Syntphony Beyond Net Zero
Environmental Markets

NTT DATA | syntphony

Environmental Markets

The digital platform for a sustainable, traceable, and trustworthy future.

Environmental Markets is the innovative platform from NTT DATA that is transforming the way organizations engage in environmental markets. Its mission is to facilitate the creation of transparent and traceable markets, offering flexibility to manage different types of environmental assets such as carbon, water, plastics, energy efficiency, and biodiversity, through a secure and trustworthy marketplace powered by blockchain technology.

The platform addresses a pressing need: global demand for environmental credits is growing exponentially, and with it, the need for digital tools that guarantee transparency, security, and adaptability.

- Insurance
- Telco, Media & Technology
- Energy & Utilities
- Retail
- Manufacturing & Consumer Packaging Goods
- Automotive
- Healthcare, Life Sciences & Pharma

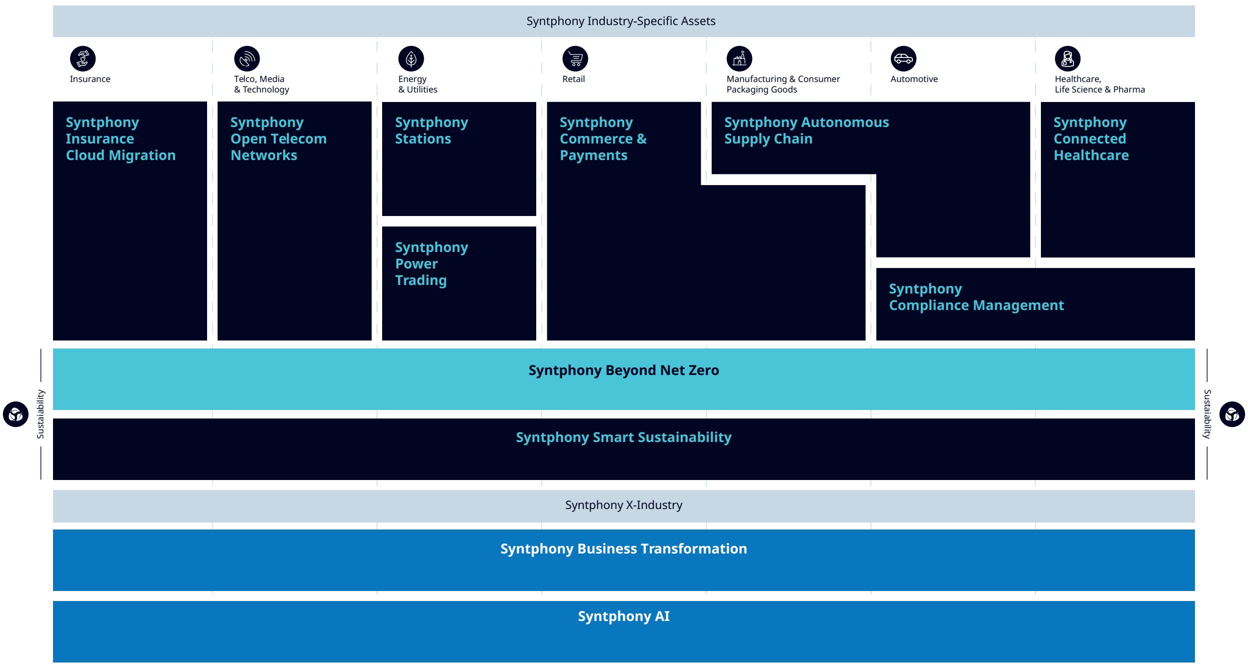
Why syntphony ?

