption. In addition, it allows for the creation of customized tokens linked to specific community projects, corporate sustainability programs, or broader environmental and social impact goals. These tokens can represent anything from clean water access to plastic collection or biodiversity protection.

To increase engagement, RED also includes features like **staking rewards** for ESG token holders, encouraging long-term participation in climate-positive activities. As users reach sustainability milestones, they can also receive **NFT-backed achievements**, such as digital sustainability badges that reflect their contributions. This combination of flexibility, transparency, and gamified impact makes RED's ESG token system a powerful tool for building meaningful climate and social programs.

4.7. Digital Assets Management

The RED Platform includes a powerful, multi-functional **marketplace** designed to support sustainable projects, digital assets, and climate-positive products. It serves as a central hub where users can browse and invest in green initiatives, trade tokenized assets, and discover verified sustainability solutions. The marketplace also provides **liquidity** for key trading pairs, including MWAT, and allows for the listing of projects that involve renewable energy, carbon offsets, and environmental asset tokenization.

Within the marketplace, the **RED Exchange** offers a secure and efficient environment for trading sustainable tokens. It features low transaction fees, advanced trading tools, and API access for users who want to automate their strategies or integrate trading into their own platforms. All transactions are fast and transparent, supporting both seasoned crypto users and those new to the space.

To manage digital assets, users have access to the **RED Wallet**, a secure, all-in-one tool for storing and transferring tokens such as MWAT, REO-G, GTK, and Solar NFTs. The wallet works on both web and mobile devices and includes enhanced security features like biometric login and multi-asset support, making it easy and safe for users to interact with RED's ecosystem.

The RED Platform is built on an **API-first Software-as-a-Service (SaaS)** model, offering integrated tools for businesses, developers, and energy providers. Companies can use RED's services to track carbon emissions, certify renewable energy production, and manage tokenized environmental assets—all through a unified digital interface. Energy and gas suppliers can directly onboard to the platform, providing customers with access to real-time production data, verified certifications, and transparent billing.

For individual users, the platform offers features such as carbon footprint calculation, the ability to choose green energy suppliers, and reward systems tied to eco-friendly actions using green tokens. RED also supports **community-driven innovation**, allowing users to submit proposals for new sustainability initiatives. These proposals can be reviewed and approved by the wider community, ensuring that RED continues to grow as an open, collaborative, and impact-focused platform.

4.8. NF3: Tokenized Carbon Offsetting and Sustainable Forestry

NF3 [implemented, not active yet] is a blockchain-based system designed to integrate environmental sustainability with digital asset technology. The platform tokenizes real-world trees into NFTs (non-fungible tokens) using advanced LiDAR scanning and blockchain infrastructure. These NFTs represent individual trees and provide traceable data on their environmental contributions, such as carbon dioxide absorption, enabling secure carbon credit trading and sustainable forest management.

As global efforts to mitigate climate change accelerate, innovative approaches are required to connect economic incentives with ecological conservation. NF3 leverages blockchain technology and advanced environmental data collection methods to facilitate transparent, traceable, and scalable solutions for carbon credit generation and trading.

By tokenizing real-world assets—trees—NF3 enables a new model of ownership that links verified environmental contributions directly to digital assets.

Technology Overview

LiDAR Scanning

NF3 utilizes Light Detection and Ranging (LiDAR) technology to scan and measure trees. LiDAR employs laser-based sensors to collect high-resolution 3D spatial data, which is used to create a digital twin of each tree.

Metrics Collected

- **Diameter at Breast Height (DBH)**: A standard measure of tree growth and wood volume.
- **Tree Height**: Used to estimate biomass and carbon storage.
- **Wood Volume**: Indicates the tree's capacity for carbon capture.

- **CO2 Absorption**: Provides quantifiable data for carbon credit issuance.

The collected data is uploaded to the Zalmoxis blockchain, ensuring immutability and traceability.

NF3 Token Architecture

Each NF3 token is an NFT minted on the Zalmoxis blockchain, representing a specific tree in a verified afforestation project. The token contains metadata about the tree's location, dimensions, carbon absorption rates, and associated project details.

Key Properties

1. **Digital Ownership**: Token holders gain ownership of the rights to carbon credits generated by the corresponding tree.
2. **Traceability**: Blockchain records ensure a verifiable history of environmental contributions.
3. **Interoperability**: Tokens are tradable and can be integrated into broader carbon trading markets.

NF3 Marketplace

The NF3 Marketplace is an online platform hosted on the RED Platform where users and project developers can trade NF3 tokens.

Functionality

- **Token Trading**: Buy, sell, and exchange NFTs representing real-world trees.
- **Carbon Credit Management**: Transfer or claim carbon credits associated with tokenized trees.
- **Data Transparency**: Access detailed records of each tree's environmental metrics.

The marketplace facilitates direct participation in carbon offset initiatives, creating a decentralized ecosystem for sustainable asset management.

Carbon Credits

Each NF3 token corresponds to carbon credits generated by the associated tree's CO2 absorption. These credits are calculated based on data from LiDAR scans and updated as the tree grows.

Use Cases

- **Carbon Offset**: Individuals and companies can use credits to reduce their carbon footprints.

- **Market Trading**: Credits can be sold or exchanged in voluntary or compliance-based carbon markets.
- **Long-term Value**: Credits act as an investment in sustainable environmental initiatives.

For Project Owners: Tokenization Framework

NF3 provides a streamlined process for afforestation projects to tokenize their assets and monetize carbon credits.

Steps

1. **Tree Scanning**: Collect data using LiDAR technology.
2. **NFT Minting**: Convert scanned trees into NFTs on the Zalmoxis blockchain.
3. **Carbon Credit Verification**: Calculate and verify CO_2 absorption metrics for each tree.
4. **Marketplace Listing**: List tokenized trees for trading and carbon credit generation.

Benefits

- Secure and transparent carbon credit accounting.
- Access to a global market for sustainability-focused investors.
- Monetization of environmental assets through token trading.

NF3 Franchise Model

The NF3 franchise framework offers developers and entrepreneurs access to the tools and networks required to scale sustainability projects. Franchisees can tokenize new afforestation initiatives and manage carbon credit generation.

Franchise Benefits

- **Technical Support**: Access to RED Platform's project management and monitoring tools.
- **Market Entry**: Integration with the NF3 Marketplace for global reach.
- **Revenue Generation**: Monetize carbon credits while contributing to climate change mitigation.
- **Compliance and Certification**: Receive support for meeting regulatory standards and certification requirements.

