Approaches to moving towards a 'Green future'

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IBM's longstanding commitment to environmental stewardship









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CEO Thomas Watson Jr. Commits IBM to responsible corporate citizenship

1988

- First goal for Nonhazardous waste recycling - Goal for PFC emissions

reductions

1990

Begins annual corporate environmental reporting

1995

Goal for use of recycled plastic resins in products

2001

First purchase of contracted renewable energy for use in operations

2007

Published position on climate change, calling it a "serious concern that warrants meaningful action on a global basis"

2019

Founding member of the Climate Leadership Council supporting bipartisan plan for carbon tax and dividend

Jan. 2022

IBM introduces Sustainability Software and Consulting: acquires Envizi to help clients operationalize sustainability goals

1971

IBM issues first Corporate environment al policy

1975

First goal for energy conservation

1989

Goal for CFC elimination reporting

1994

IBM advances voluntary through the Public Environmental Reporting Initiative (PERI)

2000

First goals for - CO₂ reduction the first Water conservation - Reuse & recycle endof-life

products

2003

IBM becomes company to recover and recycle one billion pounds of IT and e-waste

2010

Require suppliers to implement an environmental management system, set goals and publicly disclose performance

2021

IBM Commits To Net Zero Greenhouse Gas Emissions By 2030

Feb. 2022

IBM launches Sustainability Accelerator to scale organizations supporting communities vulnerable to climate change



The ESG Framework

Environmental

How do I reduce the **carbon footprint** and **environmental impact** of my company's operations and products?

How do I prepare for and mitigate the impact of climate change on my company and / or stakeholders?

Social

How do I create a **safe, positive, equitable workplace** for employees?

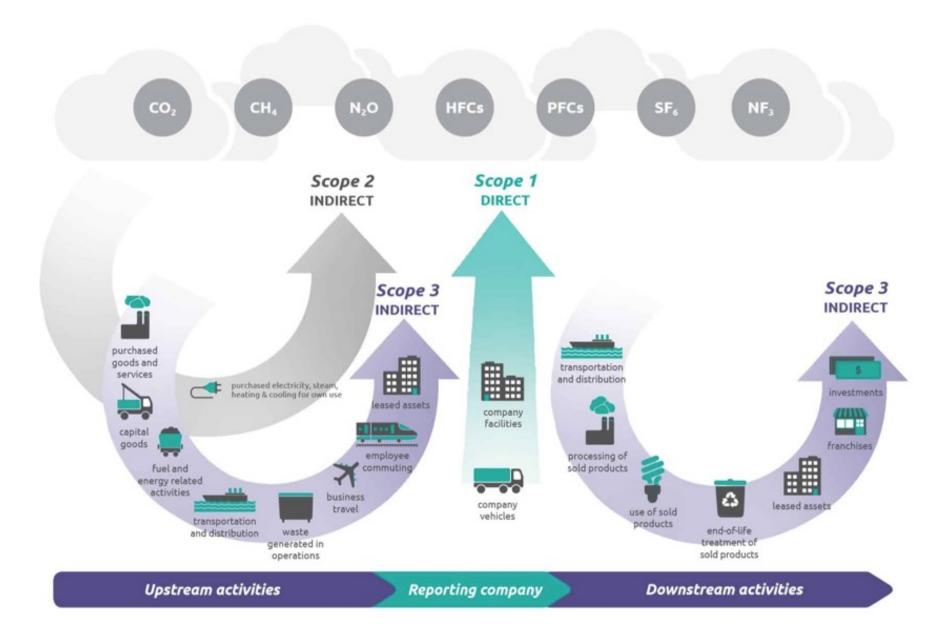
How do I ensure my supply chain aligns with my ethical values?

How do I ensure my company delivers **inclusive and positive impact** in our broader ecosystem?

Governance

How can I build a **governance structure that is auditable, compliant**, and can help me achieve my ESG goals?

