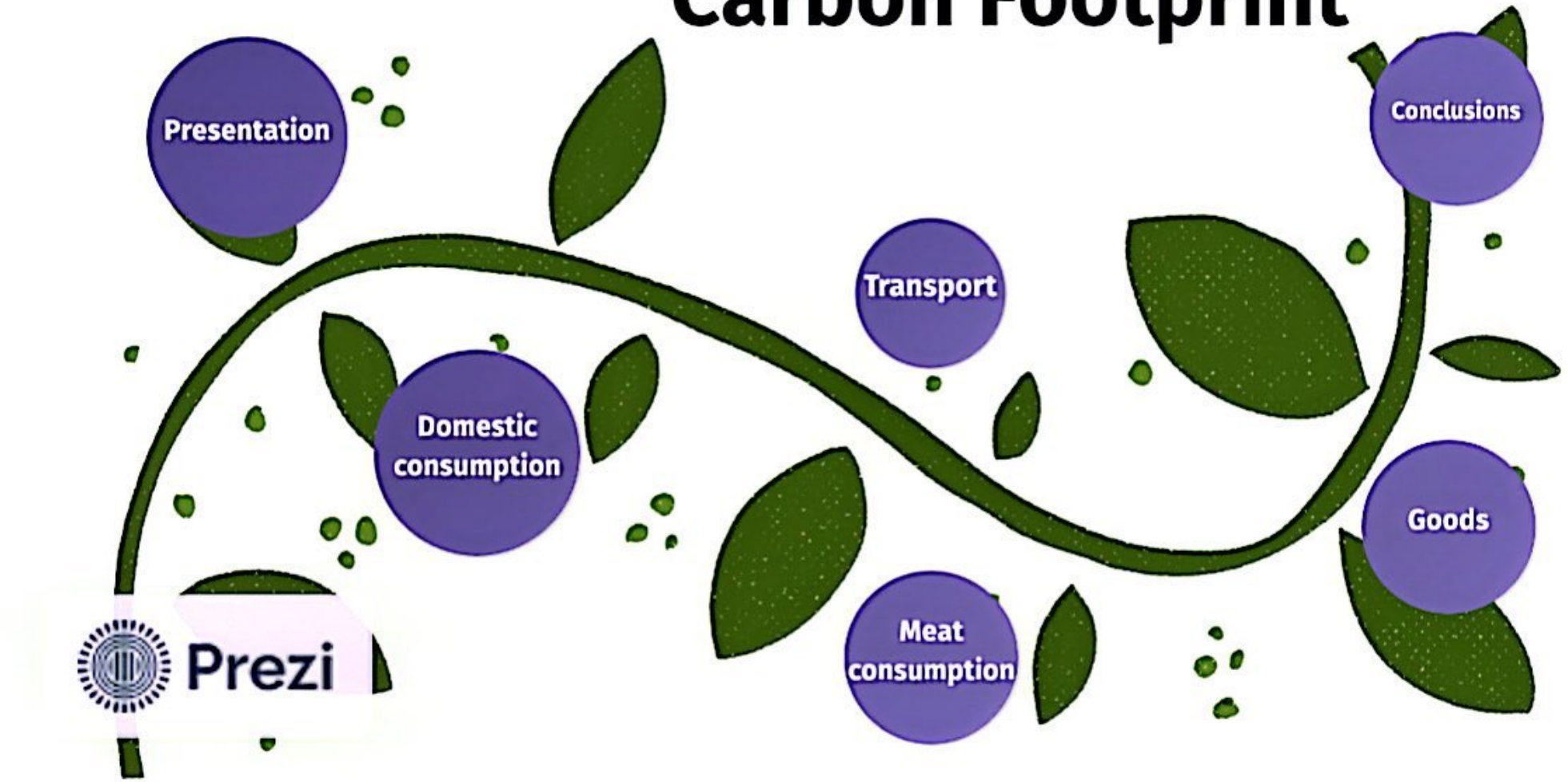
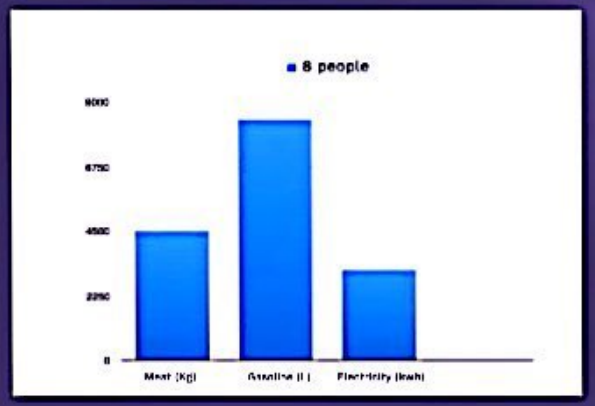
Co-funded by the
Erasmus+ Programme
of the European Union

Carbon Footprint



CO2 emissions

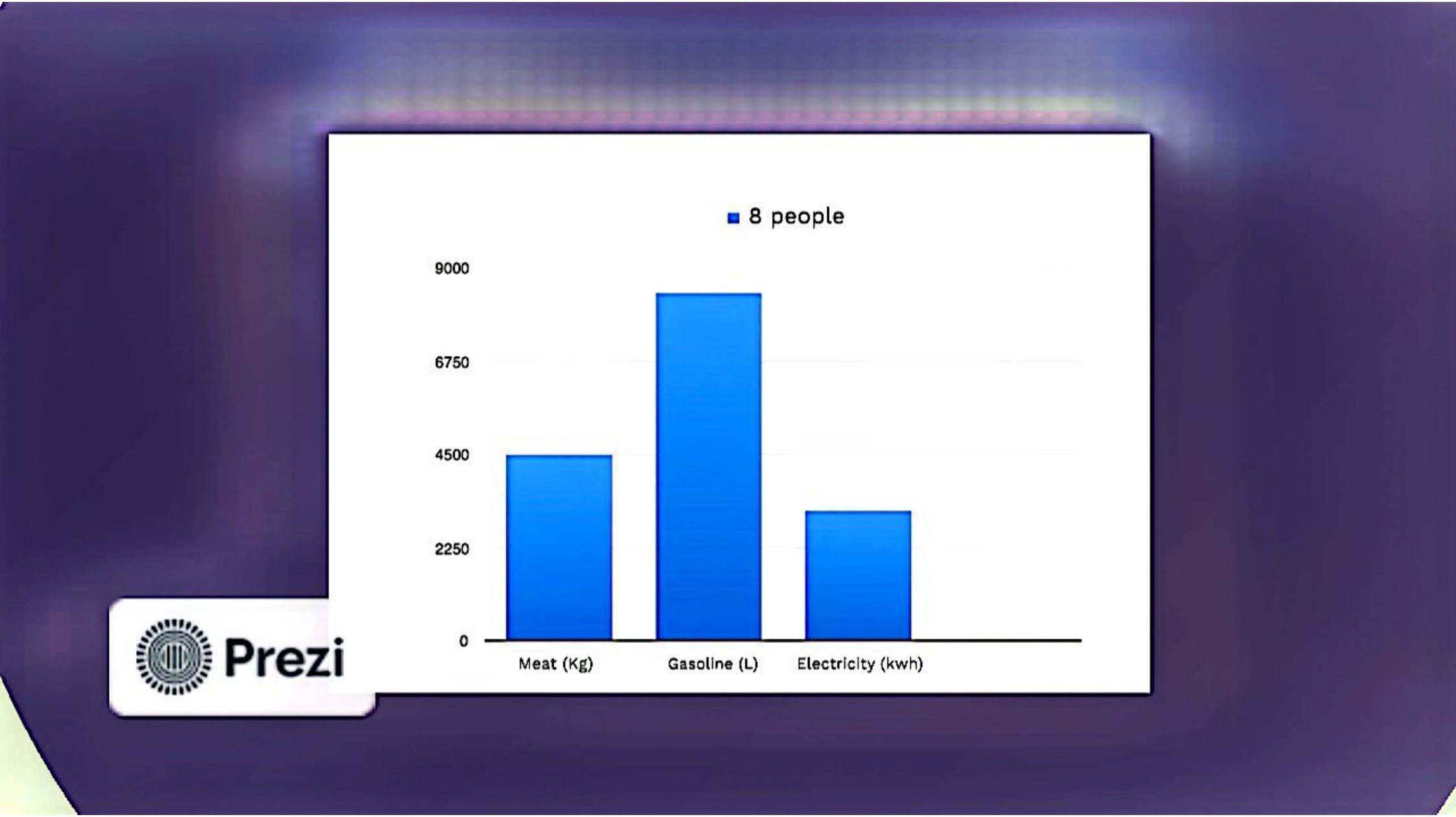
A group of 8 people emits per year:



Comparison to a train

Comparison to an aircraft

Prezi

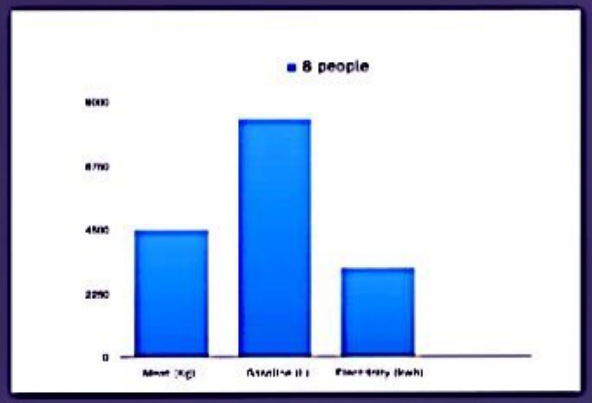


Comparison to a train

A train emits 1.48 tons of CO_2 per year

CO2 emissions

A group of 8 people emits per year:



Comparison to a train

Comparison to an aircraft

Prezi

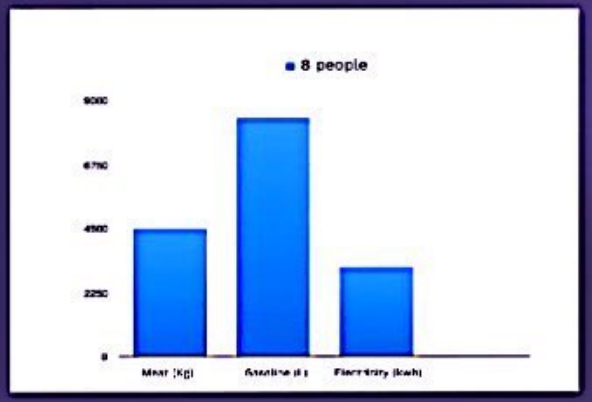
Comparison to an aircraft

An aircraft emits 900 million tons of CO_2 per year

Prezi

CO2 emissions

A group of 8 people emits per year:

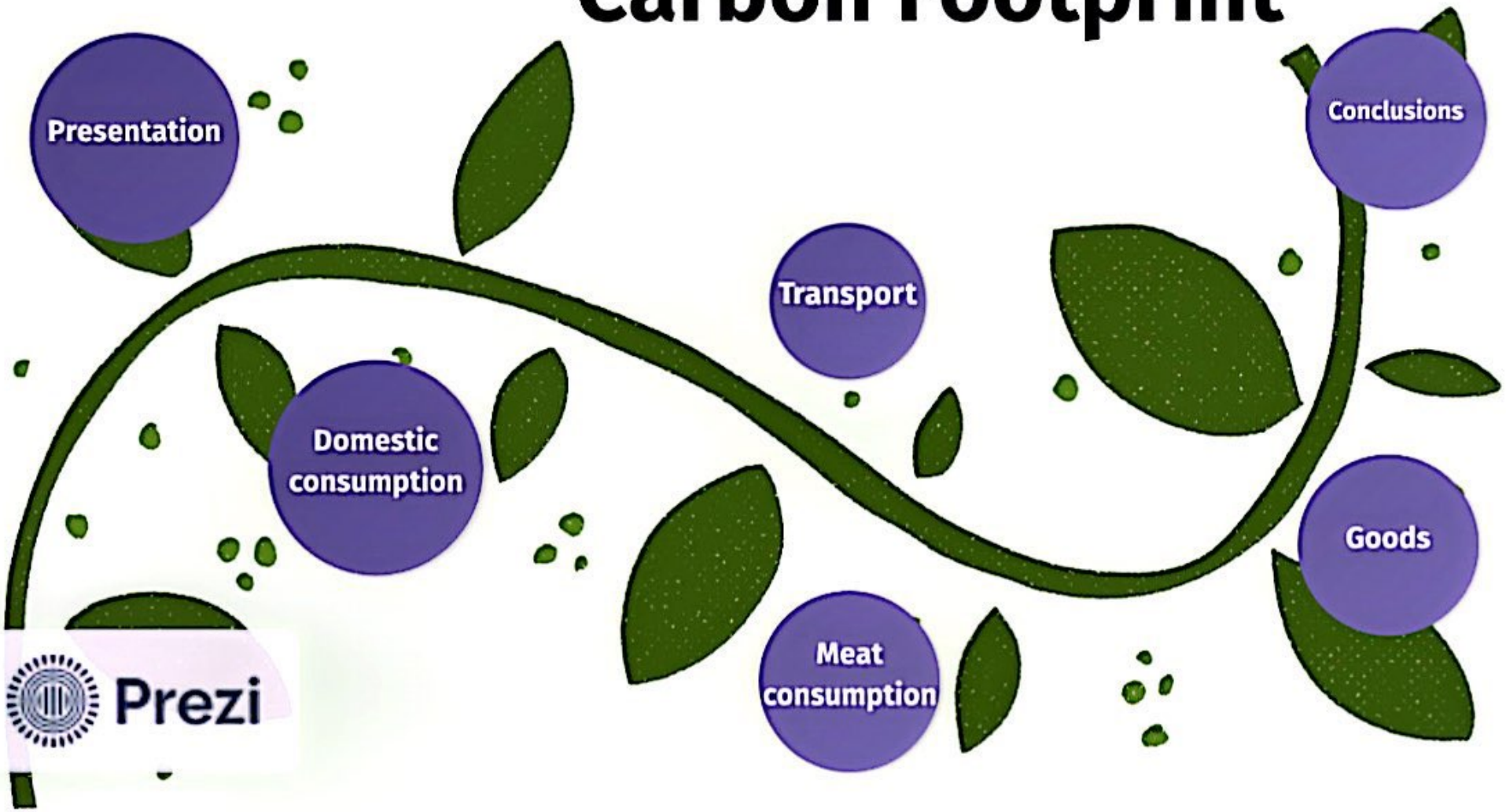


Comparison to a train

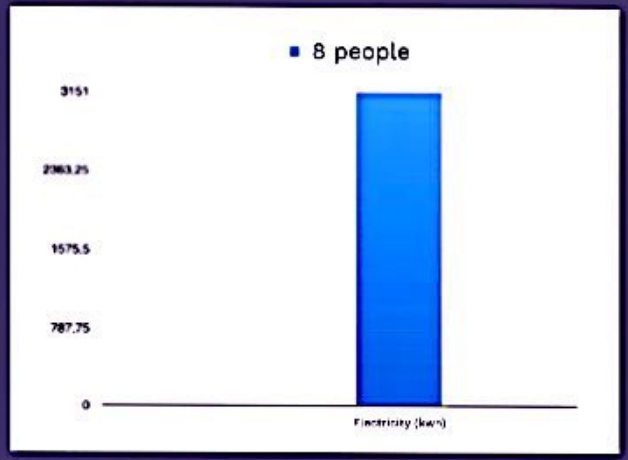
Comparison to an aircraft

Prezi

Carbon Footprint



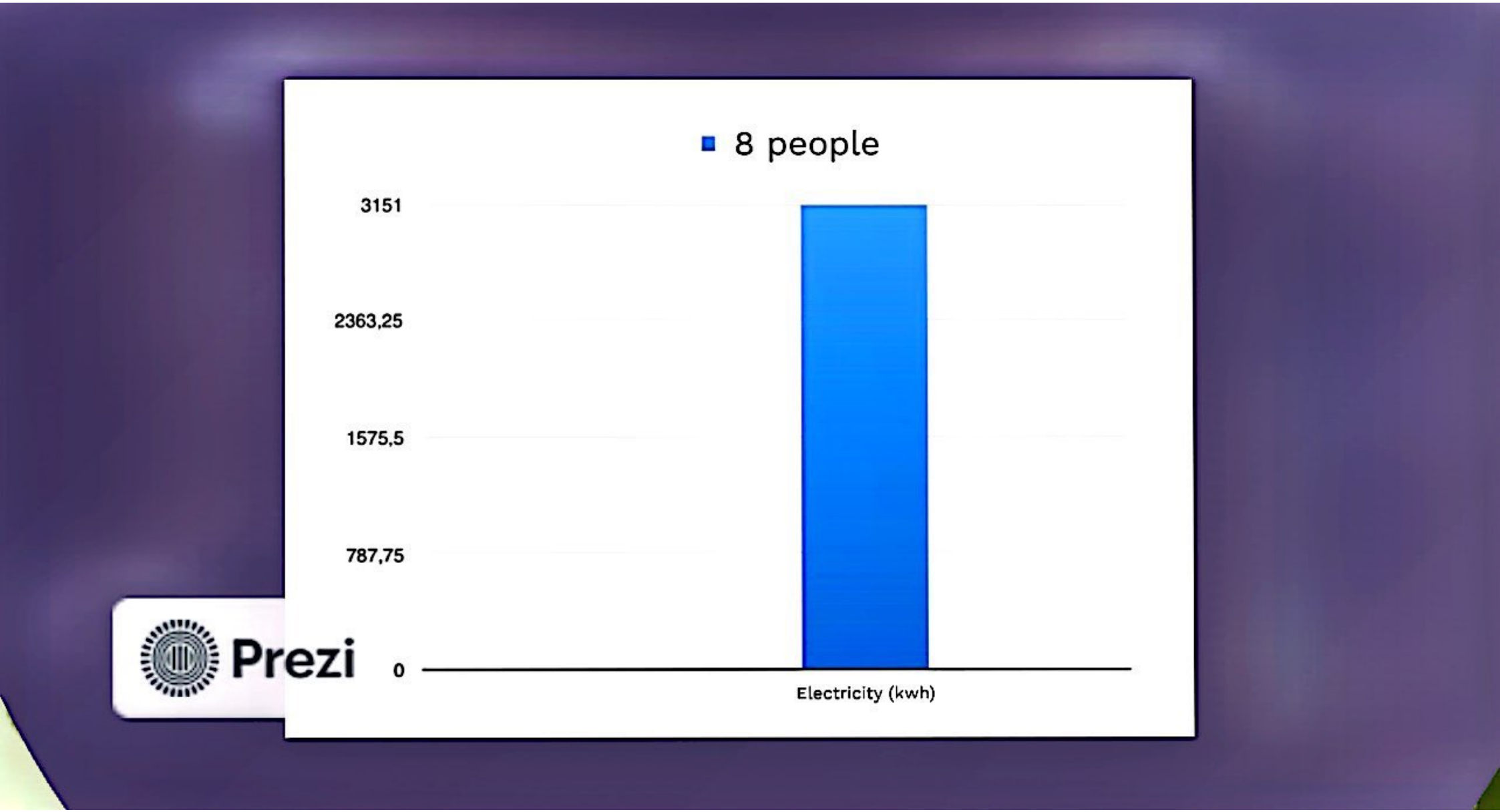
Domestic consumption



Home appliances

How to reduce consumption

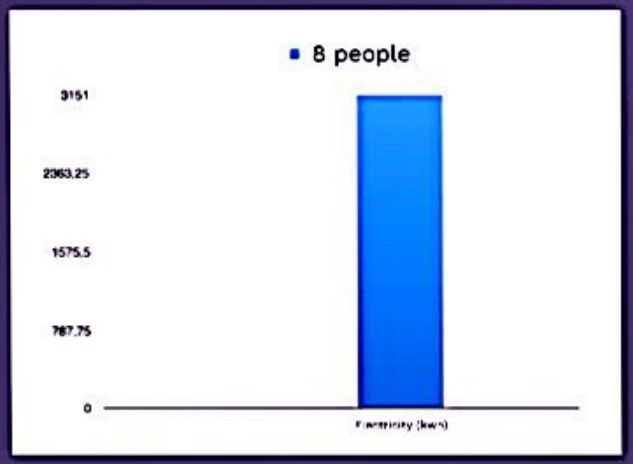
Prezi



Home appliance

Electrical Appliances and Electronic Device	Watts	CO_2 Emissions Per Hour (gr)[1]
Refrigerator	200-700	94-328
Freezer	300-700	140-328
Electric Stove	Varies by cooking heat and burner size	
Dishwasher	700-3000	455-1950
Microwave	700-2100	455-1365
Light Bulb (60 watt)	60	39
Energy-saving lightbulb (60 watt equivalent)	11	7
HVAC System	Varies by thermostat setting and climate	
Television	80-300	52-195
Washing Machine	500-3000	325-1950
Clothes Dryer	500-5700	325-3705
Hot Water Heater	Varies by temperature setting	
Hair Blow Dryer	800-2000	520-1300
Fan	Varies by blade size and speed setting	
Laptop or Desktop Computer	80-360	52-234
Stereo	55-500	36-325
Cell Phone	Varies by model	
Electric Radiant Heater	500-3000	325-1950
Window Air Conditioner	800-5000	520-3250

Domestic consumption



Home appliances

How to reduce consumption

Prezi

How to reduce it?

