

Responsible supply chain networks - Shiatsu 指圧



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Rafi Tomashof - Programa

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ESG 19112021
www.programa-consulting.com
Israel • Turkey • Italy • USA
+972-9-7444366

Supply chain management impacts sustainability



Product Recycling Rate



Energy Consumption



Waste Reduction Rate



Carbon Footprint



Water Footprint



Supplier Environmental Sustainability Index



Sustainability

Conservation



Supply Chain Miles



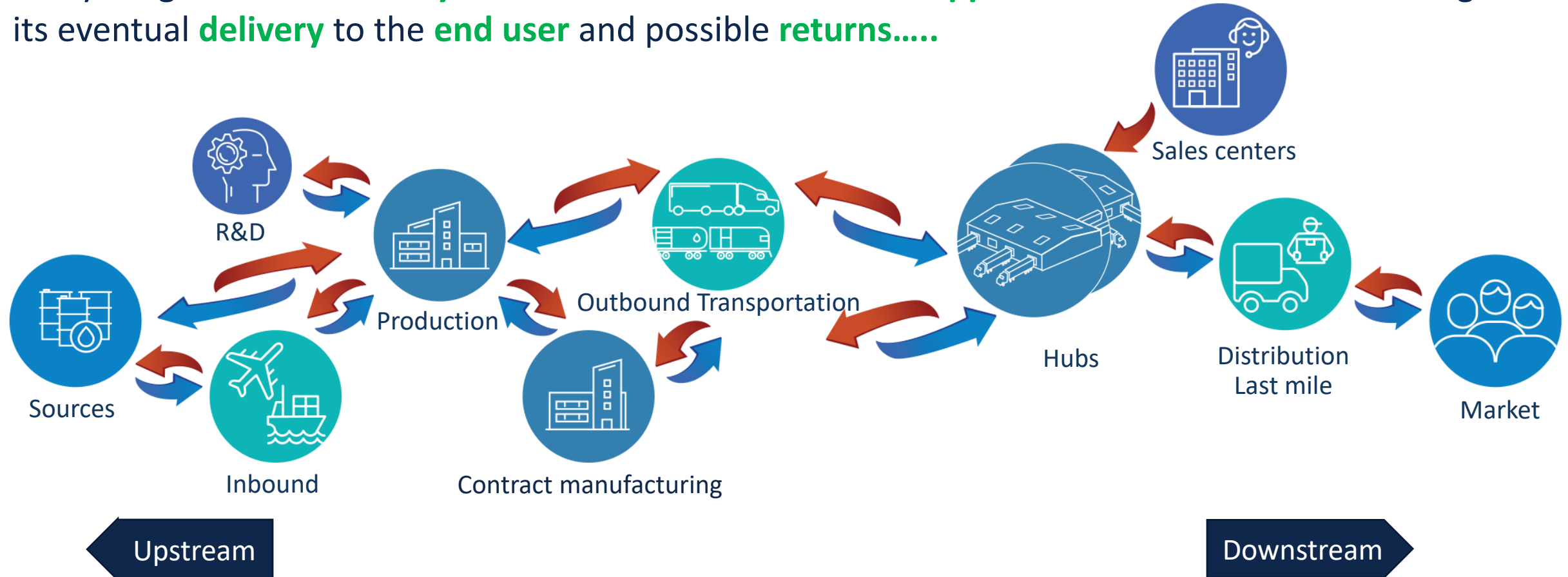
Waste Recycling Rate



Supply chains account for most of direct & indirect GHG



A supply chain is the **network** of all the individuals, **organizations, resources, activities** and **technology** involved in the **creation** and **commercializing** of a **product**. A supply chain encompasses everything from the **delivery** of **source materials** from the **supplier** to the **manufacturer** through to its eventual **delivery** to the **end user** and possible **returns**.....



