



## **Module Two**

# **Policy and Footprint**

## **The Policy Position**

**What is a Carbon Footprint**



# How action on climate sits within society





# The policy cascade



International  
*United Nations*



National  
*UK Government*

GREATER  
LONDON  
AUTHORITY



Regional  
*Greater London  
Authority*



Organisational  
*Transport for London*





# International policy: The Paris Climate Agreement

The Paris Agreement was negotiated at COP21 in 2015.

Universal (includes almost all countries)

Aims to hold “the increase in ... temperature to well below 2°C  
... and to pursue efforts to limit the temperature increase to  
1.5°C”



PARIS2015  
UN CLIMATE CHANGE CONFERENCE  
COP21·CMP11





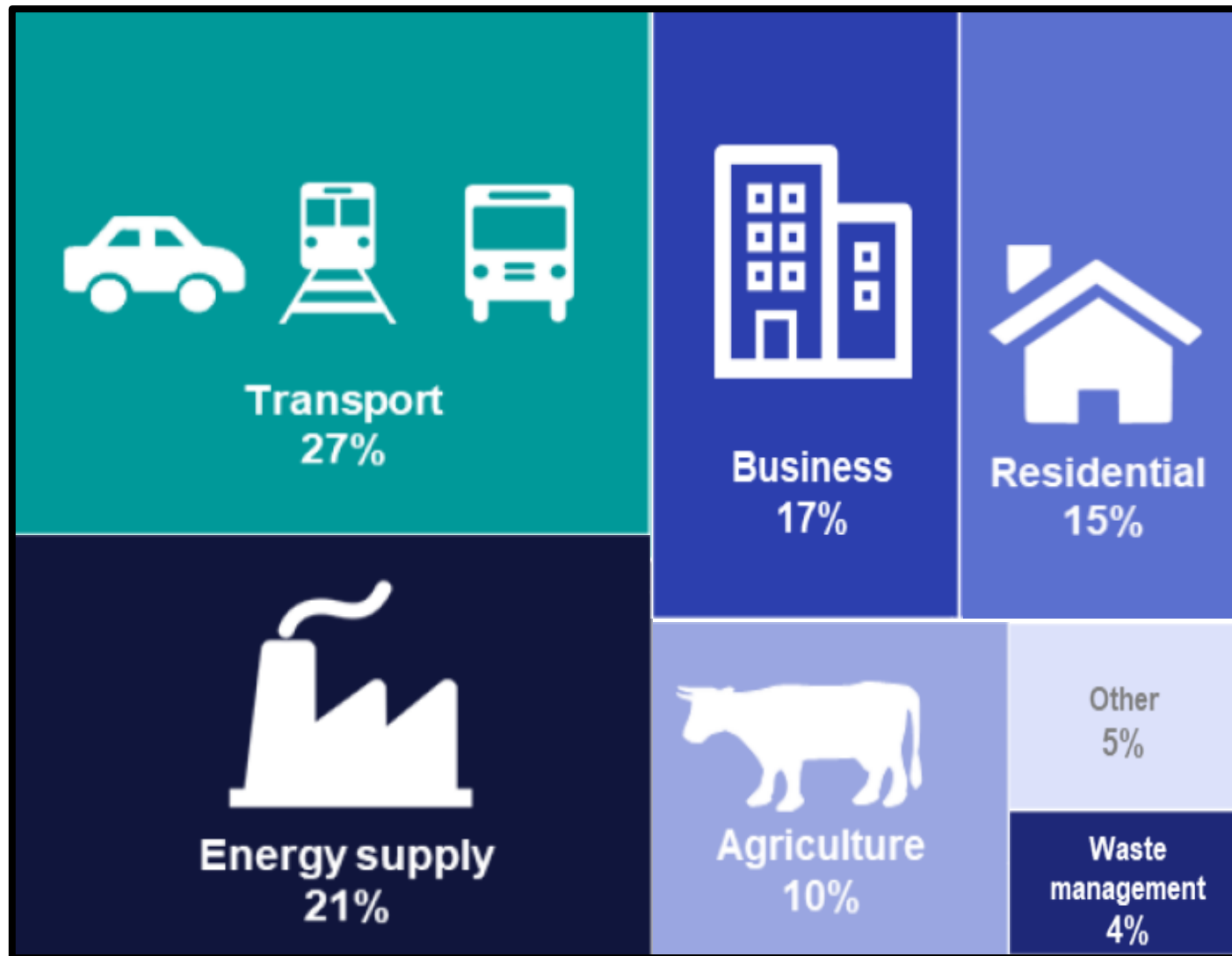
