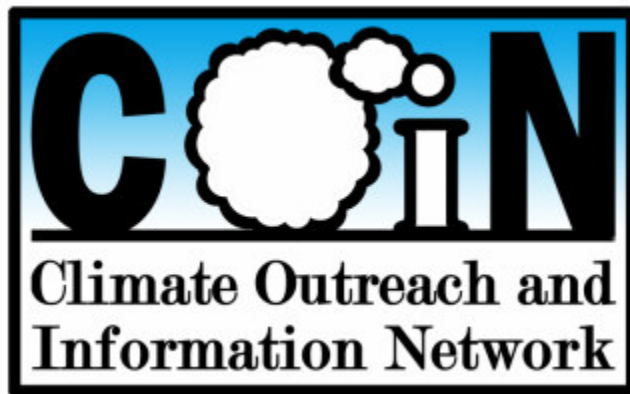


# Causes and Issues

## Women's Institute Window of Opportunity Competition- Nov 3<sup>rd</sup> 2007

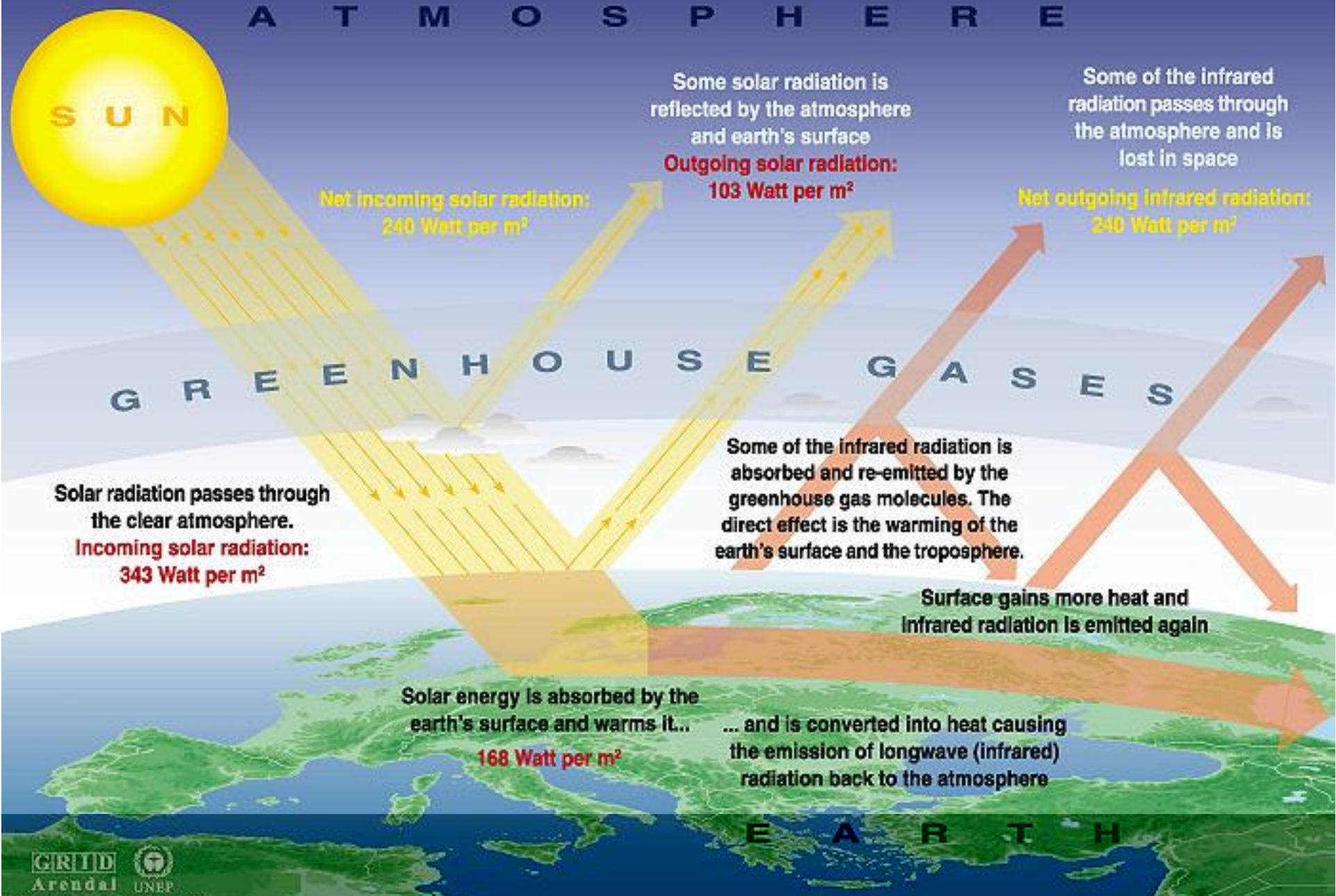


**George Marshall,  
Executive Director**