Typical supply chain challenges



Network footprint



Operational excellence



Energy



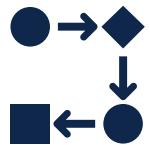
Delivery schemes & routing



Source & procure



Waste, recycle, returns



Process design



Freight & transport



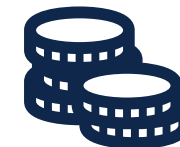
Competitiveness



Demand vs Supply

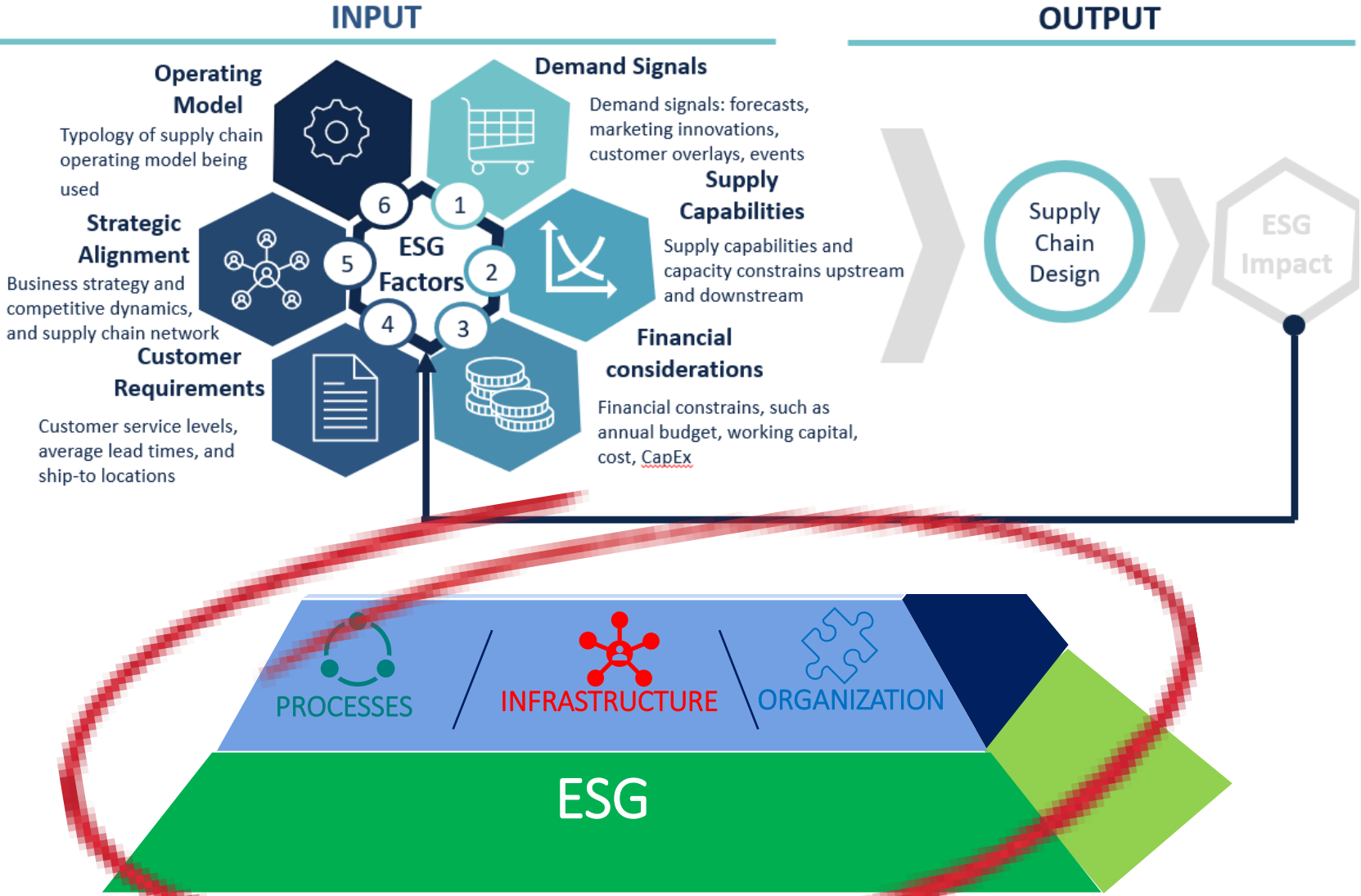


Storage & warehousing



Cost

Supply chain practice supports business strategy & ESG...

