tcs Envirozone™

TCS Envirozone™

Consumer Packaged Goods and Distribution - EIS

As consumers become more conscious of the ethical and environmental impact of goods and services, businesses want to ensure their money is invested in cleaner organizations that value and prioritize sustainability. The United Nations' Sustainable Development Goals (SDGs) have brought a new dimension to companies' disclosure and story-telling practices, making them re-think their approaches and contributions to sustainability. There is an emerging need for solutions, partnerships, and ideas to address some of these world's most pressing environmental challenges.

TCS Envirozone™ solution helps businesses in end-to-end carbon emission management by helping them adopt low carbon or carbon-neutral strategies. Integrated with solutions such as O-zone, net zero and sustainable line-haul, iCloseLoop, and 5R sustainable packing framework, the solution consistently mitigates sourcing risks, generates alerts for supplier data and sustainability impact factor errors, and makes product packaging recyclable.

Overview

With 193 UN member states adopting the 17 Sustainable Development Goals (SDGs) in 2015, corporations are now looking to address complex sustainability challenges by bringing essential changes to align their business functions with the SDGs. Also, as consumers drive the sustainability movement with their lifestyle and behavioral changes, companies are becoming more cautious to ensure that their practices are eco-friendlier and address the complex sustainability challenges. They are, therefore, striving to make clean, green, and ethical products to meet the sustainable product labels trend.

TCS Envirozone is a digital solution powered by sustainability data ecosystems that helps organizations track and mitigate supplier-sourcing risks to aid procurement decisions for a sustainable supply chain. By helping organizations track key SDG activities to balance over 150 environment, social and governance (ESG) key performance indicators (KPIs), such as baseline water stress, greenhouse gas emissions, child labor, and human right risks, the solution helps bring a sweeping change in the way organizations collect data to assess sustainability performance and mitigate risks from supply chain. It also addresses brand sustainability risks by mitigating operational and upstream risks. With TCS Envirozone, businesses gain visibility and control of upstream procurement, packaging, manufacturing operations and downstream distributions risks to build a sustainable enterprise.
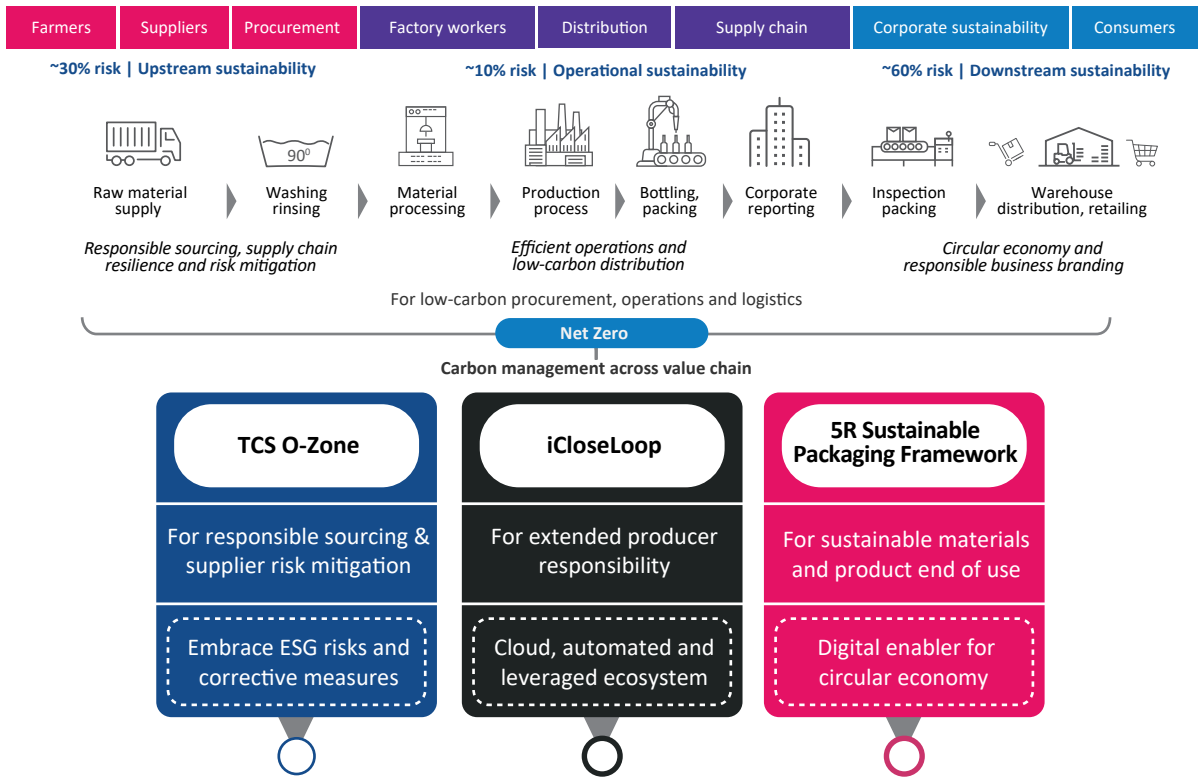
| Farmers | Suppliers | Procurement | Factory workers | Distribution | Supply chain | Corporate sustainability | Consumers |

~30% risk | Upstream sustainability   **~10% risk | Operational sustainability**   **~60% risk | Downstream sustainability**