**Climate Outreach Information  
Network**

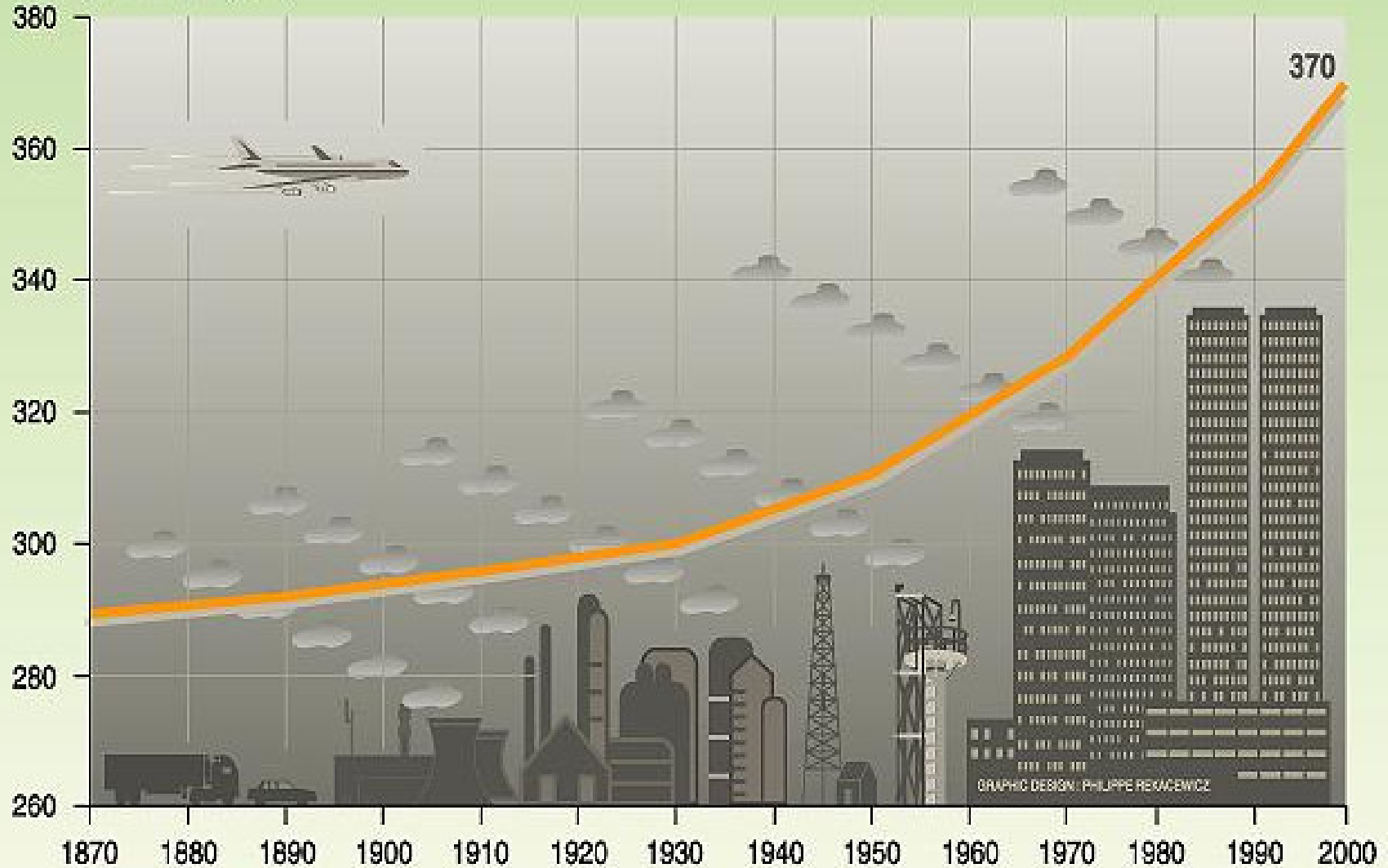
**Oxford UK**

# The Greenhouse effect



# Atmospheric Concentrations of Carbon Dioxide

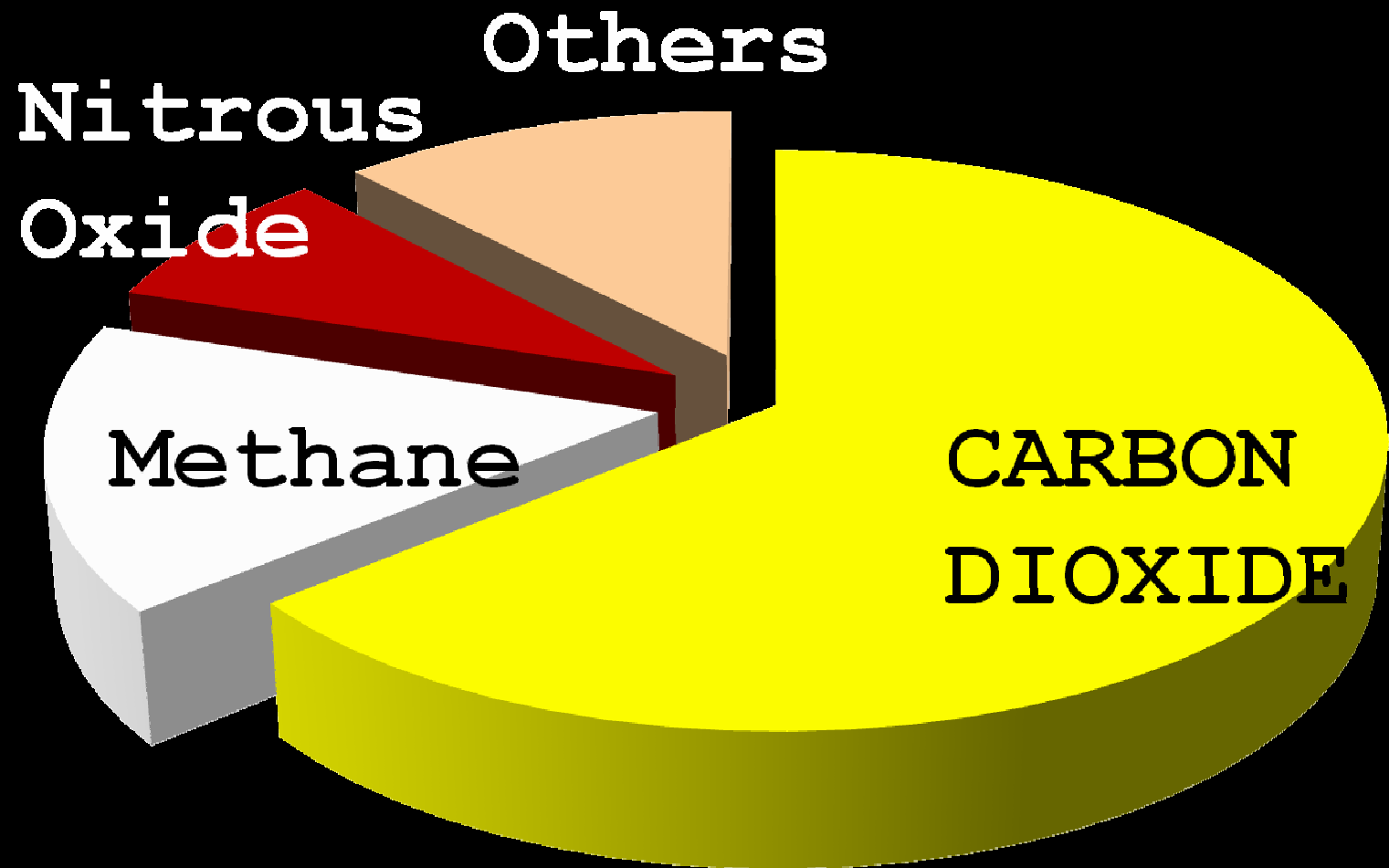
Parts per million (ppm)