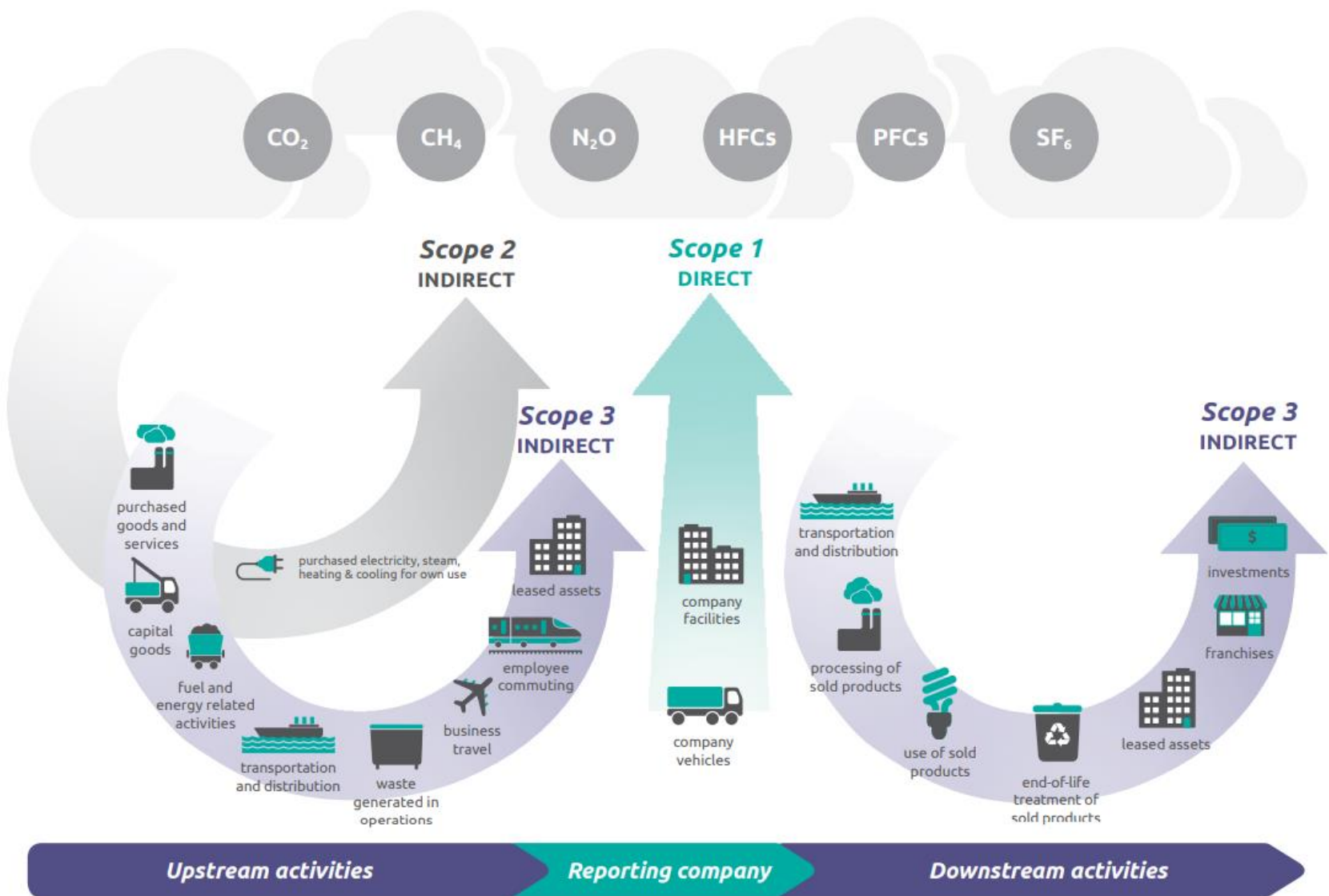


Carving SCOPE out of ESG



Environmental 	Supply chain 	Social 	Supply chain 	Governance 	Supply chain 
Natural resources use	✓	Working conditions (including slavery and child labor)	✓	Executive pay	✗
GHG Emissions	✓	Local communities (including indigenous communities)	✓	Bribery and corruptions	✓
Resource depletion, including water	✓	Conflict regions	✗	Political lobbying and donations	✗