# The UK's position on climate change

The UK is committed by law to be Net Zero by 2050





# UK Greenhouse Gas Emissions



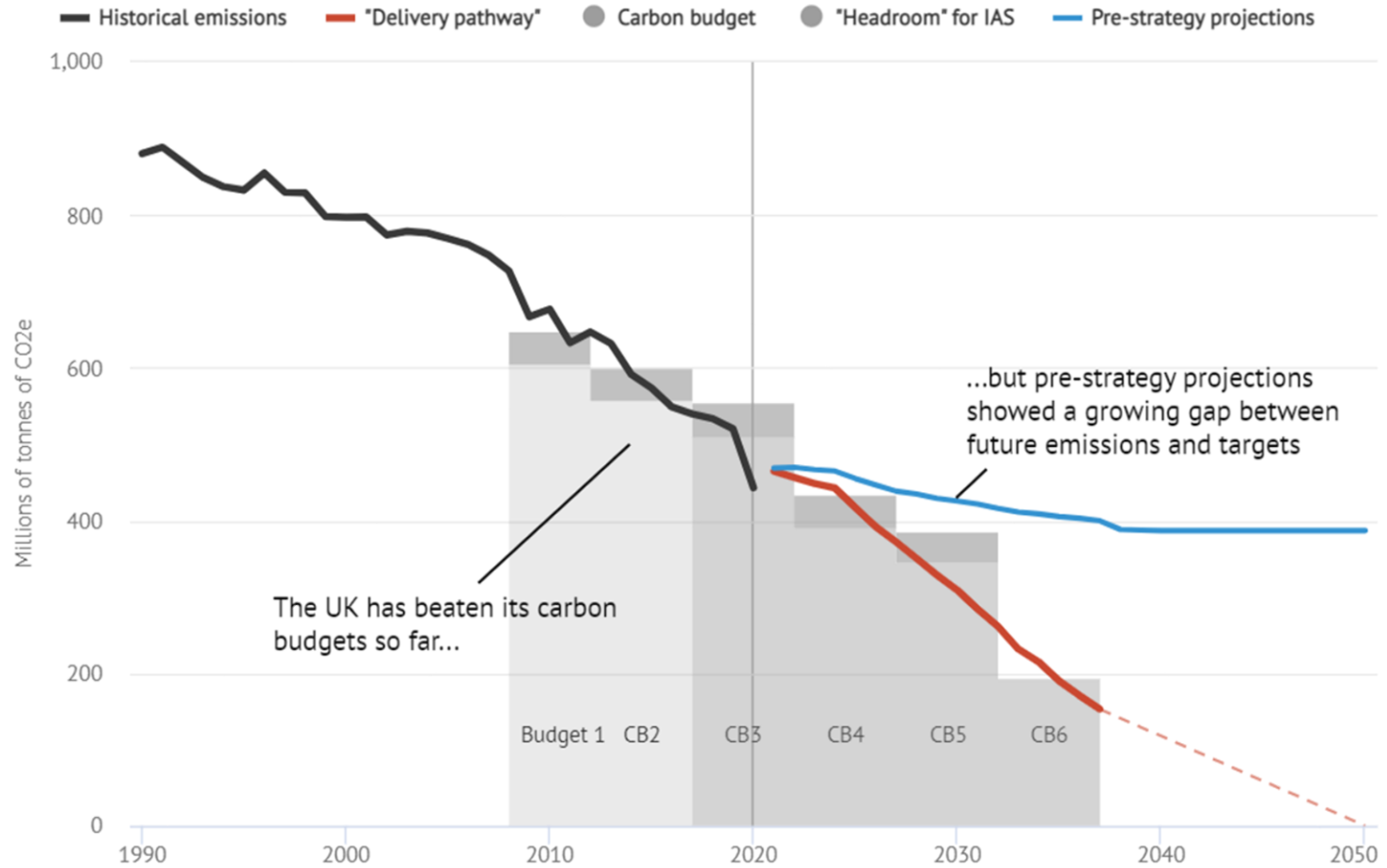




# Current UK progress

The UK net-zero strategy sets a **"delivery pathway"** to meeting its climate targets

Pre-strategy projections had suggested the UK would miss its fourth, fifth or sixth carbon budgets

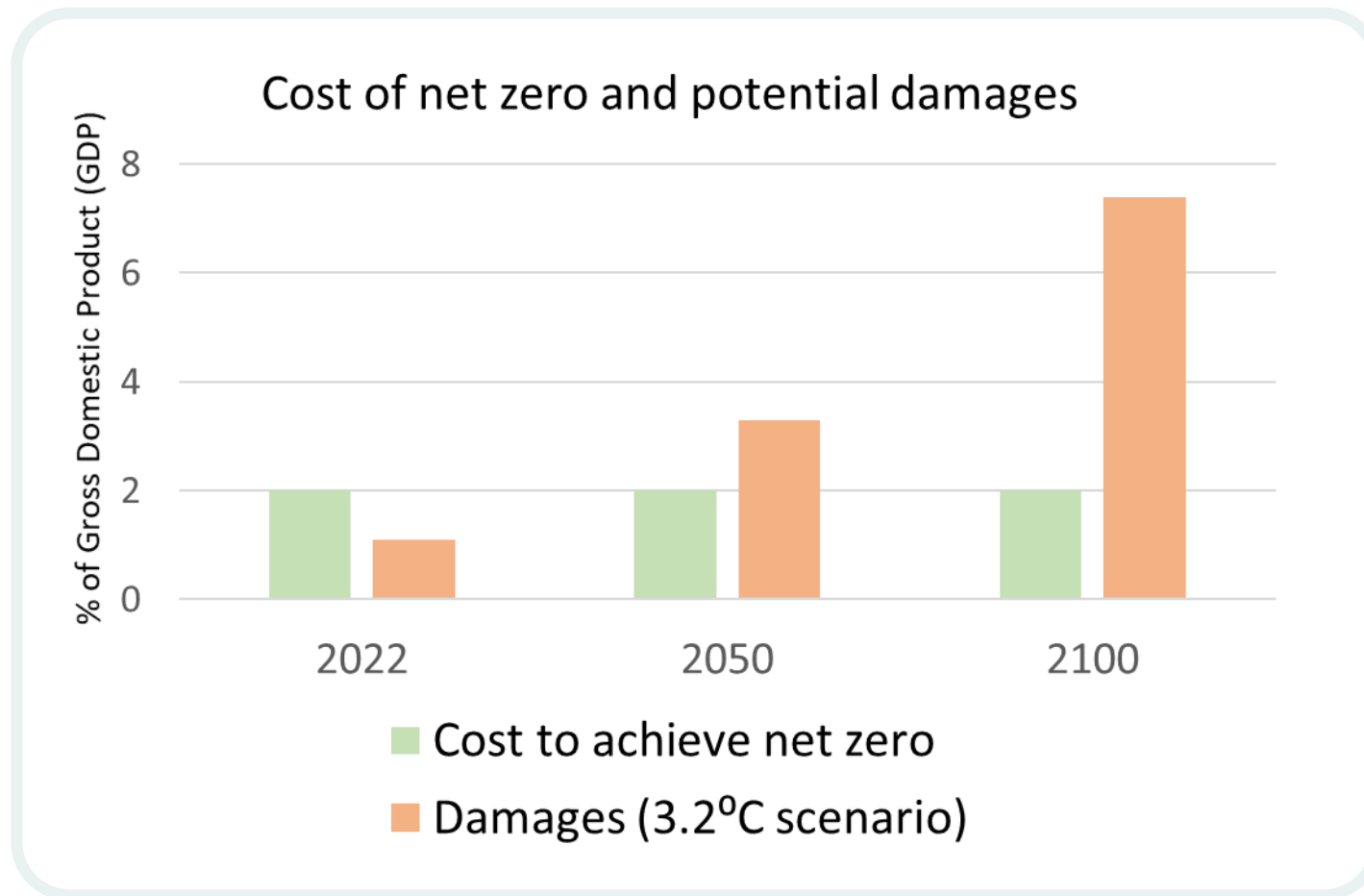


The UK has beaten its carbon budgets so far...

...but pre-strategy projections showed a growing gap between future emissions and targets

# Cost of reaching net zero emissions in the UK

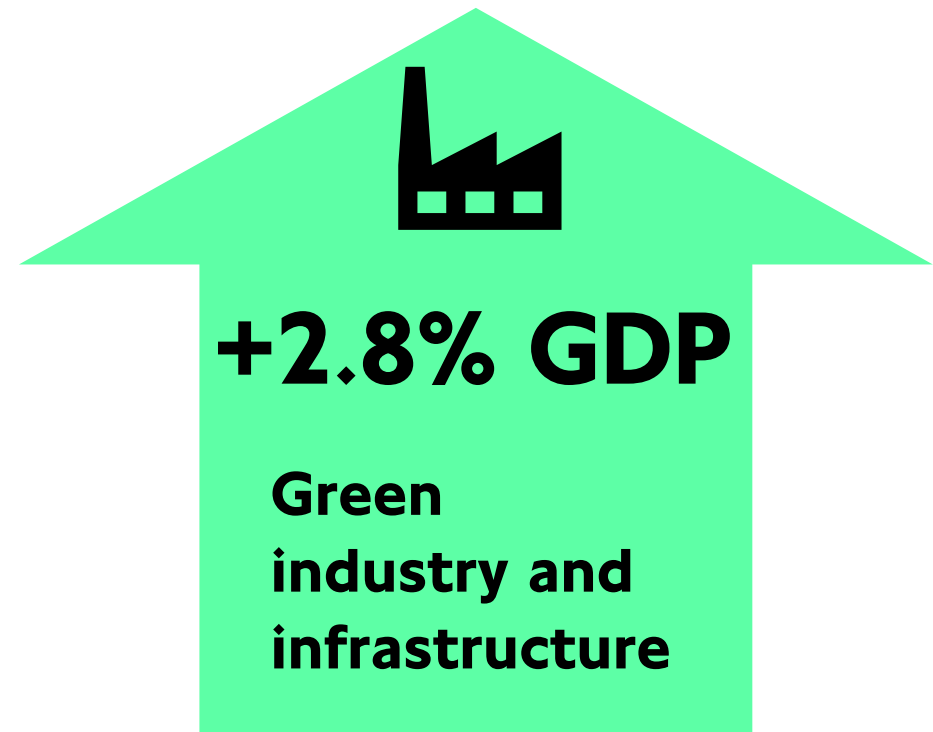
*“Research consistently estimates that the direct costs of transitioning to net zero for the UK are unlikely to exceed 2% of GDP”*