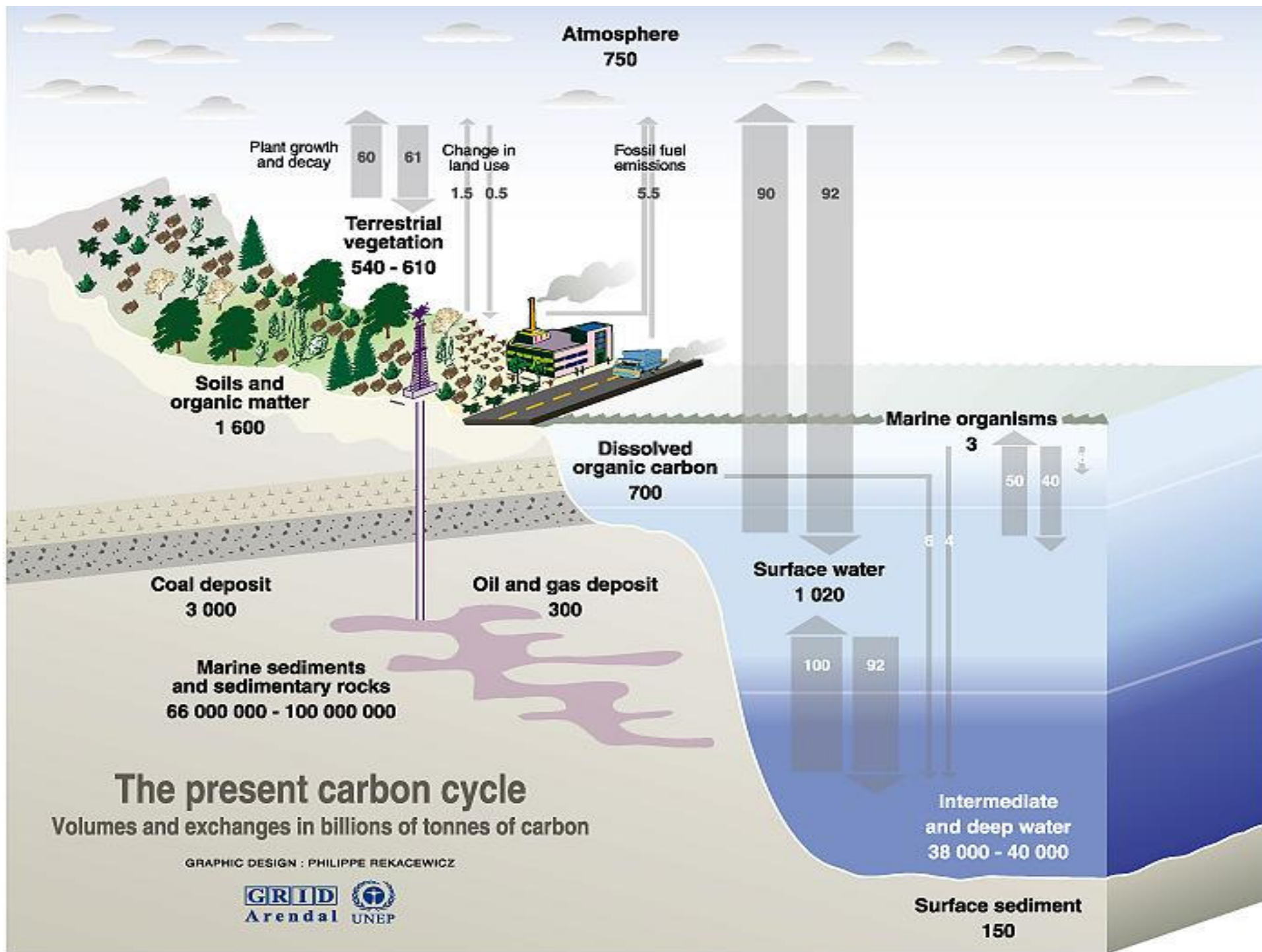


GRID Arendal UNEP

Sources: TP Whorf Scripps, Mauna Loa Observatory, Hawaii, Institution of oceanography (SIO), university of California La Jolla, California, United States, 1999