Waste and pollution	✓	Health and safety EHS	✓	Board diversity and structure	✗
Reduction of energy	✓	Employee relations and diversity	✓	Tax strategy	✓

SCOPE addresses carbon emissions



Scope 1
Direct emissions generated from operations of reporting company

Scope 2
Indirect emissions from energy requirements,

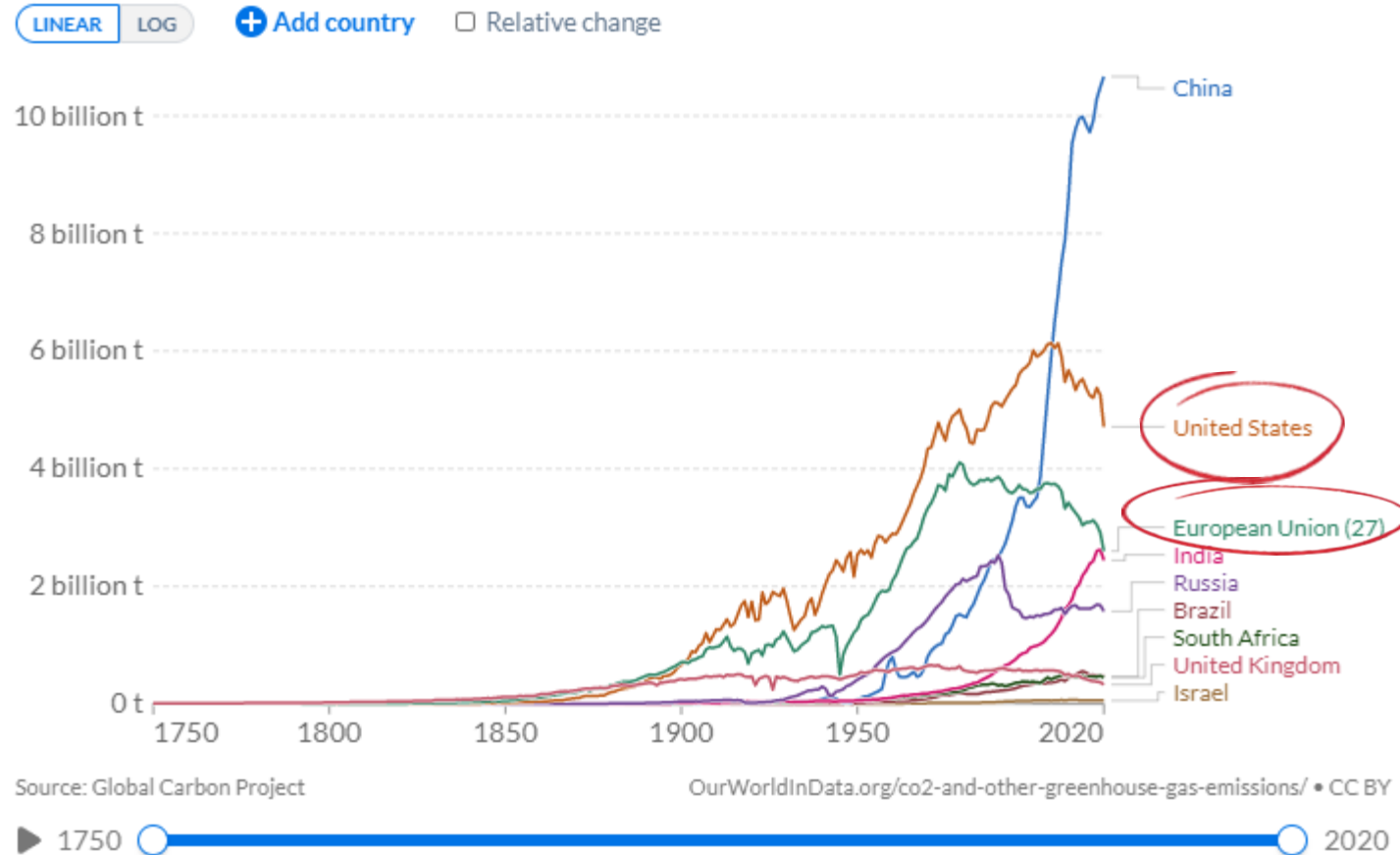
Scope 3
All other indirect emissions in the company's PLM – value chain