Environmental and Economic Impact

NF3 connects financial value with environmental action. It provides a safe and transparent way to trade carbon credits, helping support global efforts to fight climate change.

Environmental Benefits

- Enhanced transparency in carbon credit issuance.

- Incentivized afforestation and forest conservation.
- Scalable solutions for carbon offset initiatives.

Economic Benefits

- New revenue streams for project developers and token holders.
- Increased accessibility to carbon markets.
- Long-term value creation through sustainable asset ownership.

This feature was developed by Polaris Malta in collaboration with the RED Platform technology, combining advanced geospatial data processing with RED's blockchain-based sustainability infrastructure. It utilizes the **RED Carbon Standard** to certify carbon credits in a transparent, traceable, and verifiable manner, ensuring full compliance with international climate accounting protocols.

This feature is used with the measurement services provided by Polaris Malta, ensuring the scientific rigor and environmental credibility of all issued credits. By integrating cutting-edge remote sensing with decentralized certification, Polaris Malta and RED are setting a new standard for data-driven, on-chain carbon offset solutions.

4.9. RED V-LEC: Virtual Local Energy Communities

RED V-LEC [to be implemented] will be a core module within the RED Platform designed to enable the formation, governance, and operation of decentralized **Local Energy Communities** (LECs), fully compatible with EU and Romanian legal frameworks, including **GEO 143/2021** (Citizen Energy Communities) and **GEO 163/2022** (Renewable Energy Communities).

RED V-LEC uses blockchain and smart automation to help people, businesses, and local governments work together to manage and share clean energy. It allows members of a community to set up and run their own local energy group—where they can produce, use, and trade renewable energy directly with each other.

All actions—like joining the community, voting on decisions, recording energy use, or changing suppliers—are stored securely and transparently on the blockchain. This means everything is clear, traceable, and tamper-proof.

With RED V-LEC, communities can cut out middlemen, save money, and take more control over their energy use. It turns energy consumers into active participants in the green transition, while supporting local jobs and reducing environmental impact.

Key Features

1. **Franchise-Based Community Management**
   Micro-entrepreneurs can create and operate RED V-LECs under a tokenized franchise model, acting as **Energy Managers (EMs)**. EMs are responsible for community setup,

member onboarding, and contractual operations while maintaining transparency via on-chain governance.

2. **Modular Governance & Voting**
   Each community defines its own rules: open/closed membership, voting rights, board structure, EM delegation, and fee policies. All community decisions—including supplier changes, funding approvals, and strategic directions—are logged on Ethereum for transparency and compliance.

3. **Smart Data Capture & Visualization**
   Members (households, prosumers, SMEs) submit consumption and contractual data through automated onboarding flows. RED's backend parses POD codes, billing data, and licensing docs, generating **consumption profiles and forecasts** in real-time, enabling smarter energy procurement and balancing.

4. **Decentralized Peer-to-Peer Energy Trading**
   Members can directly trade renewable energy and flexibility via tokenized contracts. Transactions are aggregated into daily blockchain hashes. Virtual PPA auctions and dynamic pricing tools are integrated to enable **community-level demand response** and grid optimization.

5. **Renewable Impact Accounting & Marketplace Integration**
   Each V-LEC tracks and certifies environmental benefits (e.g., CO_2 reduction through REO-G tokens). A marketplace module allows certified vendors, installers, and energy professionals to offer validated services to the communities.

6. **Compatibility with Romanian Energy Law**
   RED V-LEC complies with:

   - **Licensable & non-licensable community models**,

   - Community empowerment and democratic control principles,

   - **Data sovereignty** and GDPR-compliant user onboarding,

   - Technical and organizational independence, aligning with the RED II Directive and Romanian transpositions (GEO 143/2021 and GEO 163/2022).

Legal & Strategic Alignment

RED V-LEC is positioned as a **middleware layer** enabling the digital transformation of LECs in countries where legislation allows their implementation. By abstracting regulatory complexity into smart contracts, standardized data models, and blockchain notarization, RED provides a

compliant-by-design environment where local actors can safely participate in the energy transition.

RED's modular architecture also supports **integration with Energy Suppliers**, third-party CRMs, and metering systems via secure APIs.

5. RED Carbon Standard and the RED Registry

A key component of the RED Platform's credibility and functionality is the **RED Registry**, a secure, blockchain-powered digital ledger where all certified carbon credits are stored, tracked, and audited. However, it is important to emphasize that the **RED Carbon Standard**—the protocol under which these carbon credits are validated—is a **distinct and independent entity** from the RED Platform itself.

The RED Carbon Standard is an autonomous carbon certification body that operates under its own governance and methodology. Its purpose is to ensure that every carbon credit issued meets internationally recognized principles of environmental integrity, additionality, and transparency. While it uses the RED Platform's technology—specifically the RED Registry—for credit issuance, tracking, and market access, the RED Carbon Standard makes its own decisions regarding certification criteria, audit procedures, and project eligibility.

This separation between **platform infrastructure (RED Platform)** and **certification authority (RED Carbon Standard)** creates an important layer of trust and neutrality. It ensures that the carbon certification process is governed by a dedicated body whose only focus is upholding the highest standards of environmental credibility.

Purpose and Role of the RED Carbon Standard

The RED Carbon Standard was developed to modernize and democratize the way sustainable projects access the voluntary carbon market. In an industry often dominated by slow, expensive, and opaque certification schemes, RED offers a fundamentally different approach: it uses blockchain and software automation to make the process more efficient, transparent, and accessible.

The Standard is aligned with the methodologies and reporting frameworks of **ISO 14064**, the **GHG Protocol**, and the **Integrity Council for the Voluntary Carbon Market (ICVCM)**. It covers a wide range of project types—including renewable energy, forestry, agriculture, waste management, and carbon capture—and allows for both new and retroactive project certifications.

What sets the RED Carbon Standard apart is its **digital-native design**. From the initial project submission to the issuance of carbon credits, every step is integrated into a seamless, auditable digital workflow. This makes it faster and more scalable, particularly for local and community-based projects that have traditionally been excluded from global markets.

The RED Registry: Bridging Certification and Market Access

The operational link between the RED Carbon Standard and the RED Platform is the **RED Registry**—a digital database that resides within the RED Platform. Once a project has been approved by the RED Carbon Standard, its certified carbon credits are minted and stored in this Registry as **tokenized assets** on the Zalmoxis Blockchain.

