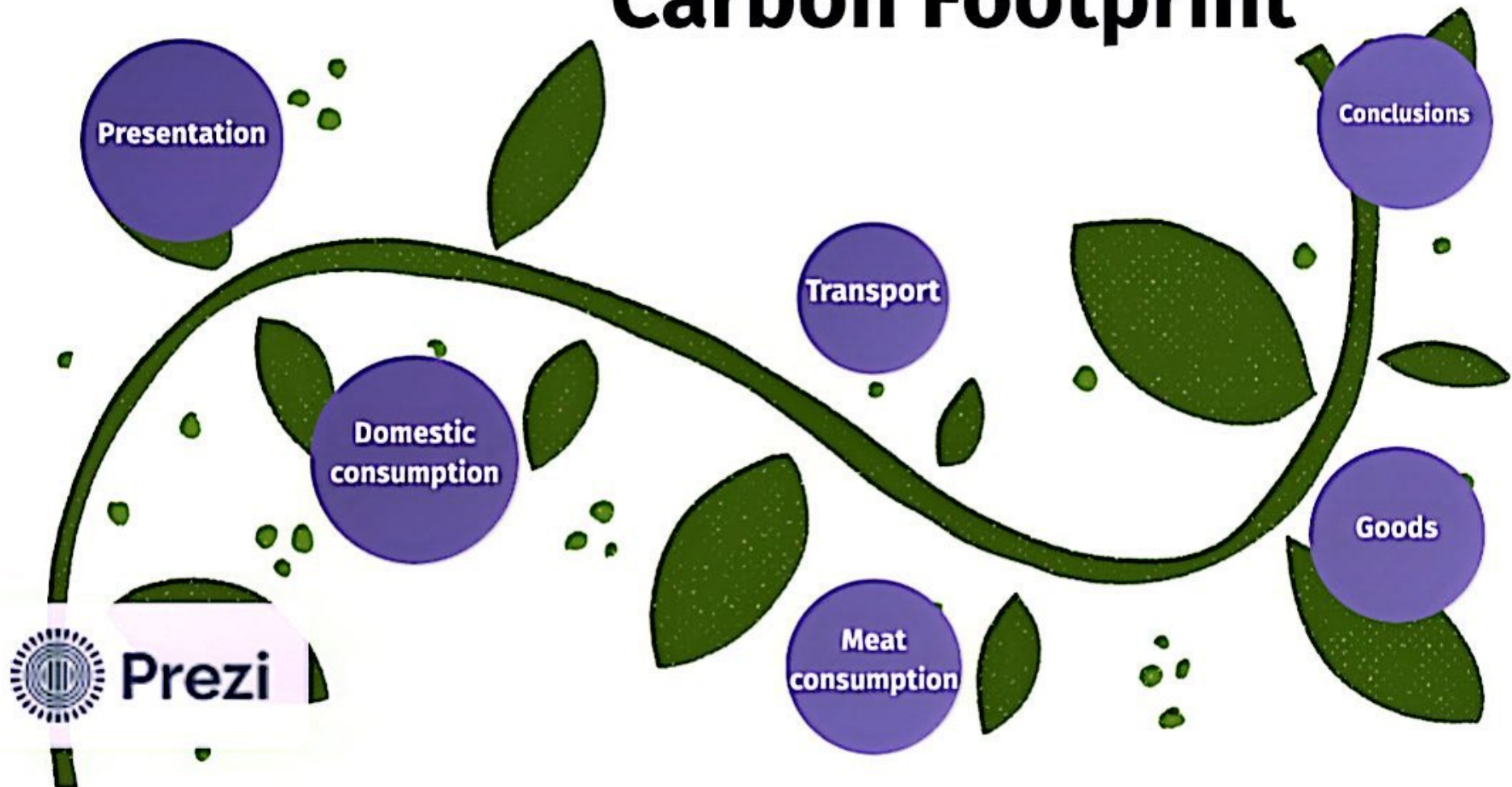




Co-funded by the
Erasmus+ Programme
of the European Union

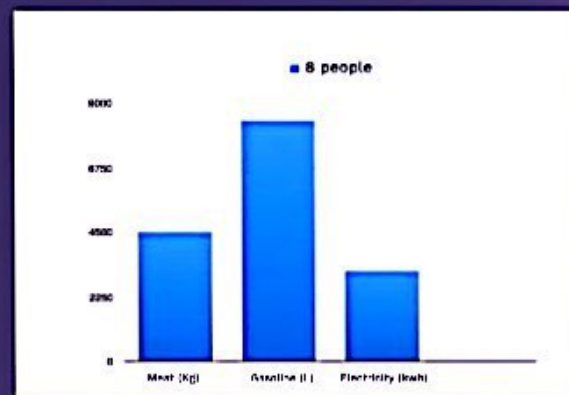


Carbon Footprint



CO2 emissions

A group of 8 people emits per year:



Comparison
to a train

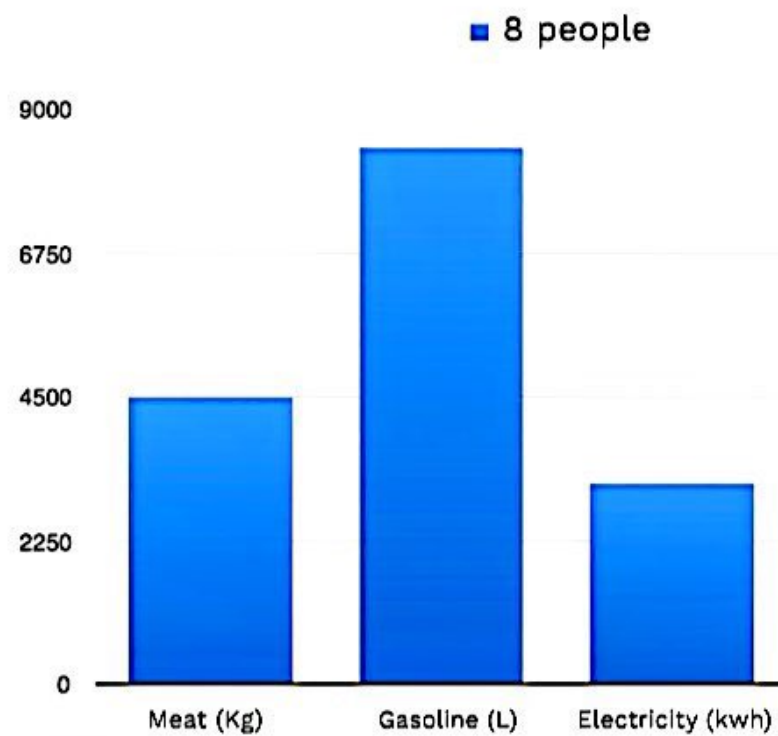
Comparison
to an
aircraft



Prezi



Prezi



Comparison to a train

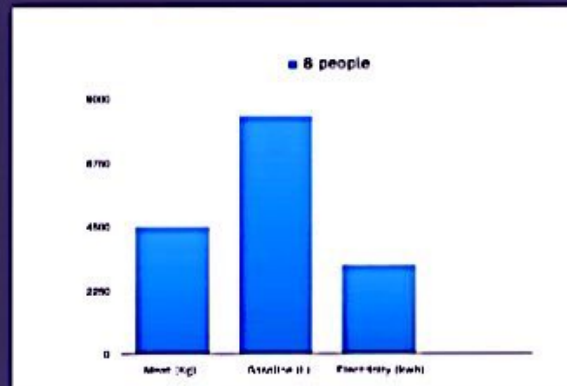
**A train emits 1.48 tons of CO₂
per year**



Prezi

CO2 emissions

A group of 8 people emits per year:



Comparison
to a train

Comparison
to an
aircraft



Prezi

Comparison to an aircraft

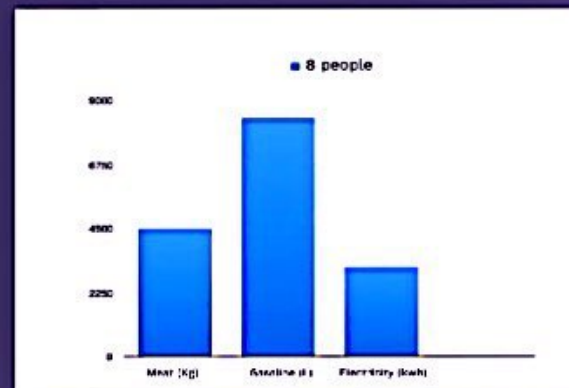
**An aircraft emits 900 million
tons of CO₂ per year**