NA has taken a bold step in applying sustainability



Annual CO₂ emissions

Carbon dioxide (CO₂) emissions from fossil fuels and industry. Land use change is not included.



The inflation reduction act of 2022 will reduce carbon emissions by roughly 40% by 2030

החקיקה האמריקאית בסוגיית גזי חממה וטכנולוגיות ירוקות: השפעה על המאבק בשינויי האקלים, שרשראות אספקה וצדק אקלימי

המכון למחקר ביטחון לאומי, INSS, 2 Oct. 2022

במטרה להפחית את פליטות גזי החממה בעתיד, חברות הובלה ימית פונות לטכנולוגיה עתיקה - רוח

Themarker, Nov 16, 2022

NOVEMBER 10, 2022
FACT SHEET: Biden-Harris Administration Proposes Plan to Protect Federal Supply Chain from Climate-Related Risks

Whitehouse, Nov 10, 2022

"ההצטיידות הייתה נדרשת. אנחנו מכינים את האוניות למה שנדרש על-ידי התעשייה, כד העולם עוסק בהורדת פליטות וזה רק זמן עד שחברות שהאוניות שלהן לא יעמדו בקריטריונים יצטרכו לצאת מהשוק.

Globes, Nov 16, 2022

GHG emissions: supply chain related- example



The carbon footprint of our value chain



The Coca-Cola Company has the ambition to source its key agricultural ingredients sustainably (SAGP*) : natural sweeteners, fruit juices, coffee, tea, soybeans and wood-based fiber packaging

Cut the distances that our ingredients and raw materials need to travel to reach our factories by working with our suppliers

Coca-Cola aims to make 100% of its packaging recyclable globally by 2025 and to use at least 50% recycled material in packaging by 2030

Scope 3



...waste is broken down in the digester (emissions are lower than if the organic waste had been sent to a landfill)



Encourage key suppliers to disclose to CDP's supply chain Climate Change questionnaire (442 Suppliers in 2021 VS 149 in 2020)

Scope 3

Scope 2



50% (4 form 8) of manufacturing plants in Nigeria are powered in part by solar energy which deliver up to 3,640 KWp ~ equivalent to (167,000) number of trees saved



