## The Project Analyzing Carbon Emission

When factoring heat generation required for the manufacturing and transportation of products, *Greenhouse gas emissions attributable to products, from food to sneakers to appliances, make up more than 75% of global emissions.* -The Carbon Catalogue (https://www.nature.com/articles/s41597-022-01178-9)

Our data, which is publicly available on <a href="nature.com">nature.com</a>
<a href="mailto:nature.com/articles/s41597-022-01178-9">(https://www.nature.com/articles/s41597-022-01178-9</a>), contains product carbon footprints (PCFs) for various companies. PCFs are the greenhouse gas emissions attributable to a given product, measured in CO<sub>2</sub> (carbon dioxide equivalent).

This data is stored in a PostgreSQL database containing one table, prouduct\_emissions, which looks at PCFs by product as well as the stage of production that these emissions occurred. Here's a snapshot of what product\_emissions contains in each column:

## product\_emissions

field	data type
id	VARCHAR
year	INT
product_name	VARCHAR
company	VARCHAR
country	VARCHAR
industry_group	VARCHAR
weight_kg	NUMERIC
carbon_footprint_pcf	NUMERIC
upstream_percent_total_pcf	VARCHAR
operations_percent_total_pcf	VARCHAR
downstream_percent_total_pcf	VARCHAR

You'll use this data to examine the carbon footprint of each industry in the dataset!

## The objective of this project is to find which industry group emits the largest amount of carbon (appears in the data table as carbon\_footprint\_pcf)

So, the insight we can gather from the above is: In 2017, the Materials and Capital Goods industry group emitted the highest amount of carbon as compared to other industry group. Software and services emits the lowest amount of carbon.

--Finding the recent year for the query

SELECT MAX(Year) FROM public.product\_emissions