

Syntphony Beyond Net Zero

Helping our clients to calculate their end-to-end environmental footprint and propose initiatives to reduce their impact, to foster decarbonization and meet their net zero targets, while complying with the regulatory frameworks.



Insurance



Telco, Media & Technology



Energy & Utilities



Retail



Manufacturing &
Consumer Packaging Goods



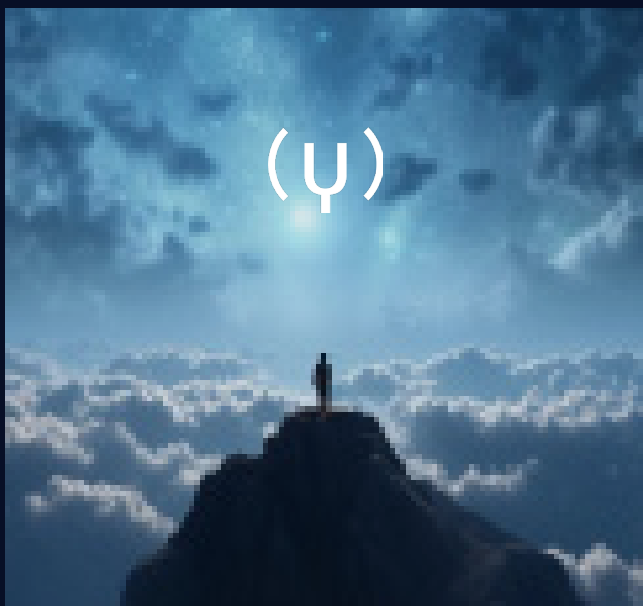
Automotive



Healthcare, Life Sciences & Pharma

syntphony

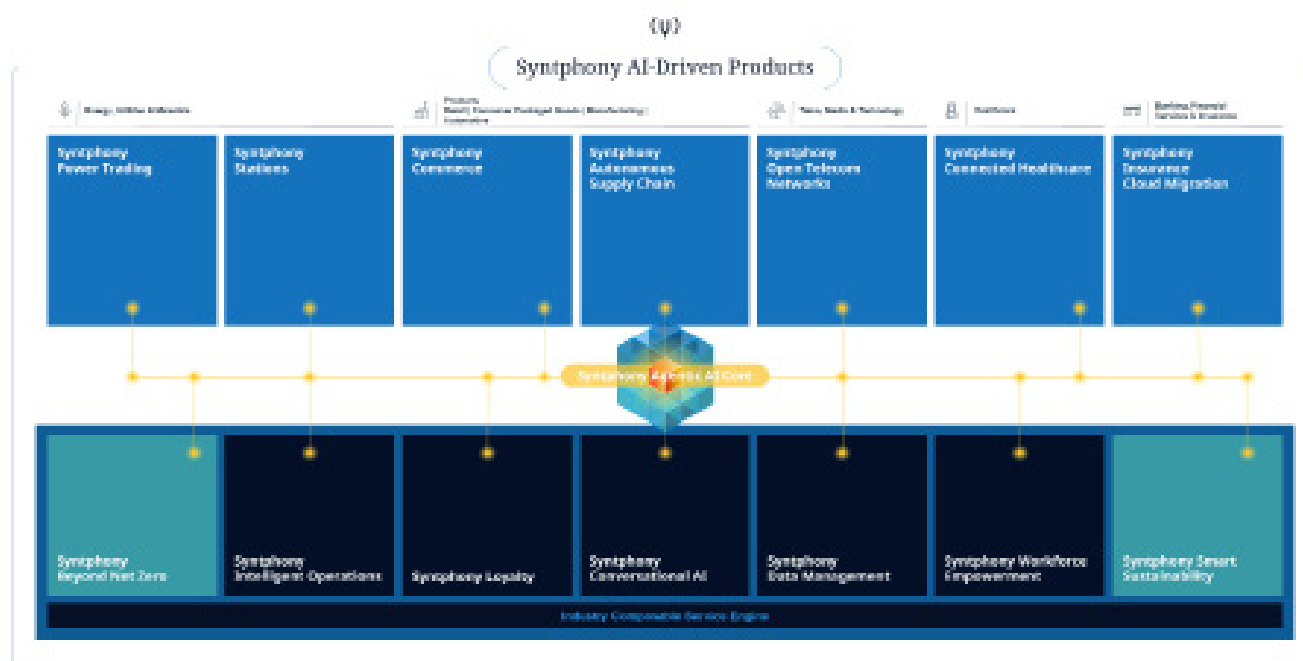
We develop products and solutions that are in tune with businesses



Syntphony is the composable platform of digital products and solutions from NTT DATA, created to help global organizations 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 AI-driven 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 Insights

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.