# Co-benefits of net zero

*“Climate mitigation policies also bring additional benefits, which in turn have a positive impact on GDP”*





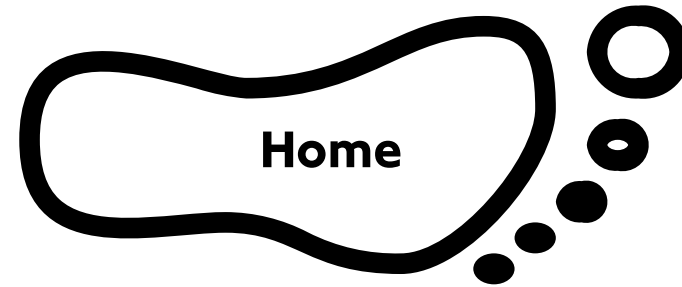
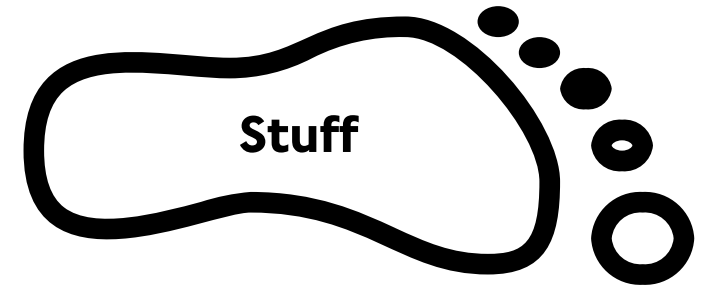
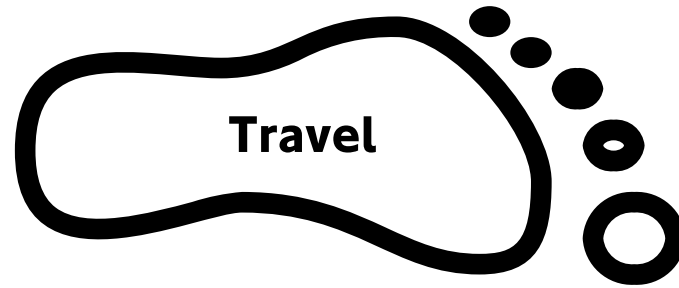
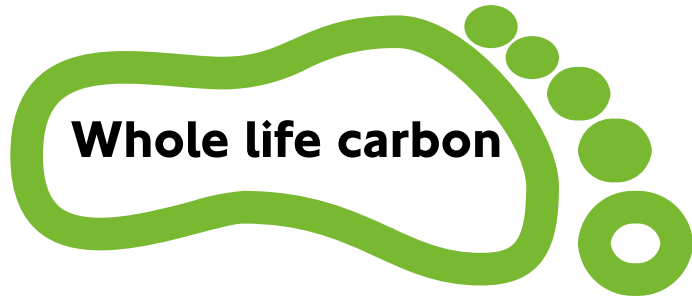
# Module Two Policy and Footprint

The Policy Position

What is a Carbon Footprint



# What is a carbon footprint?





# What is a carbon footprint?

A measure of the amount of greenhouse gases released to the atmosphere as a result of our activities.

We can calculate the carbon footprint of anything:

individuals, organisations, events, products, projects, cities, or countries...



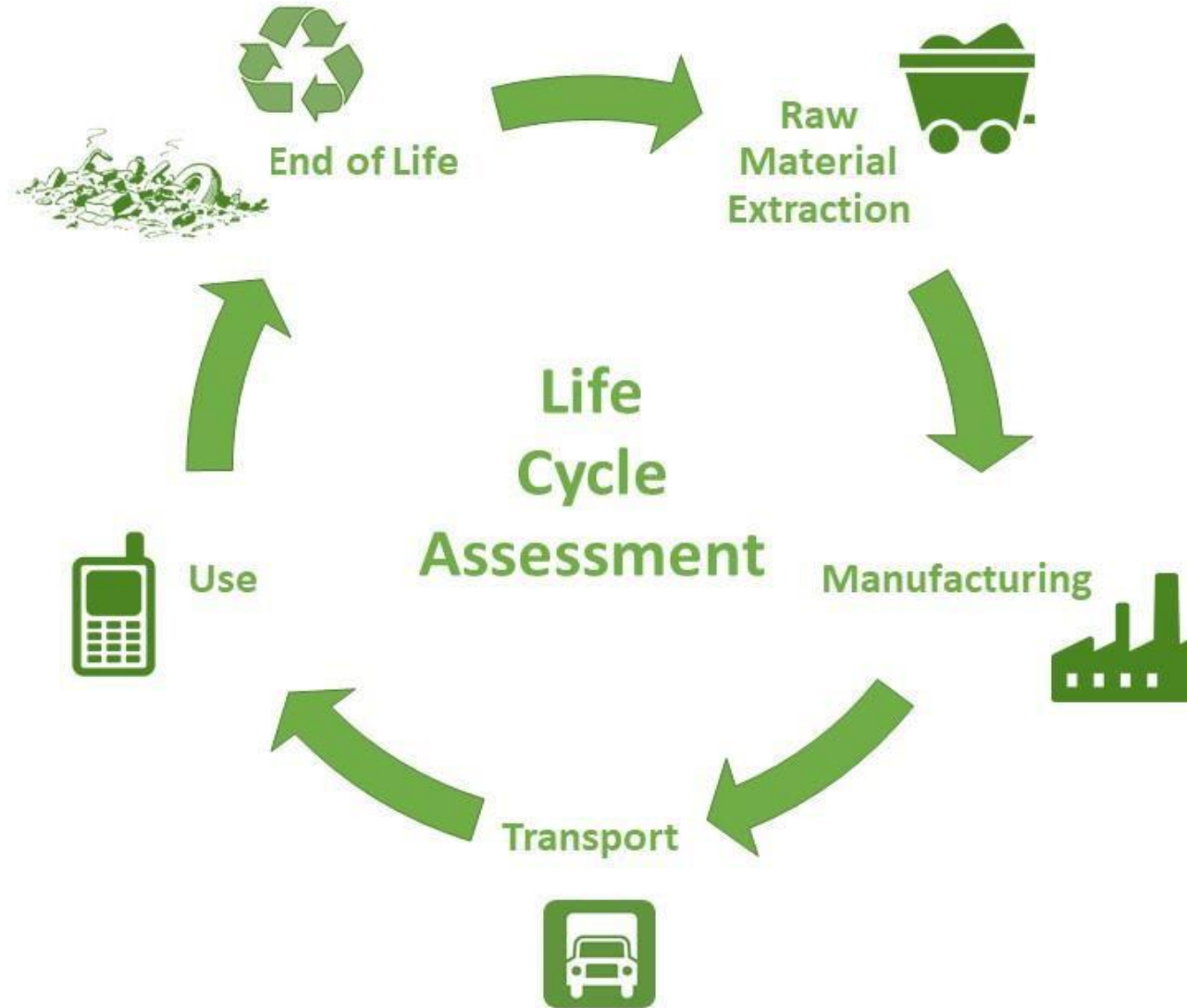
**'Carbon'** is used as shorthand for all greenhouse gases. It is quantified as tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e)





