

# COSIRI Lines Up With UN Sustainable Development Goals (SDG)

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*Use COSIRI-10 or 24 to reduce your environmental impact and meet  
SDG's goals*

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# Mapping SDG Goals to COSIRI

## Introduction

The Sustainable Development Goals (SDGs) set by the United Nations provide a comprehensive framework for addressing global challenges such as climate change, pollution, clean energy, and education. These goals are designed to be a universal call to action, urging all sectors of society, including businesses, to contribute to a more sustainable and equitable world. Achieving these goals requires a collaborative effort, with each sector playing a crucial role in driving progress.

The Consumer Sustainability Industry Readiness Index (COSIRI) is a tool that helps organizations identify and improve gaps in their efforts. COSIRI is closely aligned with the SDGs. As specific SDGs are mapped to relevant COSIRI dimensions, companies can systematically improve their sustainability performance and integrate them into their core operations. This alignment not only enhances corporate responsibility but also drives innovation, efficiency, and long-term success.

This article explores how various SDGs align with COSIRI dimensions, highlighting the interconnectedness of sustainable development and industry practices. By understanding these connections, companies can better contribute to global sustainability efforts, ensuring that their actions support broader societal goals. This integrated approach is essential for creating a sustainable future where economic growth, social inclusion, and environmental protection go hand in hand.

## SUSTAINABLE DEVELOPMENT GOALS



## SDG 6:

*Companies can contribute to SDG 6 by implementing water-saving technologies, reusing, recycling, and responsible discharge practices.*

## SDG 4: Quality Education ↔ COSIRI Dimension: Workforce Development

Quality education is essential for developing a skilled workforce. COSIRI's Workforce Development dimension assesses the training and upskilling of employees to meet the sustainability needs of their company. By investing in education, companies can ensure their workforce is equipped with the necessary skills and knowledge to take the company to a higher level of sustainability capabilities.

**Example:** A furniture company focuses on training and upskilling employees in sustainable materials, eco-friendly manufacturing processes, design for sustainability, health and safety, quality control, and digital skills to meet its sustainability goals.

## SDG 6: Clean Water and Sanitation ↔ COSIRI Dimension: Resources (Water, Energy)

Access to clean water and sanitation is a fundamental human right. COSIRI's Resources dimension emphasizes the need for efficient water and energy management. Companies can contribute to SDG 6 by implementing water-saving technologies, reusing, recycling, and responsible discharge practices.

**Example:** A manufacturing plant might install a water recycling system to reduce its water consumption. This not only conserves water but also reduces the plant's operational costs.

### Consumer Sustainability Readiness Index

Strategy & Risk Management		Sustainable Business Process				Technology	Organisation & Governance	
Strategy	Risk Management	Operation	Procurement	Supply Chain	Product Lifecycle (Circularity)	Clean Technology	Talent Readiness	Structure & Management
Strategy & Targets	Physical Climate Risk	Greenhouse Gas Emissions	Supplier Assessment	Transportation & Distribution	Product Design	Adoption	Workforce Development	External Communication & Engagement
ESG Integration	Transition Climate Risk	Resources (Water, Energy)						
Green Business Building	Compliance Risk	Material Waste	Sustainable Procurement Process	Supply Chain Planning	Circularity Process Management	Transparency & Optimisation	Leadership & Envolvement	Governance
Capital Allocation	Reputation Risk	Pollution (Air, Soil, Water)						

**SDG 7: Affordable and Clean Energy ↔ COSIRI Dimension: Adoption (Clean Tech)**

Affordable and clean energy is crucial for sustainable development. The Adoption dimension in COSIRI encourages the use of clean technologies, such as solar energy. By adopting renewable energy sources and energy-efficient technologies, companies can reduce their carbon footprint and support SDG 7.

**Example:** A factory might buy renewable energy or install solar panels on the roofs of its factories to generate clean energy. This reduces the factory's reliance on fossil fuels and lowers its energy costs.

**SDG 8: Decent Work and Economic Growth ↔ COSIRI Dimension: Leadership Involvement**

Decent work and economic growth are vital for sustainable development. COSIRI's Leadership Involvement dimension highlights the role of leadership in promoting sustainable business practices. Leaders can drive initiatives that create more challenging and impactful work opportunities, which foster new economic growth.

**Example:** A multinational corporation might implement fair labor practices across its supply chain, ensuring that all workers are paid a living wage and work in safe conditions. This not only improves the lives of workers but also enhances the company's reputation.