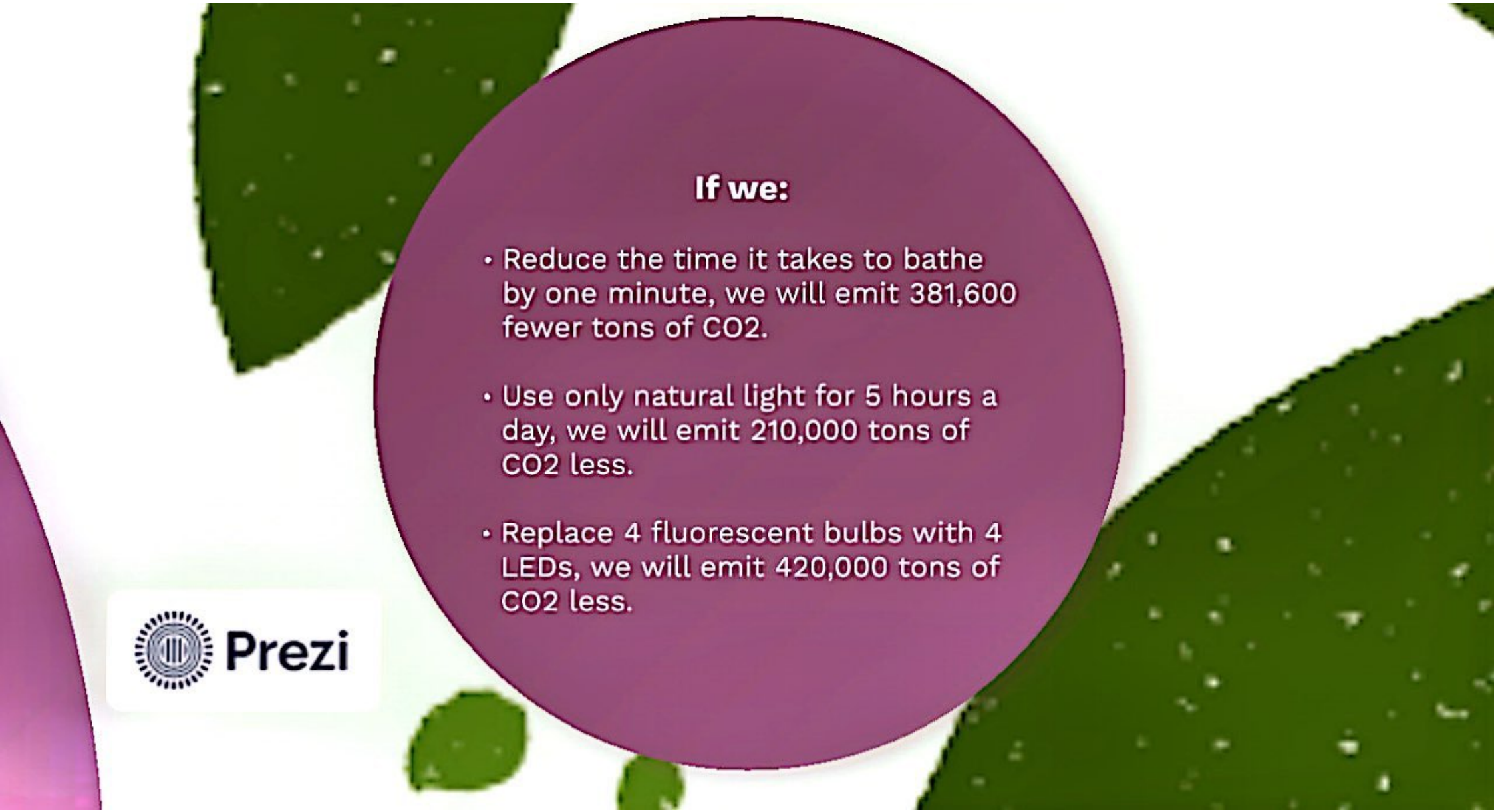
Use LED light bulbs

Reduce the amount of water you use (especially hot water)

Use electronic devices with A+ seals, of high energy efficiency

Turn off appliances when not in use to avoid phantom consumption

Prezi



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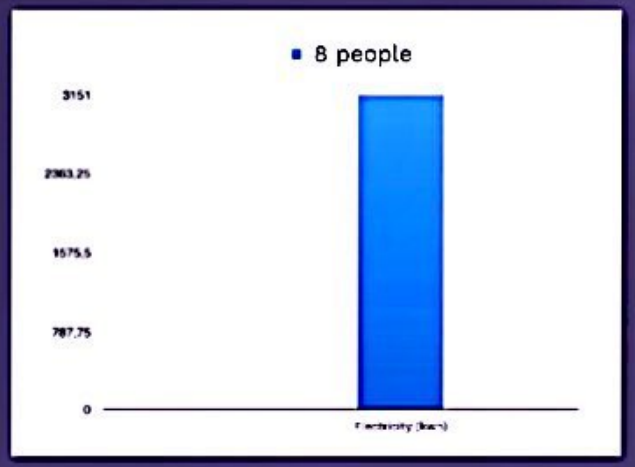
Domestic consumption