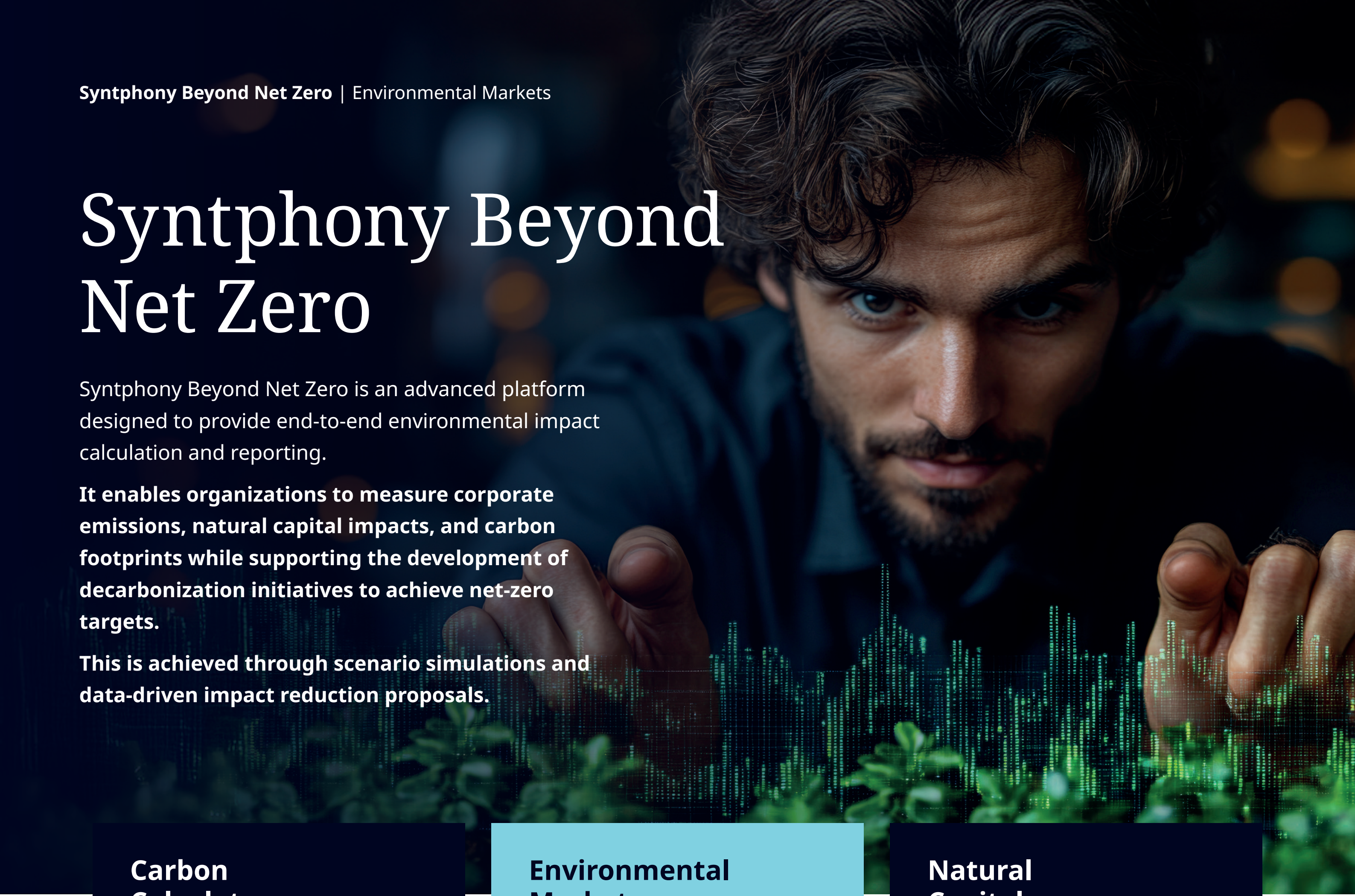
We develop products and solutions that are in tune with businesses

Syntphony is the composable platform of digital products and solutions from NTT DATA, created to help global organisations accelerate innovation, align business strategy with technology, and scale transformation initiatives with speed and efficiency.

Designed for enterprises that demand flexibility, modularity and integration, Syntphony offers a portfolio of ready-to-deploy, enterprise-grade digital products developed by NTT DATA's global talent network. By combining business consulting expertise, proprietary technologies and industry knowledge, the Syntphony ecosystem multiplies the value for clients, reducing time to market and unlocking synergies across multiple domains.

Syntphony is the most valuable Product Composable Platform of NTT DATA, enabling clients to orchestrate scalable, resilient, and future-ready business solutions.





Syntphony Beyond Net Zero

Syntphony Beyond Net Zero is an advanced platform designed to provide end-to-end environmental impact calculation and reporting.

It enables organizations to measure corporate emissions, natural capital impacts, and carbon footprints while supporting the development of decarbonization initiatives to achieve net-zero targets.

This is achieved through scenario simulations and data-driven impact reduction proposals.

