Young People Planning for Climate Change and Sustainable Neighbourhoods

YES Planning Resource 2022: Planning for Climate Change/ Sustainable Neighbourhoods

Source: Creative Commons

Introducing ourselves











PART 1

What is climate change/ What does sustainability mean?



- Write your answers on a piece of paper
- Hands up to share your thoughts

Terms

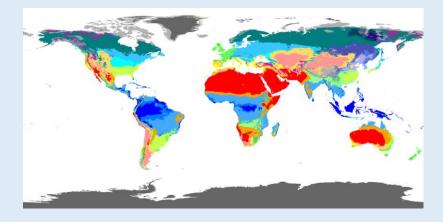
Weather =

describes the conditions of the air close to the Earth's surface e.g. rain, snow, temperature.

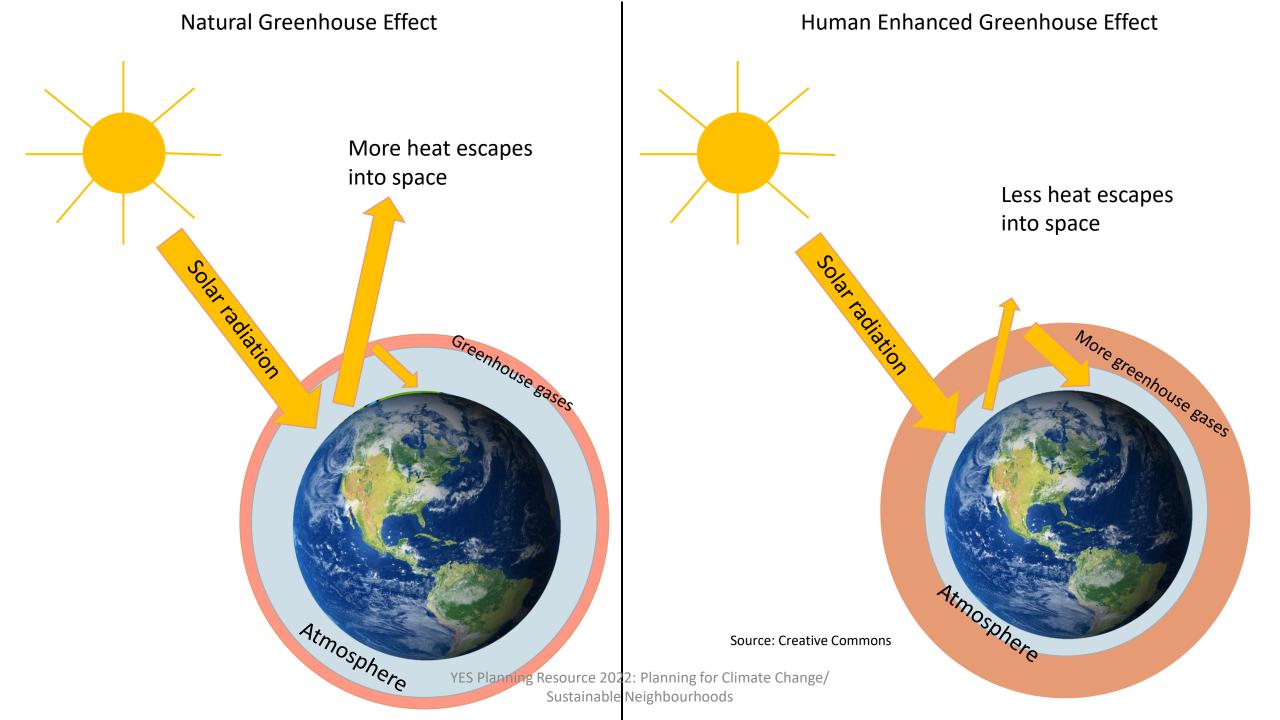


Climate =

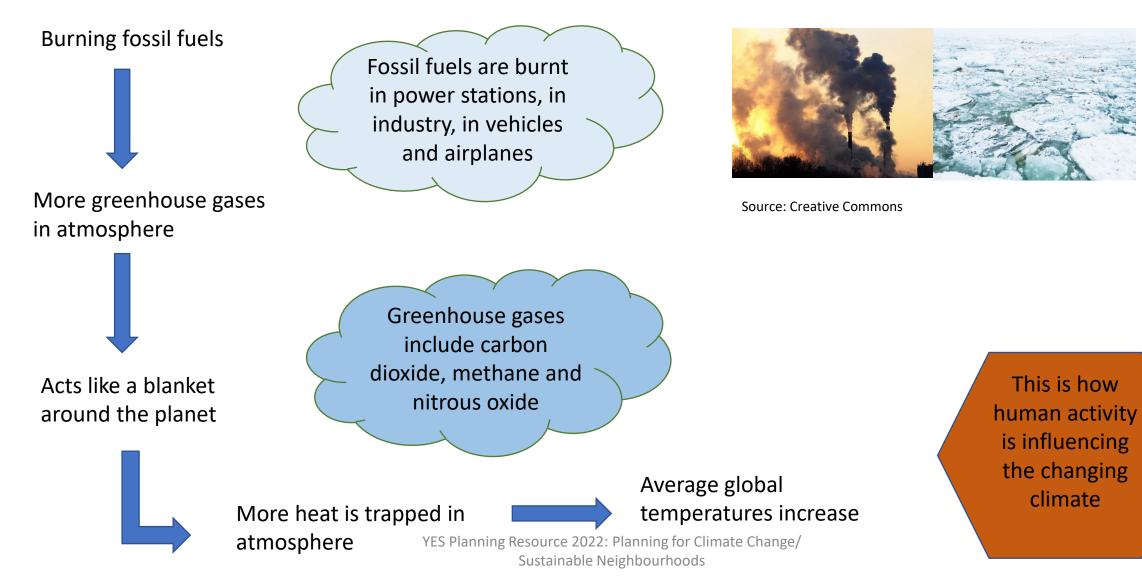
describes the conditions in the atmosphere over a long time, usually 30 years or more