# Everything has a carbon footprint

'Whole life carbon' of a product



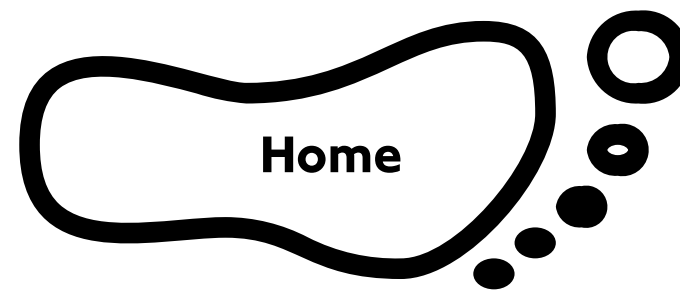
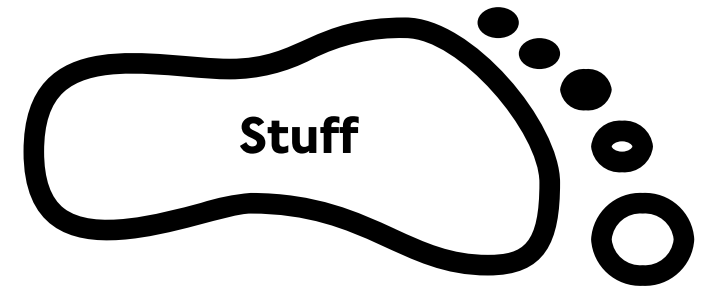
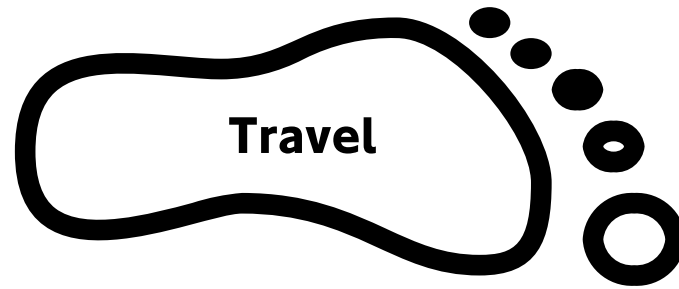
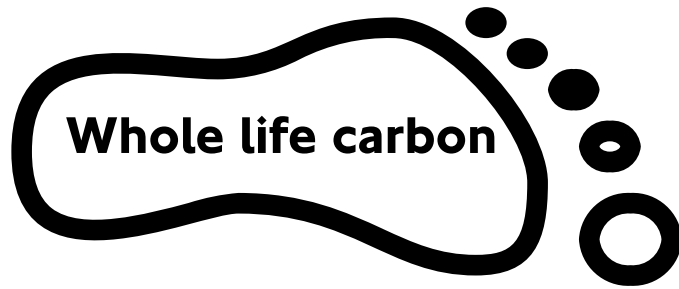
# Activity: Your Carbon Footprint calculator

Review results of the [WWF calculator](#) (carbon footprint calculator)





# What is a carbon footprint?

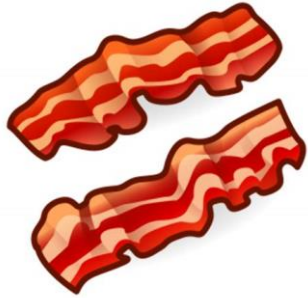






## Activity: The Carbon Footprint of Food

Order the food from lowest footprint (1) to highest footprint (8)



Pork



Eggs



Tofu



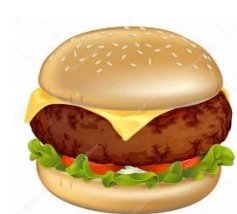
Lamb



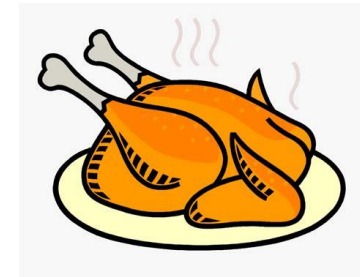
Pulses & Lentils



Fish (farmed)



Beef



Chicken



# Activity: The Carbon Footprint of Food

1



Pulses & Lentils

2



Tofu

3



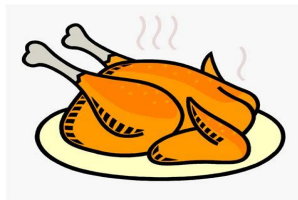
Eggs

4



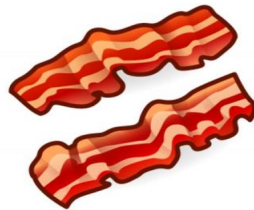
Fish (farmed)

5



Chicken

6



Pork

7



Lamb

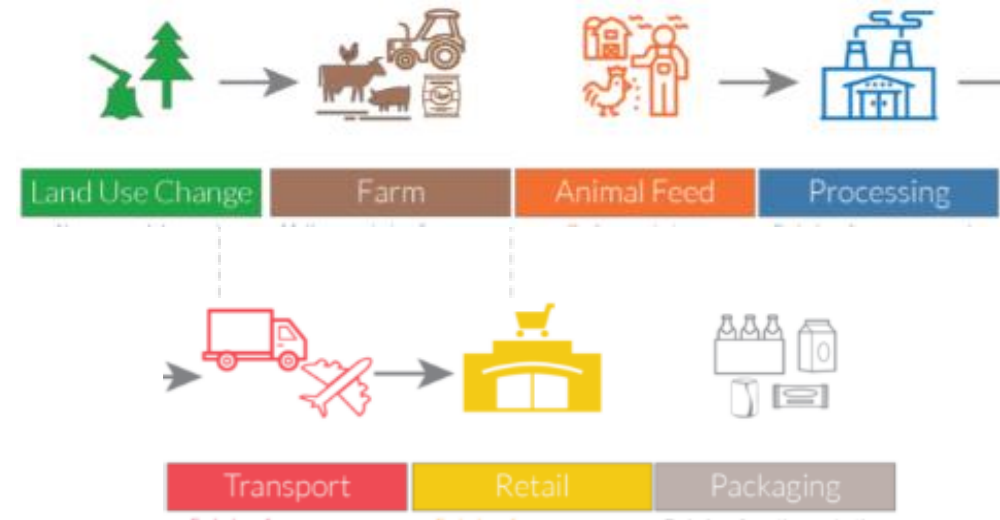
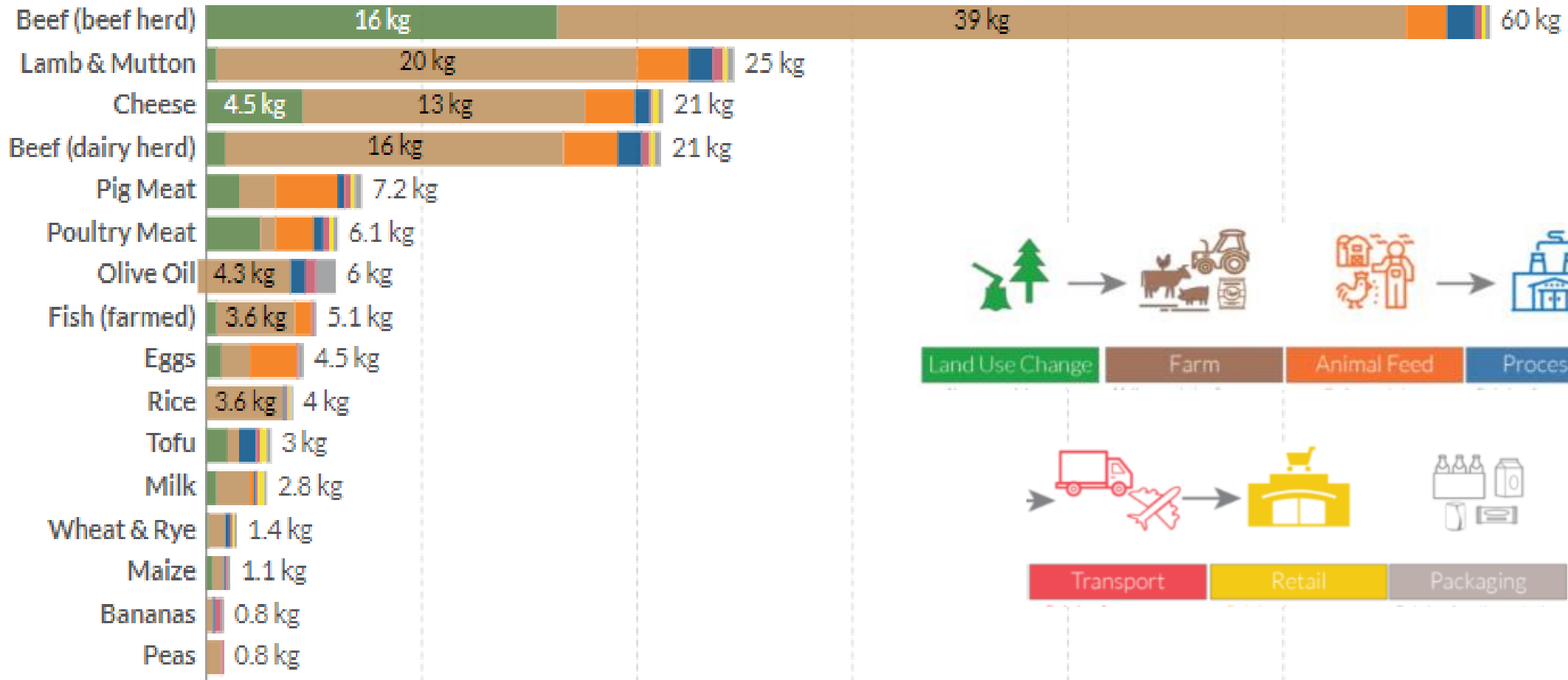
8