Raw material supply → Washing rinsing → Material processing → Production process → Bottling, packing → Corporate reporting → Inspection packing → Warehouse distribution, retailing

Responsible sourcing, supply chain resilience and risk mitigation   *Efficient operations and low-carbon distribution*   *Circular economy and responsible business branding*

For low-carbon procurement, operations and logistics

Net Zero

Carbon management across value chain

TCS O-Zone	**iCloseLoop**	**5R Sustainable Packaging Framework**
For responsible sourcing & supplier risk mitigation	For extended producer responsibility	For sustainable materials and product end of use
Embrace ESG risks and corrective measures	Cloud, automated and leveraged ecosystem	Digital enabler for circular economy

Figure 1: Key features of TCS Envirozone solution

Our solution

TCS Envirozone provides these solutions to organizations:

tcs Envirozone™ Ozone

- **O-Zone:** Tracks key SDG activities for risks and sustainability assessment by leveraging scenario analysis built on artificial intelligence and machine learning (AI-ML) predictive systems. Support different business compliances by on-boarding farmers or warehouse owners, customizing the input screens for pre- and post-harvest data, and enhancing data accuracy for farmhouse or warehouse latitude and longitude details through Google geo-tagging.

tcs Envirozone™ Net-zero

- **Net zero and sustainable line-haul:** Captures enterprise and plant-level greenhouse gas compliance with a digital platform; provides data governance system for data quality and completeness for net zero emissions management.

tcs Envirozone™ iCloseloop

- **iCloseLoop and 5R packaging framework:** Build sustainable packaging solution through recovery of post-consumer plastics by leveraging IoT-based smart collection points for data connectivity and visibility to reduce plastics to landfills, thus achieving circular economy goals.

Benefits

TCS Envirozone provides the following benefits:

Enhanced traceability: Increases traceability of product packaging and supplier data to conduct scenario analysis for switching suppliers, raw materials, and geography. Audit traceability on supplier data for evidence submission for supply chain sustainability reporting.

Sustainability performance: Reduces time for sustainability performance disclosure by up to 90-95%—from 10 months to two weeks, and creates perception of a responsible brand.

Reduced ESG risks: Increases visibility on carbon allocation across value chain to improve supplier sustainability and reduce ESG risks. Assesses carbon footprint of scope 1, 2, and 3, including direct and indirect emissions, raw materials, upstream and downstream logistics and distribution, and fuel and energy.

Improved process time: Brings down costs by leveraging a reliable platform to cut down the process time by 80%.

The TCS advantage

A partnership with TCS can help businesses take advantage of the following key differentiators:

Experience in delivering sustainability engagements with global customers: Our global database mapping platform obtains sustainability key factors from multiple external data sources, internal activity data systems, and provides sustainability performance assessment based on globally accepted estimation methods and geography/business-specific contextual understanding.

Global scale coupled with domain and technology expertise: TCS Business 4.0™ framework helps industries monetize digital transformation through four business behaviors–creating exponential value, driving mass personalization, leveraging ecosystem, and embracing risk. We help businesses achieve excellence through an end-to-end transformation to drive value across diverse segments such as CPG, utility, retail, manufacturing, and financial services.

Innovation labs and Center of Excellence: TCS' experienced industry and domain professionals in innovation labs and TCS Sustainability Center of Excellence bring extensive expertise and a unique set of ideas and business models to accelerate customers' sustainability journey. We help ensure environmental, climate, and social risks are addressed on time to help businesses propel forward into a low-carbon and socially inclusive world.

![TATA CONSULTANCY SERVICES]

Awards and accolades

#1 IN CUSTOMER SATISFACTION 2020/21 EUROPE — Whitelane Research

top EMPLOYER NORTH AMERICA 2021 — CERTIFIED EXCELLENCE IN EMPLOYEE CONDITIONS

top EMPLOYER GLOBAL 2020 — CERTIFIED EXCELLENCE IN EMPLOYEE CONDITIONS

ASIA'S OUTSTANDING COMPANIES POLL 2020 ASIAMONEY

STEVIES 2020 — STEVIE AWARD

CONGRATULATION CIO100 WINNERS 2020

FinanceAsia ASIA'S BEST COMPANIES 2020

DIGITAL IMPACT AWARDS WINNER

CANADIAN HR AWARDS 2020

THE CIVIC 50 POINTS OF LIGHT

FTSE4Good

CDP DISCLOSURE INSIGHT ACTION

2020 Brand Finance Awards — **TOP 3 IT SERVICES BRAND**

2020 Brand Finance Awards — **FASTEST GROWING IT SERVICES BRAND FOR THE DECADE 2010 - 2020**

AWARDED Superbrands BRITAIN'S CHOICE 2020

AWARDED Superbrands AMERICA'S CHOICE 2020

Contact

Visit the Consumer Goods & Distribution page on www.tcs.com

Email: global.cpgsolutions@tcs.com

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is a purpose-led transformation partner to many of the world's largest businesses. For more than 50 years, it has been collaborating with clients and communities to build a greater future through innovation and collective knowledge. TCS offers an integrated portfolio of cognitive powered business, technology, and engineering services and solutions. The company's 500,000 consultants in 46 countries help empower individuals, enterprises, and societies to build on belief.

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