



## Small business sustainability

Brought to you by Mastercard Digital Doors® and Strive USA

in partnership with





What is carbon footprint?







A fun and interactive workshop for individuals and small businesses offered in partnership with Digital Doors









## How familiar are you with carbon footprint?













#### Agenda



- 1) Carbon footprint & me (~35 mins)
- 2) Carbon footprint & my business (~20 mins)
- 3) Q&A





#### Housekeeping



- Zero o judgement!
- Use chat the session is interactive! •••





#### Michelle Li

Toronto→ San Francisco→ London → New York







#### **DocuSign**

Program Manager | Software Implementation | Sales Engineer



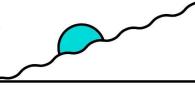


Raise carbon footprint literacy in a hip and fun way











#### Carbon Footprint: Coffee Edition



Filter/Drip: 50g CO2

Capuccino: 230g/105g <sup>CO2</sup>

Dairy milk / Plant-based milk

Latte: 350g/140g <sup>CO2</sup>

Dairy milk / Plant-based milk

Paper cup: 8g CO2

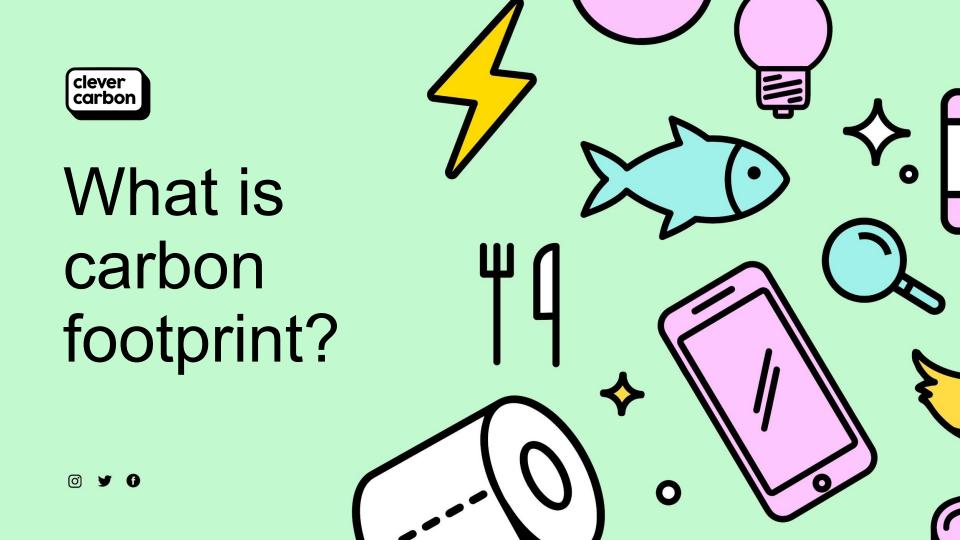
Lid: 4g CO2

Sleeve: 4g CO2



@ @clever.carbon

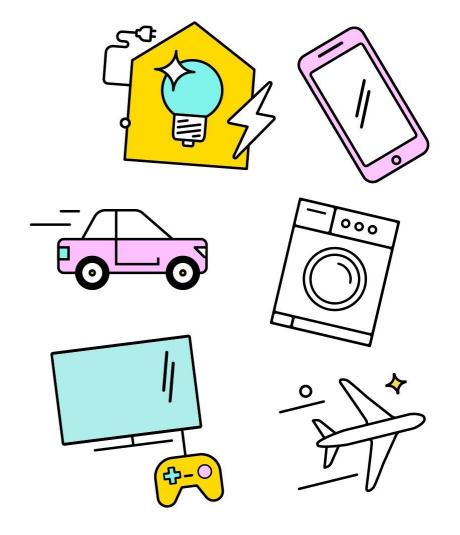
Nota: carbon footprint data represents general averages





Our everyday activities require energy.