Carbon Calculator

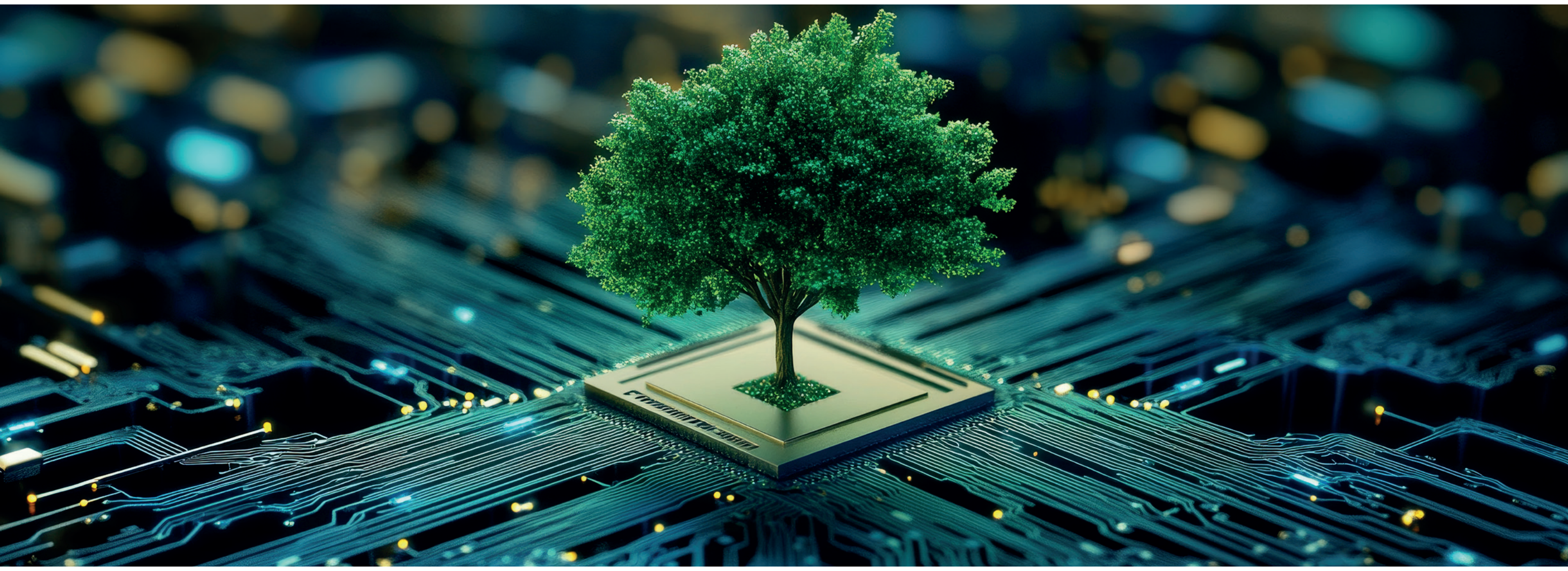
End-to end carbon footprint calculation for devices, applications, cloud, data centres, networks and Real Estate, based on real-time data. Corporate carbon emissions reporting.

Environmental Markets

A secure and traceable blockchain system enabling ESG compliance and sustainable project funding through flexible environmental credit generation across carbon, water, energy and biodiversity assets.

Natural Capital

A digital tool that enables organizations to assess, value and manage their interactions with nature, supporting nature-positive strategies, regulatory alignment and science-based decisions through geospatial data and recognized sustainability frameworks.