# DIFFERENT GAS CONTRIBUTIONS TO TOTAL GLOBAL WARMING

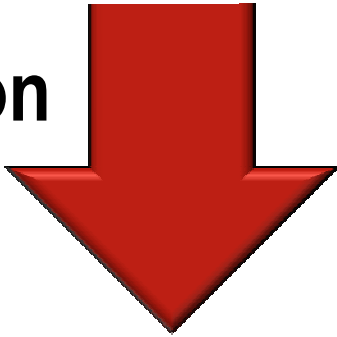




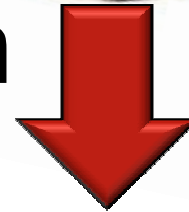
# The carbon bath



20 billion  
tonnes  
Carbon  
Dioxide  
Per  
Year



10 billion  
tonnes  
Carbon  
Dioxide



# What does this target mean for the UK ?

## TARGET

## TONNES CO2

Average UK emissions per person

**12.5**

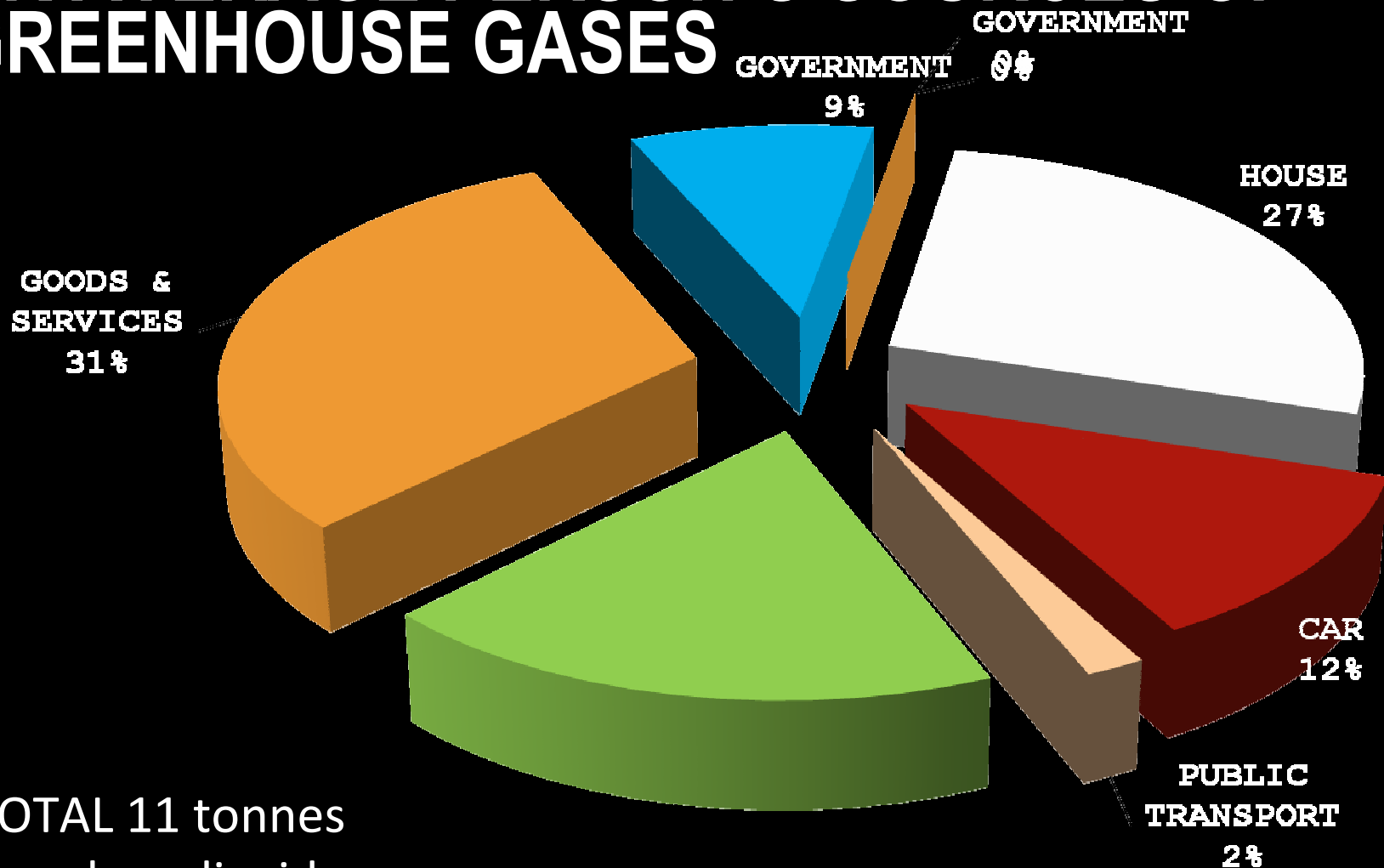
Current UK government target  
60% reduction by 2050