Agentic AI in Beyond Net Zero: Product-Specific Capabilities

Beyond Net Zero portfolio embeds advanced agentic AI capabilities across multiple sustainability domains, enabling autonomous execution of Environmental, Social and Governance workflows, enhanced data intelligence, and scalable operational efficiency. These capabilities are tailored per product to maximize business impact and sustainability outcomes.

Automated ESG reporting agents

Generate standardized GHG and ESG reports directly from platform data, ensuring consistency, accuracy, and auditability.

Data validation & quality agents

Detect anomalies, inconsistencies, and incorrect emission factors using historical comparisons and ML-driven validation.

Document intelligence & data extraction agents

Ingest external documents (PDFs, bills, CAD plans, images) and automatically extract, structure, and map sustainability data into platform models.

Operational optimization agents

Provide recommendations for energy savings, decarbonization pathways, and resource efficiency based on contextual and predictive insights.

Advanced monitoring & verification agents

Automate validation processes (e.g., project documentation, satellite imagery, technical consistency checks) improving integrity and trust in sustainability data.





Business Value Delivered by Agentic AI

Accelerated time-to-value

AI agents reduce reporting cycles and onboarding time by automating data ingestion, validation, and report generation.

Improved data quality & trust

Automated validation and anomaly detection ensure high-quality, auditable ESG data across all domains.

Scalable sustainability operations

Ability to scale across assets, geographies, and regulatory frameworks without increasing operational complexity.

Operational efficiency gains:

Significant reduction in manual effort across workflows such as reporting, document processing, and compliance validation.

Enhanced decision-making

Predictive insights and AI-driven recommendations improve planning, forecasting, and sustainability strategy execution.

Beyond Net Zero enables clients to transform sustainability into a strategic driver of value by leveraging agentic AI to automate ESG processes, improve data accuracy, and accelerate reporting. It empowers organizations with predictive insights and optimization capabilities that reduce costs and emissions while enhancing decision-making. Ultimately, it delivers scalable, intelligent sustainability operations that strengthen compliance, efficiency, and competitive advantage.



ICT Carbon Insights

ICT Carbon Insights

Corporate Carbon Insights

Real State Carbon Insights

Environmental Markets

Natural Capital

Measure, analyze, and report the carbon footprint of IT assets with AI-powered sustainability

As organizations accelerate digital transformation, the environmental impact of IT infrastructure has become a critical sustainability challenge. Companies need greater visibility into the **carbon footprint** of hardware, software, data centers, cloud environments and digital operations while addressing increasing ESG reporting requirements and stakeholder expectations.

However, collecting emissions data, identifying abnormal consumption patterns, and producing greenhouse gas reports often requires significant effort. **ICT Carbon Insights** transforms operational ICT data into actionable sustainability intelligence, providing **automated reporting, emissions monitoring and AI-driven anomaly detection** to improve environmental performance and reporting accuracy.

ICT Carbon Insights provides a centralized platform to measure, monitor and report the environmental impact of digital and IT assets

- **Carbon emissions monitoring:** Tracks and visualizes emissions from hardware and software assets across the organization..
- **AI-powered anomaly detection:** Identifies unusual CO2e patterns and operational inefficiencies.
- **Automated GHG reporting:** Generates standardized greenhouse gas reports from platform data.
- **Sustainability intelligence dashboard:** Delivers actionable insights into ICT sustainability performance and optimization opportunities.



Differentiation

Unlike traditional sustainability platforms that require significant manual effort to prepare ICT emissions reports, **ICT Carbon Insights** embeds AI directly into reporting and monitoring processes. The platform automatically leverages existing operational and emissions data to generate standardized reports while maintaining consistency with dashboard analytics and sustainability calculations.