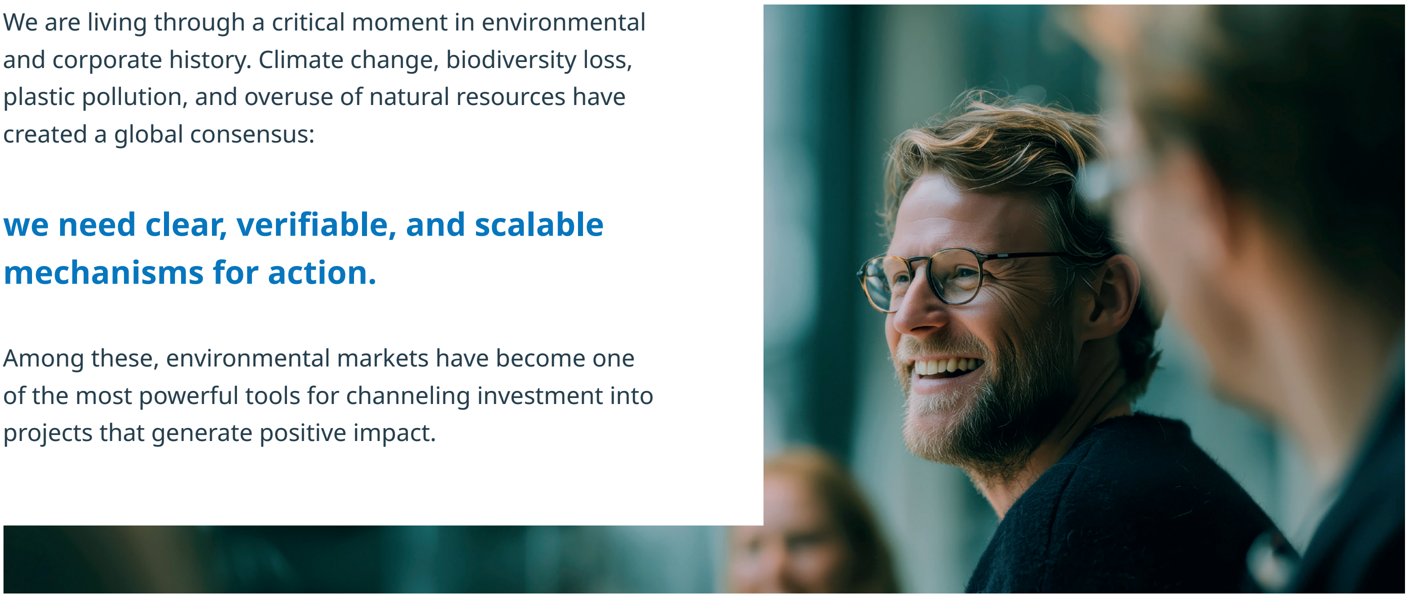


Turning Sustainability into Action You Can Trust

We are living through a critical moment in environmental and corporate history. Climate change, biodiversity loss, plastic pollution, and overuse of natural resources have created a global consensus:

we need clear, verifiable, and scalable mechanisms for action.

Among these, environmental markets have become one of the most powerful tools for channeling investment into projects that generate positive impact.



Environmental markets allow companies, governments, and investors to buy and sell environmental credits that represent measurable outcomes: reduced CO_2 emissions, restored ecosystems, optimized water use, energy efficiency improvements, or plastic avoided. Each credit is a unit of environmental value that contributes directly to sustainability commitments.

The growth of these markets is undeniable:

- The voluntary carbon market mobilized **USD 535M in 2024** with more than **111 million credits sold.**(1)
- Global demand for biodiversity credits could reach **USD 69B by 2050.**(2)
- Over 30 multinational companies (Microsoft, Google, Tesla, PepsiCo, Amazon, among others) have committed to being Water Positive between 2030 and 2050.
- Energy efficiency certificates in Spain are expected to surpass **€935M annually by 2025.**(3)
- The plastic credit market grew by **40% in just two years.** (4)

Yet the challenges are immense: **the credibility of these markets depends on transparency, security, and standardization.** Cases of fraud, double counting, or poorly certified projects not only undermine buyer confidence but also reduce the real environmental impact.

Here lies the opportunity: **digital platforms must be trustworthy, scalable, and flexible**, ensuring credit traceability, secure transactions, and adaptability to diverse assets and methodologies.

Environmental Markets was created to meet precisely this challenge. It offers:

- **Blockchain technology** to tokenize credits and prevent fraud.
- **Flexibility** to handle multiple assets and standards.
- **Scalability** to integrate new emerging markets.
- **Transparency across** the entire lifecycle of credits.

(1) 2024 State of the Voluntary Carbon Market, Ecosystem Marketplace

(2) Biodiversity Credits: Demand Analysis and Market Outlook, World Economic Forum

(3) Energy Saving Certificates, a potential market worth 7 billion per year

(4) 2024 Unlocking financing to combat the plastics crisis. The World Bank Group

Environmental Markets is a secure, traceable digital platform that enables the generation, purchase, and sale of environmental credits tied to multiple assets: carbon, biodiversity, water, plastics, and energy efficiency. Its core technology is blockchain, ensuring that every credit issued is unique, verifiable, and non-duplicable.