**5**

Equal global per capita shares

**1.5**

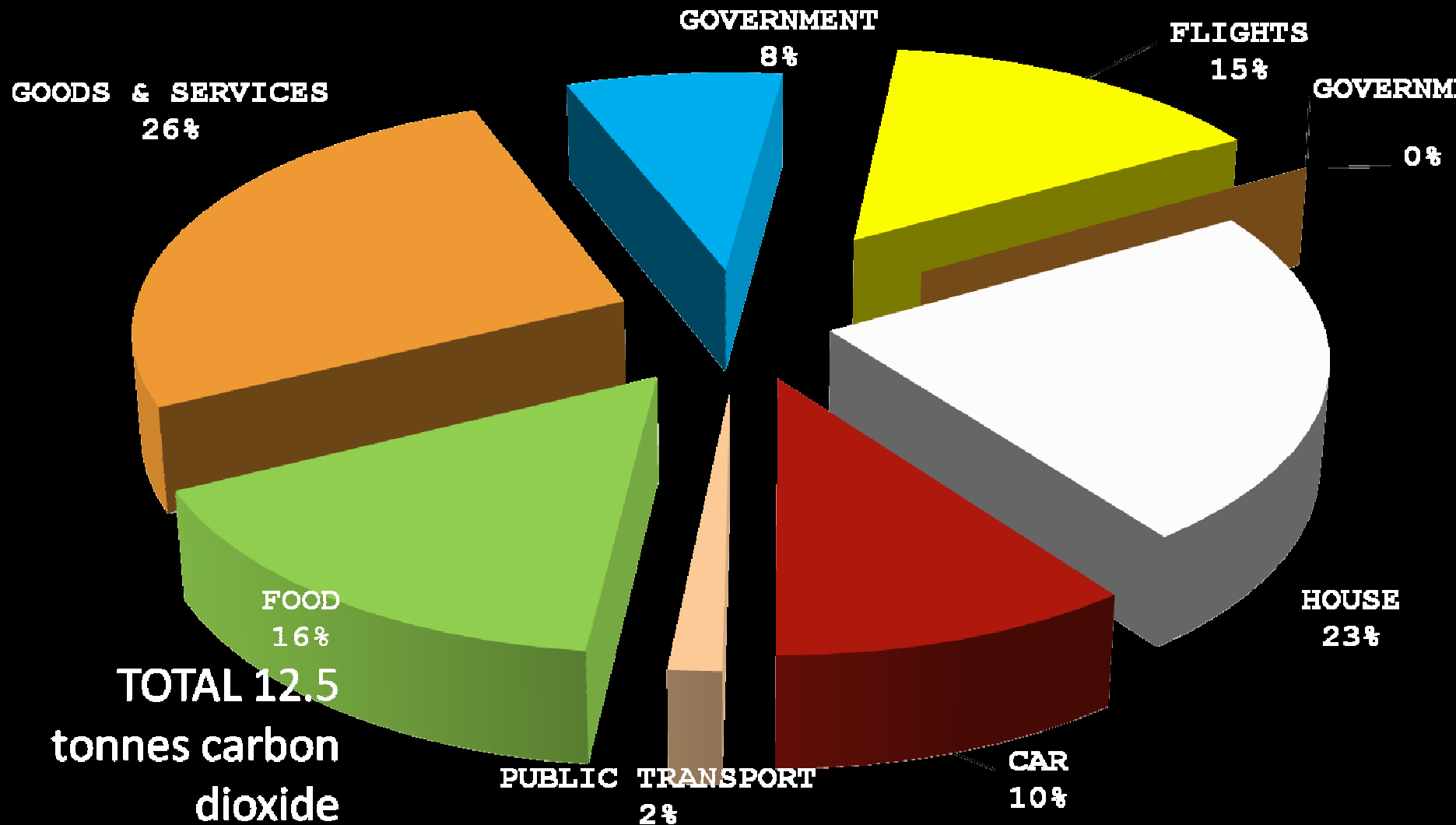
# UK AVERAGE PERSON'S SOURCES OF GREENHOUSE GASES



TOTAL 11 tonnes  
carbon dioxide  
equivalent per  
year

All Greenhouse gases  