Ex. fuel for cars, electricity for cell phones

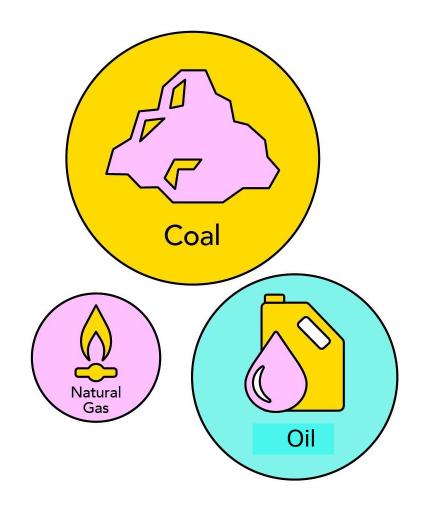




#### Fossil fuels

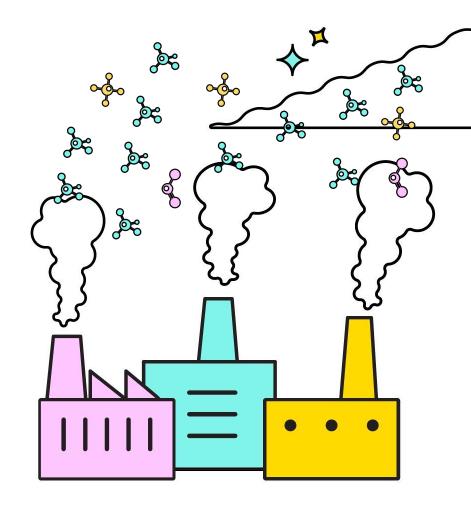
The majority of the energy comes from burning fossil fuels.

Fossil fuels naturally exist on earth. They are made from decomposing plants and animals and exist in a number of different forms.





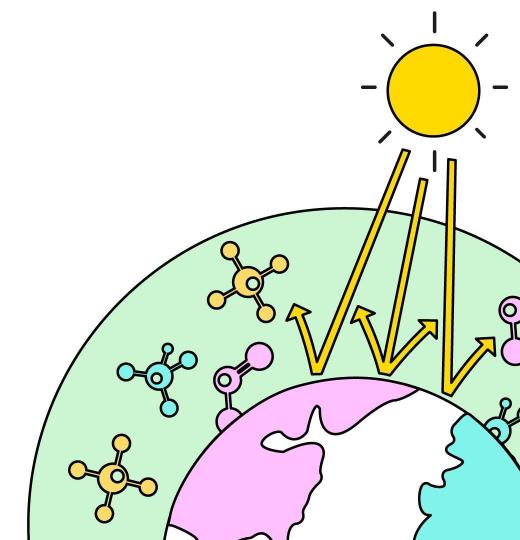
When fossil fuels are burned, greenhouse gasses are produced and released into the atmosphere.





In the atmosphere, greenhouse gasses trap heat and lead to global warming and climate change.

The more greenhouse gasses, the warmer our planet.