Complexity rises with Scope 3 – technology can only manage it





Where Software technology can help in Sustainabilty and the IBM mapping

IBM Consulting and **Ecosystem Partners**

Strategy, experience, technology, managed services capabilities

Sustainability Strategy and Roadmap

Garage for Sustainability (co-creation) Sustainability strategic advisory services

ESG Data, Reporting and Climate Risk Management Envizi Environmental Intelligence Suite







Intelligent assets, facilities and infrastructure

Maximo TRIRIGA



Responsible computing and green IT

Turbonomic



Sustainable supply chains and circularity

Sterling Order Management Supply Chain Intelligence Suite

IBM Technology and Ecosystem Partners

Infused with AI and hybrid cloud technologies

Sustainability Challenge



Regulatory

Rising pressure to meet environmental, social & governance (ESG) goals.



Yet invisible, high emissions in Supply Chain

Up to 80% of emissions are coming from the supply chain.



Decarbonization Targets

Record commitments by companies. But most lack a roadmap to get there



Environmental challenges

Create business risks across the enterprise.



IBM's sustainability solutions

IBM Consulting and Ecosystem Partners

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Common way to track ESG data today

Audit readyness?

Reliable, trusted data?

Data health, completeness ?



Do we start it from scratch next year?

Just reporting annually or reaching net zero?



Image source https://www.consider.biz/ excelheavenandhell/

What are requirements to succeed establishing foundation towards Sustainability?







- Automated collection and consolidation of all Sustainability data
- Calculate GHG emissions out of the box know-how
- Score or help in data quality and completeness
- Embedded analytics and audit readiness
- Up to date (managed) ESG disclosure frameworks and workflow capability – know how
- Decarbonization programs; target setting & tracking
- Energy efficiency benchmarking, alerting



Envizi helps organizations harness the power of data and analytics to achieve their sustainability goals.

1

Build →

Data Foundation



A single system of record that delivers auditable, financial grade sustainability data

2.

Streamline \(\square\)

Reporting + Disclosure



GHG calculation and flexible reporting tools to meet internal and external requirements

3.

Accelerate o

Decarbonization



Unlock insights to inform the fastest and most cost-effective pathway to low carbon goals

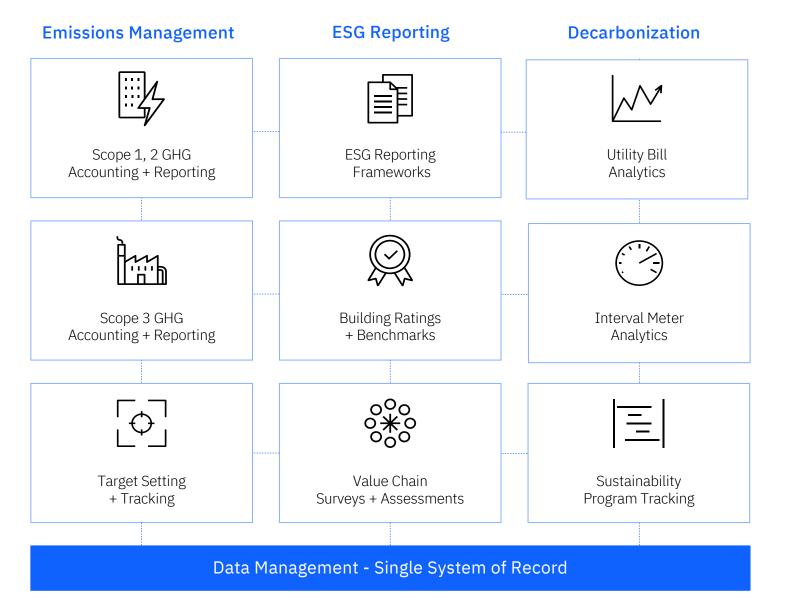
Envizi - Purpuse built and out of the box