converted to CO2  
equivalent

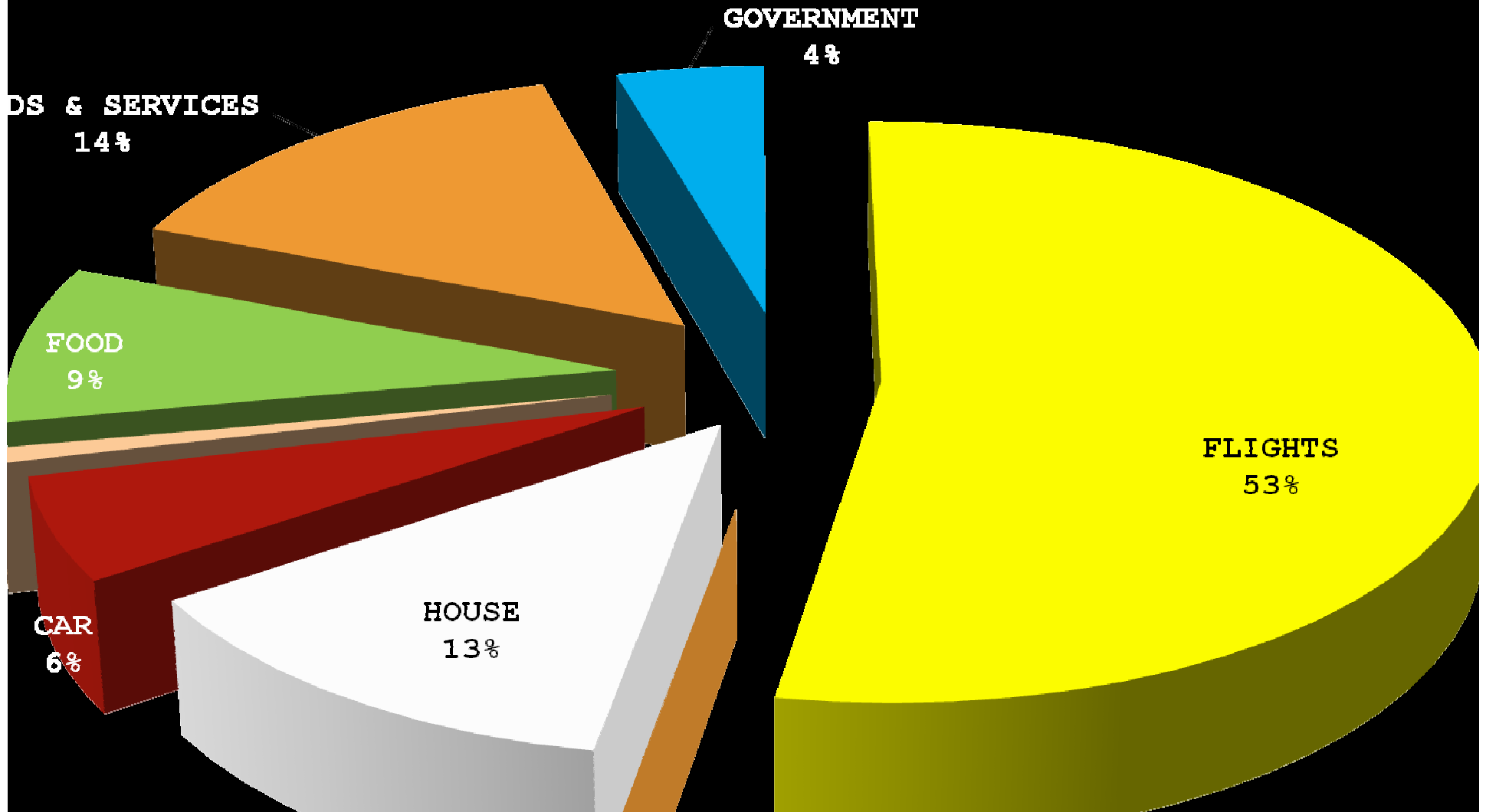
# AVERAGE EMISSIONS WITH FLIGHTS



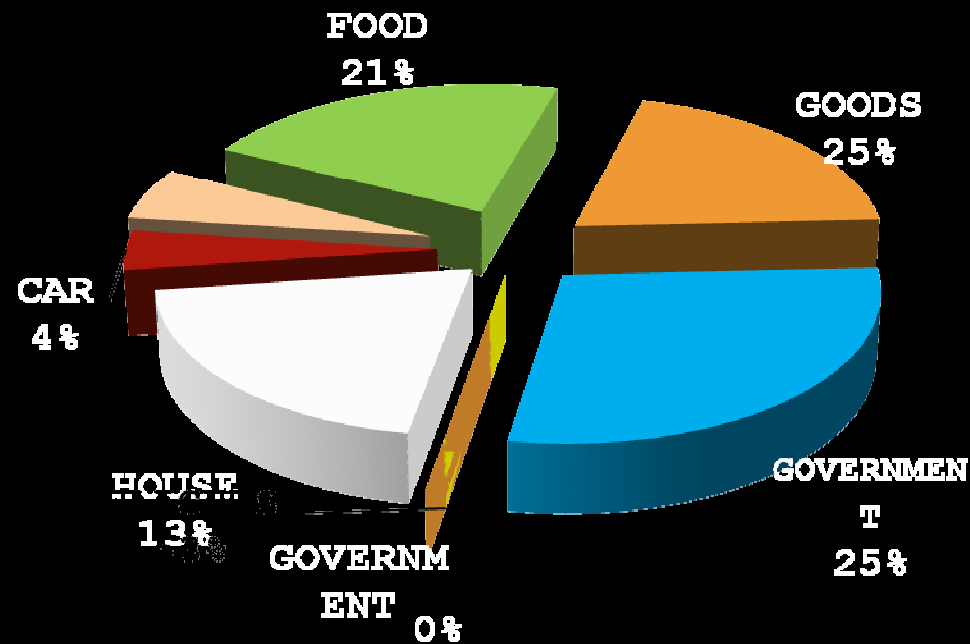
**TOTAL 12.5**  
tonnes carbon  
dioxide  
equivalent per  
year