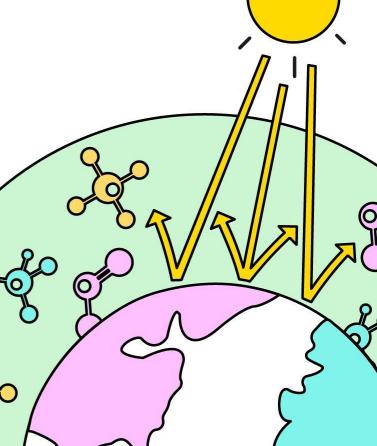
Atmosphere



#### crochet blanket



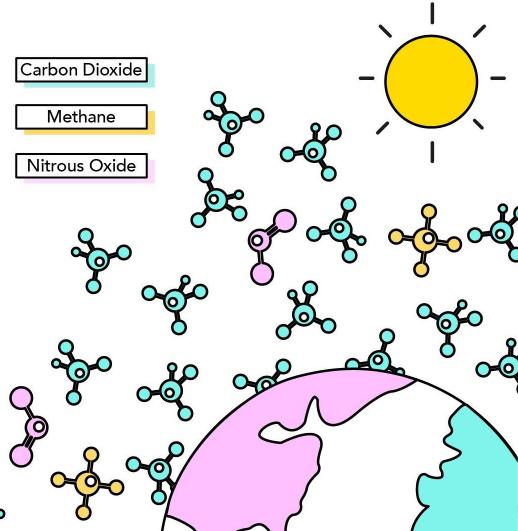






Carbon dioxide is the most common greenhouse gas produced

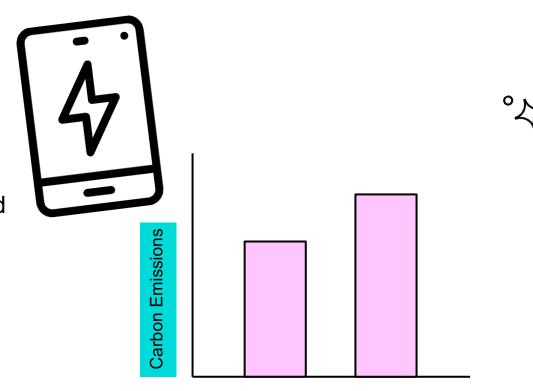
Other common greenhouse gases include **methane** (25x more potent) and **nitrous oxide** (298x more potent).





Carbon footprint is the measure of the amount of carbon dioxide released into the atmosphere for a certain activity.





10 mins

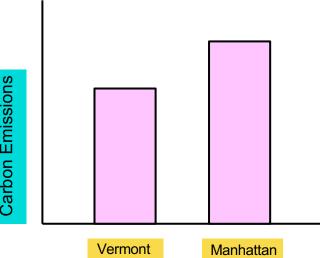
15 mins







#### 10 min charge











**Commute** and Travel



Food and Consumption



Home and Energy





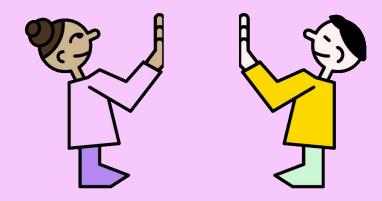
# Game time!







#### Are you ready?





Take 10 seconds to remember as much as you can!





1 potato 40 g CO2



Pork 1,800 g CO2



**Beef** 7,700 g CO2



1 coffee 50 g CO2



1 plastic water bottle 83 g CO2



1 roll 2 ply 1,300 g CO2



Standard Light Bulb (100W, 4hrs) 172 g CO2

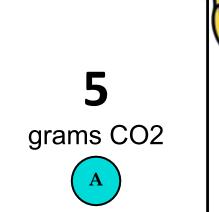


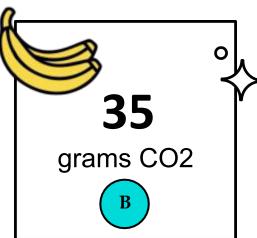
Hot Shower (10 min) 2,000 g CO2

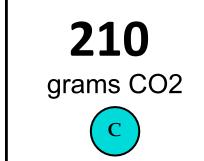
What's the average carbon footprint of an apple?

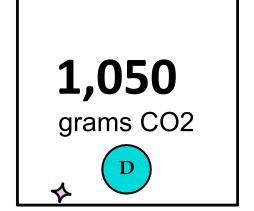


Type your answer in the chat!

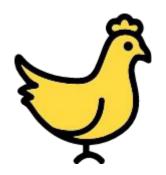




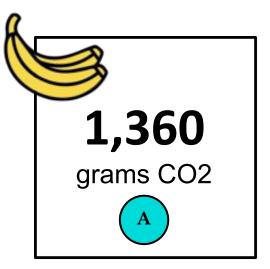


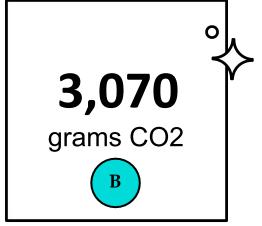


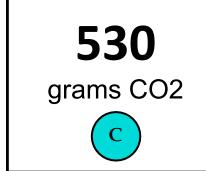
What's the average carbon footprint of a serving of chicken?