**SDG 9: Industry, Innovation, and Infrastructure ↔ COSIRI Dimension: Transparency and Optimisation**

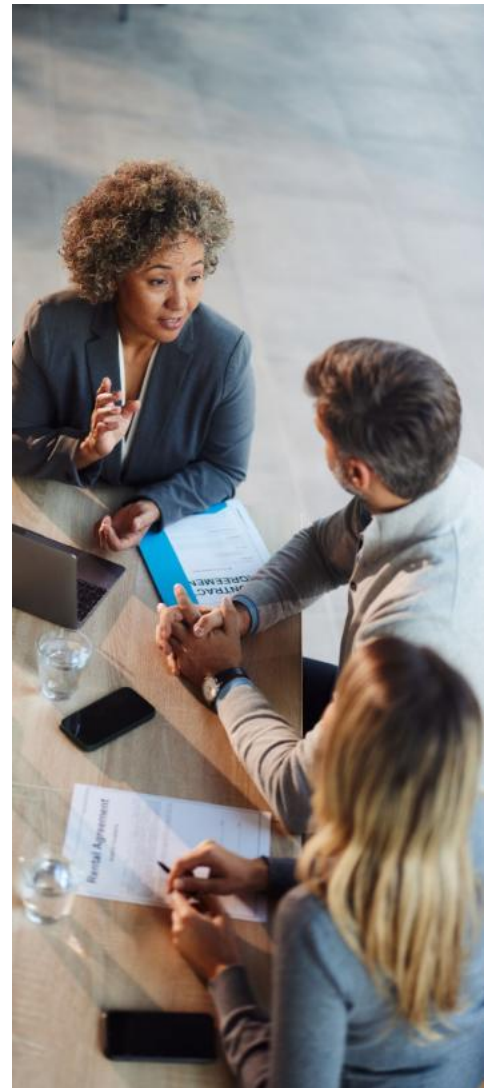
COSIRI's Transparency and Optimisation dimension assesses the adoption of technology to optimize processes and ensure efficiency and transparency in operations. By adopting sustainability technology, companies can better manage their sustainable efforts against targets.

**Example:** A logistics company might use data analytics to optimize its delivery routes, reducing fuel consumption and emissions. This not only makes the company more efficient but also reduces its environmental impact.

**SDG 12: Responsible Consumption and Production ↔ COSIRI Dimension: Supplier Assessment**

Responsible consumption and production are essential for sustainability. COSIRI's Supplier Assessment dimension evaluates the sustainability practices of suppliers. Companies can promote responsible production by ensuring their suppliers adhere to sustainable practices.

**Example:** An automotive company might assess its suppliers to ensure they have sustainability aligned with theirs. This not only helps the brand reduce its environmental footprint but, also, positions and appeals to eco-conscious consumers.



**SDG 7:**  
*A factory might buy renewable energy or install solar panels on the roofs of its factories to generate clean energy. This reduces the factory's reliance on fossil fuels and lowers its energy costs.*

## SDG 13: Climate Action ↔

### COSIRI Dimension: Strategy and Targets

Climate action requires a comprehensive approach. The Strategy and Targets dimension in COSIRI involves setting ambitious goals for reducing greenhouse gas emissions and implementing strategies for the whole organization, from R&D, production, transportation, supply chain, and others.

**Example:** A company might commit to becoming carbon neutral by 2030. This involves setting specific targets for reducing emissions, such as switching to renewable energy sources, sustainable shipping, and supply chain.

### COSIRI Dimension: Greenhouse Gas Emissions

Managing greenhouse gas emissions is critical for climate action. This dimension focuses on measuring, reporting, and reducing emissions across the company's operations.

**Example:** A transportation company might invest in electric vehicles to reduce its carbon emissions. By tracking its emissions and making data-driven decisions, the company can significantly lower its environmental impact.



### COSIRI Dimension: Sustainable Procurement Process

Sustainable procurement involves sourcing materials and services in a way that minimizes environmental impact. This dimension ensures that companies consider sustainability when making purchasing decisions.

**Example:** A construction company might choose to buy materials from suppliers that use sustainable practices, such as recycled steel or low-emission concrete. This helps reduce the overall environmental impact of the construction process.

### COSIRI Dimension: Supplier Assessment

Assessing suppliers for their sustainability practices is crucial for climate action. This dimension involves evaluating suppliers based on their environmental performance and encouraging them to adopt sustainable practices.

**Example:** A food company might work with its agricultural suppliers to implement sustainable farming practices, such as reducing pesticide use and conserving water. This not only supports the company's sustainability goals but also promotes environmental stewardship among its suppliers.

### COSIRI Dimension: Transportation and Distribution

Transportation and distribution are significant sources of greenhouse gas emissions. This dimension focuses on optimizing logistics to reduce emissions and improve efficiency.

**Example:** An e-commerce company might use route optimization software to reduce the distance traveled by its delivery trucks, thereby lowering fuel consumption and emissions.

### COSIRI Dimension: Supply Chain Planning

Effective supply chain is related to continuous improvement in supply/demand planning, forecast accuracy, inventory management, and bulk purchase, across the value chain.

**Example:** A consumer electronics company might redesign its supply chain to reduce the number of intermediate steps, thereby cutting down on transportation emissions and improving overall efficiency.