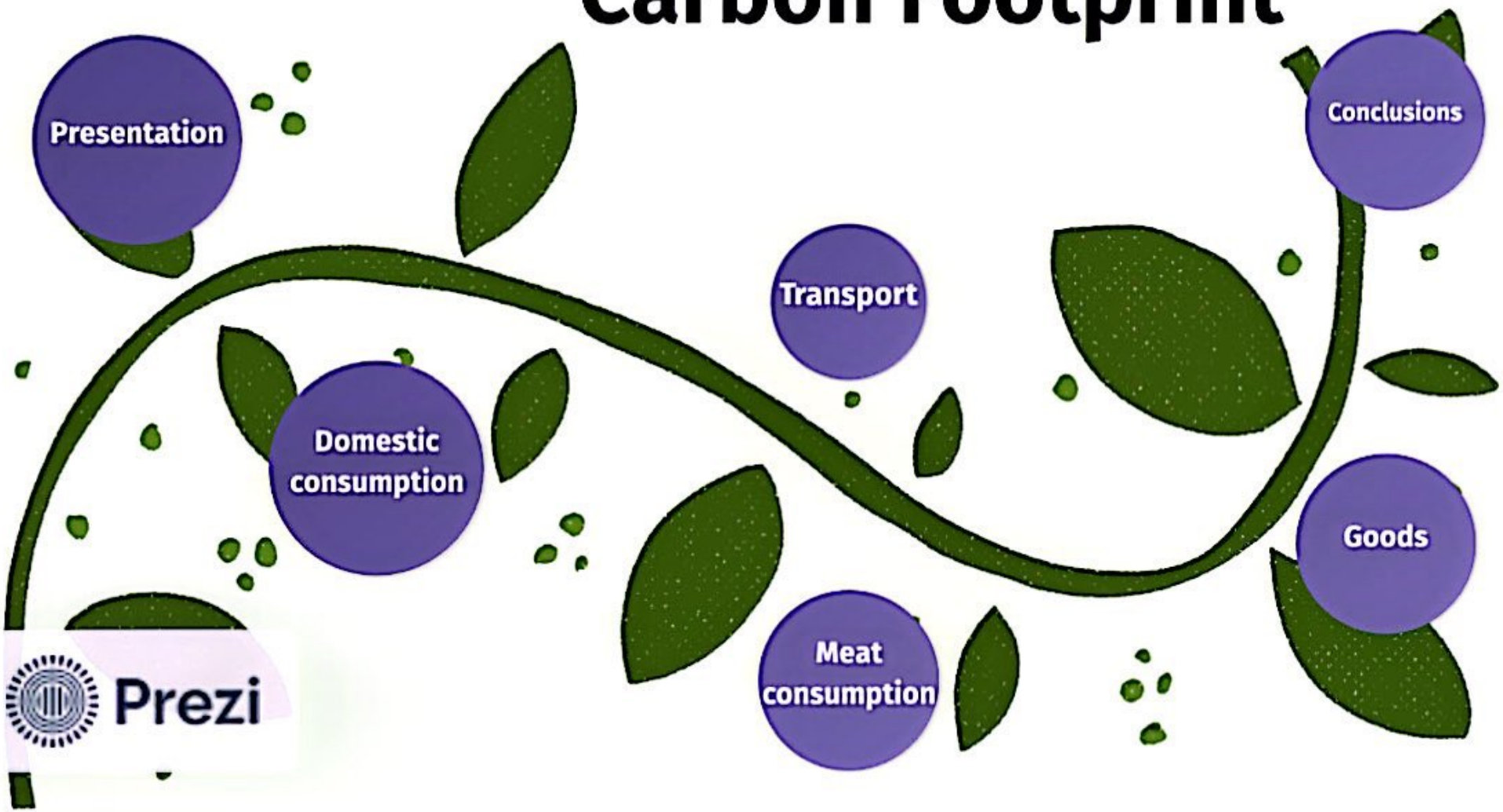


Home appliances

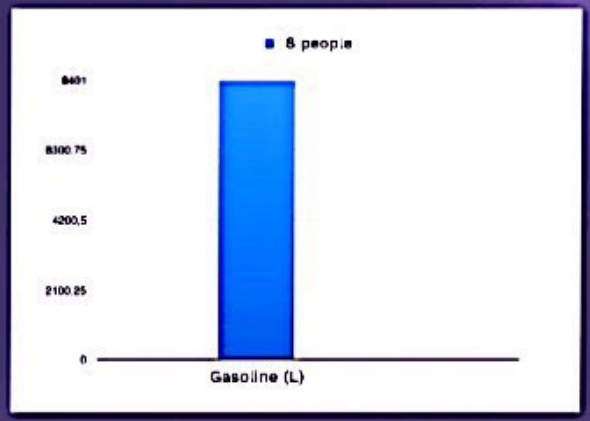
How to reduce consumption

Prezi

Carbon Footprint



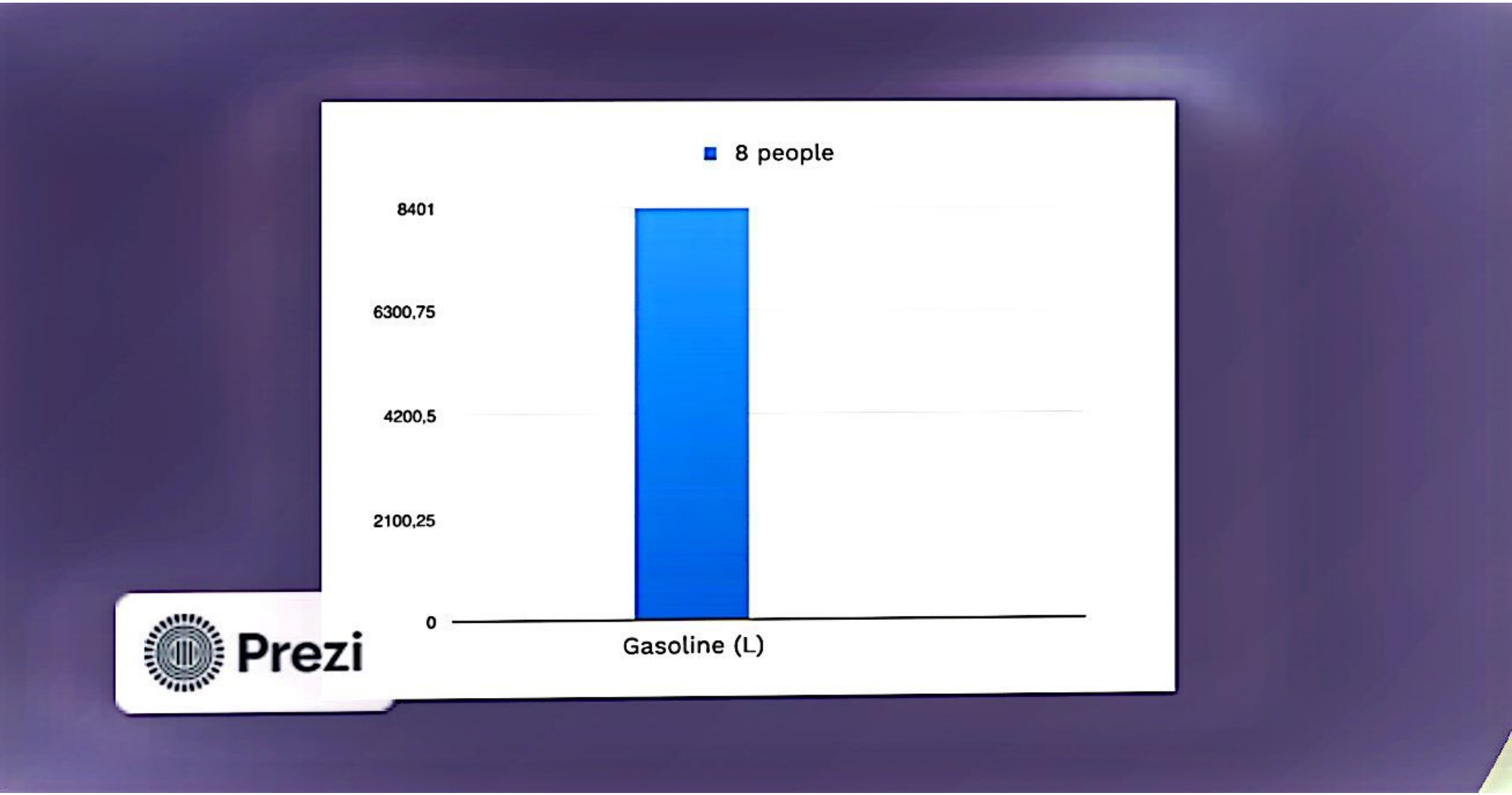
Transport



Car

Alternatives

Prezi



Car

A car emits an average of 14.352 Kg of CO_2 every 100 km, which is about 0.143 Kg of CO_2 for every kilometre travelled.

Alternatives

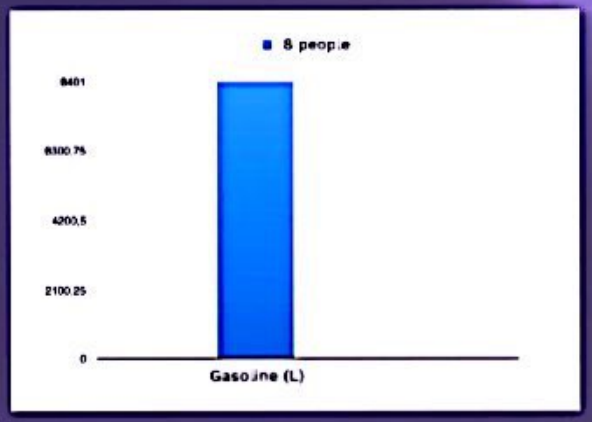
Bicycle (normal or electric)

By foot.

Public transport.