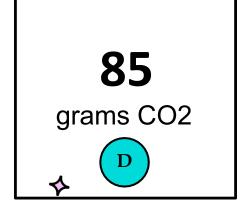


Type your answer in the chat!





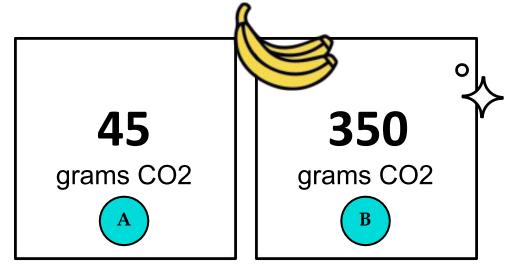


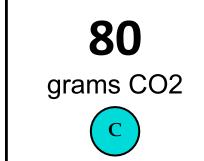


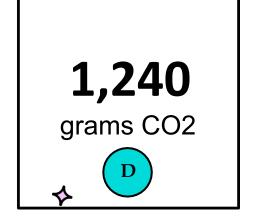
What's the average carbon footprint of a **dairy** latte?



Type your answer in the chat!







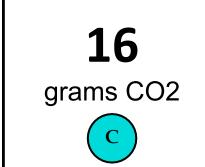
What's the average carbon footprint of an email?

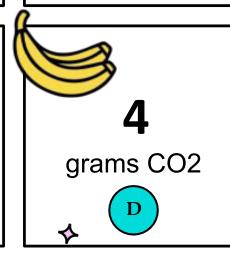


Type your answer in the chat!

**320** grams CO2

60 grams CO2







Average annual carbon footprint of an individual in Canada



14.1 tonnes of CO2 annually



Source: Global Carbon Atlas, 2019

What is the average annual footprint of someone living in...

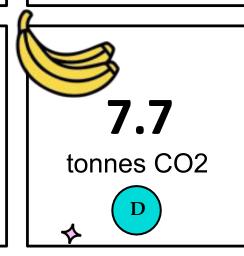


**United Kingdom**Type your answer in the chat!

16.3 tonnes CO2

3.4 tonnes CO2

**26.4** tonnes CO2



Source: Global Carbon Atlas

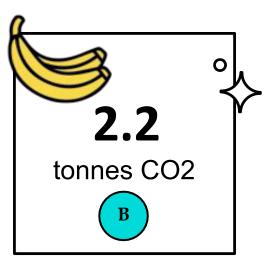
What is the average annual footprint of someone living in...



**Vietnam** 

Type your answer in the chat!

0.8 tonnes CO2

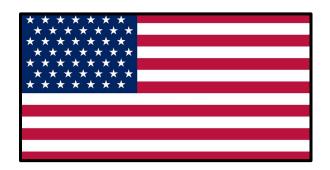


9.3 tonnes CO2

**16.6** tonnes CO2 ❖

Source: Global Carbon Atlas

What is the average annual footprint of someone living in...



**United States** 

Type your answer in the chat!

2.8 tonnes CO2

A

B

9.1 17.0 tonnes CO2 c

Source: Global Carbon Atlas



Current Global Average 2030 Goal

6.3

tonnes CO2

2.1

tonnes CO2







## Why are average footprints so different between countries?

Policies & Incentives

Access to clean/renewable energy

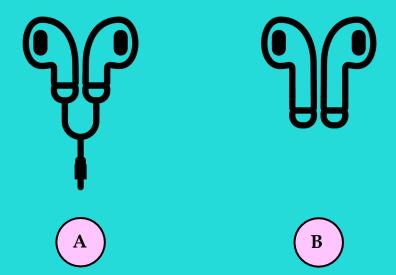
Public transportation infrastructure

Dietary Preferences Average household income

Size of home



## Which has a higher carbon footprint? (and why?)





## Which has a higher carbon footprint? (and why?)









glass jar





#### Which has a higher carbon footprint?

(Pretend you live in New York)