The platform covers three major functions:

Credit Generation

Projects aimed at reducing emissions, restoring ecosystems, improving water efficiency, enhancing energy efficiency, or avoiding plastics can be registered on the platform. From this registration, **environmental benefits are validated and certified,** leading to the issuance of tokenized credits ready for market.

Environmental Marketplace

Once generated, credits are made available to buyers: corporations with ESG targets, governments, investment funds, or responsible consumers. The marketplace facilitates fast, secure, and transparent transactions, centralizing supply and demand in one space.

Traceability and Security

Thanks to blockchain, each credit comes with a full history—from origin and certification to trade and retirement. This traceability prevents double counting, reinforces trust, and ensures that credits truly represent verifiable environmental impact.

Environmental Markets is more than just another market: it is a flexible, trustworthy, and scalable infrastructure. Unlike closed or single-asset solutions, the platform enables simultaneous operations with multiple credit types, adapting to the needs of markets in constant evolution.

The Bridge Between Projects and ESG Goals

Environmental Markets stands out from other solutions in the market thanks to three fundamental pillars:

Flexibility and Adaptability

The platform is designed to support multiple assets (carbon, biodiversity, water, plastics, and energy efficiency) and adapt to different standards and methodologies. This ensures that both **buyers and sellers can find solutions tailored to their needs.**

Security and Trust through Blockchain

Each credit generated is tokenized on blockchain, ensuring uniqueness and traceability. This eliminates risks of fraud or double counting—two of the most critical issues in today's environmental markets.

Active Participation in Sustainability Forums

NTT DATA is member of international organizations and working groups on climate and nature action. This reinforces the platform's credibility and ensures alignment with global best practices.

In short, Environmental Markets is not just a technology platform—it is a **guarantee of trust, innovation, and leadership in sustainability.**


Five Ways Environmental Markets Works for You

Meeting ESG Objectives

Organizations can achieve their environmental goals in a verifiable way by acquiring certified credits that integrate directly into ESG reporting. This strengthens corporate reputation, builds investor confidence, and enhances stakeholder trust.

Accessibility for Diverse Stakeholders

The platform democratizes access to environmental markets, allowing large corporations, SMEs, governments, and local communities to participate by either generating credits or purchasing them to offset their footprint.

Monetizing Sustainable Projects

Developers of environmental projects can register initiatives and generate credits to sell in the marketplace. This provides additional revenue streams, improves project viability, and amplifies positive environmental impact.

Scalability for Future Evolution

Designed to adapt to changing markets, the platform can incorporate new environmental asset types and emerging methodologies, ensuring users always have a relevant, future-ready tool.

Fraud Prevention and Total Transparency

Through blockchain, every credit is recorded with a full traceable history. This prevents duplication, manipulation, or inconsistencies, guaranteeing that every transaction is transparent and trustworthy.

Core Capabilities Driving Market Transparency

Multi-Asset Digital Marketplace

A single space to buy and sell environmental credits in carbon, water, biodiversity, plastics, and energy efficiency. It centralizes supply and demand, simplifying the user experience and boosting market liquidity.

Tokenization and Blockchain

Every credit is transformed into a blockchain token, ensuring uniqueness, traceability, and security in all transactions. Tokenization prevents double counting and reinforces confidence in the legitimacy of credits.