Prezi

CO2 emissions

A group of 8 people emits per year:



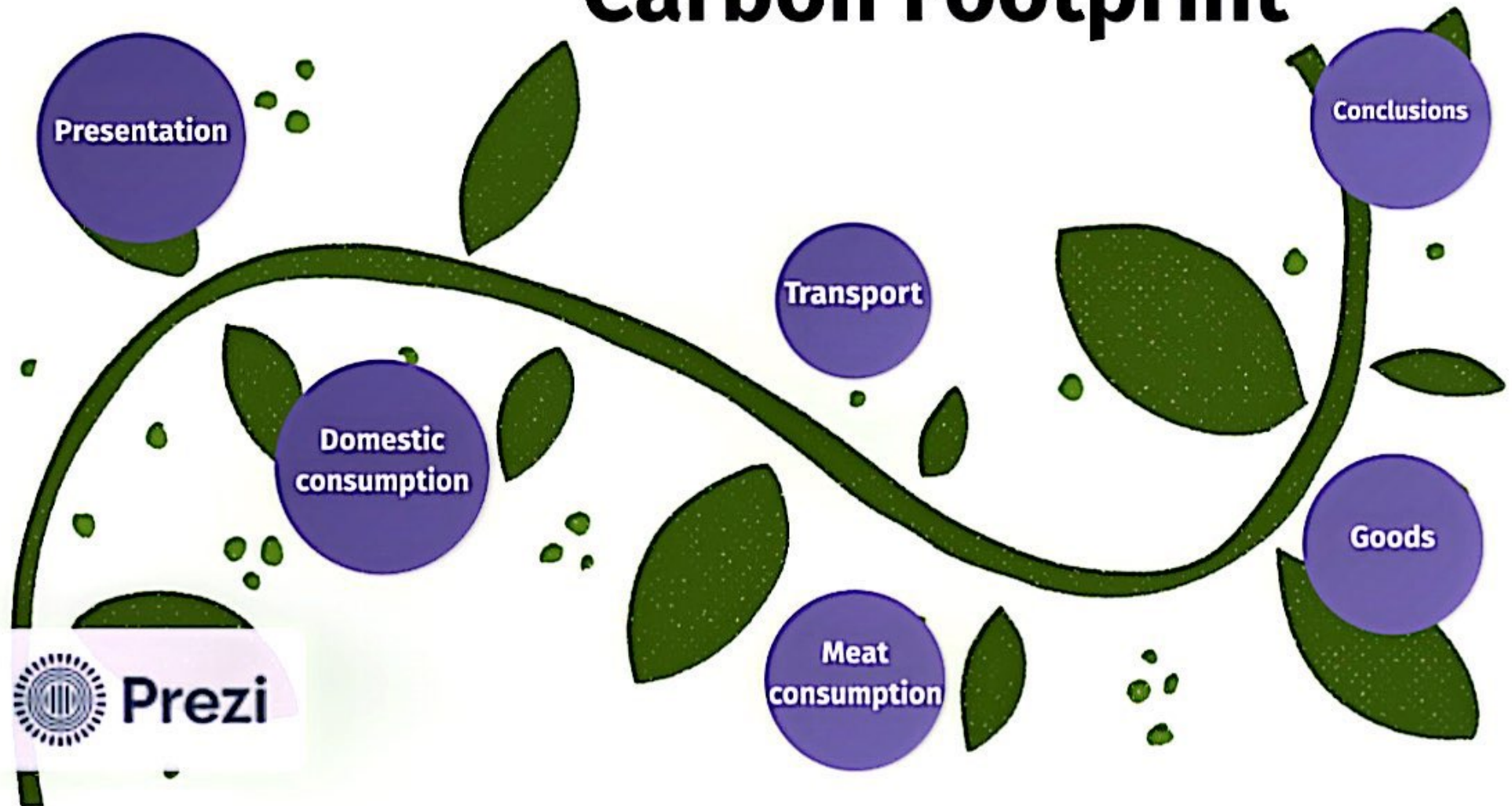
Comparison
to a train

Comparison
to an
aircraft

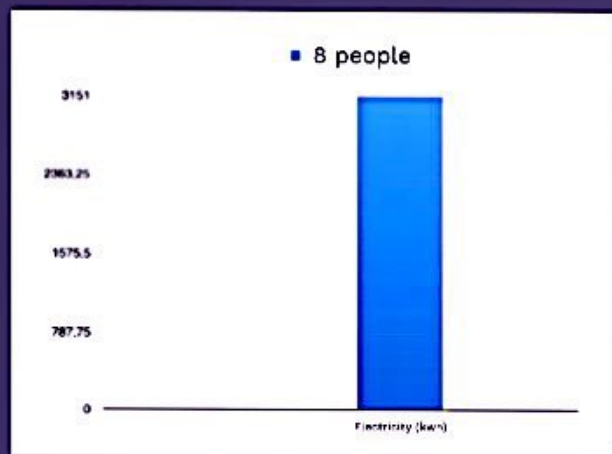


Prezi

Carbon Footprint



Domestic consumption

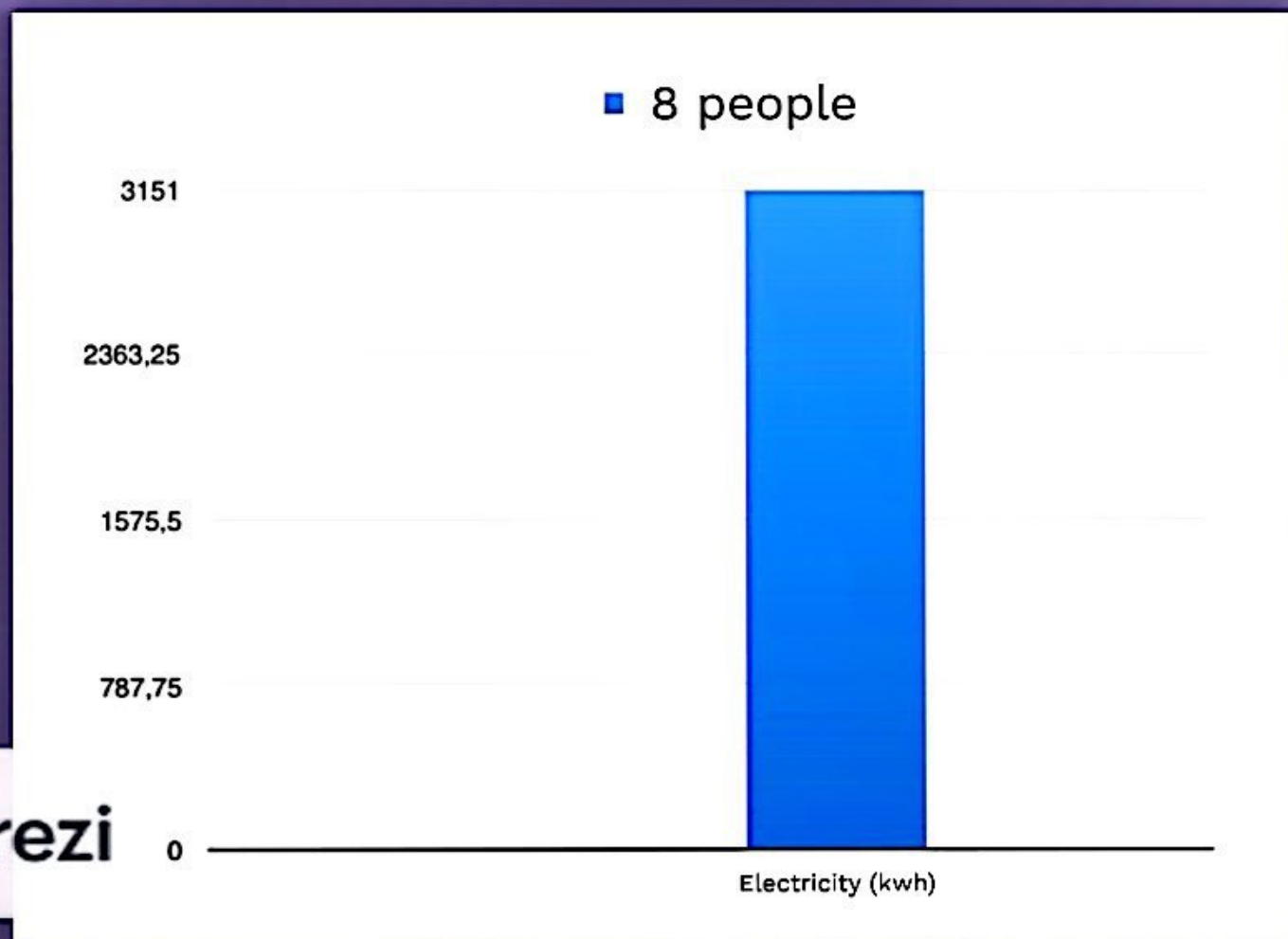


Home appliances

How to reduce consumption



Prezi



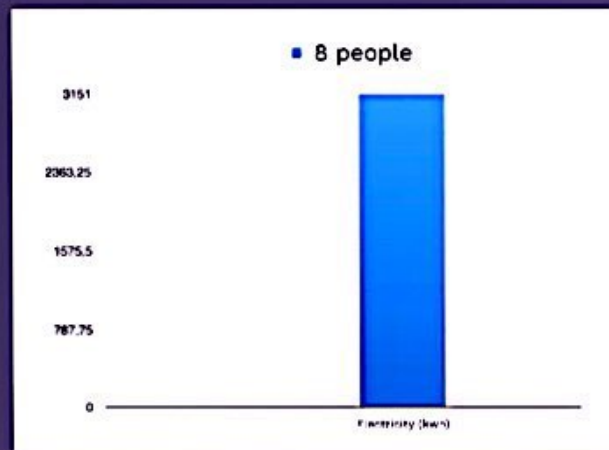
Home appliance

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



Prezi

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



If we:

- Reduce the time it takes to bathe by one minute, we will emit 381,600 fewer tons of CO₂.
- Use only natural light for 5 hours a day, we will emit 210,000 tons of CO₂ less.
- Replace 4 fluorescent bulbs with 4 LEDs, we will emit 420,000 tons of CO₂ less.



Prezi



How to reduce it?

Use LED light bulbs

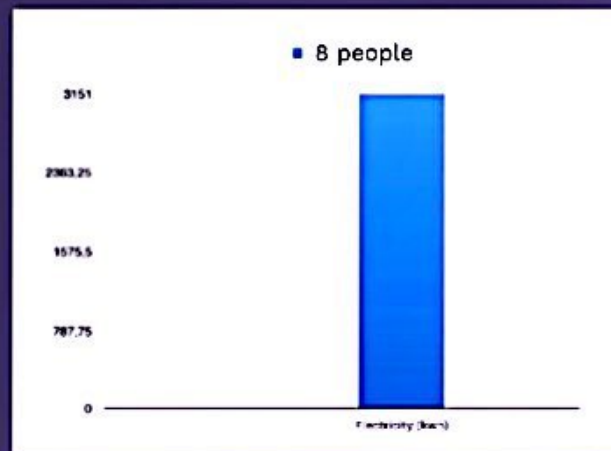
Reduce the amount of water you use
(especially hot water)