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The Enhanced Greenhouse Effect



Sustainability

Meeting the needs of the present without harming the ability of future generations to meet their own needs



Image source: Creative Commons

Sustainable solutions to climate change



Reduce deforestation and increase afforestation



Switch from fossil fuels to alternative sources – solar, wind, tidal, hydroelectric power etc.



Walking, cycling or using public transport



Switching off lights, power sockets, phone chargers and TVs when not in use



Using energy-efficient light bulbs and rechargeable batteries



Insulating house roofs and walls, blocking draughts and using double-glazing and energyefficient heating systems

All Images: Creative Commons

What do you think town planning is?



- Write your ideas on a piece of paper
- Hands up to share your thoughts

What is town planning?

- "Planning is about helping to physically shape the places we live, work and play"
- "Balancing different social, environmental and economic issues to decide how land should be used"





What planners do:



Making sure people have access to homes, jobs and facilities such as schools, hospitals and open spaces



Managing and leading different projects at the same time

Protecting buildings and areas that are of environmental, historical or architectural importance



Marking up suitable land for development and making sure it becomes available





Setting out and using development rules and guidelines across the country



Presenting to committees and meetings on planning proposals

Designing new towns, garden cities or villages



Meeting architects and local people, explaining your ideas and proposals, and listening to other people's views





Balancing the needs of communities, businesses and the environment



Preparing and assessing applications for new buildings, masterplans or land uses

How can town planning help climate change?



Encouraging zero-carbon transport methods

Protecting key green space and trees from development Keeping existing trees within new developments

Creating green and walkable streets

Planning neighbourhoods where it takes 15-20 minutes to walk to a destination

Adding segregated cycle lanes



Planning for afforestation

Protecting carbon sinks



Images source: Creative Commons

Cycling and walking also tackles other challenges...

Improves air quality

Health and wellbeing

Congestion

Noise pollution

How can town planning help climate change?



Development management

Energy production

Supporting high levels of efficiency in new development

Assessing planning applications for alternative/ low carbon energy production schemes



Making developments resilient to climate change impacts through density, landscaping etc.

Awareness of flood risk and coastal change

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Images source: Creative Commons

What is planning for climate change/ neighbourhood sustainability?

• City level, towns and villages distinctions



Source: Creative Commons

Examples of innovative sustainable planning



Source: Creative Commons

Examples of innovative sustainable planning around the world

London, UK: Parking sensor around the city to lower congestion

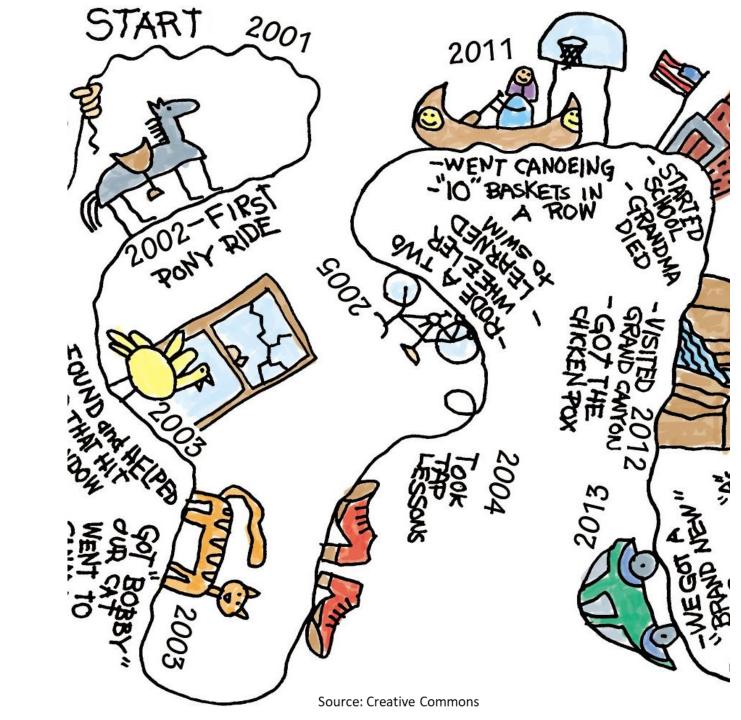
- sensors around the city help motorists to directly access parking spaces; reducing congestion, air pollution and fuel consumption

Seoul, South Korea: Cheonggyecheon,

- a river being modernised to provide green and recreation space for the city.