Each credit—called a **RED**—represents one verified metric ton of CO_2 reduced or removed from the atmosphere. These credits are issued as **ERC-721 NFTs**, meaning they are unique, traceable, and immutable. Each RED credit contains embedded metadata, including:

- Project origin and developer information

- Date of issuance and certification documents

- Sustainable Development Goals (SDG) indicators

- Emissions reduction methodology and validation reports

- Serial numbers and audit trails

This high-resolution data layer ensures that every carbon credit is **scientifically valid, transparently issued, and uniquely identifiable**. No double counting is possible, and all transactions—whether transfers, sales, or retirements—are permanently recorded.

How Certification Works

Project developers begin by registering their sustainability initiatives through the RED Platform interface. They upload technical documentation, sustainability metrics, and legal ownership details. These materials are reviewed by independent auditors, validated through public and stakeholder engagement, and then approved by the RED Carbon Standard Team.

Following successful validation and verification, the RED Carbon Standard authorizes the issuance of tokenized carbon credits via the RED Registry. The credits are then made available for trading or retirement on the RED Platform marketplace.

This full-cycle process—from project submission to tradable credit—can be executed efficiently, transparently, and in compliance with international sustainability norms.

Ecosystem Benefits and Decentralized Trust

By keeping the certification entity (RED Carbon Standard) structurally separate from the platform (RED Platform), the ecosystem ensures that **conflicts of interest are avoided** and

governance remains transparent. At the same time, their close technical integration through the RED Registry ensures that certification and market functionality are tightly aligned.

The system is further decentralized through the involvement of local **franchisees** and **independent validators**, who assist project developers on the ground, perform audits, and ensure ongoing compliance with the RED Carbon Standard. This model allows the RED ecosystem to scale across multiple regions while maintaining consistency, trust, and environmental credibility.

6. RED Platform Tokens

6.1. MWAT: The Core Utility Token

- **Overview:** MWAT is the native utility token of the RED Platform, designed to provide access, governance, and rewards within the ecosystem. As a blockchain-based membership token, MWAT grants users access to platform services, including energy certification, carbon offsetting, and digital asset management and of course to unlocking the RED Franchise Opportunity and participating in the sustainability business.
- **Core Utilities:**
  - **Access Rights:** Required for accessing advanced platform features, including REO-G storage, Carbon Registry transactions, Solar NFT's and RED Franchises.
  - **Staking Mechanism:** Users stake MWAT to access and store renewable energy tokens (REO-G, GTK), participate in P2P energy trading, and receive rewards.
  - **Discounted Fees:** MWAT can be used to pay for platform services at a discounted rate compared to fiat payments.
- **Supply and Distribution:**
  - **Total Supply:** 500 million MWAT (fixed).
  - **Initial Distribution:** 100% issued at launch (January 2018), with no additional minting.
- **Economic Model:**
  - **Revenue Generation:** Platform fees (certification, registry transactions, P2P trading) are payable in MWAT or fiat, with MWAT payments receiving discounts.
  - **Incentives:** Staking rewards for MWAT holders, including a share of transaction fees and token buybacks.
- **Use Cases:**
  - **Platform Access:** Users must stake MWAT to access premium features (RED Franchise,Carbon Registry, Solar NFT, ESG Tokens).
  - **Staking Rewards:** Earn rewards by staking MWAT, with bonus rates for longer staking periods (in MWAT).
  - **Marketplace Payments:** Use MWAT to pay for RED Franchise, carbon credits, REO-G, and other sustainable digital assets.

6.2. REO-G: Renewable Energy Origin Tokens

- **Overview:** REO-G tokens are NFT-based certificates representing verified renewable energy production on the RED Platform. They are issued automatically upon energy certification through the REDx system.
- **Key Characteristics:**
  - **NFT Standard:** ERC-721, ensuring unique and traceable energy certificates.
  - **Automatic Issuance:** Generated in real-time and registered on the blockchain (Zalmoxis).
  - **Multi-Energy Source Support:** Solar, wind, hydro, geothermal, and biogas.
  - **Marketplace Trading:** REO-G tokens can be sold, traded, or retired in the RED Marketplace.
- **Use Cases:**
  - **Corporate Compliance:** Companies purchase REO-G to verify their renewable energy consumption.
  - **Retail Investment:** Individuals acquire REO-G as proof of green energy support.
  - **Energy Producers:** Monetize their energy production by selling REO-G.

6.3. RED Tokens (NFT): Tokenized Carbon Credits

RED tokens are non-fungible tokens (ERC-721) representing individual carbon credits issued on the RED Platform. They can originate from projects certified under the **RED Carbon Standard** or any other recognized certification body and are listed on the Carbon Credits Marketplace. Key attributes:

- **On-Chain Transparency**
  Each RED token carries immutable metadata—project ID, certification standard, issuance and expiry dates, credit amount (in tCO_2e), and unique serial number—ensuring full auditability.

- **Interoperability**
  As ERC-721 assets, RED tokens can be transferred, traded, or retired across any compatible marketplace or wallet.

- **Automated Retirement & Certificates**
  When a user burns a RED token to offset emissions, the platform automatically mints a **Retirement Certificate NFT** that records the retirement transaction, providing verifiable proof of offset.

- **Marketplace Filtering & Discovery**
  Buyers can browse RED tokens by project type (renewables, forestry, energy efficiency), region, certification standard, or vintage year, with real-time pricing and volume metrics.

By integrating RED tokens into the Sustainability Marketplace, RED provides a seamless, transparent bridge between certified carbon projects and end-users seeking verifiable offsets.

6.4. GTK: Green Token for Renewable Energy Consumption

- **Overview:** GTK (Green Token) is a utility token used to verify and reward renewable energy consumption within the RED Platform.
- **Core Utilities:**
  - **Energy Consumption Verification:** Users receive GTK based on the amount of renewable energy they consume.
- **Supply and Distribution:**
  - **Dynamic Supply:** Issued based on renewable energy consumption.
  - **Burn Mechanism:** GTK can be burned to offset users' carbon footprint.
- **Use Cases:**
  - **Rewarding Sustainable Behavior:** Consumers earn GTK for using green energy.
  - **Corporate Sustainability Programs:** Companies can use GTK to incentivize employees for eco-friendly practices.

6.5. Solar NFT: Fractionalized Renewable Energy Capacity Ownership

- **Overview:** Solar NFTs are fractionalized digital assets representing ownership of renewable energy capacity in solar projects.
- **Core Characteristics:**
  - **NFT Standard:** ERC-721, ensuring unique and traceable ownership.
  - **Fractional Ownership:** Solar projects are divided into NFT shares for retail investors.
  - **Rent Payouts:** NFT holders receive periodic rent payments based on energy production.
- **Use Cases:**
  - **Retail Investment:** Individuals invest in solar energy without direct installation.
  - **Energy Producers:** Raise capital for new solar projects by selling NFT shares.
  - **Corporate Sustainability:** Companies acquire Solar NFTs to meet green energy targets.

