syntphony NTT DATA

Syntphony Beyond Net Zero

Helping our clients to calculate their end-to-end environmental footprint and propose initiatives to reduce their impact, to foster decarbonisation 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

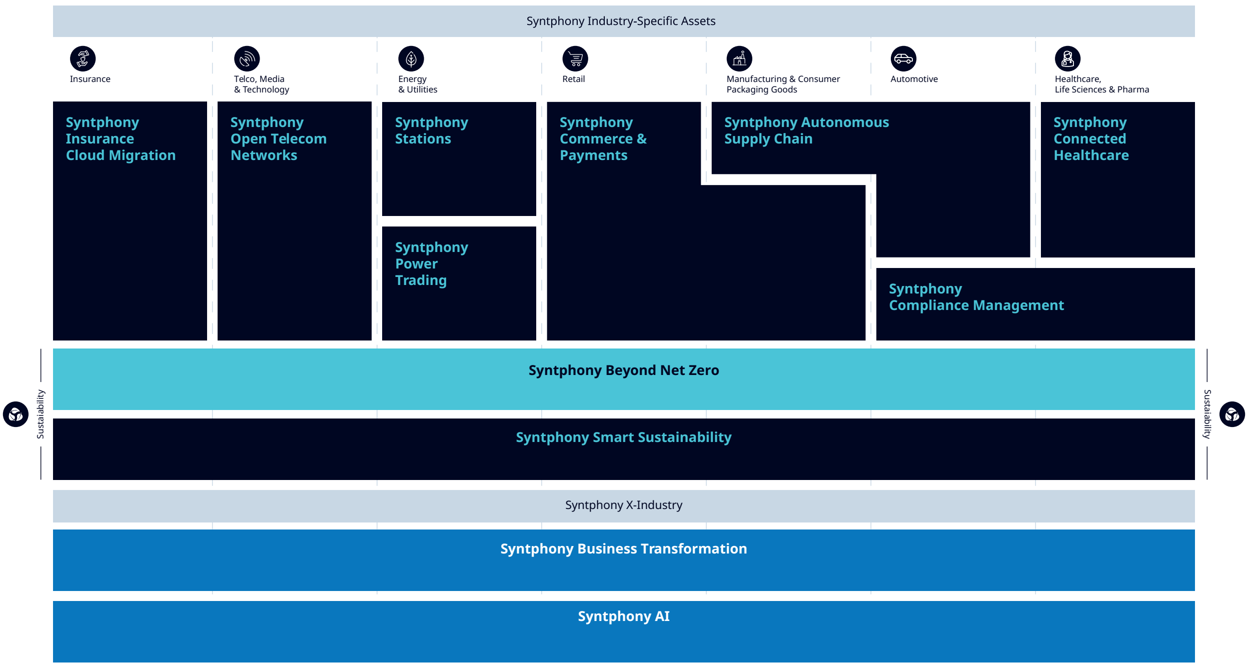
syntphony

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 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