#### **COSIRI Dimension: Product Design**

Sustainable product design involves creating products that have a minimal environmental impact throughout their lifecycle. This dimension encourages companies to consider sustainability from the initial design phase.

**Example:** A furniture manufacturer might design products that can be easily disassembled and recycled at the end of their life. This reduces waste and promotes a circular economy.

#### **COSIRI Dimension: Circular Process Management**

Circular process management focuses on creating closed-loop systems where materials are reused and recycled. This dimension helps companies reduce waste and make the most of their resources.

**Example:** A beverage company might implement a bottle return program, where customers can return used bottles for recycling. This reduces the need for new materials and minimizes waste.

#### **COSIRI Dimension: Resources (Water, Energy)**

Efficient use of water and energy is essential for climate action. This dimension focuses on reducing consumption and improving efficiency in resource use.

**Example:** A data center might implement cooling technologies like Closed Loop Systems, which recycle water within the cooling system, thereby reducing water loss due to evaporation.

#### **COSIRI Dimension: Transparency and Optimisation**

The use of sustainability technology improves data accuracy and reliability. Having an automated system reduces human errors and resources. Such management is critical to transparency and optimization, enabling companies to intelligently plug the gaps.

**Example:** A global technology company operates several data centers worldwide. To align with SDG 13 (Climate Action) and improve its sustainability practices, the company implemented an automated energy management system.

**SDG 14:**  
*Pollution dimension addresses the impact of industrial activities on air, soil, and water. Companies can support SDG 14 by reducing pollutants and implementing sustainable practices that protect marine life.*

#### **SDG 14: Life Below Water ↔ COSIRI Dimension: Pollution (Air, Soil, Water)**

Protecting marine ecosystems is critical for sustainability. COSIRI's Pollution dimension addresses the impact of industrial activities on air, soil, and water. Companies can support SDG 14 by reducing pollutants and implementing sustainable practices that protect marine life.

**Example:** A chemical company might invest in technologies that reduce the discharge of harmful substances into waterways, thereby protecting aquatic ecosystems.

#### **SDG 15: Life on Land ↔ COSIRI Dimension: Pollution (Air, Soil, Water)**

Sustainable management of terrestrial ecosystems is vital. Similar to SDG 14, COSIRI's Pollution dimension also applies here. Companies can contribute to SDG 15 by minimizing their environmental impact and promoting biodiversity.

**Example:** An agricultural company might adopt sustainable farming practices that reduce soil erosion and promote biodiversity, such as crop rotation and organic farming.



## **SDG 16: Peace, Justice, and Strong Institutions ↔ COSIRI Dimension: Governance**

Strong institutions and governance are essential for sustainable development. COSIRI's Governance dimension focuses on the clear incorporation of sustainability considerations in management oversight and management's roles & responsibility for sustainability-related initiatives.

**Example:** A shock absorber manufacturer establishes a Sustainability Governance Committee to oversee sustainability initiatives, integrates a comprehensive sustainability policy into its governance framework, and conducts regular sustainability audits and reporting. This ensures transparency, accountability, and alignment with SDG 16, enhancing stakeholder trust and contributing to strong institutions.



## **Conclusion**

The alignment of SDG goals with COSIRI dimensions underscores the interconnectedness of global sustainability efforts and industry practices. By mapping SDGs to COSIRI dimensions, companies can systematically address sustainability challenges and contribute to a more sustainable future. This integrated approach not only enhances corporate responsibility but also drives innovation, efficiency, and long-term success.

Embracing these connections is essential for any organization committed to sustainability. COSIRI provides a structured framework that helps companies integrate sustainable practices into their operations, ensuring they are not only compliant with global standards but also leaders in their industries. By adopting COSIRI, companies can demonstrate their commitment to the SDGs, attract socially conscious consumers, and build a resilient business model that thrives in a rapidly changing world.

In conclusion, the synergy between SDGs and COSIRI dimensions offers a powerful pathway for companies to achieve their sustainability goals. This alignment enables businesses to make meaningful contributions to global development while enhancing their own operational efficiency and market competitiveness. By using COSIRI, companies can play a pivotal role in creating a sustainable and prosperous future for all.

## About INCIT

The International Centre for Industrial Transformation (INCIT) is an Environmental, Social, and Governance (ESG) institution which champions manufacturing transformation. As an independent non-profit entity, INCIT (pronounced as “insight”) collaborates with both public and private sector manufacturing-related organisations to support industrial transformation, to enable global manufacturing to become more resilient and productive, and better positioned for future success.

We develop and deploy globally referenced frameworks, tools, concepts, training and certification programs for the international manufacturing community to raise awareness about the latest transformation developments and manufacturing trends, provide benchmarks that are international, publicly available and quantitative, and facilitate the sharing of learning points, challenges and best practices for industrial transformation.

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