The solution combines carbon accounting, anomaly detection, reporting automation, and user guidance

within a **single platform**. By integrating **AI-powered analytics and reporting capabilities**, organizations can significantly reduce reporting effort while improving the quality, consistency, and reliability of sustainability disclosures.

Benefits

Faster sustainability reporting: Automatically generates standardized GHG reports with minimal manual intervention.

Improved data consistency: Ensures alignment between dashboard metrics and official sustainability disclosures.

Reduced reporting effort: Eliminates repetitive manual activities associated with emissions reporting.

Enhanced carbon visibility: Provides continuous insight into ICT-related environmental performance.

Better decision-making: Supports sustainability teams with timely and accurate carbon intelligence.

Higher quality deliverables: Improves standardization and accuracy across sustainability reports.

Features

Carbon analytics dashboard: Provides visibility into ICT emissions, trends, and sustainability KPIs.

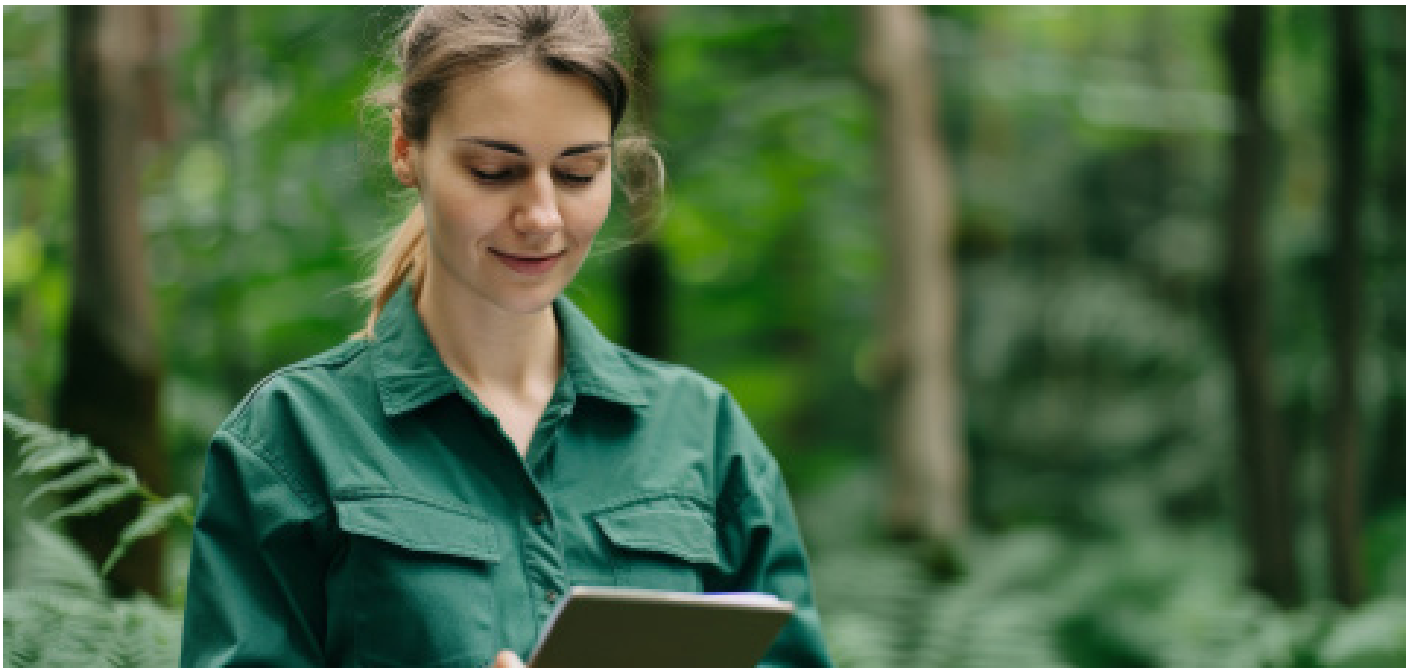
CO2e anomaly detection module: Uses AI to identify unusual emissions patterns across hardware and software assets.