Prezi

Transport

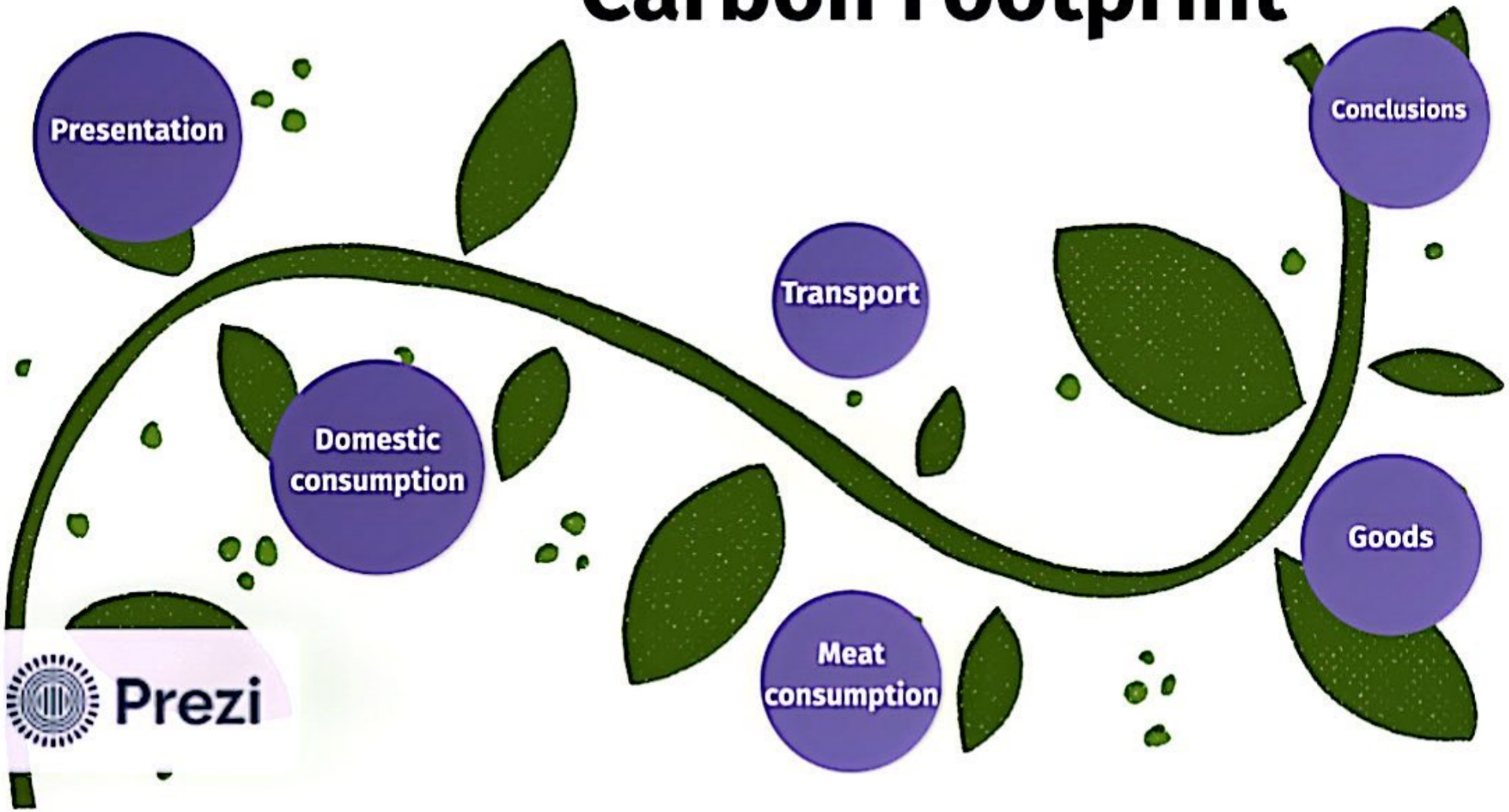


Car

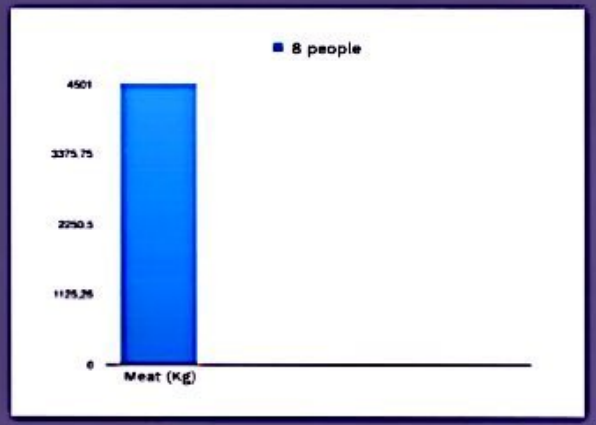
Alternatives

Prezi

Carbon Footprint



Meat Consumption

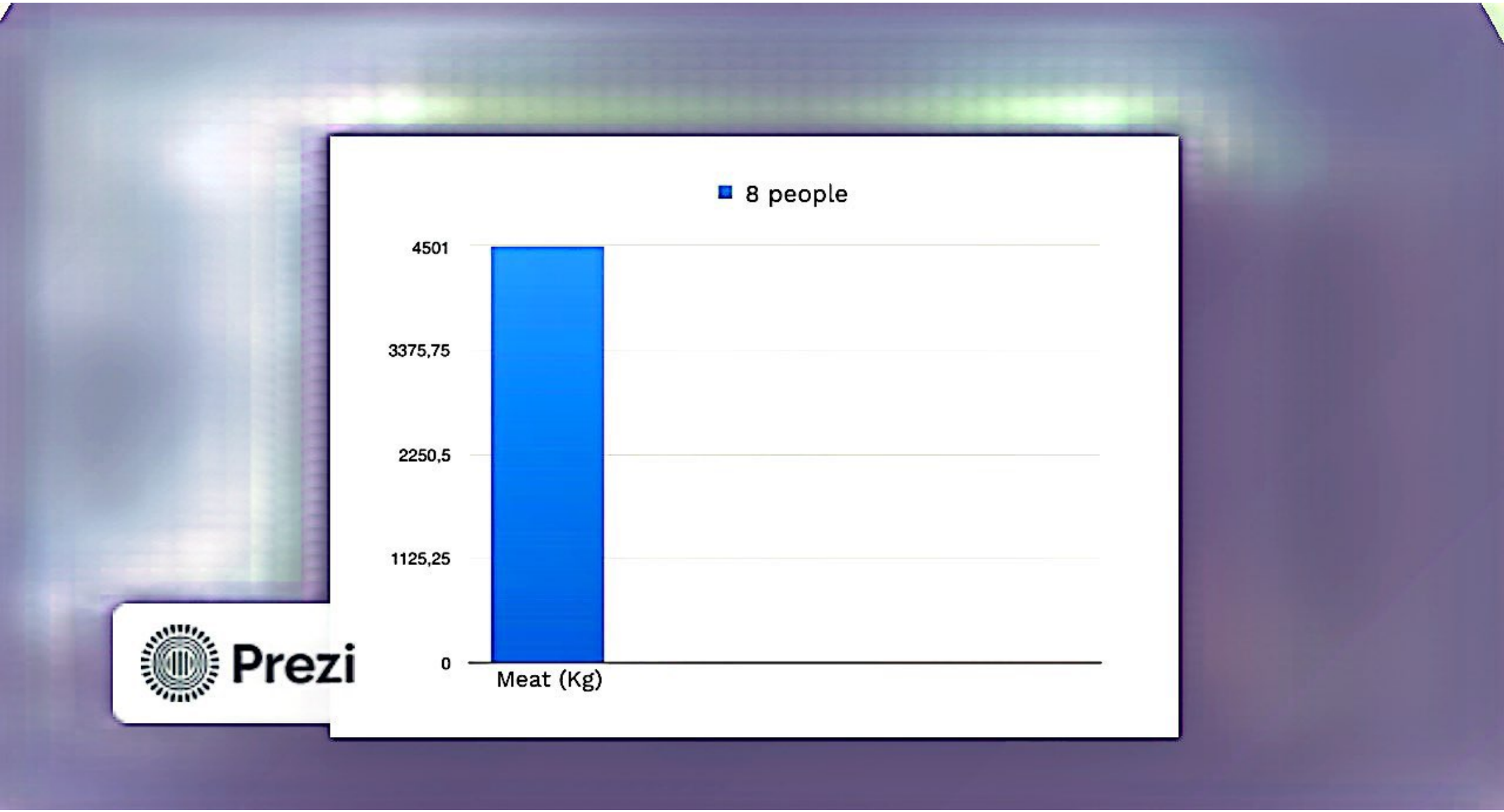


Pollution

Comparison

Solution

Prezi

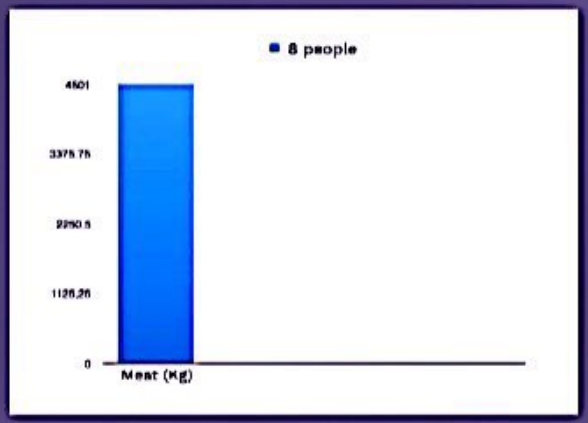


Pollution caused by meat consumption

The yearly worldwide consumption of meat is of approximately 300 billion kilograms, meaning around 8 trillion kilograms of CO_2 are released into the atmosphere every year.

Prezi

Meat Consumption



Pollution

Comparison

Solution

Prezi

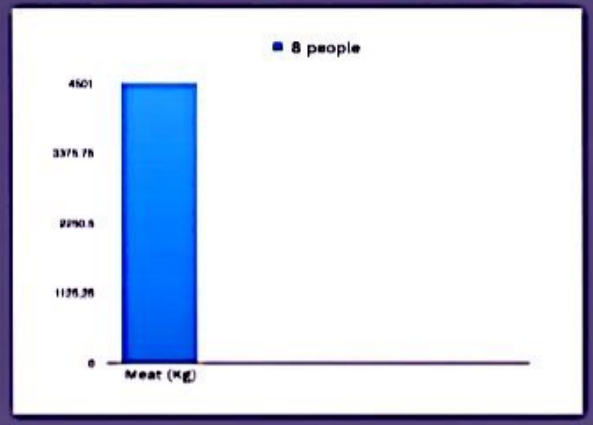
Comparison

1 kg of pork is equivalent to 121 km travelled in a diesel fueled car (12.1 kg of CO_2)

1 kg of beef is equivalent to 697.97 kg of lettuce (23 kg of CO_2)

Prezi

Meat Consumption



Pollution

Comparison

Solution

Prezi

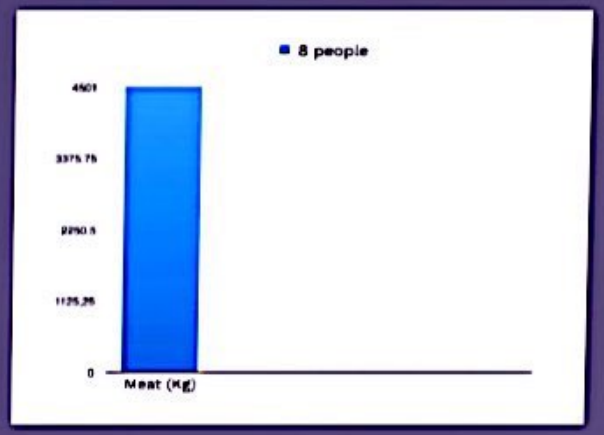
Reduce the amount consumed/produced

There are two ways to reduce the emissions produced by livestock:

-Restrict the consumption and production of livestock farms or mitigate emissions. In other words, making meat production more efficient and treating the gases produced, reusing methane as fuel.

-Rational consumption and a healthier diet that includes more vegetables and less meat.