2006- Greenhouse gases  
converted to CO2 equivalent

# AVERAGE EMISSIONS + RETURN FLIGHT TO AUSTRALIA



# GEORGE MARSHALL AND FAMILY EMISSIONS



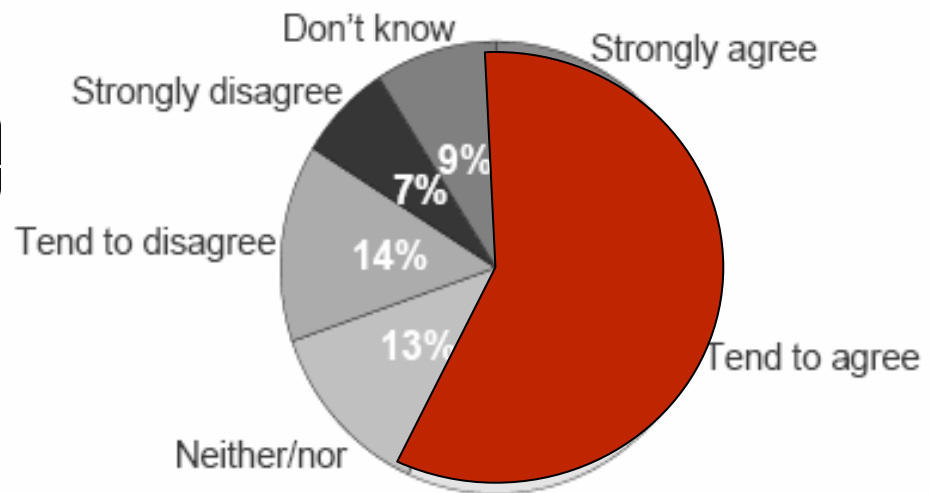
**EMISSIONS- 2.2 tonnes per person**

# QUESTION: would you agree..

*"many leading experts still question if human activity is contributing to climate change"*

**56% of THE UK public agree**

**So, what is the level of certainty for the science?**



How many is 2,500?

2,500 climate scientists write the findings of the  
Intergovernmental Panel on Climate Change

All 15 of them



In March 2007, Channel Four broadcast the Great  
It contained all the leading climate skeptics  
Global Warming Swindle

Two of them threatened to sue Channel  
four for misrepresentation

“Where there are threats of serious or  
irreversible damage, lack of full scientific  
certainty should not be used as a reason



United Nations Framework Convention  
on Climate Change  
Article 3

Four of them had no scientific qualifications  
Six of them had resigned, retired, or been  
fired from their academic positions

# Question statement

Climate change, caused by human emissions of greenhouse gases, poses a serious threat to our future

**Who among the following people would *not agree* with this statement ?**

**Lord Browne, former CEO of BP**

**Kylie Minogue**

**His Holiness Pope Benedict XVI**

**Bernardo Bertolucci, director of Last Tango in Paris**

**President George W Bush**

**Osama Bin Laden**

**Queen Elizabeth II**

**Margaret Thatcher**

**Rex Tillerson, CEO of Exxon**

**Bjorn Lomborg, author of 'A Skeptical Environmentalist'**

**Nick Griffin, Head of British National Party**

**Kim Jong-II, Great Helmsman and Eternal President of North Korea**

**Robert Mugabe, President of Zimbabwe**

**Answer:**

**No new AdhLeajgrsteone  
other issue that they  
would agree on.**

# FIRST OF ALL A QUESTION.....

Do you believe that  
climate change is  
happening here and  
now?

THE  INDEPENDENT

Saturday  
Edition

INSIDE  
EVERY COPY

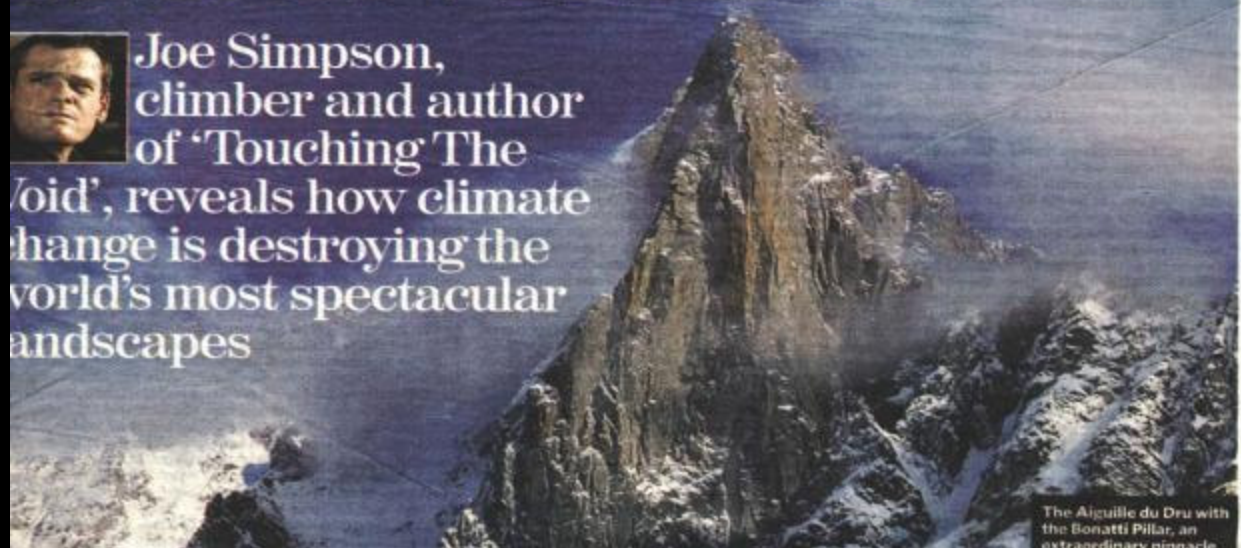
FREE DVD

THE AWARD-WINNING LIKE WATER FOR CHOCOLATE

THE MELTING  
MOUNTAINS




Joe Simpson, climber and author of 'Touching The Void', reveals how climate change is destroying the world's most spectacular landscapes



The Aiguille du Dru with the Bonatti Pillar, an extraordinary pinnacle

# Green rock



**'As it steadily  
melts, the whole  
infrastructure of  
Alpine tourism is  
at risk - as well  
as many lives'**

up our winter sports holidays.