7. Tokenomics

Overview

MWAT (MegaWatt Token) is the native utility token of the RED Platform. It powers a wide range of platform functionalities—from module access and service payments to validator participation and franchise operation. MWAT is designed as a **non-inflationary, compliant utility token** with

built-in mechanisms to drive **adoption, utility, and predictable deflation** while providing **tangible benefits to tokenholders**.

- **Total Supply:** 500 million MWAT (fixed, ERC-20)

- **Circulating Supply:** Fixed

- **Utility:** Access rights, RED Franchise, staking, validator roles, platform payments, governance

MWAT Utilities Across RED Ecosystem

Use Case	Description
Platform Access	Required to unlock tools such as REDx, RED Carbon Registry, Footprint API, NF3, and Solar NFT modules
Storage of Assets	1 MWAT = 1 GTK or 1 REO-G storage slot (acts as a "virtual battery" for platform tokens)
Franchise Licensing	MWAT required to purchase and stake for local and regional SaaS franchises
Validator Roles	Minimum MWAT stake required to run full or validator nodes
Project Participation	Solar NFT and NF3 buyers and sellers must stake MWAT proportionally
Access & Fees	MWAT grants access to modular services and pays for transactions—energy certification, registry listings, offset purchases, PPA trades, Carbon Footprint API calls, franchise licensing, and more.
Discount mechanics	Proposed for implementation: discount mechanics into the RED Platform modules and functionalities for users who use MWAT for payments.
Auto-Buy MWAT ("Behind the Scenes" Fiat On-Ramp)	Proposed for implementation: To remove crypto complexity, any time a user pays in card or fiat, a specific proposal is for the platform automatically purchases the required MWAT from the MWAT Pool. This seamless on-ramp eliminates "crypto anxiety" and ensures users always transact in MWAT without manual token acquisition.

MWAT Tokenholders Pool	Proposed for implementation: MWAT pool for selling to new users where tokenholders can sell tokens to other users who need MWAT for different functionalities on the RED Platform.
MWAT Buyback	25% of RED Platform's profit will be allocated to MWAT buyback.

Staking: Platform Engagement & Governance

Staking MWAT unlocks deeper participation and benefits:

- **Energy & Sustainability Access**: Stake MWAT to store or transact REO-G, GTK, Solar NFTs, and carbon credits.

- **Franchise Activation**: Franchisees must pay and stake MWAT to operate in local markets.

- **Validator Access**: Only stakers can run full/validator nodes on the Zalmoxis blockchain.

- **Dynamic Staking**: To avoid high entry barriers, staking requirements may be adjusted periodically. Example: If Solar NFT project value = $10,000, a buyer may need to stake MWAT equivalent to 5–10% of project value.

Sustainability of Price and Supply

The MWAT token has a fixed total supply of 500 million, meaning no new tokens will ever be created. **As demand for the RED Platform grows—with more users accessing modules like energy certification, carbon tracking, and Solar NFTs—the need for MWAT naturally increases.** At the same time, the supply in circulation is gradually reduced through mechanisms like staking, validator participation, and project-based token locks. To ensure the system remains accessible, staking requirements can be adjusted over time. This helps prevent new users from being priced out while still encouraging long-term commitment and balanced growth.

Legal Compliance

MWAT is legally structured and promoted as a **utility token**, compliant with:

- **EU MiCA Regulations**

- **SEC Guidelines (USA)**

- **No Dividend Distribution:** Instead, incentives are aligned with usage, staking, and participation.

The MWAT token is central to RED's vision of **decentralized, incentivized sustainability infrastructure**. It connects usage with reward, governance with trust, and access with ownership—serving both environmental goals and long-term digital asset utility.

8. User Onboarding and Access

The RED Platform is built to be easy for everyone to use. Whether you're a clean energy producer, a company focused on sustainability, a local partner, or an individual, you can quickly get started and access the tools you need. This simple onboarding process helps more people join—and makes it easier to grow sustainability efforts around the world.

Key Access Principles

The RED Platform is designed to be easy to access and flexible for all types of users. With **modular onboarding**, people only see and use the tools that match their specific needs—whether they're individuals, companies, NGOs, or government agencies. The registration process is smooth and welcoming to both crypto-savvy users and those new to digital platforms. Each user type follows a **guided onboarding journey**, ensuring they quickly understand how to get started and make the most of the platform. All features are fully accessible on both web and mobile, making it simple to engage from any device, anywhere.

User Types & Flows

Individual Users (Prosumers, Citizens)

For everyday users—whether they're environmentally conscious citizens or small-scale energy producers—the RED Platform offers a simple and rewarding way to take part in sustainability. Their main goals are to measure their carbon footprint, purchase offsets, earn green rewards, and support impactful environmental projects.

Getting started is easy. Users can sign up using their email, social media account, or by connecting a crypto wallet. They are guided through a short carbon footprint quiz to personalize their experience. From there, they gain access to key tools like NFT-based offset certificates, the RED Wallet, Solar NFT investment opportunities, and the ability to claim GTK (Green Tokens) for verified green actions.

To help users navigate the platform, support is available through in-app chat and step-by-step guides shared via social media—making it easy for anyone to join and start making a difference.

Corporate Clients (SMEs, Enterprises)

For businesses of all sizes, the RED Platform provides powerful tools to meet ESG goals, track carbon emissions, purchase verified offsets, and even launch their own

sustainability tokens. Whether a company is just beginning its climate journey or already has an ESG strategy in place, RED offers flexible solutions that fit their needs.

Onboarding begins with corporate identity verification to ensure regulatory compliance. Once verified, companies gain access to advanced tools like the Carbon Footprint API, the RED Carbon Registry, and REO-G issuance for certified renewable energy production. For those needing extra help, optional franchise services are available to guide them through setup and integration.

Support is personalized and professional, with dedicated account managers, hands-on onboarding, and access to detailed API documentation. RED also offers technical assistance to ensure smooth integration into existing systems, making it easy for businesses to adopt and scale their sustainability efforts.

NGOs & Sustainability Projects

For NGOs and mission-driven initiatives, the RED Platform offers a powerful way to **bring environmental impact to life through digital tools.** Their goals often include turning natural assets into digital tokens, running sustainability campaigns, and securing funding from global supporters.