Meat Consumption



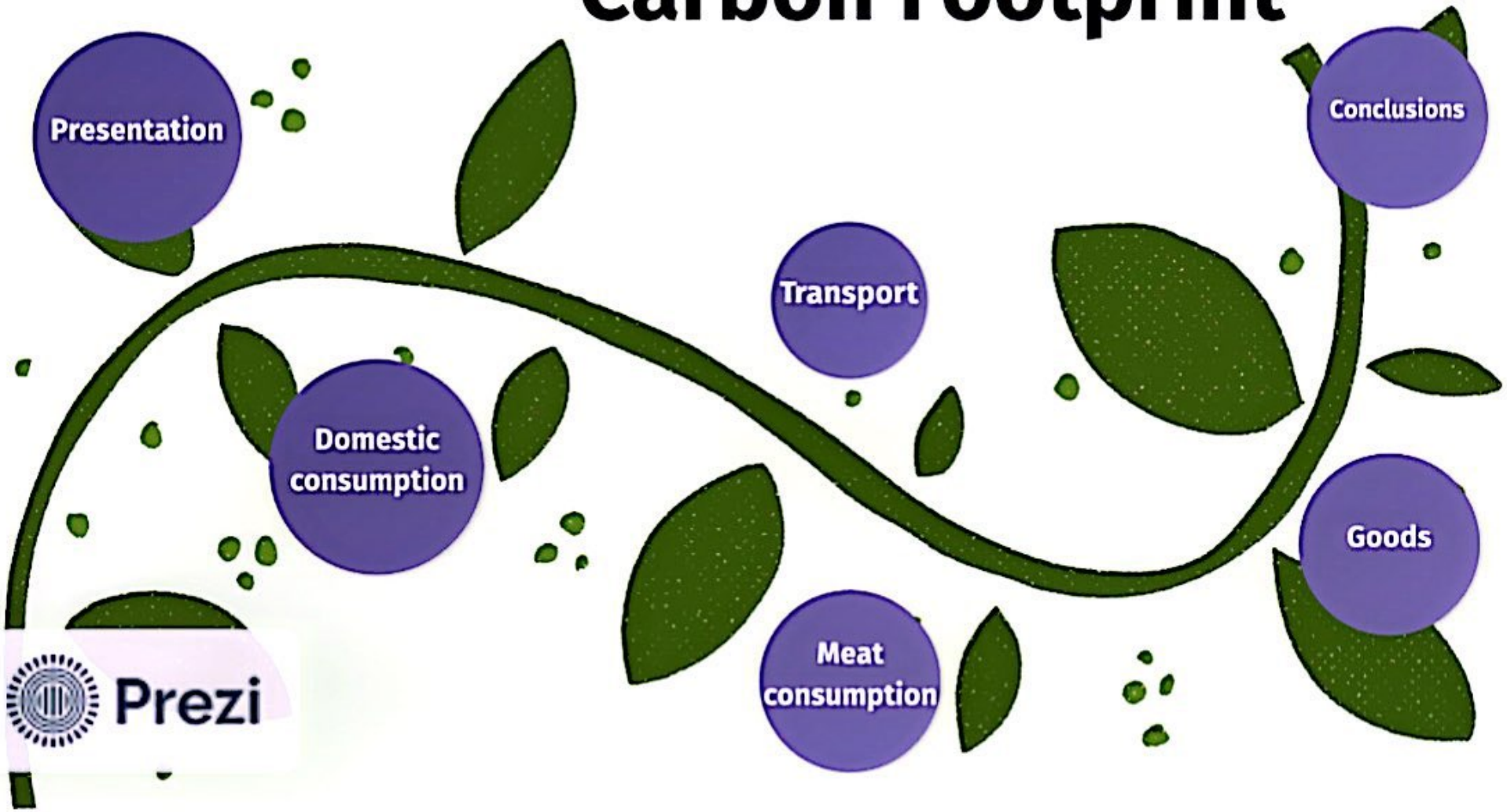
Pollution

Comparison

Solution

Prezi

Carbon Footprint



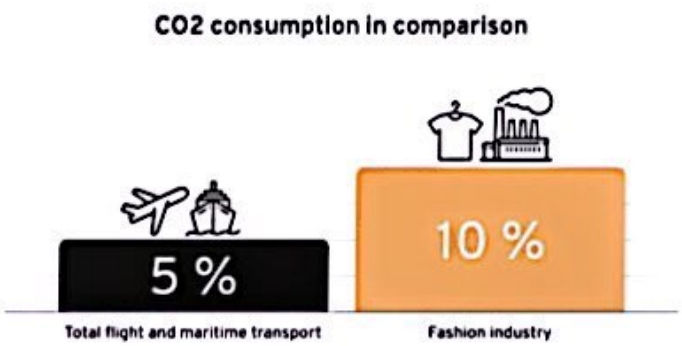
Goods

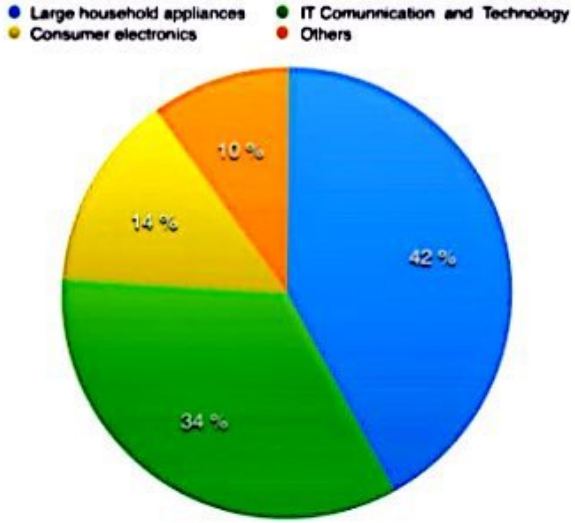
Such as clothes and electronic devices (phones, laptops).

Fashion Industry

Electronic Industry

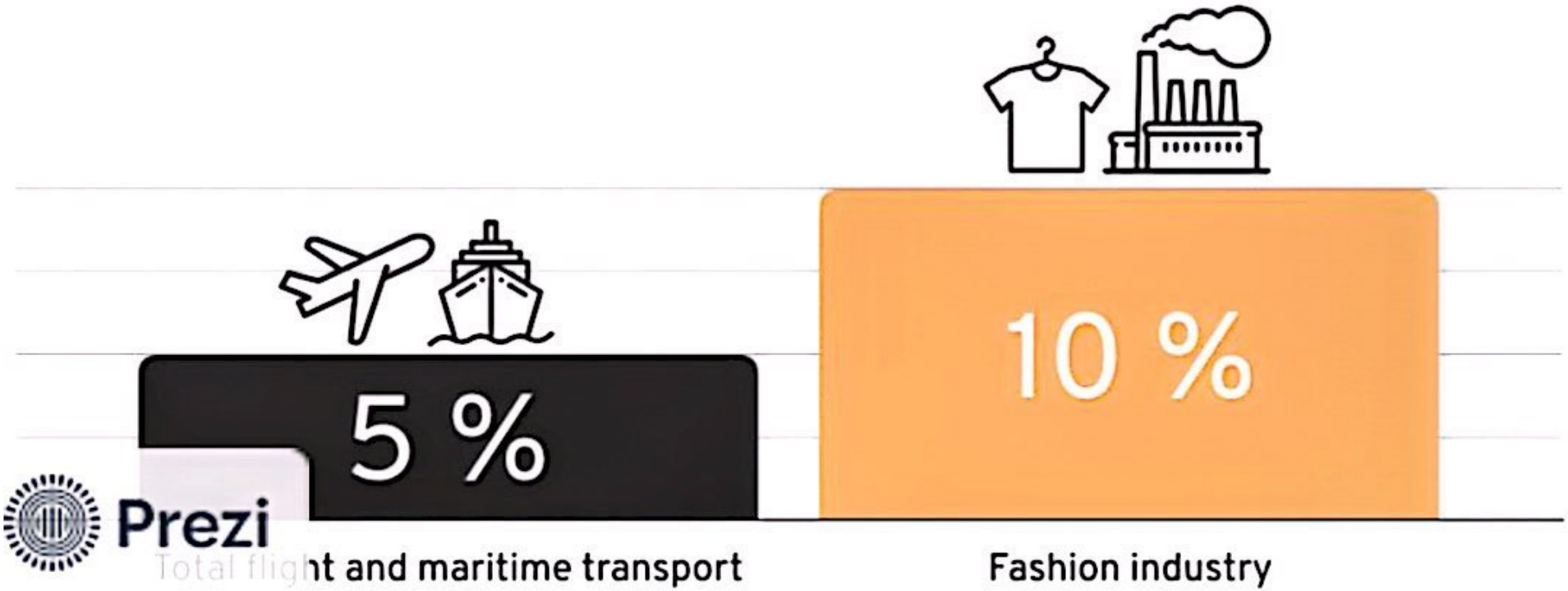
Solution

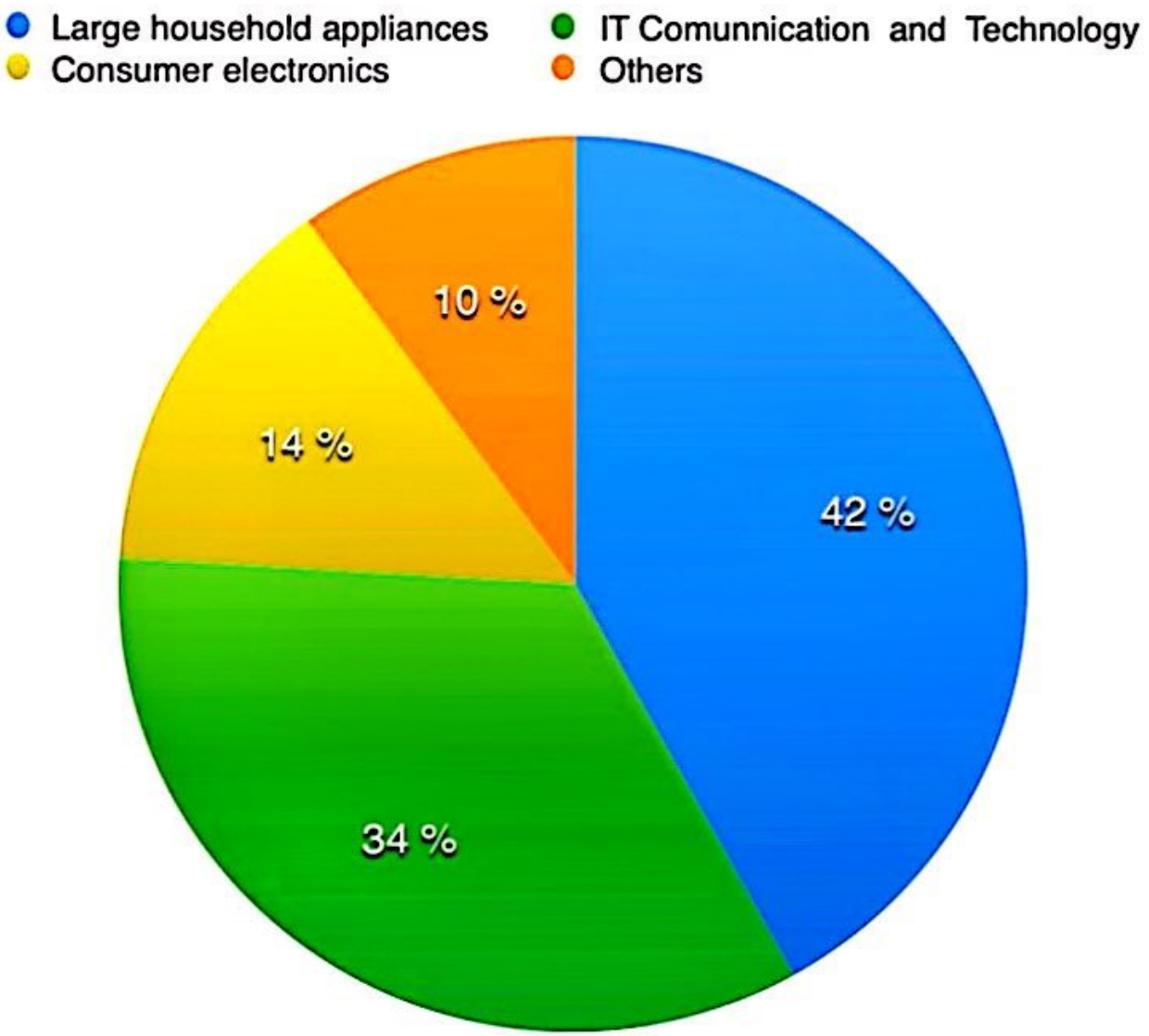




Prezi

CO2 consumption in comparison





Pollution caused by the Fashion Industry

The fashion industry is responsible for 20% of the total global water waste.
The production of clothing and footwear produces 8% of greenhouse gases.
Every second, an amount of textiles equivalent to a garbage truck is buried or burned.
For reference, the manufacture of just one pair of shoes can produce up to 23.3 kg of CO_2.