Flexibility in Standards and Methodologies

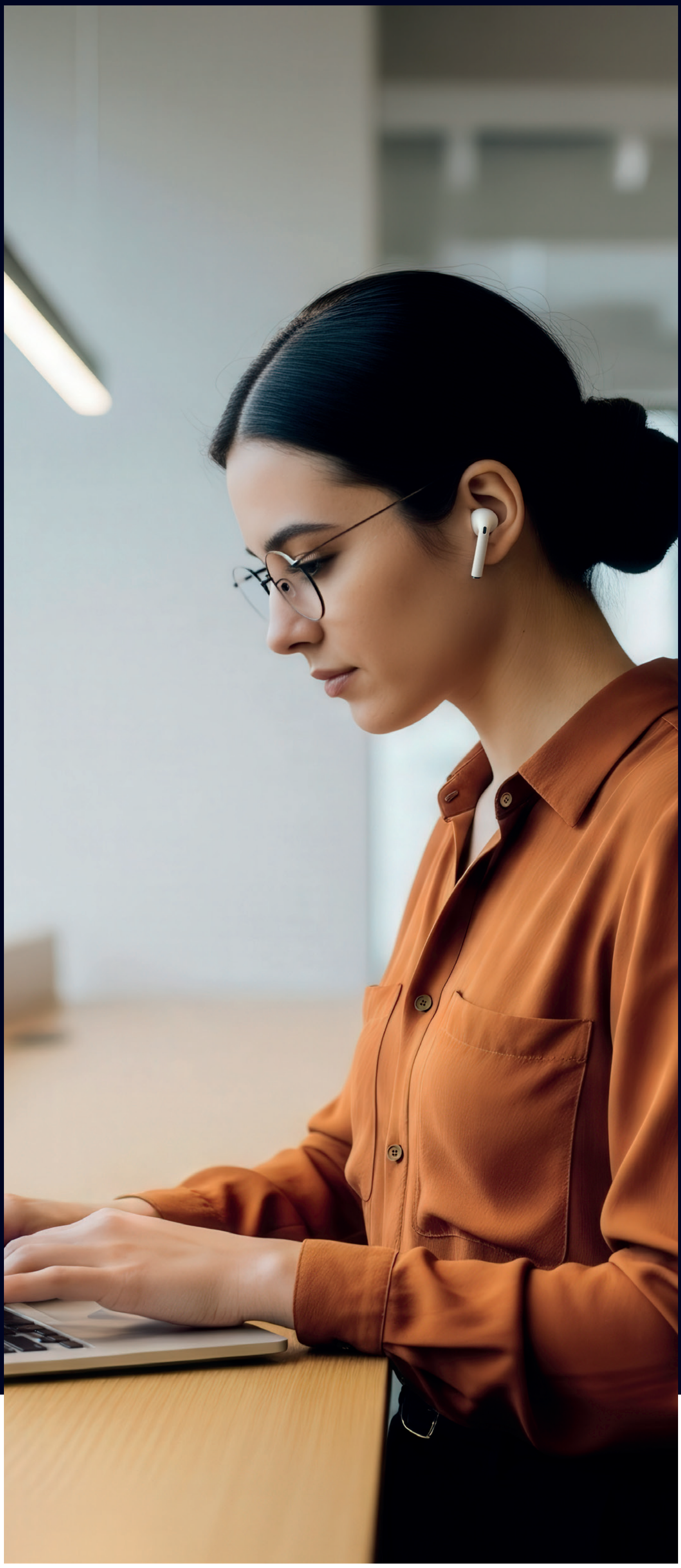
The platform adapts to multiple regulatory frameworks and recognized standards, allowing diverse projects to integrate and comply with specific market requirements.

Process Automation

From project registration to credit issuance and trading, processes are automated to reduce time, costs, and administrative burden, improving efficiency for all participants.

Interoperability and Reporting

Environmental Markets integrates with monitoring systems, corporate reporting tools, and public registries. This simplifies ESG reporting, regulatory alignment, and transparency with investors and auditors.



Water Positive Credits

Companies committed to becoming "Water Positive" can purchase water credits (CAPs) to offset their water footprint and demonstrate environmental leadership. Conservation, restoration, and water management projects are financed through the sale of these credits, ensuring more water is replenished than consumed.

Energy Efficiency Certificates (CAEs)

Organizations implementing energy-saving measures—such as lighting upgrades, thermal insulation, or industrial equipment renewal—can register their achievements on the platform and obtain tradable certificates. This generates additional revenue, offsets investment costs, and supports compliance with national energy efficiency obligations.