Made in New York





Made in California





### Which has a higher carbon footprint?



Radio





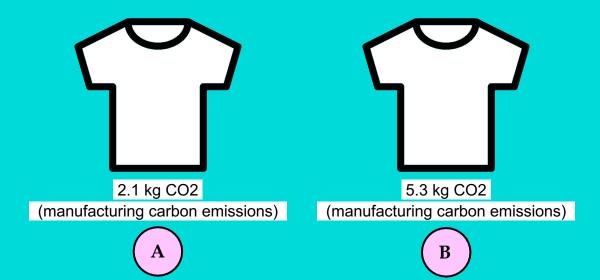
Streaming





#### Which is better for the environment?

(and why?)





## There's more to environmental impact than carbon footprint







Water Footprint



Waste Footprint



# Factors that impact carbon emissions

Manufacturing emissions

Shipping/cargo

Energy usage

Item longevity & durability

Weight

New vs used





1 apple 35g CO2



Beef 7,700g / 7.7kg CO2 1 serving, 75g



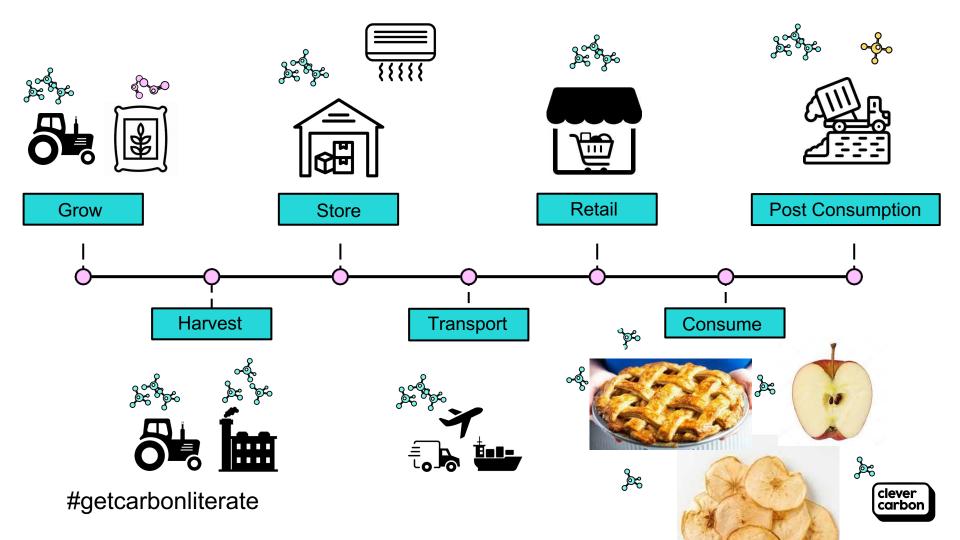
Pork 1,800 / 1.8kg CO2 1 serving, 75g



Chicken 1,360g / 1.36kg CO2 1 serving, 75g



Rice 330g CO2 1 serving, 3 tbsp





# Life Cycle Analysis (LCA)





# What are ways we can reduce the carbon emissions of an apple?

Organic

Reduce waste

In season

Local/Farmers Market

Compost





# Have conversations about sustainability come up with customers?





1









## Where do carbon emissions from small businesses come from?

Energy consumption of storefront

Products and services sold

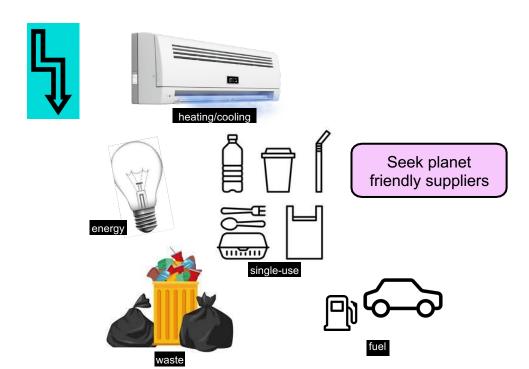
Fuel for business vehicles and delivery

Staff and employees

Waste generation



# What are ways we reduce the carbon footprint of small business?





Encourage **customers** to bring own bag, cup, etc





compost



# There are benefits to reducing carbon footprint?



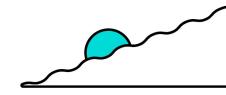