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

Turn off appliances when not in use to
avoid phantom consumption



Domestic consumption



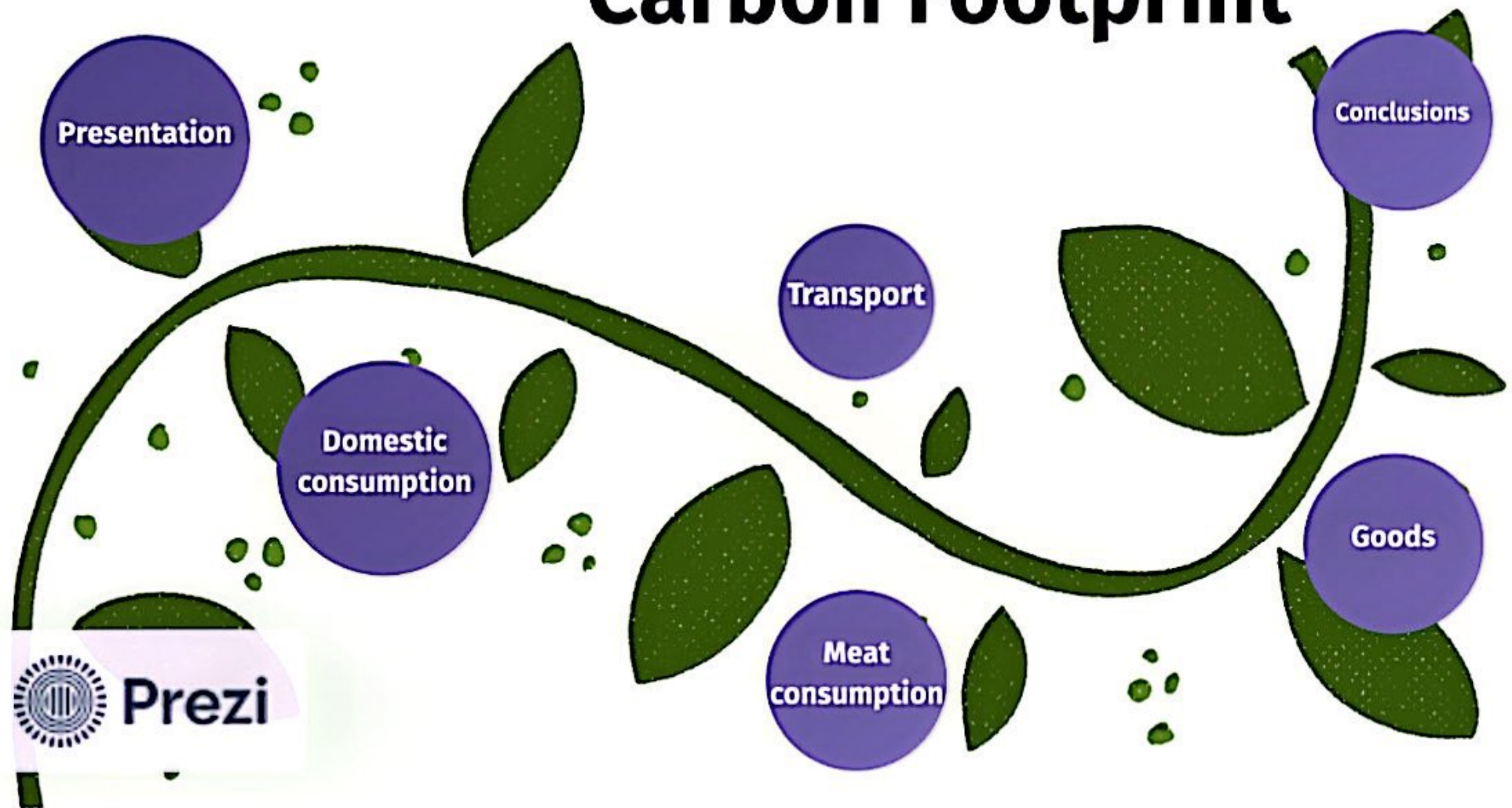
Home appliances

How to reduce consumption



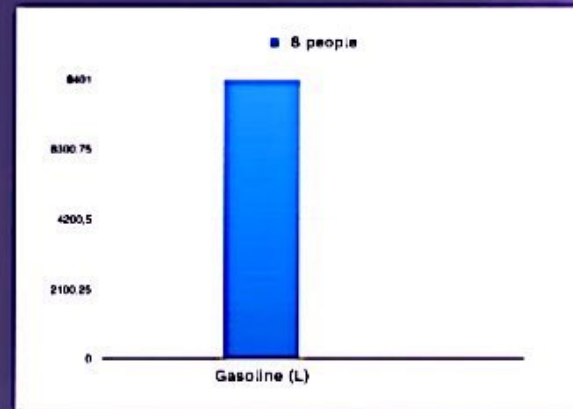
Prezi

Carbon Footprint



Transport

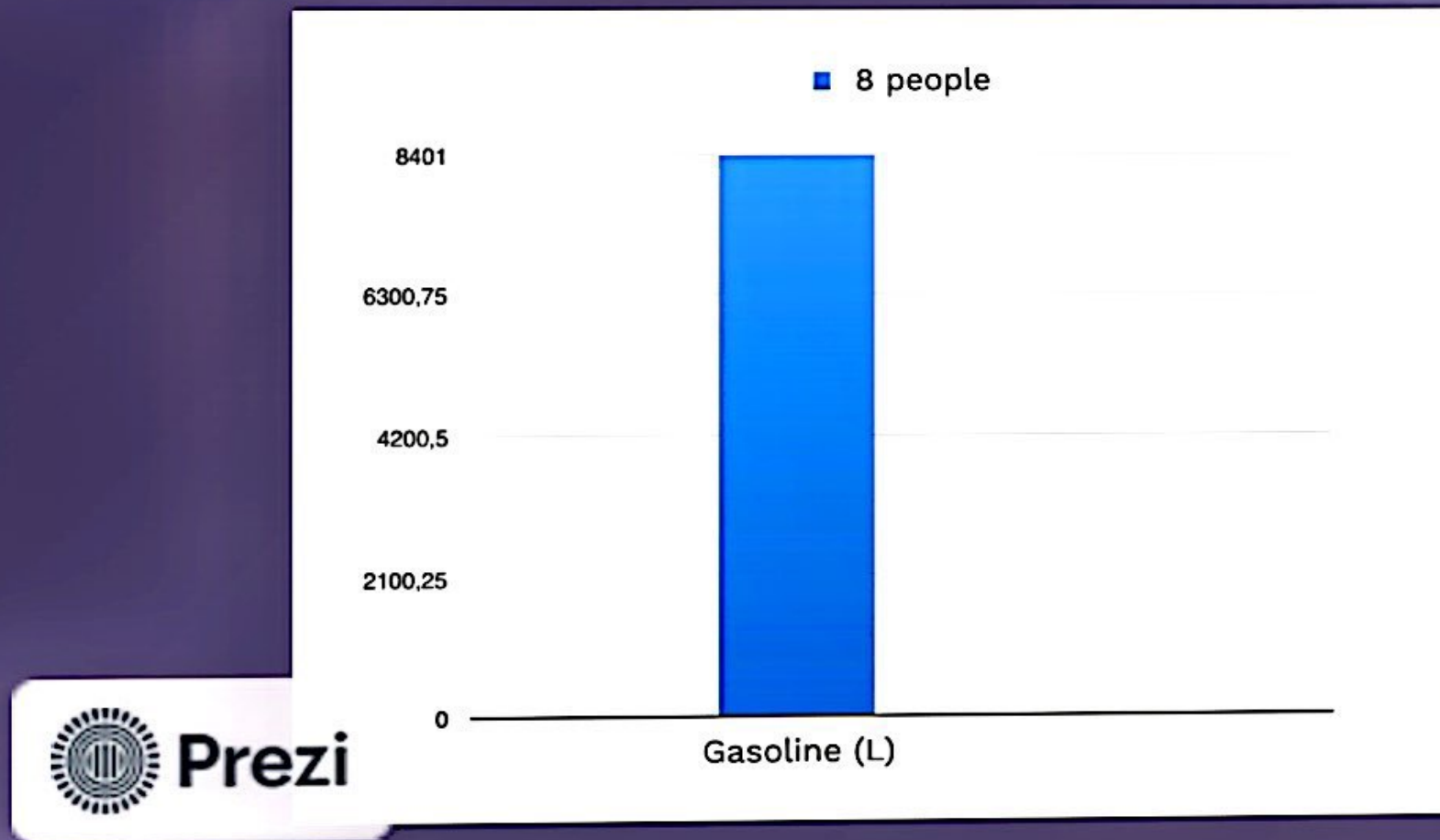
Car



Alternatives



Prezi



Car

A car emits an average of 14.352 Kg of CO₂ every 100 km, which is about 0.143 Kg of CO₂ for every kilometre travelled.



Prezi



Alternatives

Bicycle (normal or electric)

By foot.

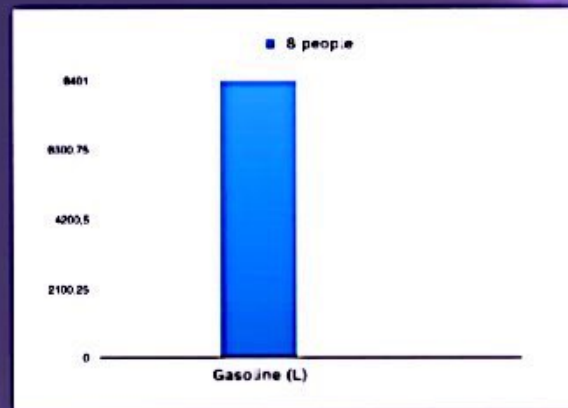
Public transport.