Biodiversity Credits

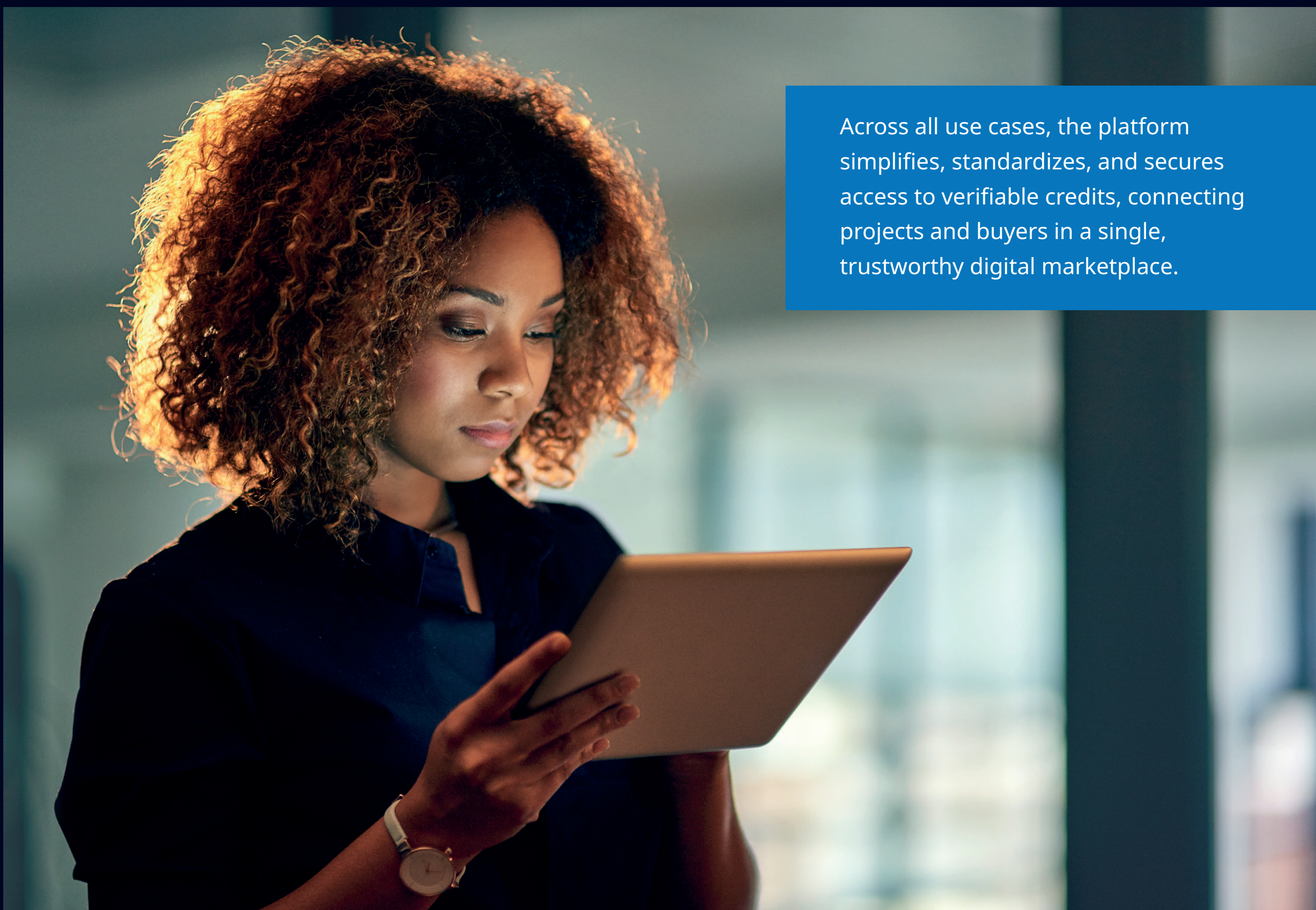
Businesses seeking to mitigate their impact on ecosystems can acquire biodiversity credits, financing restoration, wildlife corridors, or species protection projects. These credits integrate into corporate biodiversity strategies and strengthen nature-positive commitments.

Carbon Credits

Reforestation, renewable energy, and energy efficiency projects generate carbon credits that can be sold to companies with Net Zero goals. Buyers offset emissions while supporting local or global projects with additional social and environmental co-benefits.

Plastic Credits

Consumer goods and manufacturing companies can purchase credits certifying plastic collection or recycling, mitigating their environmental impact while addressing growing regulatory and social pressure to reduce plastic pollution.



Across all use cases, the platform simplifies, standardizes, and secures access to verifiable credits, connecting projects and buyers in a single, trustworthy digital marketplace.

About NTTDATA

NTT DATA - a part of NTT Group - is a trusted global innovator of IT and business services headquartered in Tokyo. We help clients transform through consulting, industry solutions, business process services, IT modernization and managed services. NTT DATA enables clients, as well as society, to move confidently into the digital future. We are committed to our clients' long-term success and combine global reach with local client attention to serve them in over 50 countries.