Reduce costs

Be kinder to the planet

Grow customer acquisition and loyalty

Positive community impact











## But do my customers care?

**☆** 

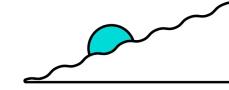
4

in 3 consumers surveyed prefer eco-friendly options

 $68\,\%$  of millennials surveyed purchased a product with environmental benefit in the last 12 months

63% of Americans surveyed hope businesses will take the lead to

drive environmental change













Consumers increasingly care about sustainability and are open to planet friendly options and practices.











## 1. Track and quantify

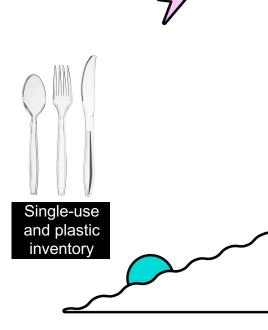


















### 2. Talk to suppliers



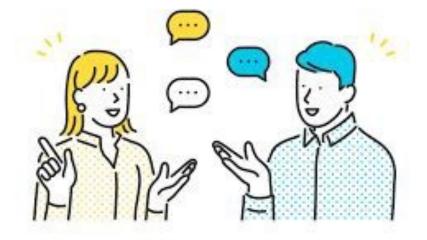
How are you helping other shops be more sustainable?

How can you help reduce packaging, waste, shipping and transport?

My customers are increasingly interested in sustainable options.









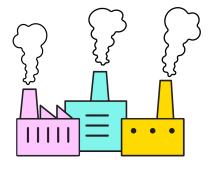






## 3. Where can you start reducing?





Carbon Footprint

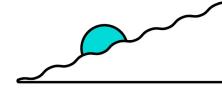


Water Footprint





Waste Footprint



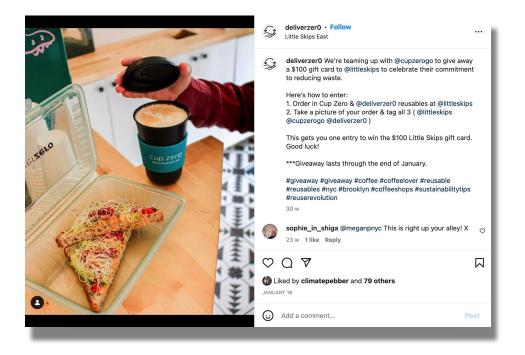






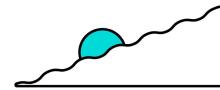
## 4. Engage and share with customers!











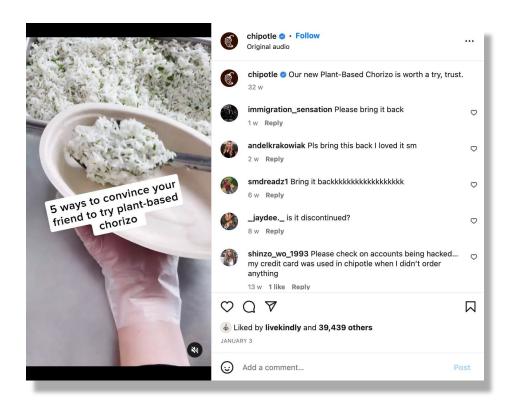






## 4. Engage and share with customers!

















#### 4. Engage and share with customers!