Automated GHG report generation: Creates ready-to-use sustainability reports directly from platform data.

Embedded calculation logic: Applies existing carbon accounting methodologies and emission factors automatically.

AI sustainability assistant: Guides users and helps them navigate platform functionalities and sustainability concepts.

Export management: Delivers reports in PDF and DOCX formats for external stakeholders and auditors.



Use cases

- Reducing the environmental impact of IT operations
- Automating greenhouse gas reporting and disclosures
- Supporting ESG compliance and carbon governance programs
- Identifying carbon hotspots across digital assets
- Improving sustainability performance through AI insights

Corporate Carbon Insights

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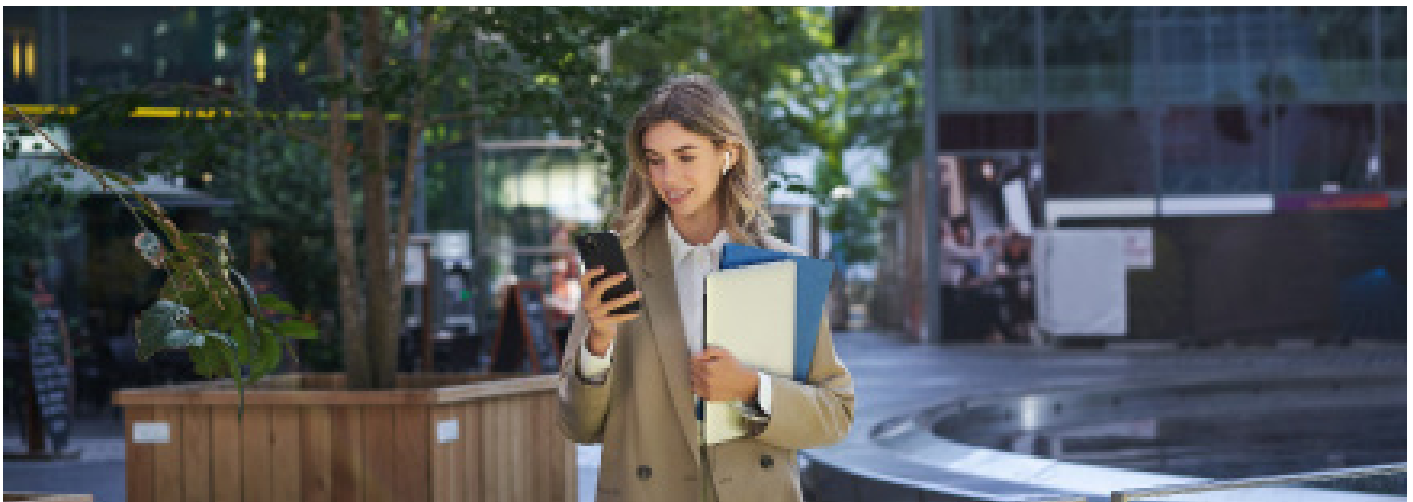
Transform fragmented Environmental, Social and Governance (ESG) data into trusted carbon

Organizations face increasing pressure to deliver accurate, timely and auditable ESG disclosures. However, emissions data is often fragmented across facilities, suppliers, business units and external sources, making carbon reporting complex and error-prone.

Corporate Carbon Insights accelerates sustainability programs by **automating ESG data collection, validation, emissions management and reporting**. Using AI-powered document ingestion, data quality controls and automated report generation, it helps sustainability teams reduce manual effort, improve confidence in ESG results and deliver faster, audit-ready disclosures.

Corporate Carbon Insights provides a centralized platform for managing enterprise carbon data:

- **Automated ESG reporting:** Generates consolidated ESG reports across Scope 1, 2 and 3 emissions.
- **Intelligent data extraction:** Captures emissions data from external documents and integrates it into platform datasets.
- **AI-based data quality validation:** Detects inconsistencies, anomalies and reporting errors.
- **Scope 3 intelligence:** Enriches emissions-factor data using public sustainability sources



Differentiation

Unlike traditional carbon accounting platforms that depend heavily on manual data preparation and spreadsheet-based reconciliation, **Corporate Carbon Insights embeds AI** directly within sustainability workflows. AI-driven extraction, validation, and reporting capabilities significantly **reduce the operational burden on sustainability and ESG** teams while improving transparency and consistency across enterprise-wide reporting activities.