Beef



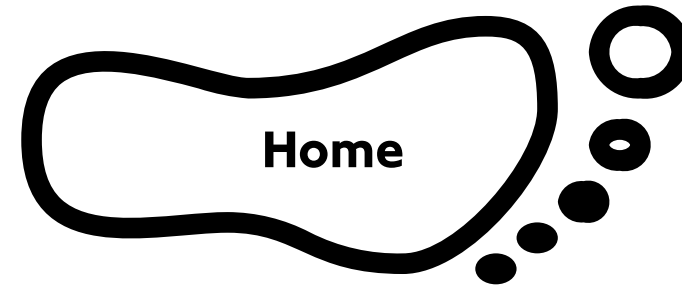
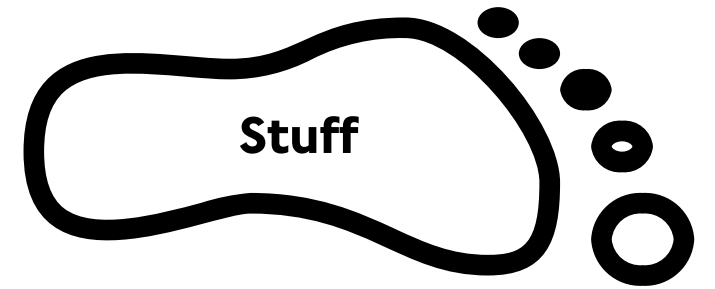
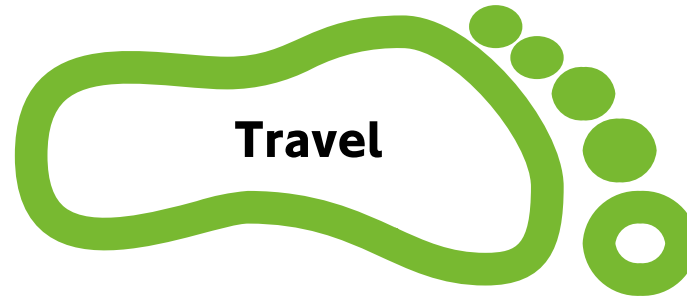
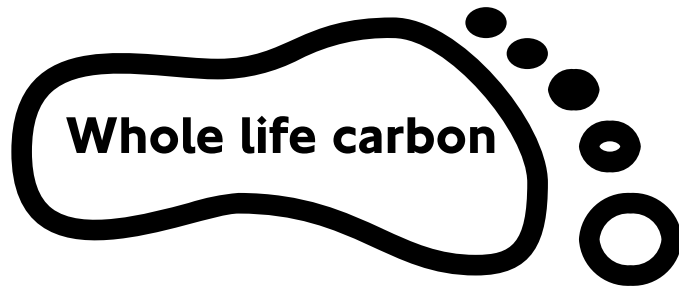
■ Land use change  
 ■ Farm  
 ■ Animal feed  
 ■ Processing  
 ■ Transport  
 ■ Retail  
 ■ Packaging



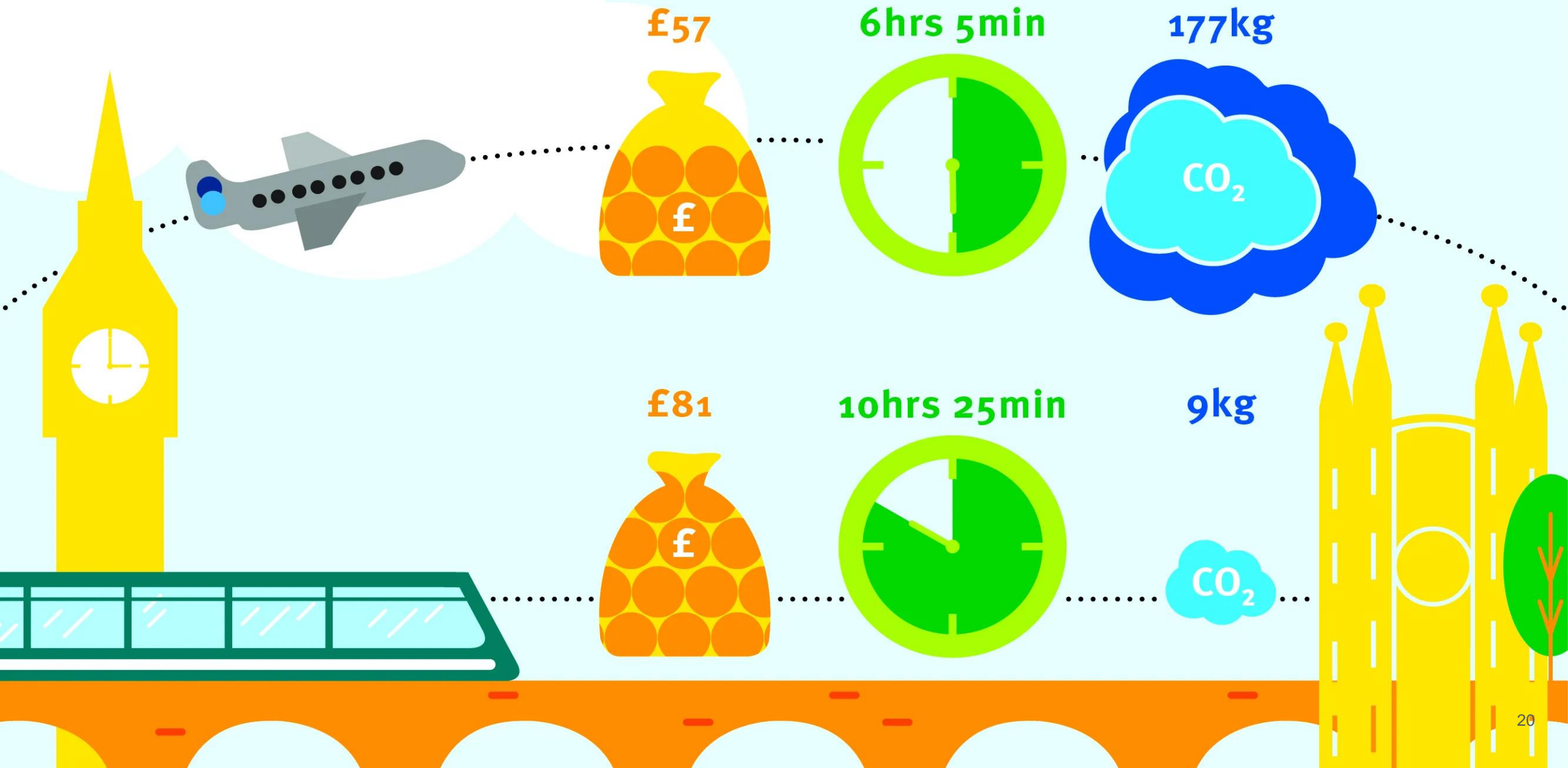
0 kg      10 kg      20 kg      30 kg      40 kg      50 kg