Prezi

Transport

Car

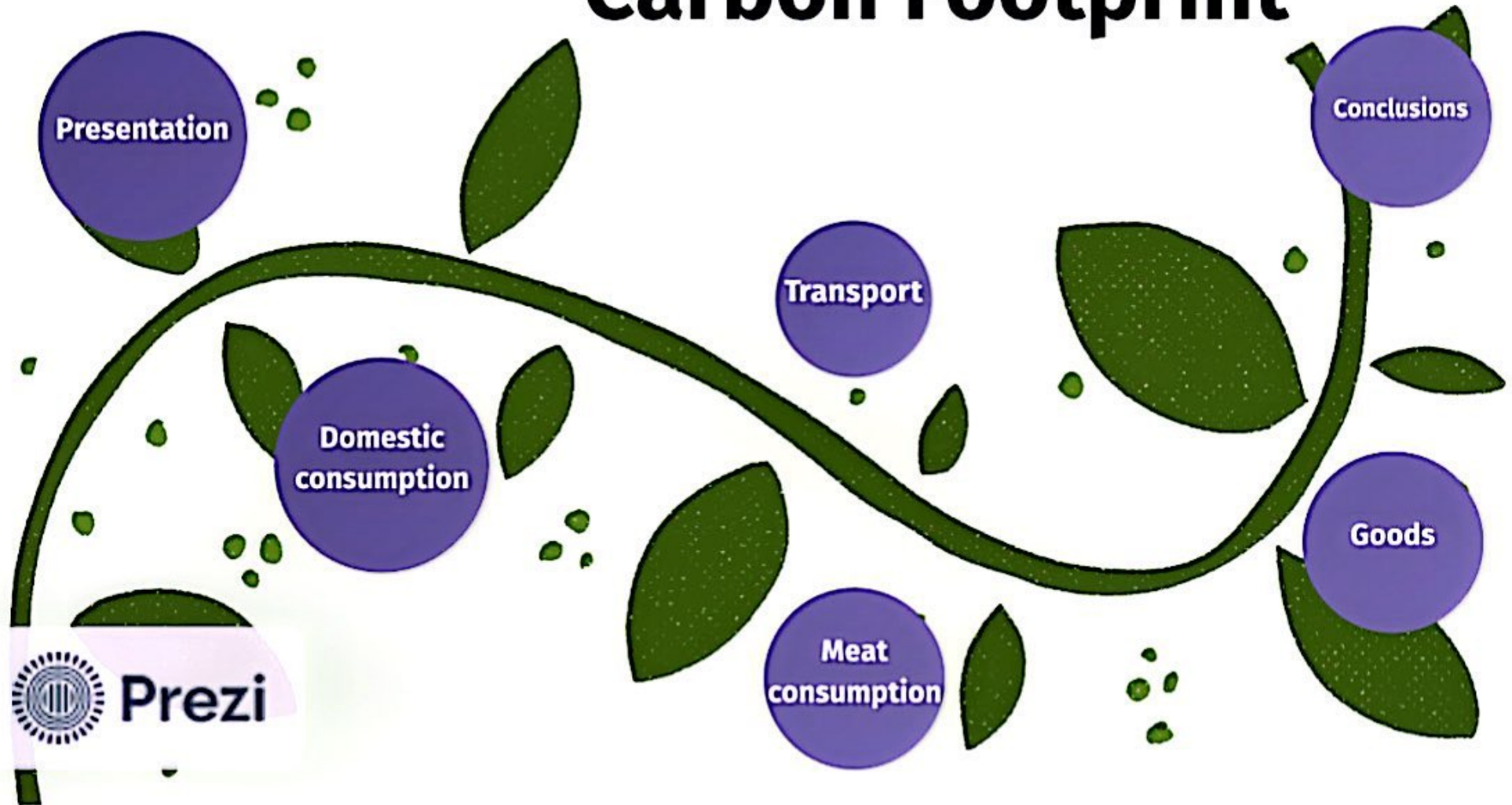


Alternatives

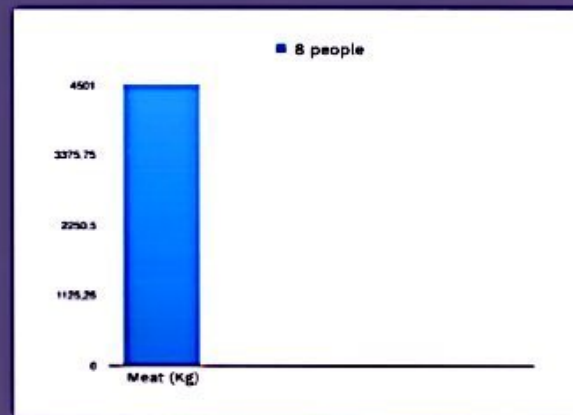


Prezi

Carbon Footprint



Meat Consumption



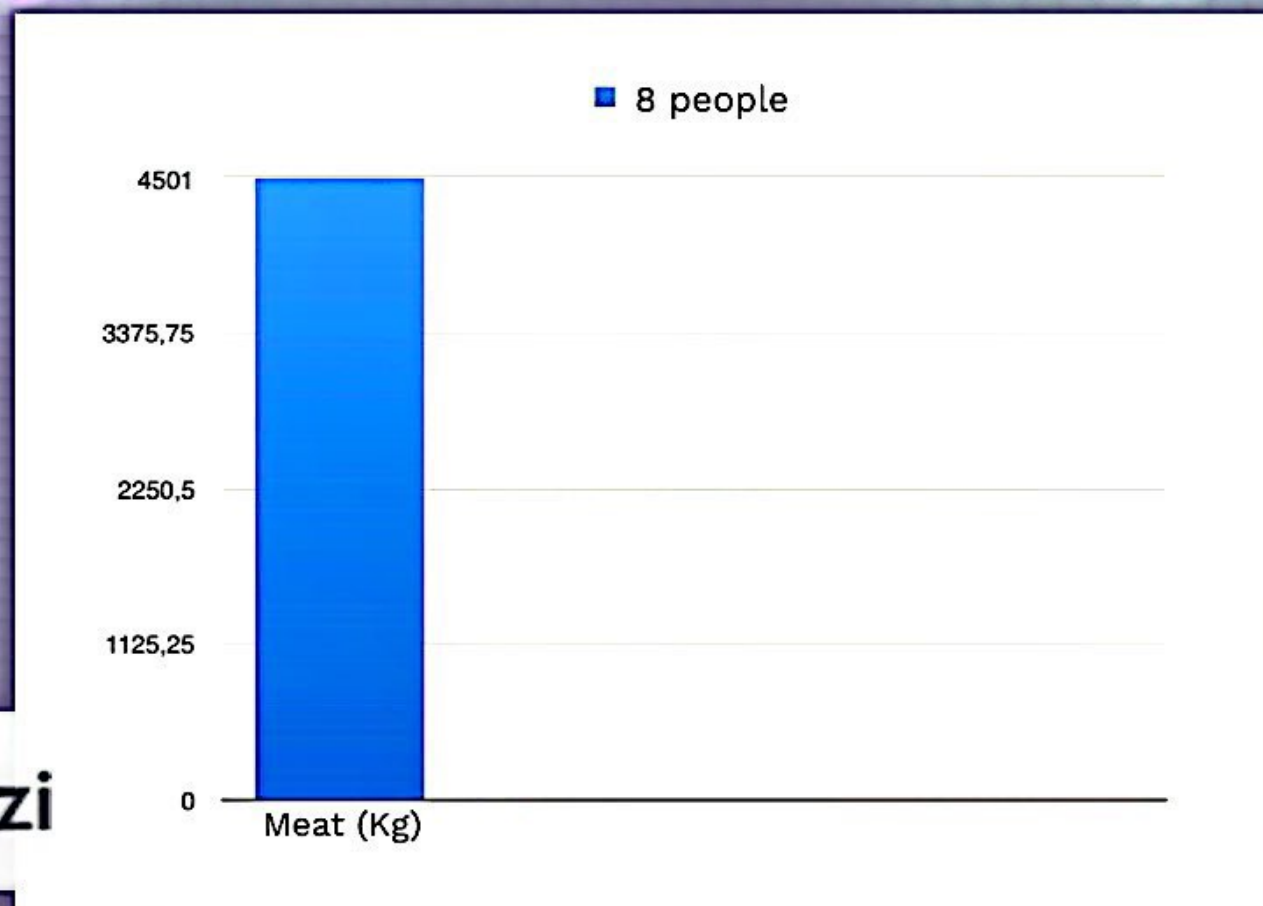
Pollution

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 CO₂ are released into the atmosphere every year.



Prezi



23%

Global freshwater supplies used to grow livestock feed.



14.5%*

Global greenhouse gas emissions produced by livestock.



33%

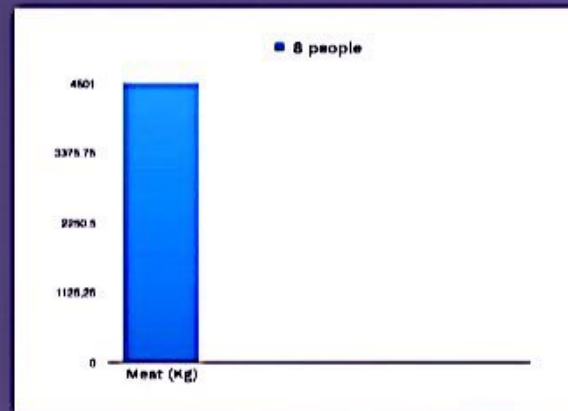
Global arable land devoted to livestock feed.



45%

Global land occupied by the livestock system.

Meat Consumption



Pollution