Packaging – Plant based bottle, Alu Bottle and more

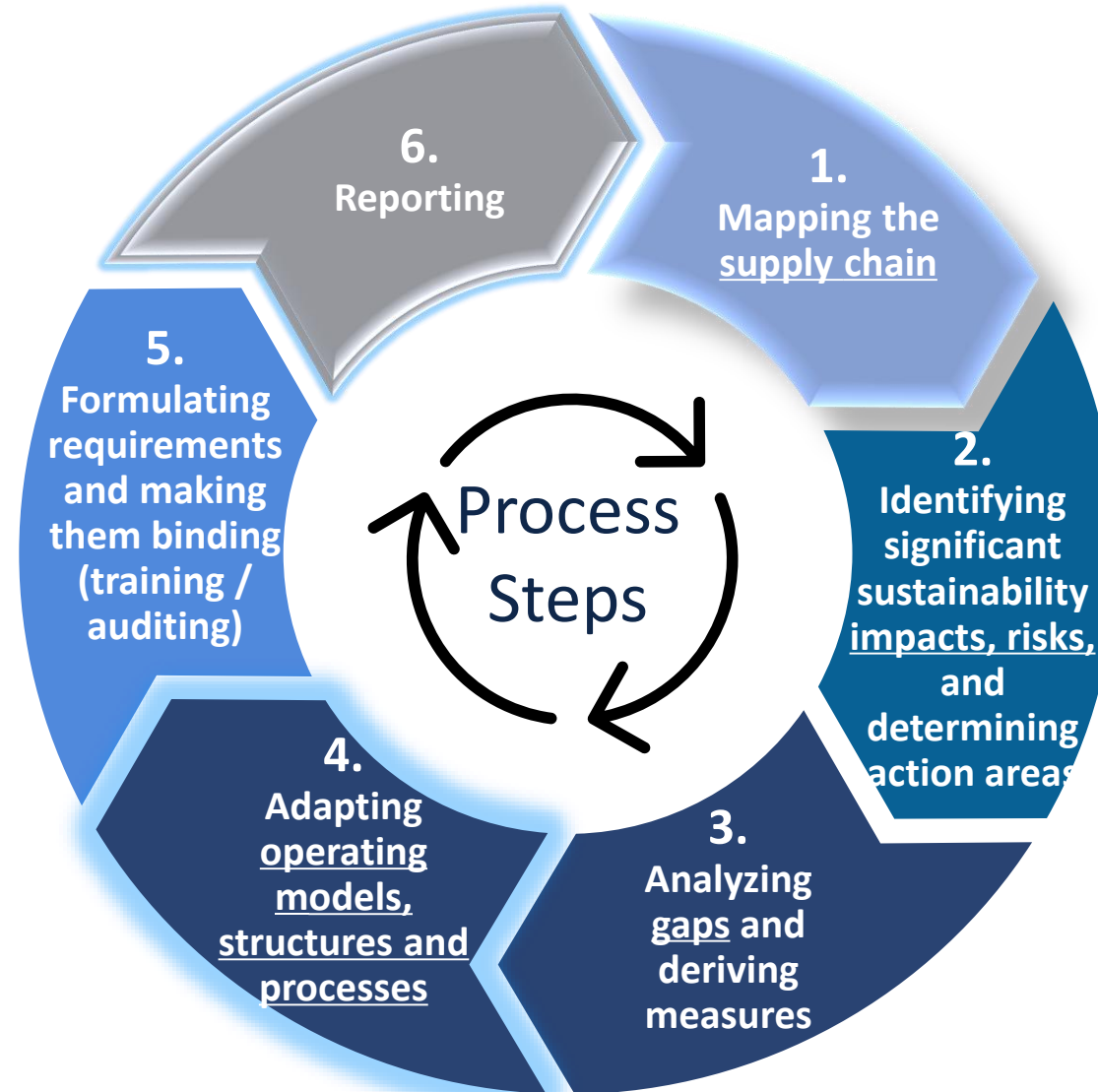
Water usage- Coca-Cola was able to reduce water consumption by 64%

Coca-Cola introduced a label-less bottle in Japan



* SAGP: Sustainable Agriculture Guiding Principles (SAGP)

SCOPE application process in supply chain

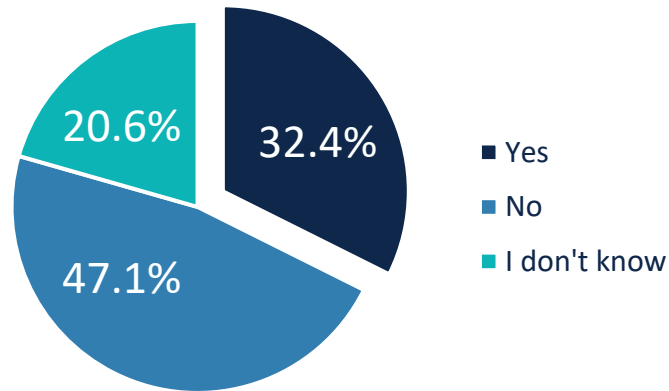


Programa is an international management consulting company specializing in supply chain, operations, logistics, analytics & modelling and MHE & automation