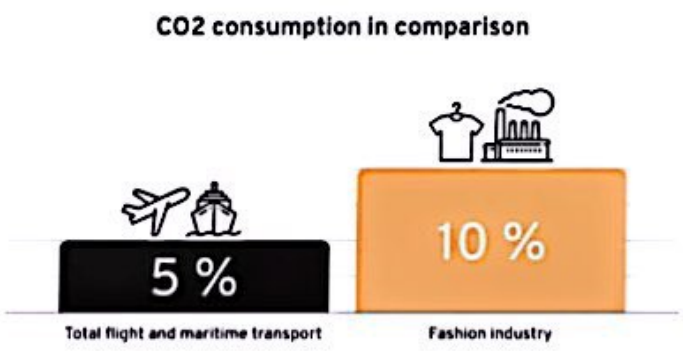
Goods

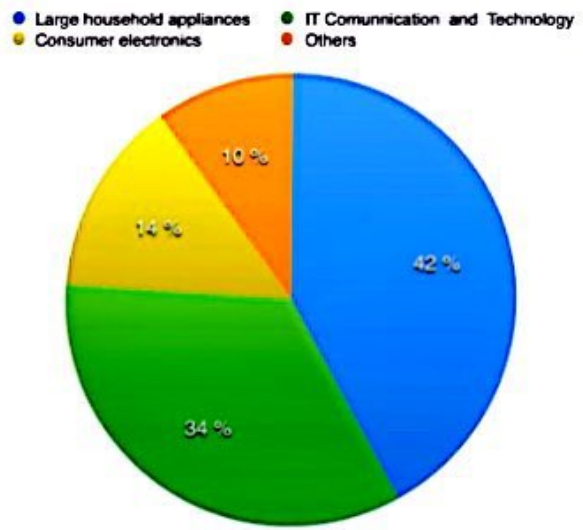
Such as clothes and electronic devices (phones, laptops).

Fashion Industry

Electronic Industry

Solution





Prezi

Pollution caused by the Electronic Industry

The manufacture of a laptop produces approximately 270 kg of CO_2, while that of a mobile phone produces about 60 kg of CO_2, and its annual use produces approximately 122 kg, a figure that is too high considering the number of devices in the world.
Every year, 1.032 tons of electronic waste are thrown away.

Prezi

DIGITAL POLLUTION DRIVERS

1- DEVICE MANUFACTURING
Material sourcing
Machining
Transportation

2- PRACTICES
Electronic devices
Data centres
Servers

3- E-WASTE
Planned obsolescence
Rubbish dump
Recycling

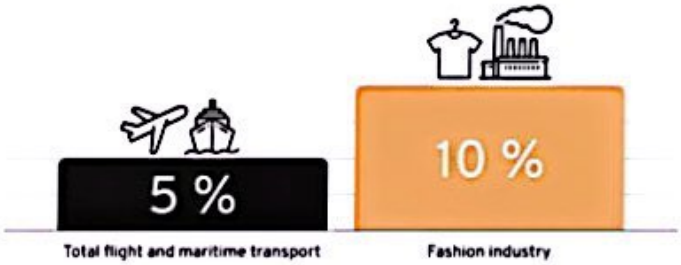
Goods

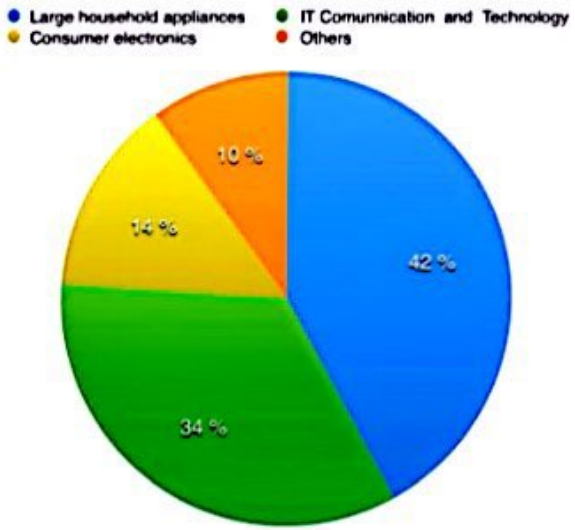
Such as clothes and electronic devices (phones, laptops).

Fashion Industry

Electronic Industry

Solution





Prezi

Consumption Reduction

We shouldn't buy goods when they're not necessary, like a new phone just because it's the latest model.
Try to make the most of their useful life and recycle everything you can, donate it or give it another use.

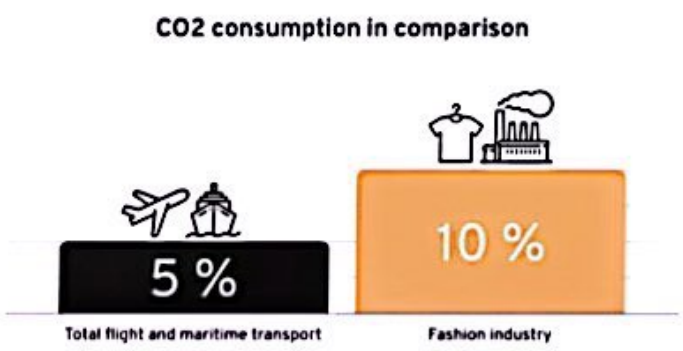
Goods

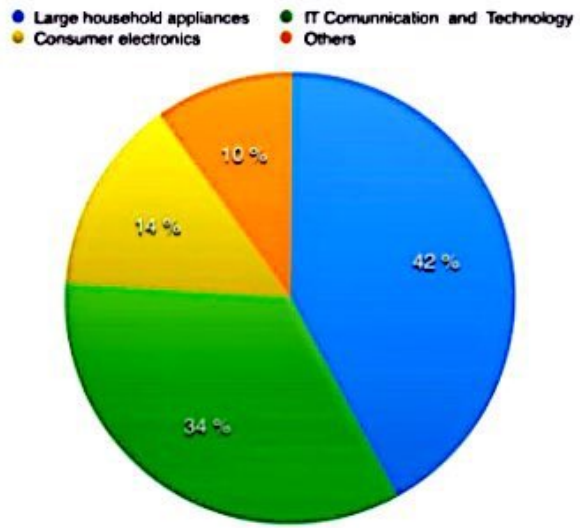
Such as clothes and electronic devices (phones, laptops).