The onboarding process starts with project verification, where organizations upload key documentation for review. Once approved, they gain access to the NF3 platform for environmental asset tokenization, certification through the RED Carbon Standard, and tools to create and launch custom impact tokens using the Token Factory.

Support is tailored to their needs, with access to onboarding kits designed for NGOs, guidance from RED validators, and the opportunity to apply for grants that help scale their projects. This makes RED a complete, supportive environment for nonprofits working to protect the planet.

Franchisees

Franchisees play a key role in bringing RED's sustainability tools to local markets. **Their goal is to run their own RED-powered business, helping regional clients adopt carbon tracking, renewable energy certification, and environmental tokenization services.**

Getting started involves submitting a franchise application and staking a set amount of MWAT tokens. Once approved, franchisees receive access to a custom dashboard where they can manage local clients, offer consulting services, and support sustainability projects in their region. They also benefit from revenue-sharing opportunities, tools to create custom tokens, and access to RED's platform features under their own brand.

To ensure success, franchisees are supported with step-by-step training modules, detailed sales playbooks, and a dedicated technical helpdesk—making it easy to grow a meaningful business in the green economy.

User Experience Enhancements

Interactive Onboarding Wizard

A dynamic wizard personalizes the user journey based on the selected role and goals.

Mobile Application Access

Available on Android / iOS, the mobile app mirrors all SaaS features from desktop, including wallets, staking, certification, and trading.

Tutorials & Learning Resources

- Interactive demos and walkthroughs

- Knowledge base and sustainability FAQs

- Gamified educational missions (earn micro-rewards)

9. Roadmap

2018: MWAT token launch

2018-Present: Development of RED Platform

- Proprietary Zalmoxis blockchain technology
- First blockchain operating system for sustainability
- Simplify and enhance sustainability solutions reach
- Apply blockchain advantages to sustainability market

2022: Developing work tools, features and new integrations

- **Sustainable Projects** to offer tokenized carbon credits
- **Franchise upgrade** to fit the new business model for sustainability
- **Corporate Carbon Footprint Calculator** Tool
- **RED Standard Registry** for certification of sustainable projects
- **Solar NFT**
- Addition of **new sustainable projects under RED Standard**
- Addition of **projects under different standards**
- **Zalmoxis Blockchain Upgrade** in preparation for integration with new projects
- **PPAs**
- Platform **User Experience Upgrade**

2022-2024:

- Integration with new projects, both blockchain-based and related to sustainability
- APIs to integrate on third-party websites
- Development of new features that integrate with Zalmoxis blockchain.

2025-2026
- Development and launch of Solar NFT
- Development, launch and growth of NF3
- Franchise system development through incentives
- REDx development
- New partnership developments (APIs, Solar NFT, NF3)

2026-2028
- REDx launch and integration with the prosumers flow in the RED Platform
- MWAT Listing on Exchanges, based on the growth rate of the project and MWAT usage
- Development and launch of RED VLEC

RED's growth strategy focuses on being trustworthy, and locally relevant. It combines easy-to-use software with local support and community-driven promotion to help more people adopt the platform quickly and successfully, all around the world.

10. Competitive Analysis

Many new climate-tech platforms now use blockchain to offer services like carbon offsets and clean energy tracking. But most of them focus on just one feature, don't connect well with other systems, or are mainly built for financial trading—not real-world environmental solutions.

The RED Platform is different because it's a **flexible software system** designed to connect real-world environmental projects with trusted digital tools that support climate action.

Market Landscape Overview

Platform	Focus	Limitations
KlimaDAO	Carbon credit aggregation and tokenization	Finance-centric, lacks project onboarding and real-world validation
Toucan Protocol	Carbon token infrastructure on Polygon	Focused on carbon credit liquidity, not on ESG toolkits or footprint tracking
Energy Web	Energy traceability and grid optimization	Strong on grid tech, but lacks retail accessibility and carbon offset integration

Verra + Traditional Registries	Standard-based carbon certification	Slow, bureaucratic, not tech-native or interoperable
Nori	Agricultural carbon offset marketplace	Limited scope (soil carbon only), no enterprise SaaS tools
Celo + Regen Network	ReFi ecosystem for nature-backed assets	Experimental governance and DeFi orientation, no enterprise adoption path

RED's Unique Selling Points (USPs)

Feature	RED Platform	Other Solutions
SaaS Model	Modular, API-first, subscription-enabled	Mostly protocol-only or DeFi-centric
Real-World Asset Tokenization	Carbon credits, solar panels, trees (LiDAR-based)	Rare or narrow scope
Direct Blockchain Certification	IoT + REDx chip enables tamper-proof REO-G minting	Unique to RED
Franchise Network	Scalable B2B onboarding via licensed regional operators	Not present in competitors
Footprint Calculation API	Scope 1–3 for individuals and enterprises	Largely missing
Multi-token Architecture	GTK, REO-G, RED NFTs, Solar NFTs, NF3 tokens	Usually one token or financial asset only
Blockchain Infrastructure	Custom-built, green blockchain (Zalmoxis) with PoR consensus	Most rely on third-party chains without energy transparency
Carbon + Energy + ESG	Unified toolkit for all sustainability services	Competitors tend to specialize in one area

Strategic Advantages

- **A First in Its Field**
  RED is the first platform to combine sustainability software with a global franchise model powered by blockchain. This makes it easy to expand quickly and bring climate tools to local markets around the world.

- **Easy, Reliable ESG Reporting**
  By using its own blockchain (Zalmoxis), RED automatically tracks and records environmental actions. This makes ESG reporting accurate, tamper-proof, and ready for standards like ISO, the GHG Protocol, and SBTi.

- **No Crypto Experience Needed**
  RED is built for real-world companies. It accepts regular payments, connects easily to existing software, and has a smooth onboarding process—making it simple for any organization to join the climate tech space, even without prior experience in crypto.

Positioning Summary

Dimension	RED Platform Position
Functionality	End-to-end digital sustainability platform
Target Audience	ESG enterprises, green energy developers, sustainability consultants, prosumers
Technology	Private green blockchain (Zalmoxis) + SaaS API layer
Business Model	Subscription, staking, transaction-based fees + franchise revenue
Scalability	Modular architecture with decentralized global franchise model
Compliance Readiness	Designed for GDPR, ISO 14064, MiCA, and SEC-safe token utility

RED isn't just another climate project—it's the technology foundation for real, global sustainability. While some platforms focus only on trading carbon credits, **RED gives businesses, communities, and individuals the tools they need to build, verify, and grow their sustainability efforts**—with the security of blockchain and the simplicity of modern software.