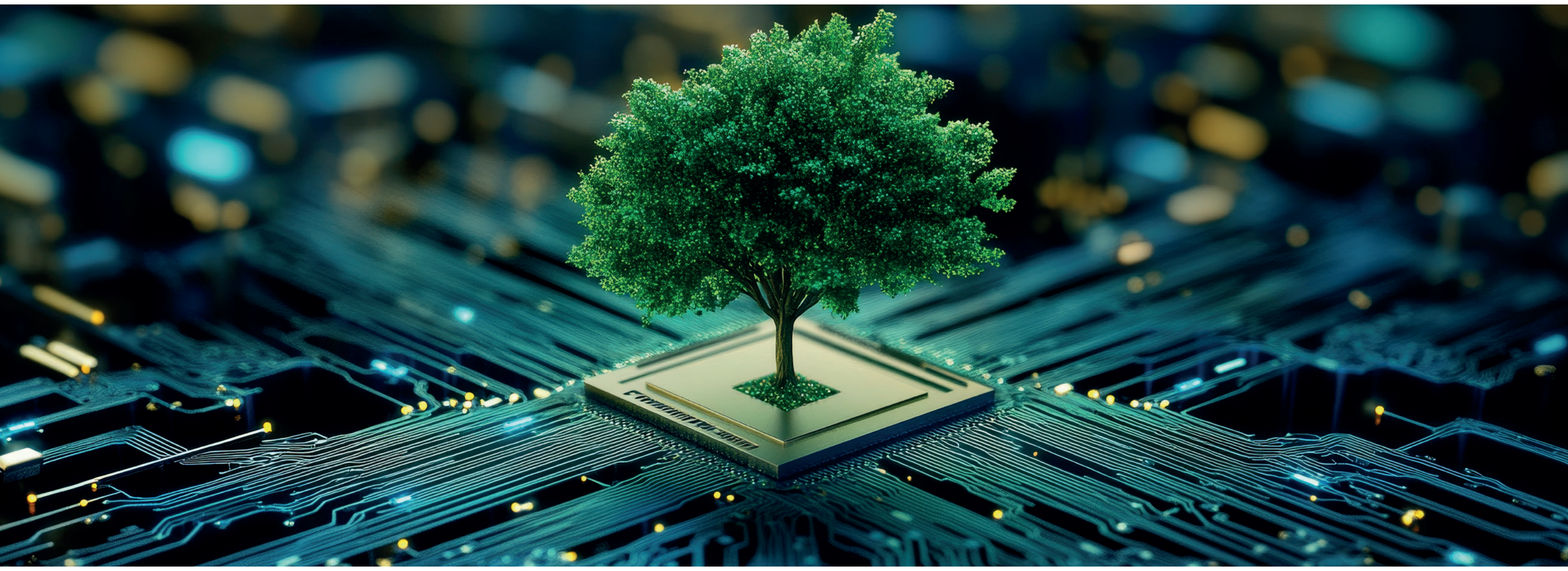
End-to end carbon footprint calculation for devices, applications, cloud, data centres, networks and Real Estate, based on real-time data. Corporate carbon emissions reporting.

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.



Carbon Calculator

From data to decarbonization—empowering every organization to build a cleaner digital future

The ICT Carbon Calculator is a proprietary, expert-developed solution that redefines how organizations manage IT sustainability. Unlike fragmented or basic CO_2 tracking tools, **it delivers a unified, science-based approach to measuring, forecasting, and optimizing emissions across the entire IT estate**—including applications, hardware, cloud, networks, and data centers. Built on global standards (LCA, GHG Protocol, SCI) and embedded within NTT DATA's Sustainable IT Framework, **it empowers organizations with precise, actionable insights to drive measurable impact** and accelerate their Net Zero journey. No other tool on the market offers this level of depth, integration, and strategic foresight

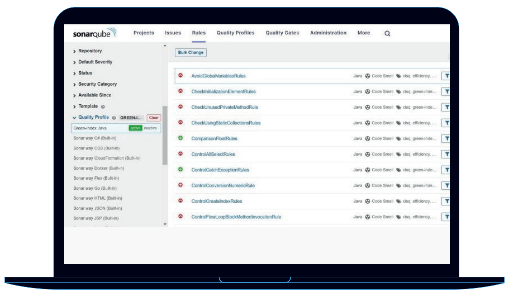
Our comprehensive solution helps organisations manage their IT environmental footprint through three scalable components:

- **Cloud-Based Calculation Engine:** Hosted securely, it delivers advanced logic and AI-powered analytics for accurate sustainability calculations.
- **Data Adapter:** Collects data from multiple sources—telemetry, cloud, and on-premises—through flexible, ready-to-use connectors.
- **Data Visualisation Dashboard:** Offers a clear, intuitive interface to explore sustainability metrics, identify patterns, and gain insights that support smarter, more efficient IT operations.

Differentiation

Unlike any other tool on the market, the ICT Carbon Calculator offers a truly comprehensive, science-based solution for measuring and managing IT-related carbon emissions.

Developed by sustainability experts and part of NTT DATA's Beyond Net Zero portfolio, **it uniquely combines service-level, activity-based calculations across all IT domains**—applications, hardware, cloud, networks, and data centers. With built-in forecasting, what-if scenario modeling, and anomaly detection, it delivers unmatched precision and actionable insights—filling a critical market gap where no single, integrated tool currently exist



Benefits

End-to-End Emission Visibility
tracks carbon across all IT assets with science-based, standards-aligned calculations.

Future-Focused Forecasting
predicts emissions trends to support strategic sustainability planning.