The solution combines sustainability expertise, emissions management capabilities, and intelligent process automation in a **single platform**. Rather than functioning as a generic reporting tool, Corporate Carbon Insights acts as an AI-enhanced sustainability workspace, assisting users throughout the complete ESG reporting lifecycle.

Benefits

Faster ESG reporting: Generate stakeholder-ready sustainability reports in significantly less time.

Reduced manual effort: Automate data collection, validation and report preparation activities.

Higher data quality: Detect inconsistencies and validation issues before they impact reporting outcomes.

Greater trust in ESG outputs: Increase confidence in carbon disclosures through AI-supported controls.

Features

Consolidated ESG report generator: Automatically creates PDF-based ESG reports spanning Scope 1, 2 and 3 emissions.

Document intelligence engine: Ingests external sustainability documents and extracts emissions-related information.

Sustainability data mapping: Automatically maps extracted information to platform structures and reporting fields.

Improved sustainability governance: Standardize emissions management processes across business units and geographies.

Accelerated decision making: Provide sustainability leaders with faster reliable information.

Validation & quality control module: Detects unusual variations, inconsistencies and potential factor issues.

Scope 3 emission factor engine: Sources and enriches Scope 3 factors from external data repositories.

AI sustainability assistant: Provides contextual guidance to help users navigate and operate the platform.

Use cases

- Automated ESG disclosure & compliance reporting
- Corporate carbon accounting across scope 1, 2 & 3
- AI-powered emissions data collection & validation
- Multi-entity sustainability performance monitoring
- Audit-ready carbon reporting & assurance support



Real State Carbon Insights

ICT Carbon Insights

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Turn building data into actionable decarbonization strategies through AI-powered

Real estate owners, facility managers and sustainability teams face growing pressure to reduce emissions, improve energy efficiency and comply with ESG requirements. However, building information is often fragmented across invoices, technical documents, CAD drawings, energy systems and operational teams, making sustainability assessments complex and difficult to scale. Real Estate Carbon Insights addresses these challenges by combining AI-driven building intelligence, sustainability analytics and automated reporting in a single platform, helping organizations focus on action rather than data collection.

Real Estate Carbon Insights helps organizations decarbonize buildings and optimize energy performance across real estate portfolios through:

- **Intelligent energy savings recommendations:** Identifies improvement opportunities based on building characteristics and performance.
- **Decarbonization forecasting:** Predicts energy consumption, emissions and decarbonization pathways.
- **Automated building data capture:** Extracts information from invoices, technical documents and asset inventories.
- **AI-generated sustainability reporting:** Produces sustainability reports with insights, findings and recommendations.



Differentiation

Unlike traditional energy management platforms that rely heavily on manual data collection and specialist consulting support, **Real Estate Carbon Insights** embeds AI directly into sustainability workflows. The solution **automatically ingests** building information, **interprets** operational data, **and generates** actionable recommendations tailored to each building's characteristics and performance profile.

The platform uniquely combines building intelligence, forecasting, automated data

acquisition, and sustainability reporting into a single solution. By **integrating AI-powered document understanding**, energy optimization recommendations, and carbon-reduction planning capabilities, organizations can accelerate sustainability initiatives while reducing operational complexity and manual effort.

Benefits

Faster building onboarding: Automatically captures and structures building information from multiple document sources.

Better sustainability decisions: Provides AI-driven recommendations to support energy and carbon reduction initiatives.

Reduced manual effort: Automates data collection, analysis, and report generation activities.

Improved decarbonization outcomes: Helps organizations identify the most effective pathways toward sustainability targets.

Enhanced forecast accuracy: Projects future energy prices, consumption patterns, and decarbonization scenarios.

Scalable portfolio management: Supports consistent sustainability practices across large real estate portfolios.

Features

AI recommendation engine: Suggests energy-saving measures based on building type, client profile, and current operating conditions.