Comparison

Solution



Prezi



Prezi

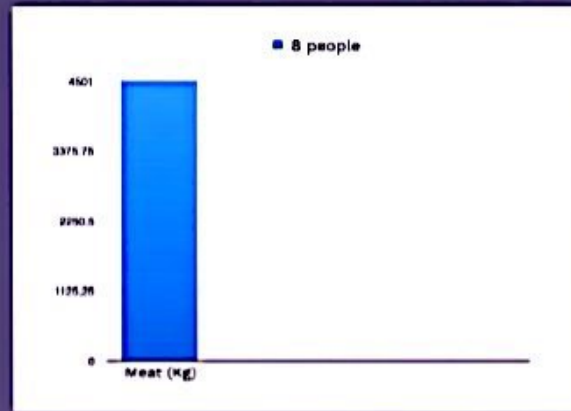
Comparison

1 kg of pork is equivalent to 121 km travelled in a diesel fueled car (12.1 kg of CO₂)

1 kg of beef is equivalent to 697.97 kg of lettuce (23 kg of CO₂)



Meat Consumption



Pollution

Comparison

Solution



Prezi

Reduce the amount consumed/produced

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

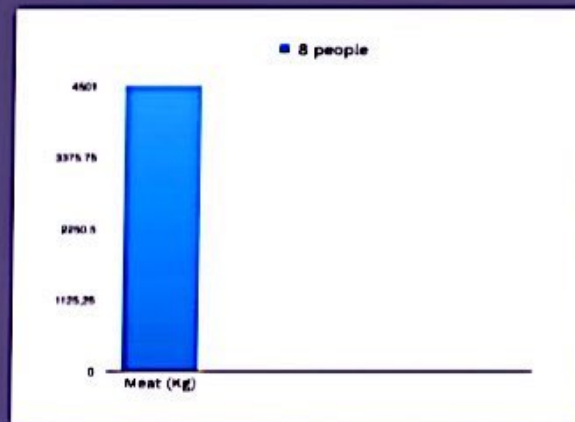
- Restrict the consumption and production of livestock farms or mitigate emissions. In other words, making meat production more efficient and treating the gases produced, reusing methane as fuel.