Scenario Simulation
tests "what-if" strategies to identify the most effective carbon reduction paths.

Data Accuracy & Trust
detects anomalies to ensure reliable, audit-ready emissions data.

Effortless Reporting
automates generation of customizable, standards-compliant carbon reports.

Seamless Integration
API access for embedding carbon insights into existing dashboards and tools.

Features

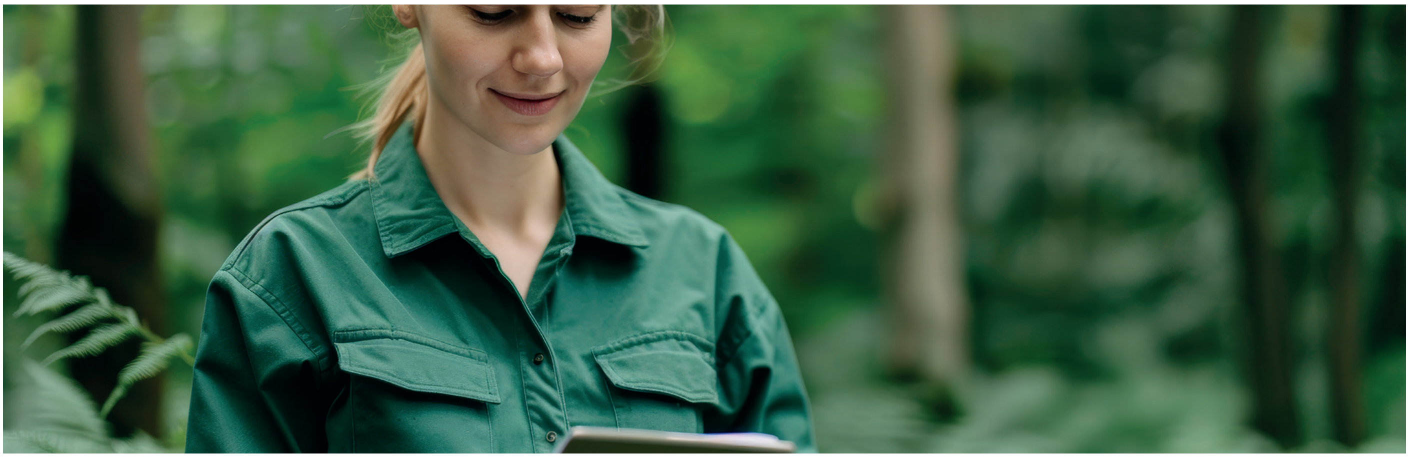
Forecasting module that uses historical IT data and trend analysis to model future carbon emissions and sustainability scenarios

What-If' scenario simulator that models the carbon impact of different IT strategies before implementation

Anomaly detection system that identifies outliers and inconsistencies in emissions data to ensure accuracy and reliability

Automated report generator that produces customizable, standards-compliant carbon emissions reports with visual insights

RESTful API for carbon data integration, enabling seamless embedding of emissions metrics into existing dashboards and analytics platforms



Use cases

Green Coding with ICT Carbon Calculator

Integrates sustainable coding into development pipelines using customised static analysis rules. Helps reduce energy consumption and emissions by improving software efficiency.

Sustainable Data Centre Management

Enables data-driven sustainability for data centres through digital twins, automated reporting, and predictive scenario analysis to reduce waste and improve resource planning.

IT Emissions Monitoring

Provides granular visibility into IT emissions by tracking consumption across CPU, memory, storage and network. Supports compliance, reveals optimisation areas and drives impactful carbon reduction strategies.

Environmental Markets

A blockchain-based marketplace to fund and scale environmental assets.

Just as carbon markets have effectively mobilised 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.

Differentation

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 objetives 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 tokenised 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 tradable assets, reducing administrative burden and supporting compliance.

Natural Capital

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 organisations' ability to assess nature-related impacts, dependencies, risks, and opportunities. Data collection is resource-intensive, especially across geographies.

Natural Capital helps organisations 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 organisations understand, measure, and disclose nature-related impacts, dependencies, and risks by:

- Digitalising 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 organisational appetite for action.

Differentation

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 organisations 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 digitalise and georeference data and to value natural capital, offering a 360º 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 modelling 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 minimise ecological impact.
- Clear reporting aligned with TNFD and nature-related standards.

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.