11. Legal, Compliance & Security

The RED Platform is designed to be safe, trustworthy, and ready for changing rules. As climate-related laws and standards grow—especially in Europe and global carbon markets—RED makes sure all services, tokens, and user actions follow the rules, are easy to verify, and stay secure.

Legal Classification of MWAT

MWAT is a utility token, not a security. It provides access to services and functionalities within the RED Platform ecosystem (not profit-sharing or dividend rights).

- **Compliance:**

  - **EU MiCA (Markets in Crypto-Assets):** Classifies MWAT as a utility token, exempt from financial security status.

  - **U.S. SEC Guidance:** MWAT has no investment contract characteristics; usage is strictly functional.

  - **Taxation:** Token usage and rewards are treated as service utility or loyalty assets, not investment income.

Regulatory Compliance Framework

Standard / Regulation	Compliance Scope
GDPR (EU)	All user data (wallets, project info, carbon metrics) handled with explicit consent, encrypted at rest/in transit
ISO 14064	RED Carbon Standard aligned with ISO 14064-1 for greenhouse gas quantification and validation
GHG Protocol	Scope 1, 2, and 3 emissions tracking in line with global accounting standards
MiCA (EU)	MWAT, GTK, and all tokens classified under utility standards—not securities
Science-Based Targets Initiative (SBTi)	Platform supports companies in aligning with science-based climate goals
eIDAS / Digital Identity	Self-sovereign identity tools for project developers and validators to ensure data integrity and trust

Smart Contract Security

The RED Platform places a strong focus on the security of its smart contracts to ensure trust and reliability across the ecosystem. **All smart contracts used on the platform are regularly reviewed through audits conducted by independent security firms.** These audits help identify and fix any potential vulnerabilities before the contracts are deployed or updated.

The audit process covers all key components of the platform, including token contracts such as MWAT, GTK, REO-G, and RED NFTs. It also includes the logic behind the sustainability

registries, protocols for minting and burning NFTs, as well as contracts used for staking and validator operations.

To maintain full transparency, all audit reports are made publicly available on the RED website and GitHub. This allows users, developers, and partners to verify the platform's security practices and stay informed about ongoing improvements.

On-Chain Security Architecture

The RED Platform is built on the **Zalmoxis Blockchain**, a secure and efficient network that supports smart contracts and is fully compatible with Ethereum (EVM). It uses a hybrid **Proof-of-Stake (PoS)** and **Proof-of-Reputation (PoR)** model to ensure both scalability and trust. In this system, validators earn reputation over time, and their influence is based not just on the amount of tokens they hold, but also on the quality of their actions. This helps prevent fake identities (Sybil attacks) and rewards responsible behavior.

All records—such as energy production, emissions data, carbon certificates, and token claims—are permanently stored on the blockchain. These logs cannot be changed or tampered with, and they are fully transparent and open for public review.

To protect the platform's treasury and governance funds, key transactions require **multi-signature approval**, meaning they must be confirmed by multiple trusted parties before going through. Additionally, RED uses a **Validator Challenge System** where any validator's actions can be challenged if proven incorrect using cryptographic evidence. If a validator is found to have acted dishonestly, their reputation is reduced and part of their stake may be penalized (slashed). This structure keeps the network fair, secure, and accountable.

API and Data Security

Our API is secured with multiple layers of protection to ensure safe and reliable access. This includes rate limiting to prevent abuse, token-based authentication to verify users, and IP filtering to control enterprise access.

We follow strong encryption standards to protect data. All information is encrypted using AES-256, and communications are secured with the latest HTTPS/TLS 1.3 protocols. Additionally, end-to-end checks ensure data integrity for connected IoT devices and solar inverters.

Users have their own integrated wallets on the platform, giving them private and secure access to manage their assets safely.

KYC/AML for Platform Access

To prevent fraud and maintain trust:

- **KYC Requirements:** Mandatory for traders, validators, franchisees, corporate users, and project developers.

- **AML Screening:** Wallet and transaction behavior are monitored via automated anti-money-laundering software partners.

Emergency Protocols & Legal Governance

The platform includes emergency protocols like smart contract kill switches, which can quickly stop transactions if any security issues or unusual activities are detected. This helps protect users and the system from potential exploits.

For resolving disputes, the system uses validator scores, recorded evidence, and smart contract logs to speed up arbitration and handle conflicts efficiently.

The RED Platform is managed by a transparent European legal entity. Additionally, regional franchisees operate under local laws, with their franchising agreements governed by international business regulations.

12. Technology Stack

RED is a blockchain-powered sustainability operating system designed to simplify and scale the adoption of sustainable business practices. By providing a modular, plug-and-play management framework, RED empowers companies and institutions to deploy best-practice sustainability solutions without requiring extensive technical expertise. The platform includes access to decentralized infrastructure, renewable energy validation tools, and carbon footprint management modules—all integrated into a cohesive environment.

RED Platform is an integrated, modular SaaS ecosystem designed to support the implementation and scaling of sustainability initiatives. It combines blockchain technology, IoT device integration, and customizable digital workflows to provide transparent, real-time data certification, automated processes, and secure governance mechanisms.

Sustainability Operating System

The RED Sustainability Operating System serves as a standardized management framework that streamlines the integration of RED's technological and business modules. It supports configurable, industry-specific implementation of sustainability strategies and offers access to an app-like module marketplace called the RED Library. Modules are developed by third parties and made available for purchase and deployment via a transparent and modular system.

By eliminating the need to create bespoke systems, the Sustainability Operating System allows organizations to focus on core business objectives while accelerating progress toward sustainability goals. Best practices embedded within the system minimize trial-and-error in deployment, thereby reducing implementation costs and time to value.

The system is structured to promote reusability, interoperability, and standardization across industries. It includes plug-and-play components that represent best practices for combining RED modules, enabling organizations to focus on operational efficiency while advancing their sustainability agendas.

Third-party modules, termed "RED apps", can be developed and published in the RED Library. These modules are interoperable with the platform's infrastructure, providing extended functionality in areas such as carbon accounting, renewable energy management, and sustainable procurement. The Library functions analogously to an app store, where modules can be browsed, acquired, and activated. Module developers set their pricing, while RED applies a standard commission.

Core Infrastructure: Zalmoxis Blockchain

Zalmoxis is a purpose-built blockchain infrastructure optimized for sustainability use cases. As a distributed ledger based on Ethereum, Zalmoxis introduces key improvements in performance, decentralization, and energy sourcing. The blockchain is exclusively powered by renewable energy and integrates a Smart Contract Generator for secure deployment of pre-approved contract templates.