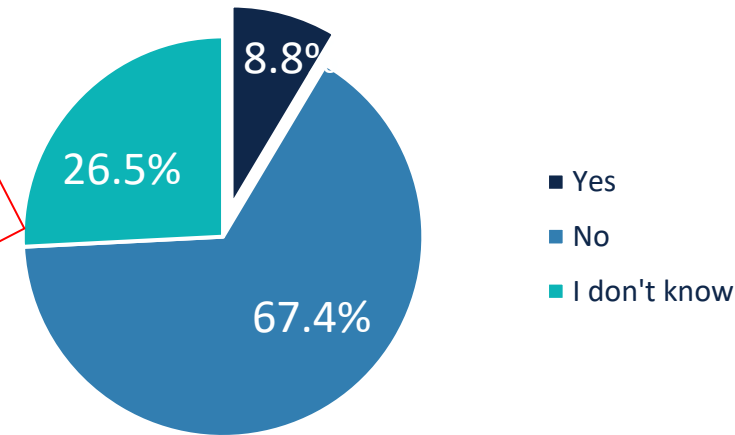
Survey - responsible supply chain – SCOPE Nov.2022



Does your organization collect greenhouse gas emissions data (Scope 1) on an annual basis?

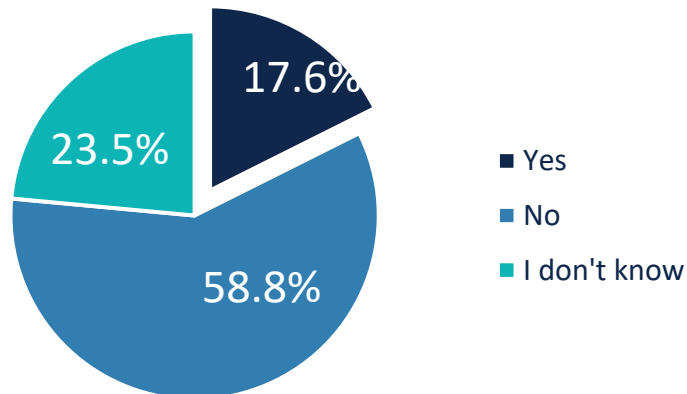


Does your organization collect data on greenhouse gas emissions generated in the supply chain processes (Scope 3) on an annual basis?

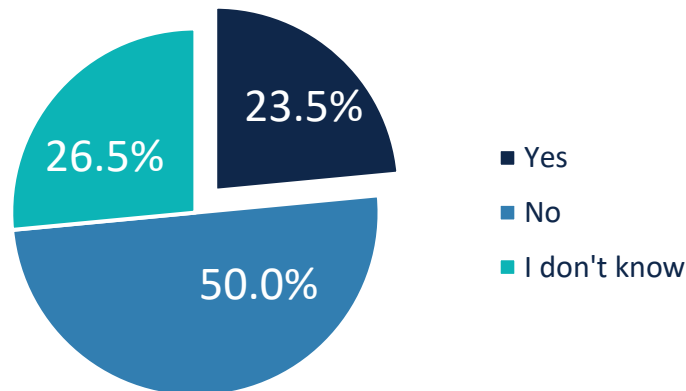


Specially prepared for ESG SCOPE3

Does your organization collect data on greenhouse gas emissions generated from energy procurement (Scope 2) on an annual basis?



Does your organization have goals for reducing direct and indirect greenhouse gas emissions?



Supply chain Shiatsu
– first its painful*,
but then it helps
sustain the body....

THANK YOU!

**...this has been driven by increasing pressure from
regulators, investors and FI markets, and consumers*