# What is a carbon footprint?



# Single journey from London to Barcelona

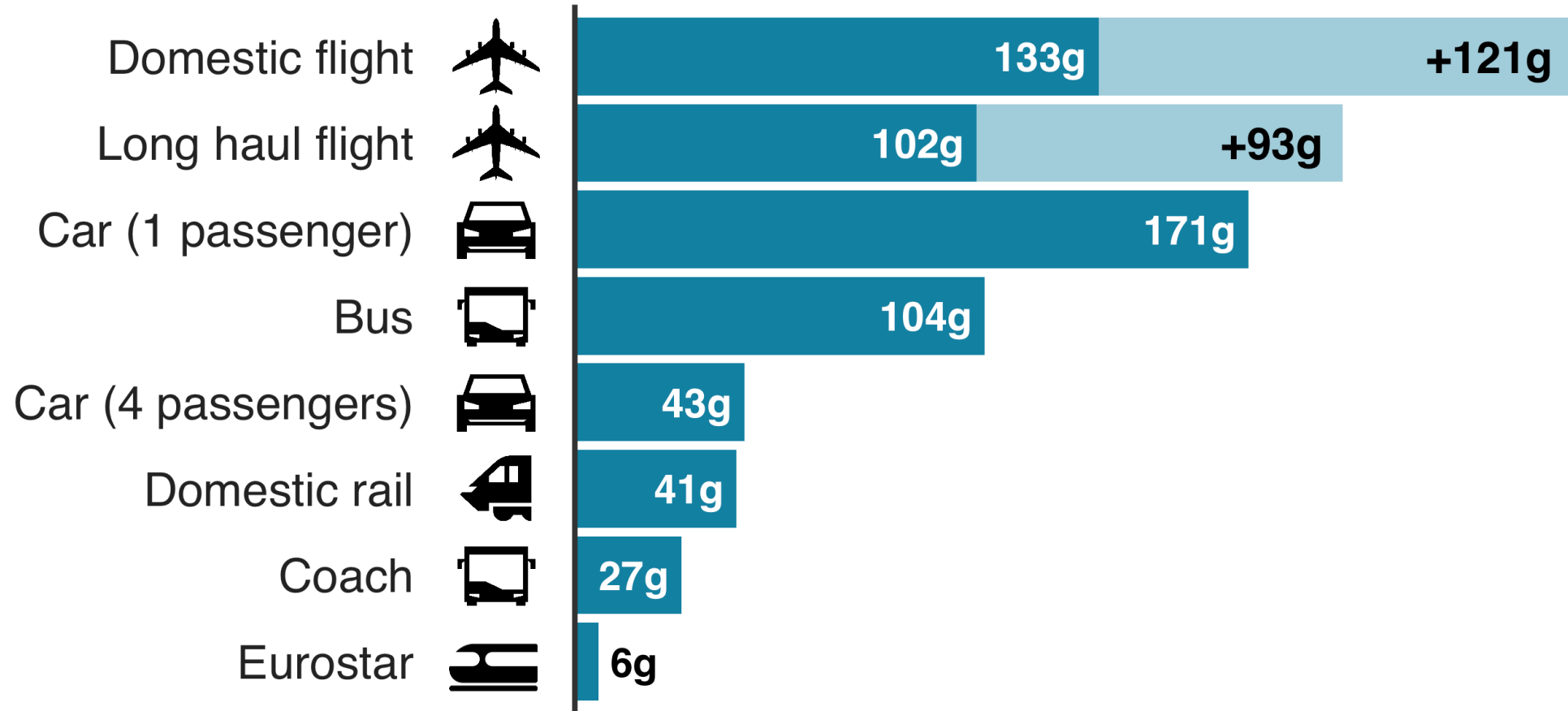




# Emissions from different modes of transport

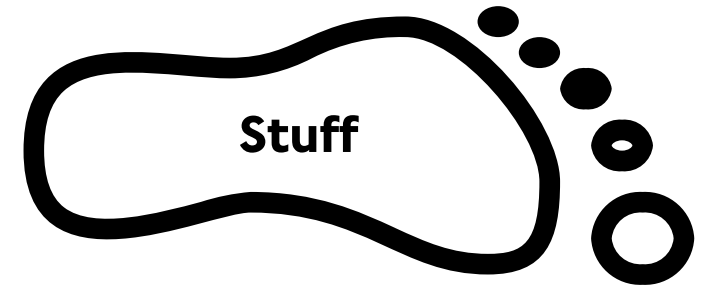
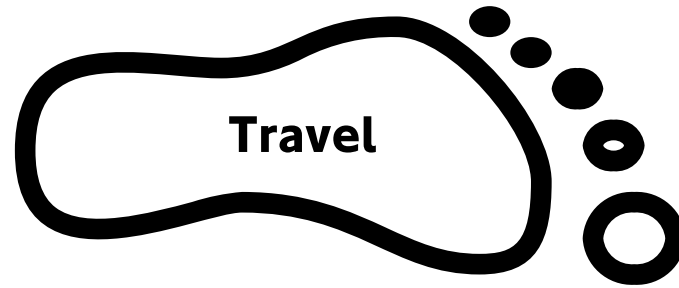
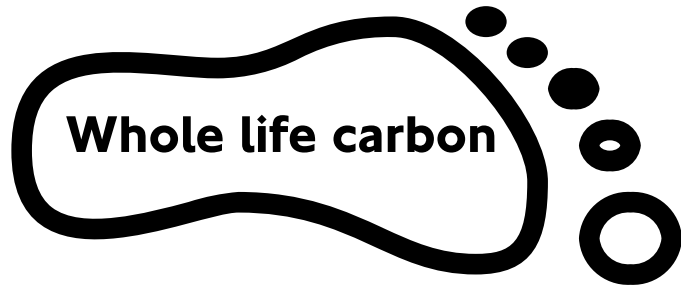
Emissions per passenger per km travelled

■ CO2 emissions ■ Secondary effects from high altitude, non-CO2 emissions





# What is a carbon footprint?





# Carbon saving habits

Notice all suggestions save money in the long run!