Zalmoxis provides a transparent, auditable environment for sustainability-related data, including renewable energy production and carbon offset verification. Its infrastructure supports the automation of complex business processes and offers a foundation for scalable, decentralized applications in the green economy.

Node Architecture

The RED platform is built on a multi-tiered node architecture composed of Validator Nodes, Full Nodes, and Light Nodes. This structure ensures high availability, robust security, and network decentralization.

Validator Nodes

Validator Nodes are responsible for transaction validation, block creation, and maintaining consensus via Proof of Stake (PoS). Validators stake tokens to secure their participation and are subject to slashing penalties for misconduct. They earn rewards through transaction fees and block incentives.

Full Nodes

Full Nodes store the complete blockchain ledger and independently verify transactions. They contribute to network transparency and provide data availability services to other nodes, particularly Light Nodes. Although they do not participate in consensus, Full Nodes reinforce decentralization and may receive compensation for data provisioning.

Light Nodes

Light Nodes offer efficient access to the blockchain for applications with limited resource requirements. They store block headers and request transaction data from Full Nodes as needed. Light Nodes are essential for lightweight services such as mobile wallets and consumer-facing applications.

Node Interaction Model

Validators generate and validate blocks. Full Nodes maintain a complete copy of the chain and serve Light Nodes with verified data. Light Nodes serve as the entry point for most users. This hierarchical model maintains security, ensures decentralization, and provides accessibility across use cases and device capabilities.

Wallet Architecture

RED prioritizes security, decentralization, and user sovereignty through a non-custodial wallet system. Users retain control over private keys and interact with the platform securely via industry-standard APIs. RED also supports third-party wallet integrations to enhance ecosystem interoperability.
Key features include:

- Full user control over assets
- Seamless integration with third-party wallets
- Decentralized key recovery options
- Scalable design compatible with evolving blockchain standards

Security is reinforced through advanced cryptography and decentralized key recovery protocols. The architecture is designed for scalability and adaptability to future technological developments.

Conclusion

The RED platform delivers a robust, modular, and decentralized operating system for sustainability. Its architecture, powered by the Zalmoxis blockchain and structured around best practices, provides a scalable path for businesses and institutions to align with environmental goals. By enabling access to proven tools and decentralized infrastructure, RED represents a transformative approach to sustainable digital innovation.

RED Platform as a SaaS Solution

Modular SaaS Architecture
- RED is a cloud-hosted, API-first SaaS platform for sustainability.
- Offers flexible access through web interface, mobile app, and API suite.
- Supports scalable deployment for enterprises, municipalities, and energy communities.

Core Characteristics
- Blockchain-Backed Security: All certifications, energy tracking, and carbon credits are recorded on an immutable blockchain (Zalmoxis).
- Real-Time Automation: IoT integration and smart contracts automate data capture, verification, and settlement.
- Seamless Integration: API suite enables integration with ERP, CRM, IoT systems, and third-party platforms.
- User Roles: Supports renewable energy producers, corporate buyers, public institutions, and individuals.
- Subscription Model: Tiered access (Basic, Professional, Enterprise) with monthly/annual billing.

SaaS-Enabled Features
- RED Carbon Registry: Digital registry for tokenized carbon credits, ensuring transparency and verifiability.
- Carbon Footprint Calculation API: An API-driven tool for calculating and reporting carbon footprints in real time.
- Solar NFT Platform: A fractional ownership model for solar energy assets.
- REDx Real-Time Certification: IoT-driven certification for renewable energy production using secure cryptographic chips that will be used for P2P energy trading inside the energy communities and the fractioned PPAs.

Scalability and Extensibility of RED Platform
- Customizable Solutions: New SaaS products can be developed on the platform using the Zalmoxis Blockchain and existing legal frameworks.
- Multi-Industry Applications: Beyond energy, the platform can be extended to carbon credits, sustainable supply chain management, ESG reporting, and even biodiversity tokenization.
- Legal Framework: RED Platform's solutions are compliant with EU ESG standards, MiCA regulations, and globally recognized carbon and energy standards.
- Franchise & White-Label Opportunities: SaaS can be deployed by partners under their own brand.

Deployment Options
- Cloud-Based SaaS: Managed by RED Platform, suitable for businesses of all sizes.
- White-Label Solution: Customized for partners or franchisees.
- API-Only Model: For large enterprises and technology partners seeking direct integration.

Interoperability and Data Exchange:
- API-first architecture to enable connection with external software (ERPs, energy management systems, reporting tools)

- Support for standard data formats (e.g., CSV, JSON, XML) and decentralized storage options (e.g., IPFS)
- Real-time dashboards and analytics for monitoring energy, CO2, and incentive distribution.

13. Franchise Model

RED grows globally by using a franchise model supported by tokens. This lets local entrepreneurs, sustainability experts, and energy professionals run their own version of the RED Platform tailored to their country. Each franchise can adjust to local languages, laws, and market needs, ensuring the platform works well everywhere.

This strategy works because it focuses on local-first growth. Instead of controlling everything centrally, RED empowers local partners who know their markets best. Franchisees provide hands-on support, handle national regulations, and make sure the platform fits the specific needs of their region.

The model is designed to scale sustainably. Each franchise is backed by MWAT tokens and earns revenue from its customers, creating a self-sufficient system that drives expansion naturally.

Franchise Structure

Type	Description
Master Franchise	Exclusive license to operate, support, and grow RED Platform in over the entire country, including the country-level franchisees and to access RED SaaS or White Label Solutions
Country Franchise	Operates within specific geographic zones (1 per ~10,000 population); handles client acquisition and service delivery

- **Token-Based Access:**
  - Country Franchises are issued as NFTs tied to geography. Owners stake 100,000 MWAT to activate the license.
  - Master Franchises are issued under individual-analysis for each country.

- **Value-Linked Resale:** Franchise NFT value increases with clients, revenue, and ecosystem contributions. Tradable on-chain.

Franchisee Responsibilities

Client Acquisition

Franchisees play a key role in growing the RED Platform by actively reaching out to potential clients. This includes engaging with corporations to introduce and onboard them to RED's tools such as footprint APIs, carbon offset solutions, and Solar NFT investment opportunities. Additionally, franchisees work to build partnerships with local governments, schools, and NGOs, helping these organizations adopt sustainable practices through RED's platform.

Carbon Offset & ESG Services

Franchisees are responsible for selling and issuing NFT Sustainability Certificates that are backed by RED's verified environmental registries. They also offer detailed carbon footprint analysis, sustainability consulting, and bundled offset packages tailored to the needs of businesses and individuals looking to reduce their environmental impact.