Decarbonization pathway modeling: Simulates emissions-reduction scenarios and future sustainability performance.

Energy price forecasting: Predicts future energy cost evolution to support planning and budgeting decisions.

Building data extraction: Processes supplier invoices, energy service documents, CAD files, inventories, and images.

Automated sustainability reporting: Generates reports with findings, recommendations, and improvement opportunities.

AI sustainability assistant: Guides users through platform functionality and sustainability analysis processes.



Use cases

- Accelerating building decarbonization programs
- Identifying and prioritizing energy savings opportunities
- Automating building and asset data collection
- Forecasting energy costs, emissions and self-sufficiency
- Generating audit-ready ESG and sustainability reports
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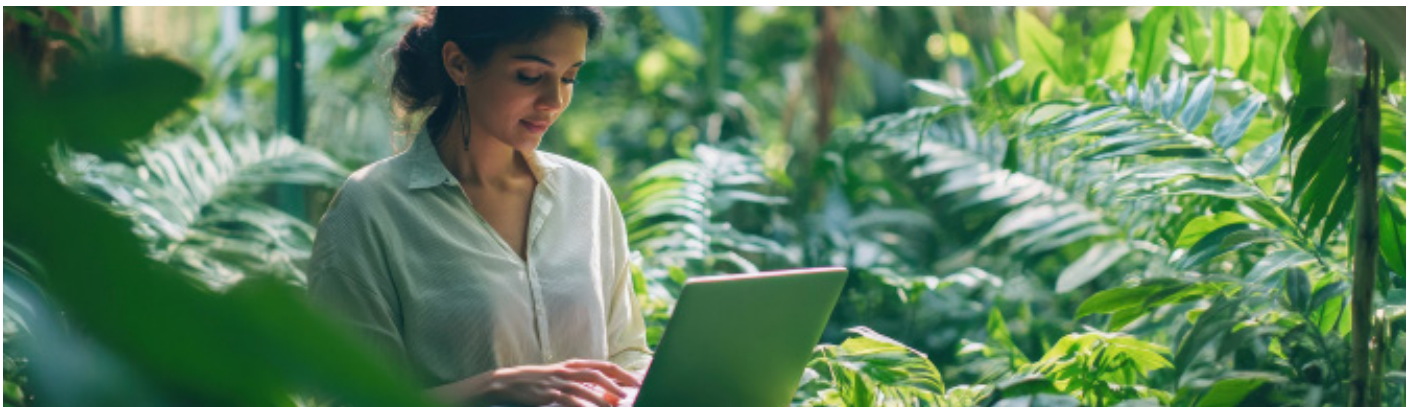
A blockchain-based marketplace to fund and scale environmental assets.

Just as carbon markets have effectively mobilized finance for climate-related projects, the concept of credits has expanded to water, biodiversity, soil health, and plastics. Managing environmental markets requires digital tools that offer agility, automation, and flexibility, alongside security, traceability, and veracity in credit generation and transactions.

These platforms are essential in the global fight against climate change. They facilitate the buying and selling of credits, enabling businesses to invest in sustainability and reduce their carbon footprint through transparent, efficient participation in environmental markets.

Environmental Markets facilitates the creation of traceable, transparent environmental markets by:

- Following the full project cycle (from project registration to credit issuance): carbon emissions, water efficiency, avoided plastic, biodiversity and energy efficiency
- Providing a secure, trustworthy and traceable marketplace: through blockchain technology, credits are tokenized, providing security and trust and preventing potential fraud.
- The credits generated and verified by an external certified entity are tokenized using blockchain technology and tracked until they are offset. The tokenized credits can be sold on a Marketplace.



Differentiation

Unlike other tools, which only work with one type of environmental asset, **Environmental Markets adapts to different types of credits linked to environmental assets** (water positive credits, avoided plastic credits, energy efficiency,...), as well as to different methodologies and standards. **This provides great flexibility and adaptability.**

Similarly, the asset is configurable to the needs of different markets and standards, adapting to processes, roles, data and any other required parameters. **This provides the opportunity to offer a greater and diverse portfolio of options for sellers and buyers and global reach.**

Benefits

Additional revenue stream by financing sustainable actions/ projects

ESG objectives compliance

environmental credits acquired through the marketplace can be used by buyers to carry out offsetting actions, as well as to support their ESG objectives.