Solution



IBM Envizi – a modular and complete solution







Key takeaways

Technology can help to establish a data foundation

Data foundation creates a baseline for truthful understanding of AS-IS situation

Automated capture provides no mistakes, trusted data

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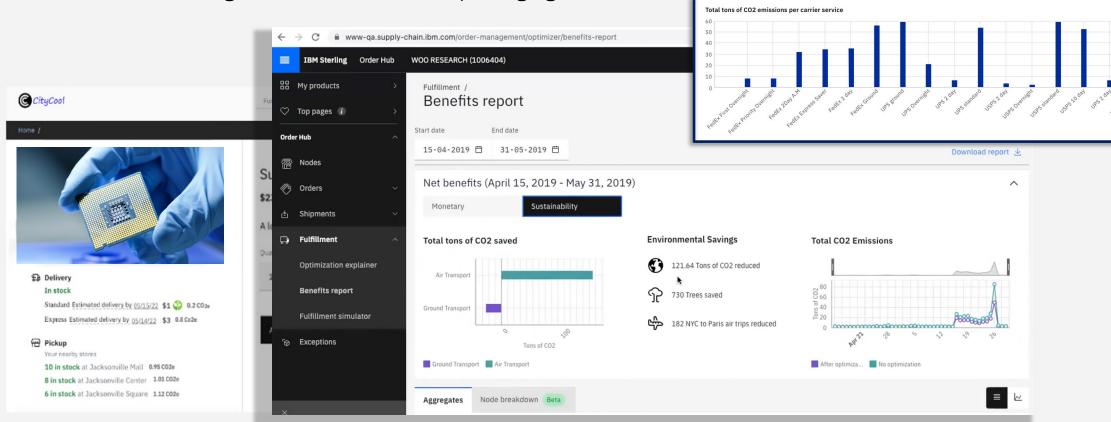
Fulfillment Optimization

Benefits Reporting with Carbon Emissions

What's next

Measure, monitor & report on carbon emissions produced. Streamline supply chain sustainability. Future, set levers to optimize fulfillment based on sustainability

initiatives, minimizing carbon emissions, and packaging waste.

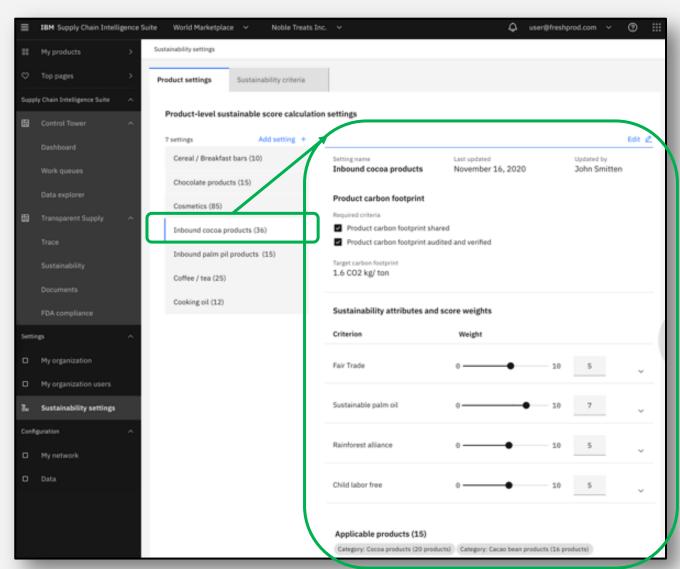


Responsible Sourcing Scoring

Monitoring Product & Supplier Sustainability Performance

What's next

- Ensure that the ingredients sourced are sustainable and certified according to industry/commodity-specific sustainability standards.
- Define responsible sourcing requirements for a Specific Product or Commodity Group
- Weight sustainability scores according to organizational priorities such as....
 - Product Carbon Footprint data
 - Fair-trade
 - RSPO certified
 - Rainforest alliance certified
 - Child-labor free



Key takeaways

Carbon emission in the distribution process

Importance of sourcing and carbon neutrality