Tokenization Support

Supporting clients in the creation and launch of ESG-related tokens is a crucial task. Franchisees assist in certifying sustainability projects and help list carbon assets on the RED Marketplace, enabling clients to participate fully in the tokenized green economy and maximize the value of their environmental efforts.

Sustainability Scheme Creation

Franchisees design and implement customized green incentive programs that encourage sustainable behavior within their communities. Examples include rewarding users for participating in local clean-up events, increasing solar energy usage, or choosing green commuting options. These programs help foster lasting environmental engagement and community support.

Training & Technical Assistance

Franchisees serve as the local experts who onboard new users, including individuals and small businesses. They provide training on how to navigate the platform's modules, manage wallets, understand staking options, and engage with gamification features designed to make sustainability efforts more interactive and rewarding.

Earnings Model

Franchisees generate income through:

Revenue Stream	Details
FIAT Commissions	Receive allocated fees from your business development actions: onboarding new projects and onboarding new clients. 20% of the net collected fees from the project you bring to the RED Platform. 20% of the net collected fees from the purchases made by the client you bring to the RED Platform.

MWAT Commissions	Receive 25% of all fees paid in MWAT on services they facilitate
Consulting Fees	Set local pricing for corporate onboarding, scheme design, or footprint services
Token Sale Revenue	Earnings from helping clients tokenize and list projects
Franchise Resale	Capital gains if franchise NFT is sold on the open market

Franchise Benefits

- **Sales Tools & Templates:** Ready-to-use contracts, client decks, certificate templates, and pitch materials

- **Marketing Support:** Localized campaigns, RED-backed PR for major initiatives, co-branded materials

- **Validator & Reputation Boost:** Franchisees can also act as validators, earning MWAT and a reputation for governance participation

Why the Franchise Model Works

Advantage	Description
Speed	Local entrepreneurs move faster than centralized teams.
Trust	Users prefer dealing with local representatives in their language.
Compliance	Local operators understand and comply with national regulations.
Empowerment	Franchisees build climate businesses and earn sustainable income.

The RED Franchise Model helps turn sustainability into a local business opportunity. It allows entrepreneurs to run their own blockchain-powered environmental services, **making global climate tools available at the community level**—while also creating local income and impact.

The RED Platform is built to be open and community-driven. Its governance system gives key players—like validators, franchisees, and developers—a way to work together and help improve the platform.

Rather than relying on token-based voting, RED uses a balanced approach based on trust, technical feedback, and real contributions to keep the platform strong and moving forward.

Governance Objectives

- Maintain transparency, accountability, and platform integrity.

- Encourage community participation and ecosystem alignment.

- Support protocol upgrades, roadmap milestones, and service enhancements through **structured proposal and feedback systems**.

Governance Participants

Role	Description
Validators	Provide feedback on technical upgrades, dispute resolutions, and smart contract proposals.
Franchisees	Act as regional stakeholders; contribute insights from local markets and end-users.
Core Contributors	Implement system updates, manage infrastructure, and maintain compliance with global sustainability standards.
Community Members	May submit improvement suggestions, report issues, and contribute to education or outreach efforts.

Reputation-Based Participation

- **Validators and Franchisees** are scored based on their contribution, quality of input, and adherence to service-level agreements (SLAs).

- High-reputation contributors may receive:

  - Early access to platform features

  - Increased visibility in the validator network

  - Invitations to special advisory sessions or innovation pilots

Decisions are made transparently, with input from experienced stakeholders who are actively building and supporting the ecosystem.

14. Conclusion

The RED Platform represents a bold and necessary evolution in the fight against climate change—delivering a blockchain-powered, SaaS-driven infrastructure for **real, verifiable, and scalable sustainability.** As environmental, social, and regulatory pressures grow, RED provides a comprehensive solution for individuals, corporations, governments, and communities seeking to participate in the green transition with trust and transparency.

Why RED Matters

The environmental crisis requires more than talk—it demands systems that can measure, verify, and reward sustainable behavior at scale. RED achieves this by:

- **Tokenizing impact** through real-time energy certification, carbon credit generation, and environmental asset tracking.

- **Empowering users** to act, offset, and contribute—whether they are solar investors, NGOs, enterprises, or citizens.

- **Building trust** via on-chain data integrity, validator-backed audit trails, and tamper-proof IoT integration.

- **Enabling scale** through an API-first modular SaaS model, supported by a decentralized global franchise network.

- **Driving adoption** through low-cost tools, smart incentives, and localized support across borders and sectors.

The Bigger Vision

RED is not just a platform—it is a **climate infrastructure layer** for the 21st century. Its mission is to enable the **decentralized coordination of global sustainability efforts**, powered by a shared protocol for truth, accountability, and environmental value.

With MWAT as the digital backbone, RED creates a new economic framework where:

- Renewable energy becomes traceable and investable.

- Carbon offsets become auditable and liquid.

- Environmental actions become rewarded, not ignored.

- Local innovators become global contributors to the Net Zero movement.

Our Commitment

RED is built for the future. Every decision is guided by clear rules, open technology, and support from a growing community. Our goal isn't just to offer tools—it's to **help spark a global, inclusive movement that creates real, measurable impact**.

Together, we can build a world where sustainability is not just a goal—it is the default operating system for the future.

15. Appendices

The following appendices offer additional information for developers, legal reviewers, technical integrators, and users who wish to engage more deeply with the RED Platform's technology, token standards, governance structure, and compliance frameworks.

15.1 Glossary of Terms

Term	Definition
MWAT	MegaWatt Token, the native utility token of the RED Platform
REO-G	Renewable Energy Origin Guarantee, an NFT certifying clean energy production
GTK	Green Token representing CO_2 avoided through renewable energy usage
NF3	Token standard for tokenized environmental assets (forests, wetlands, etc.)
Zalmoxis	RED's proprietary, EVM-compatible, green blockchain infrastructure
Validator	A staked entity that verifies sustainability claims and on-chain data
REDx	Renewable Energy production certifiedon the blockchain used as proof of green energy (REO-G), virtual PPAs and fractional PPA management.
SaaS	Software-as-a-Service; RED offers modular sustainability services on subscription
Franchise	Tokenized business license to operate and resell RED tools in a specific region

15.2 Contact & Support

- **Contact:** support@redplatform.com
- **Telegram Channel:** https://t.me/RestartEnergy
- **Community Chat:** https://redplatform.com/?social=discord