Fashion Industry

Electronic Industry

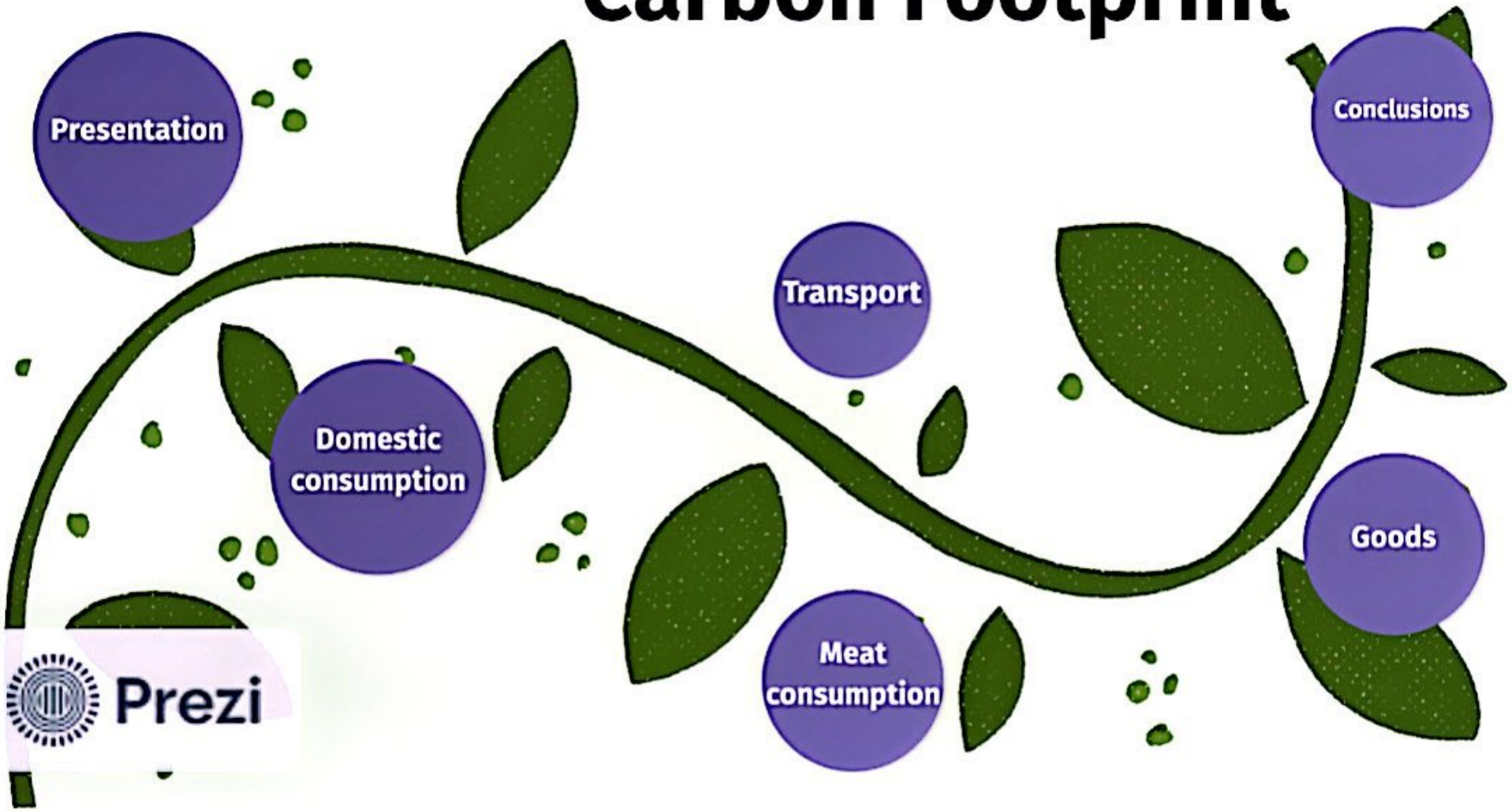
Solution



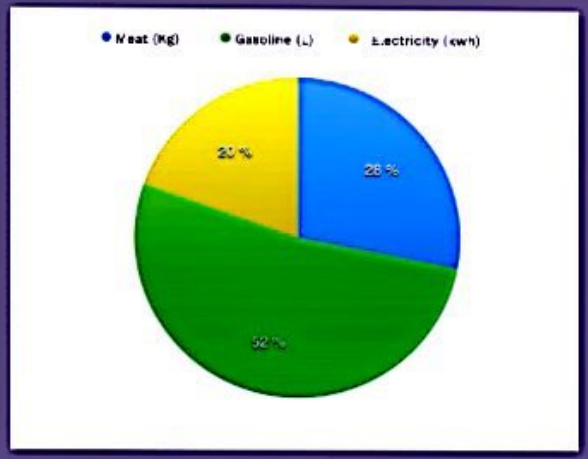


Prezi

Carbon Footprint

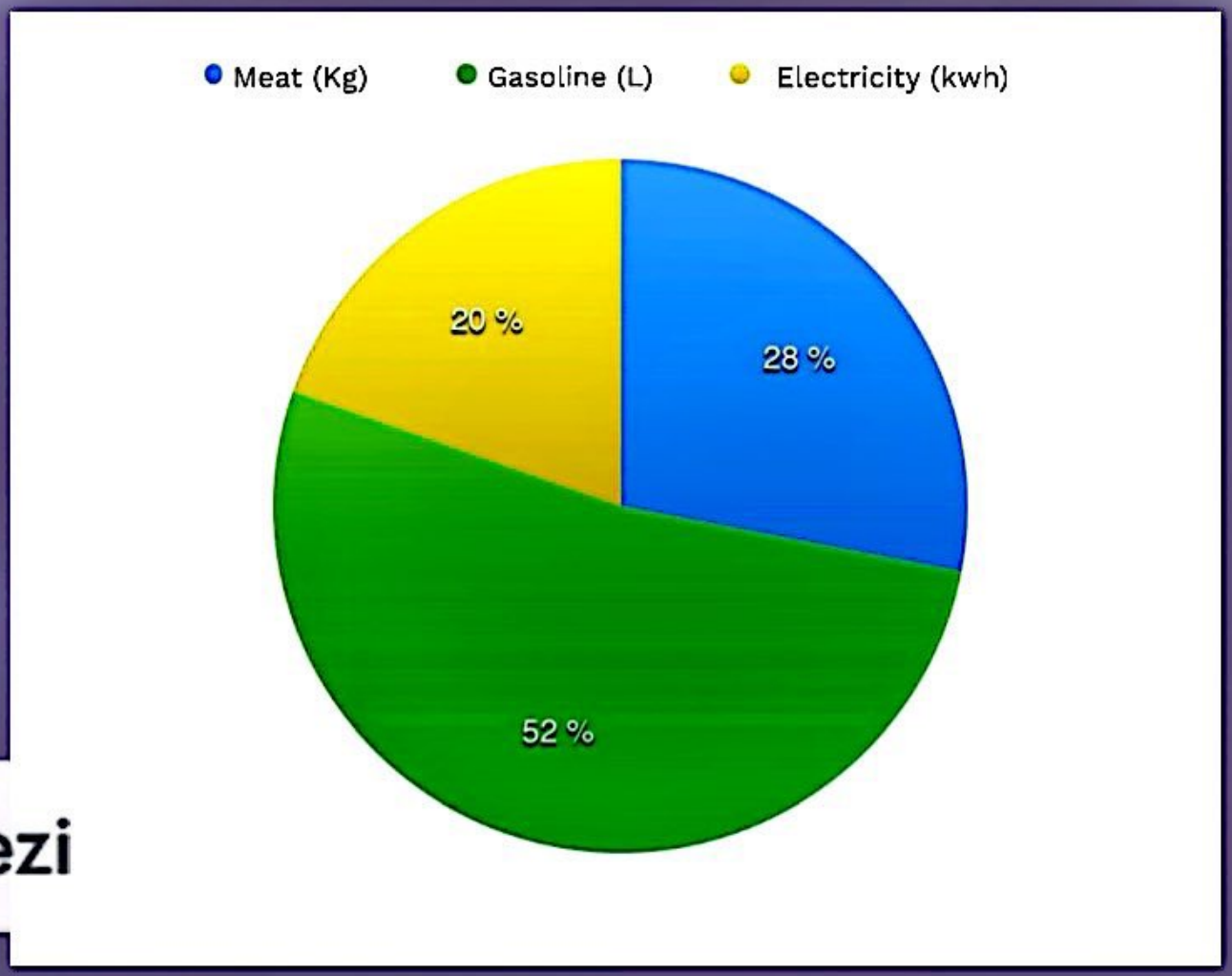


Conclusions



Web calculators

Prezi



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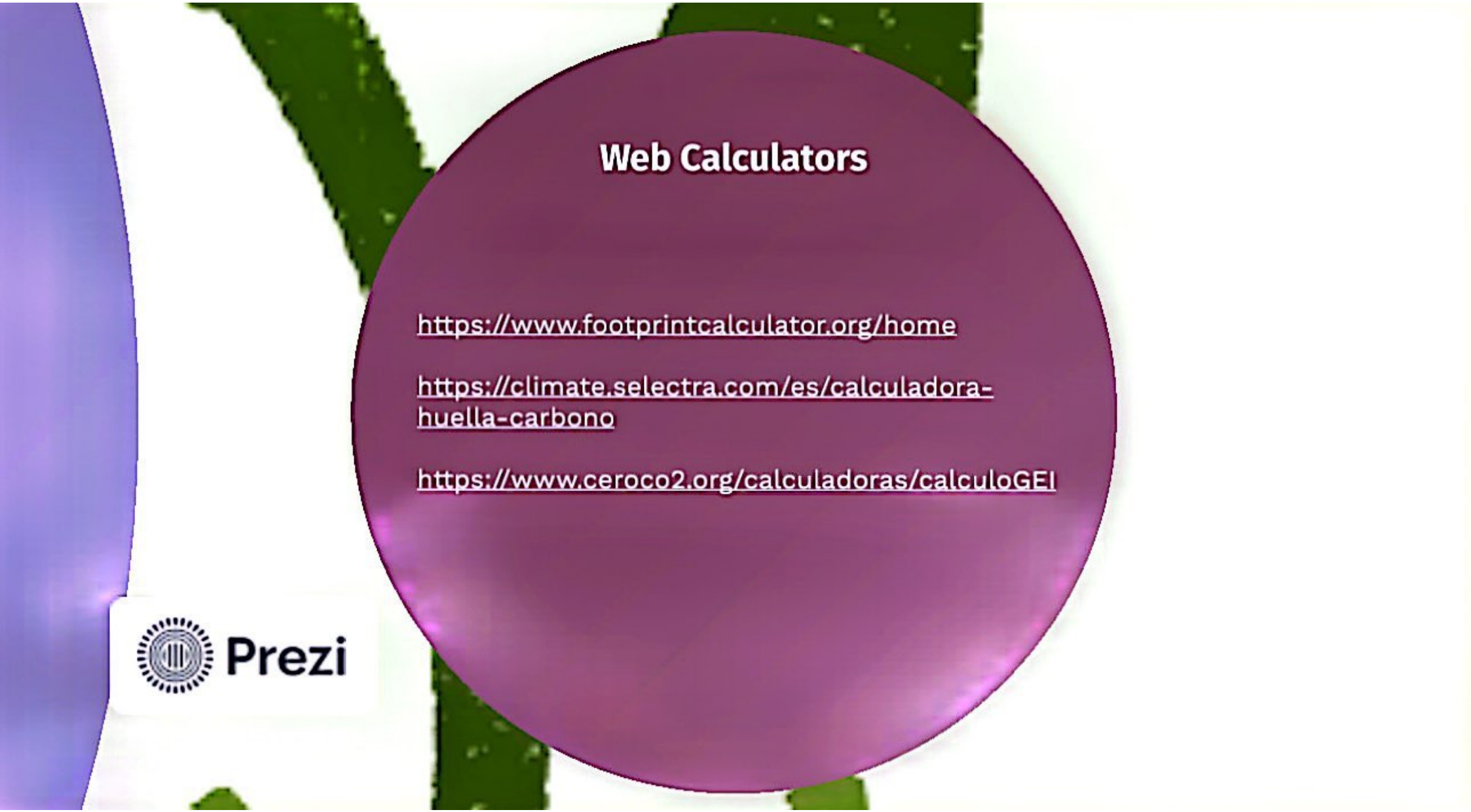

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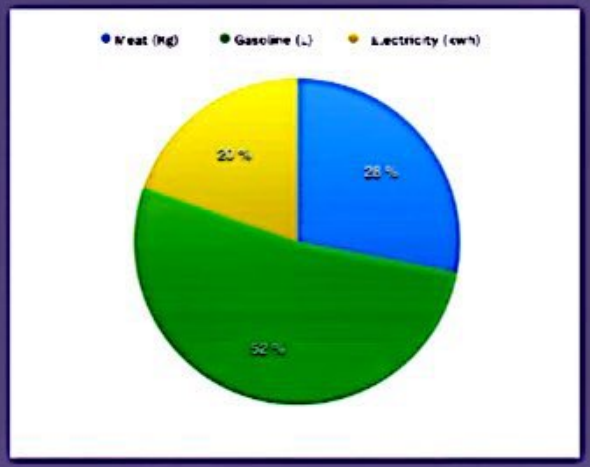

Web calculators

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