Climatologists, geologists and civil engineers from all over the world are making disturbingly similar reports. Glaciers in Antarctica are thinning twice as fast as they were a decade ago and this may destabilise the west

the inflow of fresh water possibly lead to the shutdown of the Gulf Stream, which would plunge Europe in warm water would plunge Britain into winters that would be the equivalent of those in northern Canada wouldn't save the ski industry not unless you like skiing conditions of 40C below.

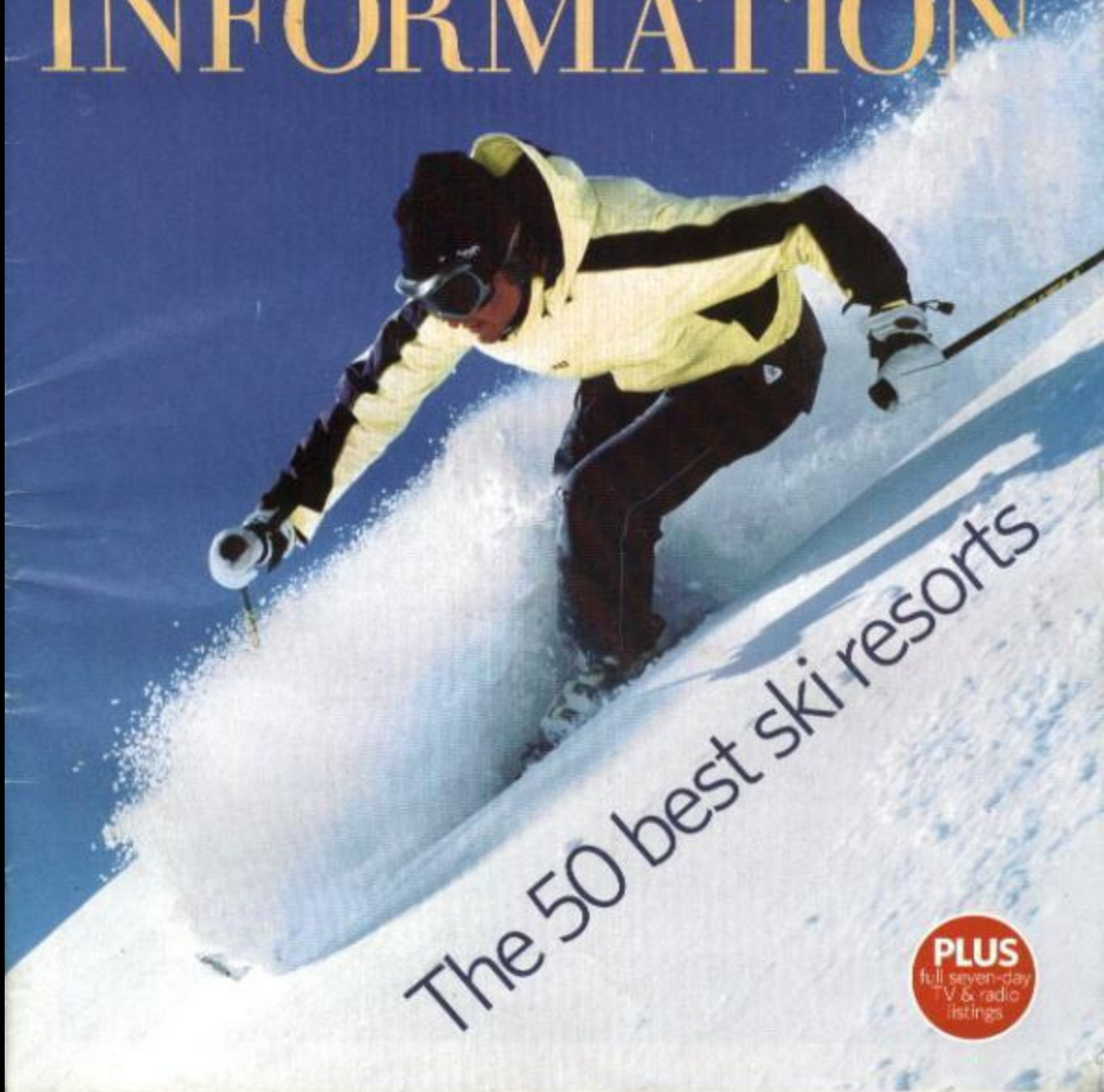
Boreholes sunk to monitor temperatures in Switzerland, Austria, the Dolomites, the Tannock Alps, the Sierra Nevada, the Abisko mountains and elsewhere have all recorded temperature increases of between 0.5C and 1C during the past 10 years.

The ground temperature in the Alps has risen considerably during the past decade. As air

# THE INFORMATION

THE INDEPENDENT 5 - 11 NOVEMBER 2005  
www.independent.co.uk

The essential guide to going out & staying in



The 50 best ski resorts

**PLUS**  
full seven-day  
TV & radio  
listings

## A QUESTION.....

Why nature we find branding  
it so successful to its concept,  
scale and importance...  
change ?

# Some Answers.....

- We want to believe that the problem is not agreed
- We believe that will happen to someone else in the future
- We do not trust the people who are telling us
- We follow each other in denial and inaction
- We see the problem as so huge that we are afraid there is nothing we can do.

**In pairs.....**

**When I think about  
climate change and the  
impacts it will have I  
feel....?**