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



Prezi

Meat Consumption



Pollution

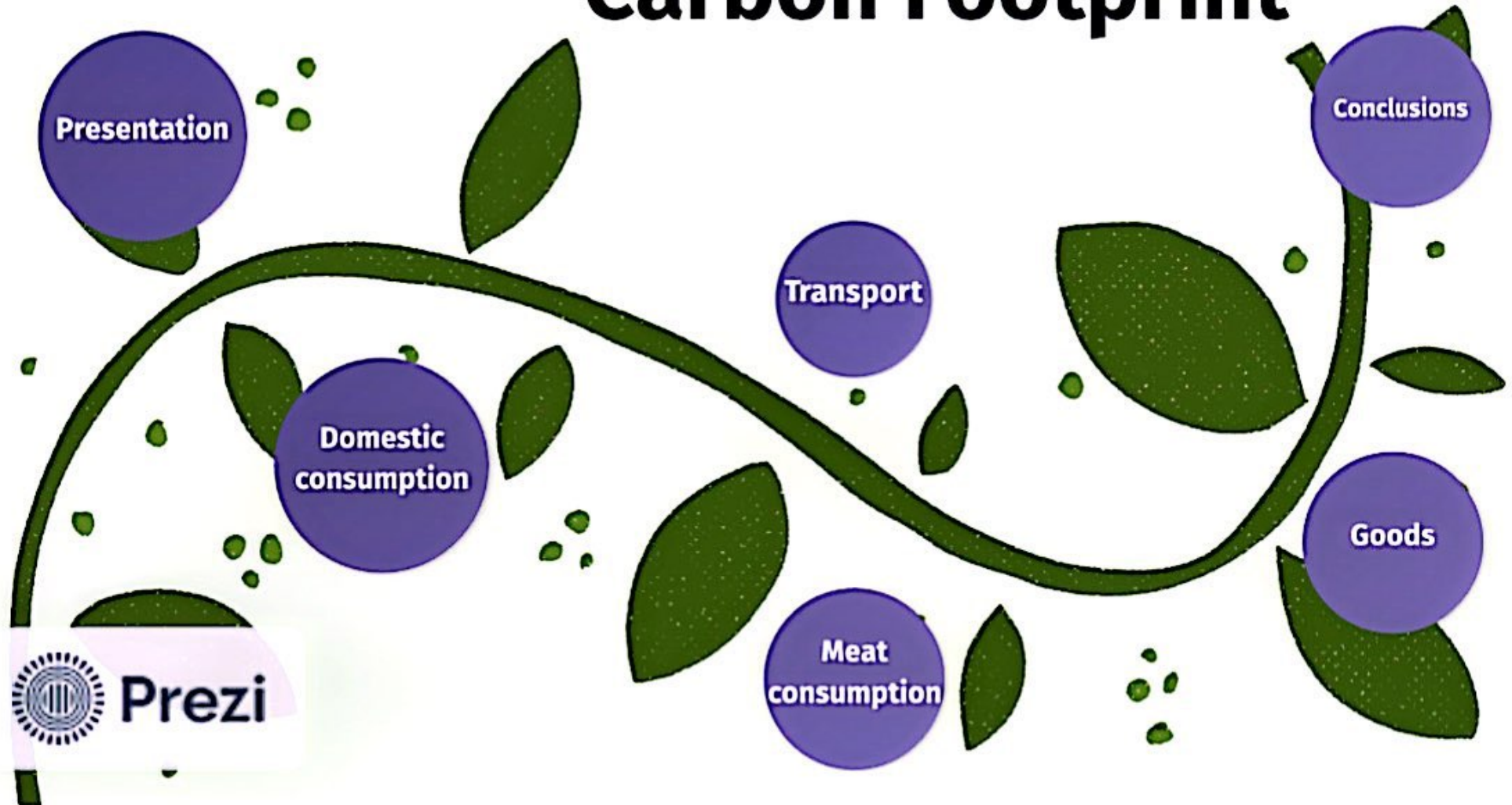
Comparison

Solution



Prezi

Carbon Footprint



Goods

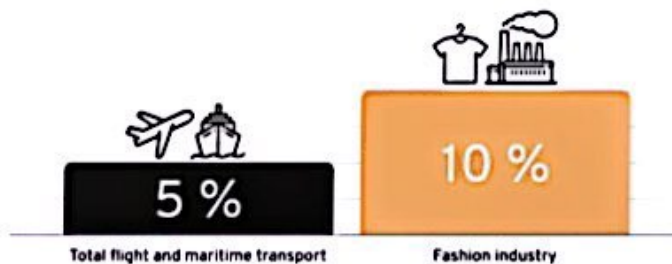
Such as clothes and electronic devices (phones, laptops).

Fashion Industry

Electronic Industry

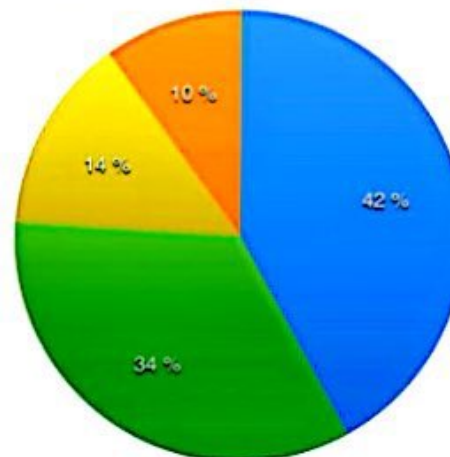
Solution

CO2 consumption in comparison

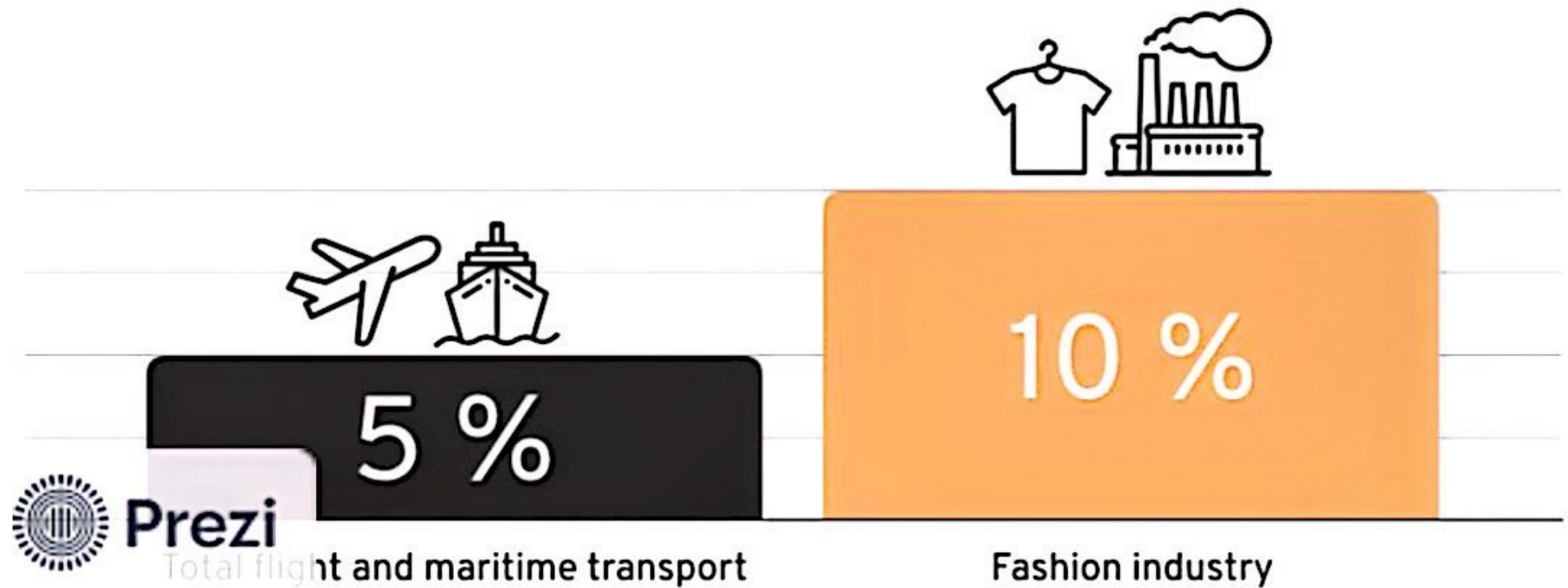


Legend for Pie Chart:

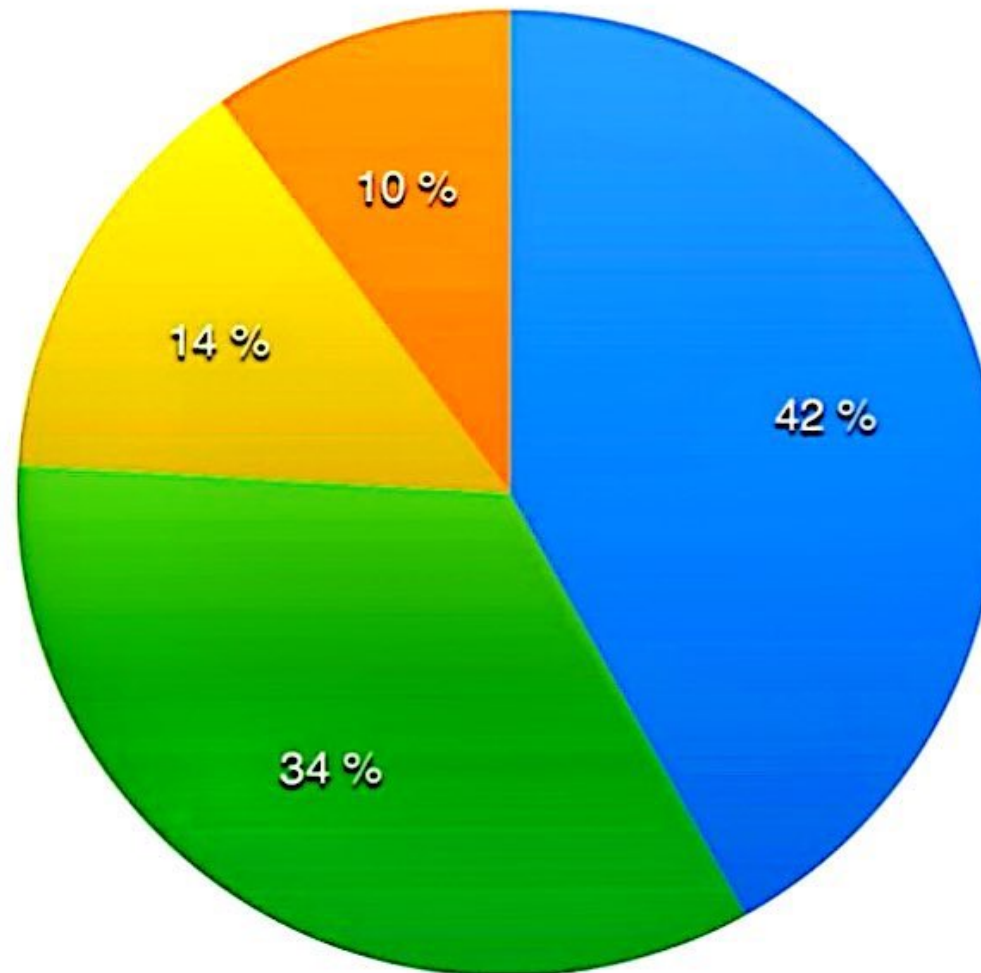
- Large household appliances
- Consumer electronics
- IT Communication and Technology
- Others



CO2 consumption in comparison



- Large household appliances
- Consumer electronics
- IT Comunnication and Technology
- Others



Prezi

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 CO₂.



Goods

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

Fashion Industry

Electronic Industry

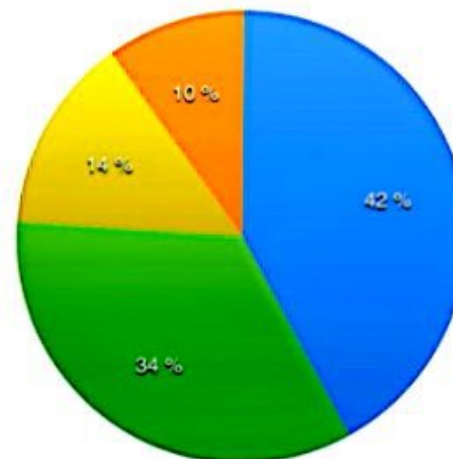
Solution

CO2 consumption in comparison



Legend for CO2 consumption breakdown:

- Large household appliances
- Consumer electronics
- IT Communication and Technology
- Others



Pollution caused by the Electronic Industry

The manufacture of a laptop produces approximately 270 kg of CO₂, while that of a mobile phone produces about 60 kg of CO₂, 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



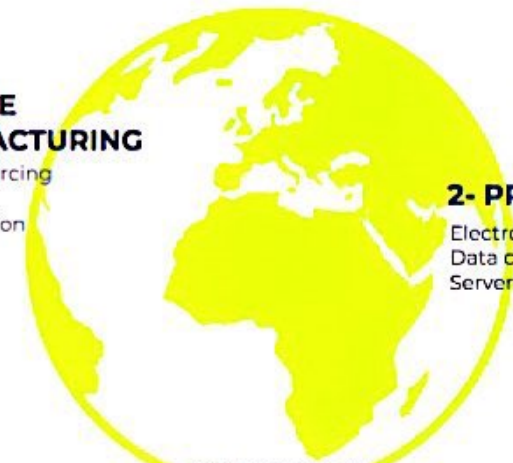
1- DEVICE MANUFACTURING

Material sourcing
Machining
Transportation



2- PRACTICES

Electronic devices
Data centres
Servers



3- E-WASTE

Planned obsolescence
Rubbish dump
Recycling

Electronic waste or e-waste

Is the fastest growing waste stream



Goods

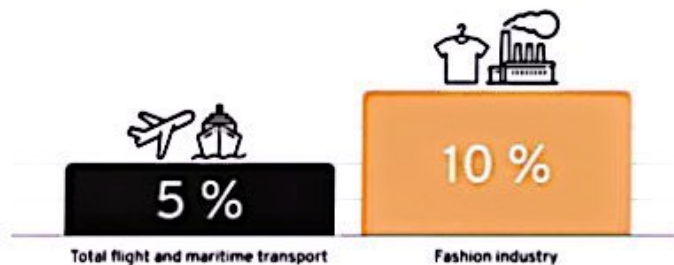
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Fashion Industry

Electronic Industry

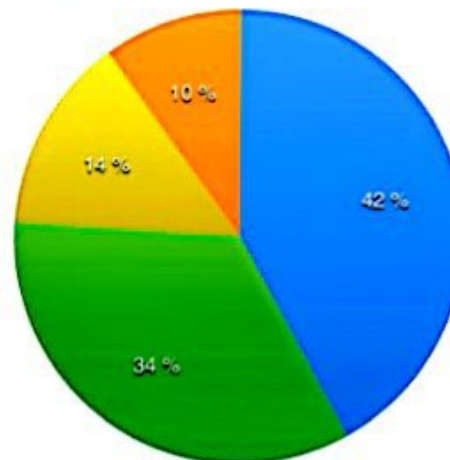
Solution

CO2 consumption in comparison



Legend for CO2 consumption breakdown:

- Large household appliances
- Consumer electronics
- IT Communication and Technology
- Others





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

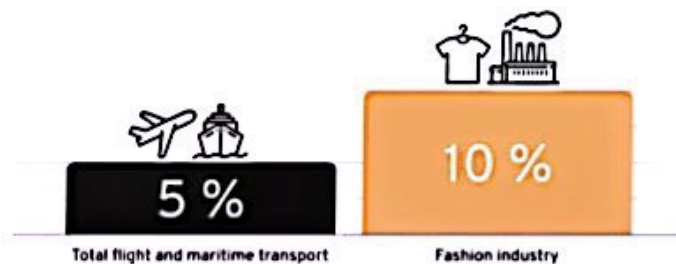
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Fashion Industry