Turn appliances off when not in use

When you replace white goods, check the energy rating



Hot water  
Take 2 minute showers



Make things last  
repair, upcycle,  
borrow

Washing: do full loads, avoid tumble drying

Wash at low temperatures  
Clothes and dishes

Switch to a renewable energy provider



Central heating  
Turn your thermostat down, use a timer, keep doors shut, put on an extra layer



Don't overfill the kettle





# Carbon saving upgrades

Electric heat pump



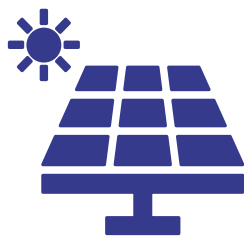
Install double glazing



Draught proofing  
Block up holes,  
use brush fittings  
on bottom of  
doors/ letterbox



Solar panels



Replace gas hob  
with  
induction

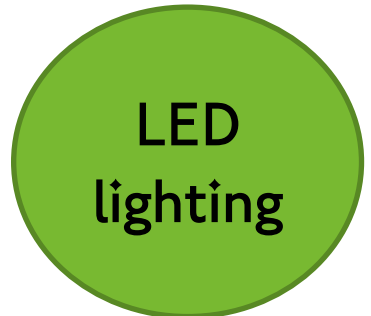


Smart heating  
controls  
Individual  
radiator  
control, heating  
apps



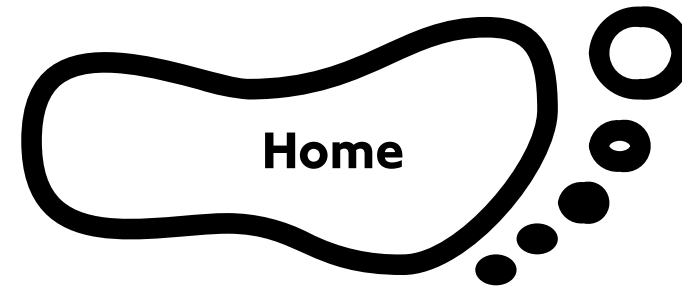
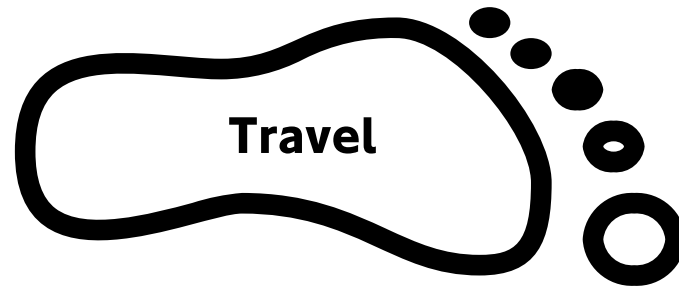
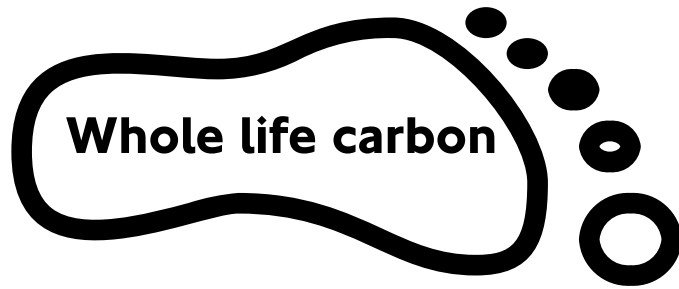
Insulation  
loft / cavity  
wall

LED  
lighting



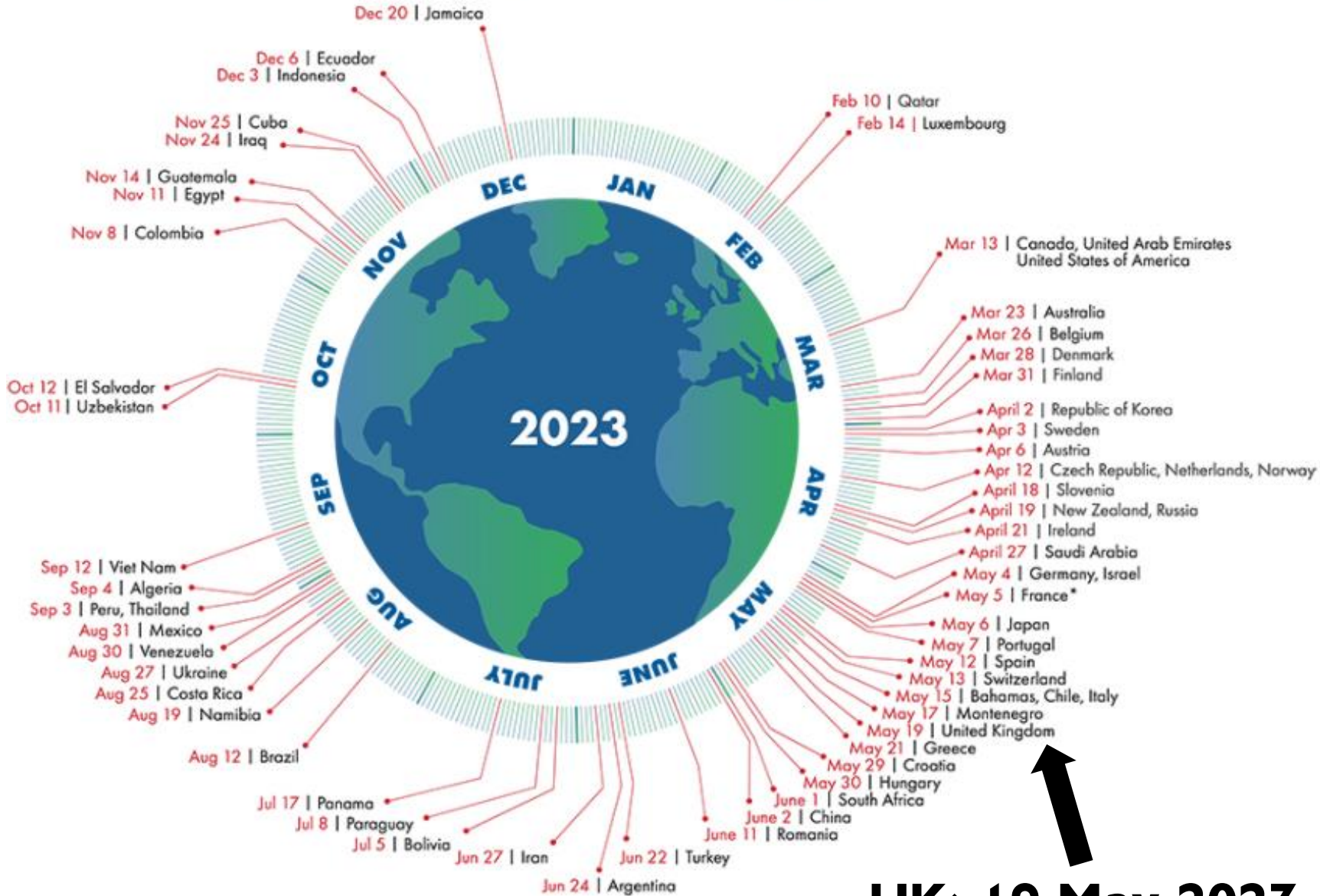


# What is a carbon footprint?



# Country Overshoot Days 2023

When would Earth Overshoot Day land if the world's population lived like...