PART 2 : COGNITIVE MAPPING EXERCISE



TASK

In a small group, draw and design your own sustainable neighbourhood.

You have 30 mins to come up with a drawing.

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Elements you need to think of :

Church Street

Library

Supermarket

- 1. Buildings (houses or offices)
- 2. Greenery (trees and small parks)
- 3. Pathways (pedestrian walkway and/or roads)
- 4. Proportion of spaces (providing enough balance between housing and green public spaces)

Source: Creative Commons

Now let's come back together and share some ideas

Examples of sustainable neighbourhood



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What makes a sustainable neighbourhood?

A sustainable neighbourhood prominently provides safety and convenience, especially in supporting sustainable development.

In regards to this, these are some of the aspects of what we could identify as a sustainable neighbourhood :

- Sustainable transport, providing pedestrianised and cycling routes (roads could be developed but having pathways for buses would be more sustainable rather than cars)
- **Green infrastructure**, providing green public spaces like parks as well as trees and benches for people to meet and interact with other people in the neighbourhood
- Appropriate buildings which would promote less carbon emission and initiating energy efficient homes

As a whole, a neighbourhood balanced with buildings and green environment would provide a sustainable future, especially in battling climate change and global warming.

PART 3

Housing

In the UK, housing developments produce a lot of carbon dioxide:

- During construction it takes between **50 and 80 tonnes of CO2** to build to build your average UK house₁.
- During use the average household in the UK emits **2.7 tonnes of CO2** every year from heating their home₁.

Therefore we need **creative** solutions to reduce the carbon released by future housing.

1. Citu (2020). What is the carbon footprint of a house? Available at https://citu.co/uk/citu-live/what-is-the-carbon-footprintof-a-house [Accessed 01/12/2021]

Design a sustainable, low carbon house

Within your groups take on the role of a planner/architect You have 30mins to design a sustainable low carbon house.

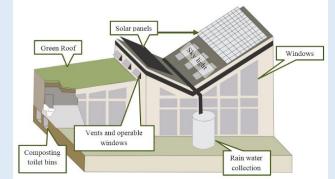
A Sustainable building should be:

- connected to nature
 - create community
 - be energy efficient

You should think about these key points:

- Location accessible, near public transport
- Materials Walls, insulation, roof, window
- Outdoor spaces Garden or shared garden? Play spaces? Allotments? Nature?
- Energy and water Renewables? water catchment?
- Parking Do you want any? Do you want bike storage? Do you want electric car points?





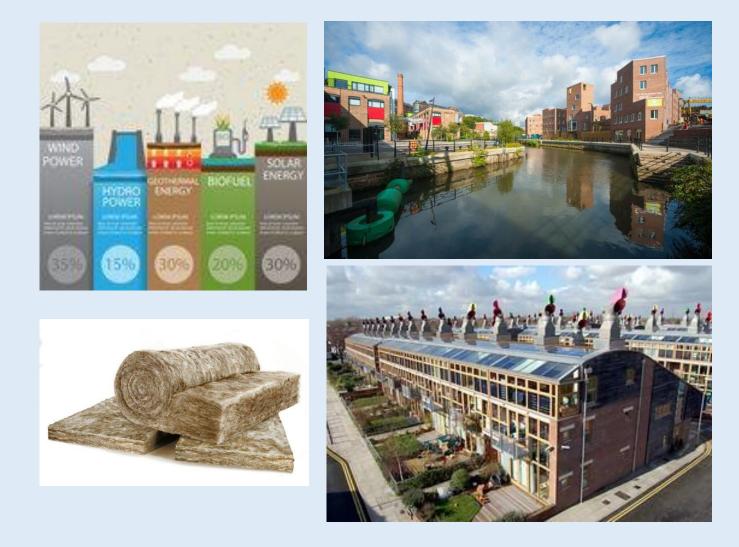
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Some things you could have included



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Homework task - Only when requested

Individually, write a report about your design.

This piece of writing should:

- 1. Summarise why sustainability in the built environment is important
- 2. describe your design and explain why you chose certain materials, location etc.

Reflections

During the past two sessions we have looked at neighbourhood sustainability and how we can design low carbon housing.

Long term

- Possibly think about working within the built environment e.g. planner, architect, urban designer, builder, engineer etc
- Think about the type of house or flat you might want to live in when you move out
- Get involved in your local community and planning applications.

Short term

- Recycle
- Turn off lights and plug sockets
- Reduce your plastic use
- Plant greenery or grow food either in a plant pot or your garden