Electronic Industry

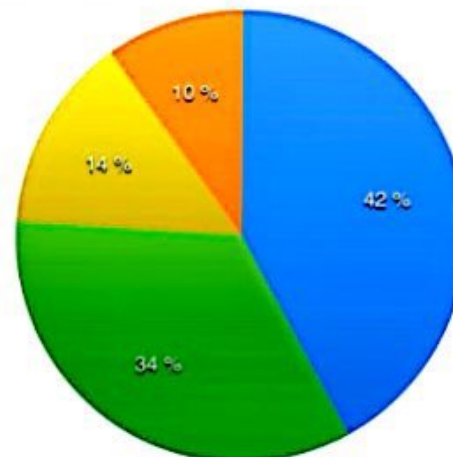
Solution

CO2 consumption in comparison

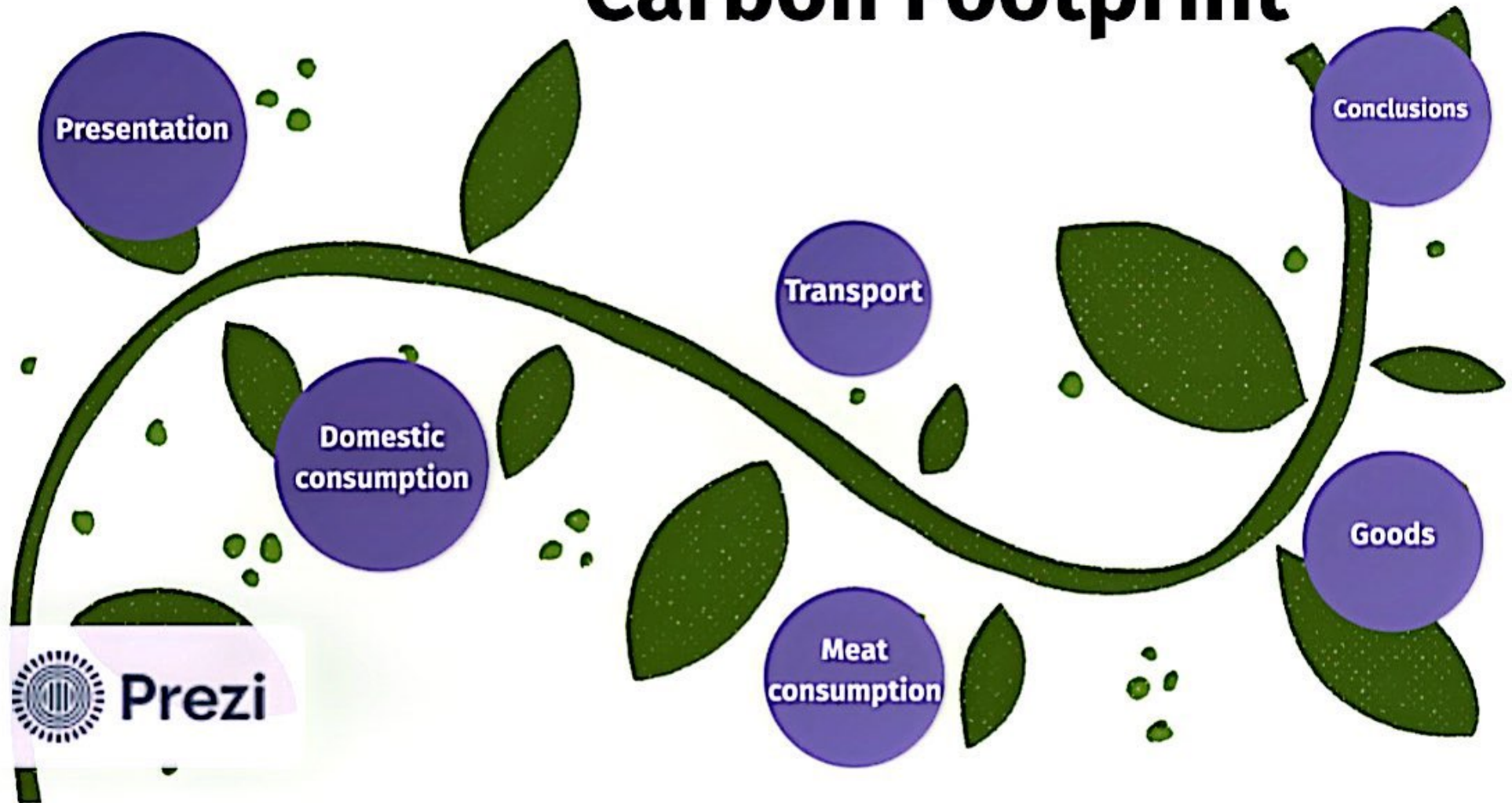


Legend for CO2 consumption breakdown:

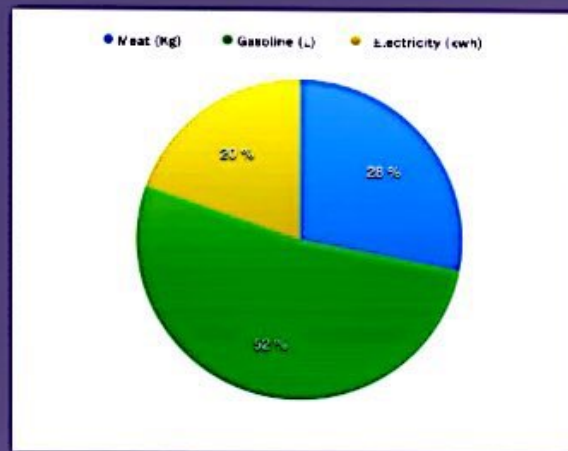
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Carbon Footprint



Conclusions

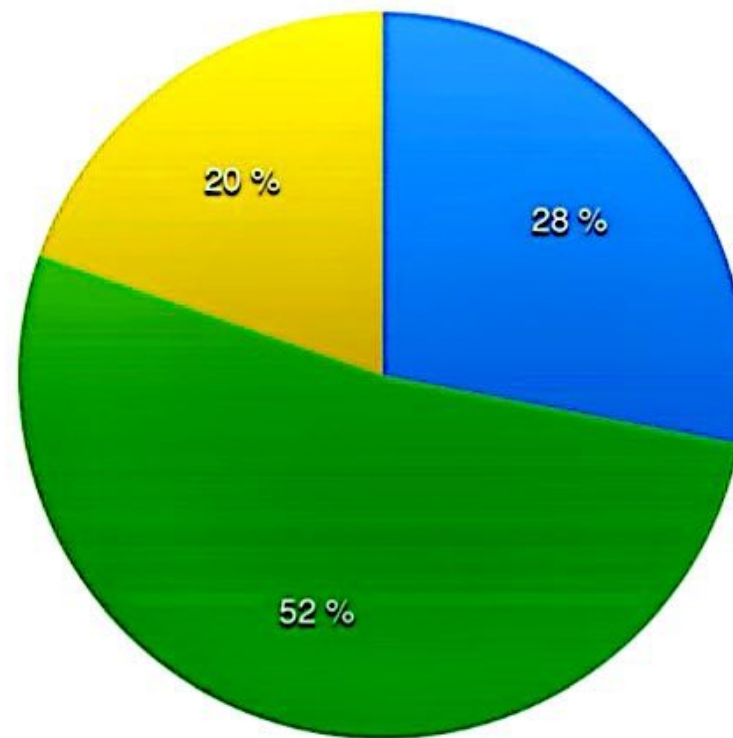


Web
calculators



Prezi

● Meat (Kg) ● Gasoline (L) ● Electricity (kwh)



Prezi

Web Calculators

<https://www.footprintcalculator.org/home>

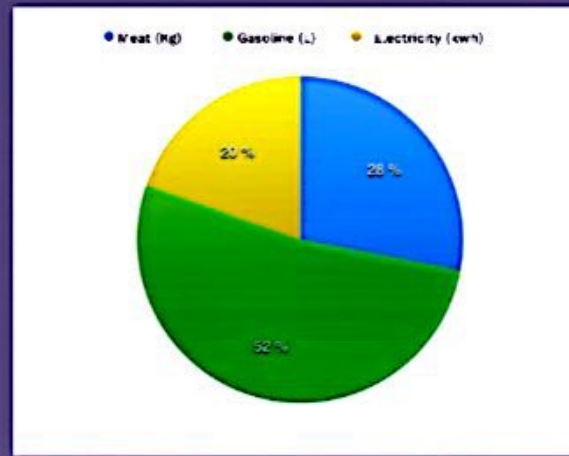
<https://climate.selectra.com/es/calculadora-huella-carbono>

<https://www.ceroco2.org/calculadoras/calculoGEI>



Prezi

Conclusions



Web
calculators



Prezi

Carbon Footprint