**UK: 19 May 2023**

If everyone consumed like us, we would use over 2.5 earths' worth of resources each year

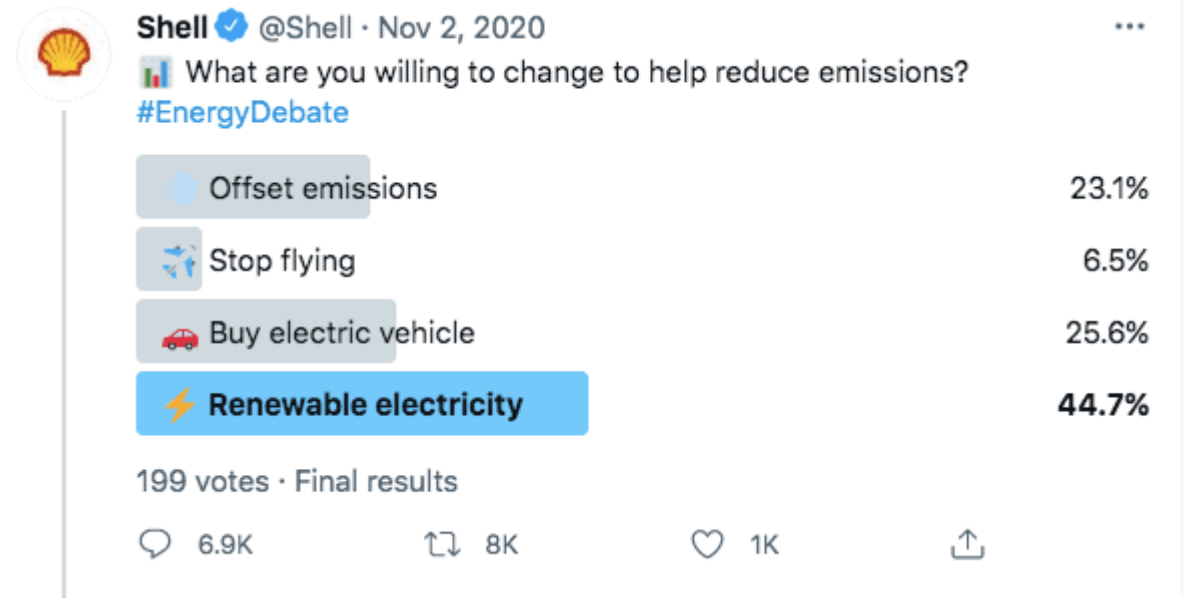




# Greenwashing – do your research!



Carbon Literacy Project



**You have done everything you can think of and your carbon footprint is still higher than you would like...**

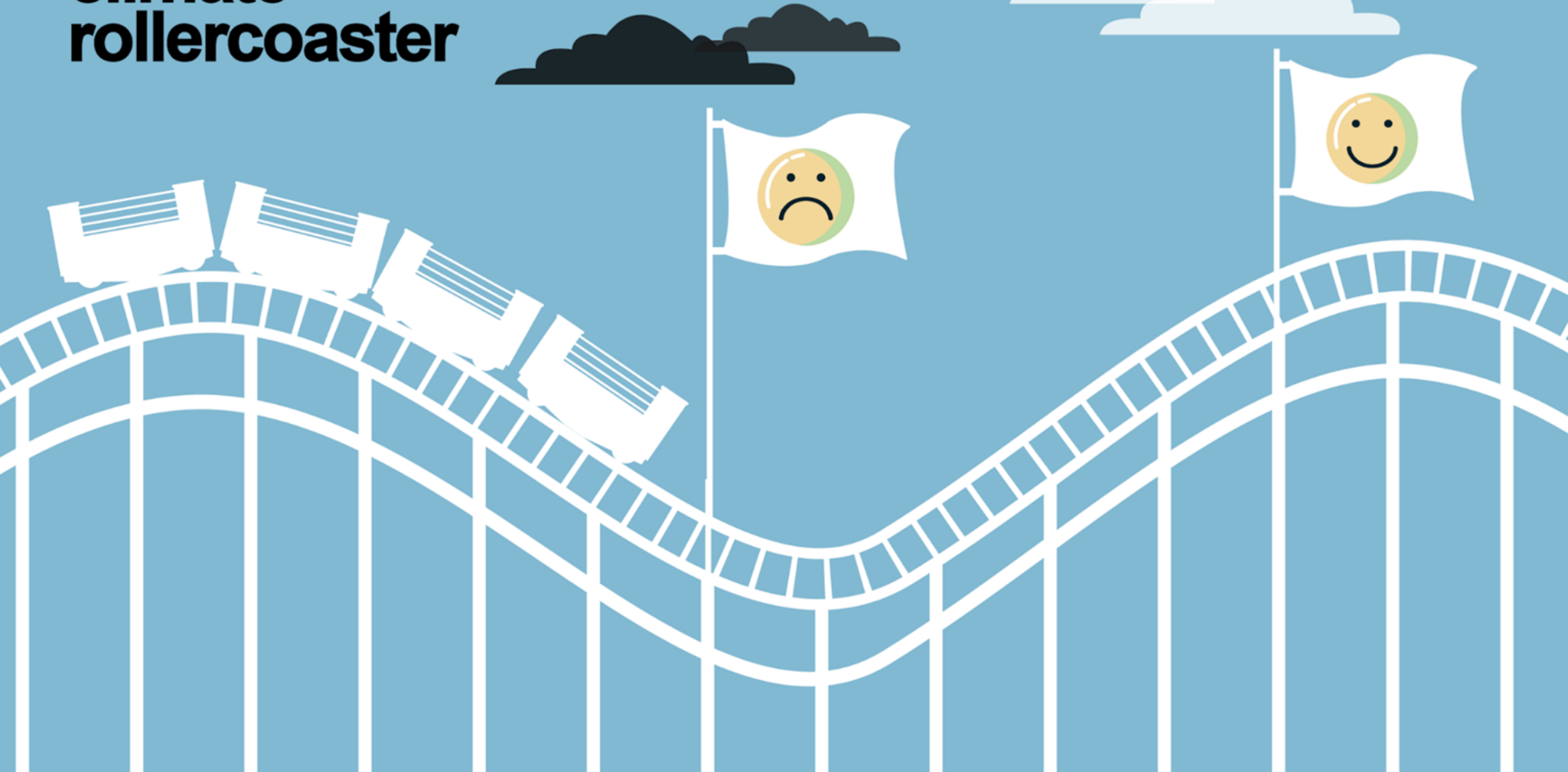
**Why?**

**How do we create system change?**



**climate  
rollercoaster**

**Check in (board)**







# Where you can go for help



## Sustainability Network



Health and Wellbeing

Employee Assistance  
Programme



THE CARBON FOOTPRINT  
OF EVERYTHING

MIKE BERNERS-LEE

NEW EDITION – UPDATED AND EXPANDED



# Lunch