Funding green projects

the revenue generated from the sale of credits can be reinvested in environmentally friendly projects, further reducing emissions.

Features

Generation of different types of environmental credits

by registering projects on the platform, these can lead to the generation of environmental assets (carbon credits, water positive credits, avoided plastic credits, biodiversity credits and energy efficiency credits)

Marketplace

certified credits, after the monitoring period, may be traded through the platform marketplace.

Security, trust and traceability

blockchain technology, for the tokenization of the credits generated, provides security and trust, avoiding potential fraud.

Use cases

Water-Positive Credits Generation

Registers water-saving projects, calculates water-positive credits, and issues them via a tokenized blockchain system. Enables traceable, validated credits to be traded securely in a trusted marketplace.

Forest Climate Credits Generation

Tracks biomass growth, land use changes, and deforestation risk to generate certified carbon credits from forest projects, aligned with climate regulations and ready for secure trading.

Energy Efficiency & Carbon Credits Platform

Registers and tracks energy efficiency projects, calculates corresponding energy and carbon credits, and lists them for trade or offsetting. Aggregates savings into traceable assets, reducing administrative burden and supporting compliance.





Natural Capital

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Nature is the backbone of the global economy, yet integrating natural capital into corporate strategy remains an emerging practice. The complexity of nature and fragmented metrics make it difficult to set goals and track progress. Data gaps and inconsistencies limit organizations' ability to assess nature-related impacts, dependencies, risks, and opportunities. Data collection is resource-intensive, especially across geographies.

Natural Capital helps organizations future-proof nature-positive strategies, align with evolving regulations, and lead the transition to a nature-positive economy through robust assessment and decision-making tools.

Natural Capital is a digital tool that helps organizations understand, measure, and disclose nature-related impacts, dependencies, and risks by:

- Digitalizing primary and secondary data to establish a baseline.
- Quantifying impacts and dependencies after identifying material environmental, social, and legal risks linked to operations.
- Valuing natural assets and ecosystem services economically and environmentally.
- Defining scenario planning and cost-efficient action plans, including reporting and disclosure, based on results and organizational appetite for action.



Differentiation

Unlike other tools, Natural Capital has been designed to bring a new layer of management on natural capital topics by adding steps that support organizations take decisions on how to manage their nature-related dependencies and risks and proactively include these topics in their decision making.

A combination of satellite images and Global Information Systems (GIS), corporate reporting, sectorial benchmarks and regulatory standards to provide information relevant for decision making and future compliance. It is aligned with main nature standards to help organizations set and track measurable nature-positive goals.

Benefits

Integrates science-based methodologies and advanced data analysis to deliver actionable insights on natural capital management.

Built on internationally recognized frameworks such as the TNFD (Taskforce on Nature-related Financial Disclosures) and the Natural Capital Protocol, ensures credibility and alignment with best practices.

Leverages satellite imagery and geospatial intelligence to provide location-specific insights.

Features

Combines remote sensing (secondary data) with corporate data to deliver a holistic view of nature-related risks and opportunities.

Provides a step-wise approach to digitalize and georeference data and to value natural capital, offering a 360° view of nature interactions **to support company's decision-making.**

Interface tailored to the needs of organizations dashboards displaying a summary of results, nature-related impacts and dependencies, management costs and revenues, among others — all aimed at providing clear visualization and facilitating reporting.

Scenario modeling to support the development of management plans.

Use cases

Nature Impact Assessment in Solar Infrastructure:

Industry / Client Type:

Renewable energy / Infrastructure companies

Problem:

Large infrastructure projects risk damaging biodiversity but lack tools to assess and plan around nature impacts.

Solution:

- Uses satellite data and corporate inputs to map land use, biodiversity impact and nature dependencies.
- Generates a holistic baseline and proposes management scenarios.

Benefit:

- Informed decisions to minimize ecological impact.
- Clear reporting aligned with TNFD and nature-related standards.





About NTT DATA

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.