

EN-GB

Kids



# CLIMATE FRESK

All the cards are in your hands!

## How to play

You need one deck of cards per team (6 to 8 pp), a paper roll or tablecloth of 1\*2 meters, pencils, rubbers, colour felt pens and some tape.

The aim is for each team to place the cards in order on the table, find all the cause and effect relationships and draw arrows between the cards to illustrate what climate change is about.

Deal the cards set by set and wait until all cards are down on the table before dealing the next set.

Time indications: ~1hour to place the cards, ~1hour to decorate the Fresk and ~1hour to sit down together for a heart-to-heart discussion.



**Reasoning**



**Creativity**



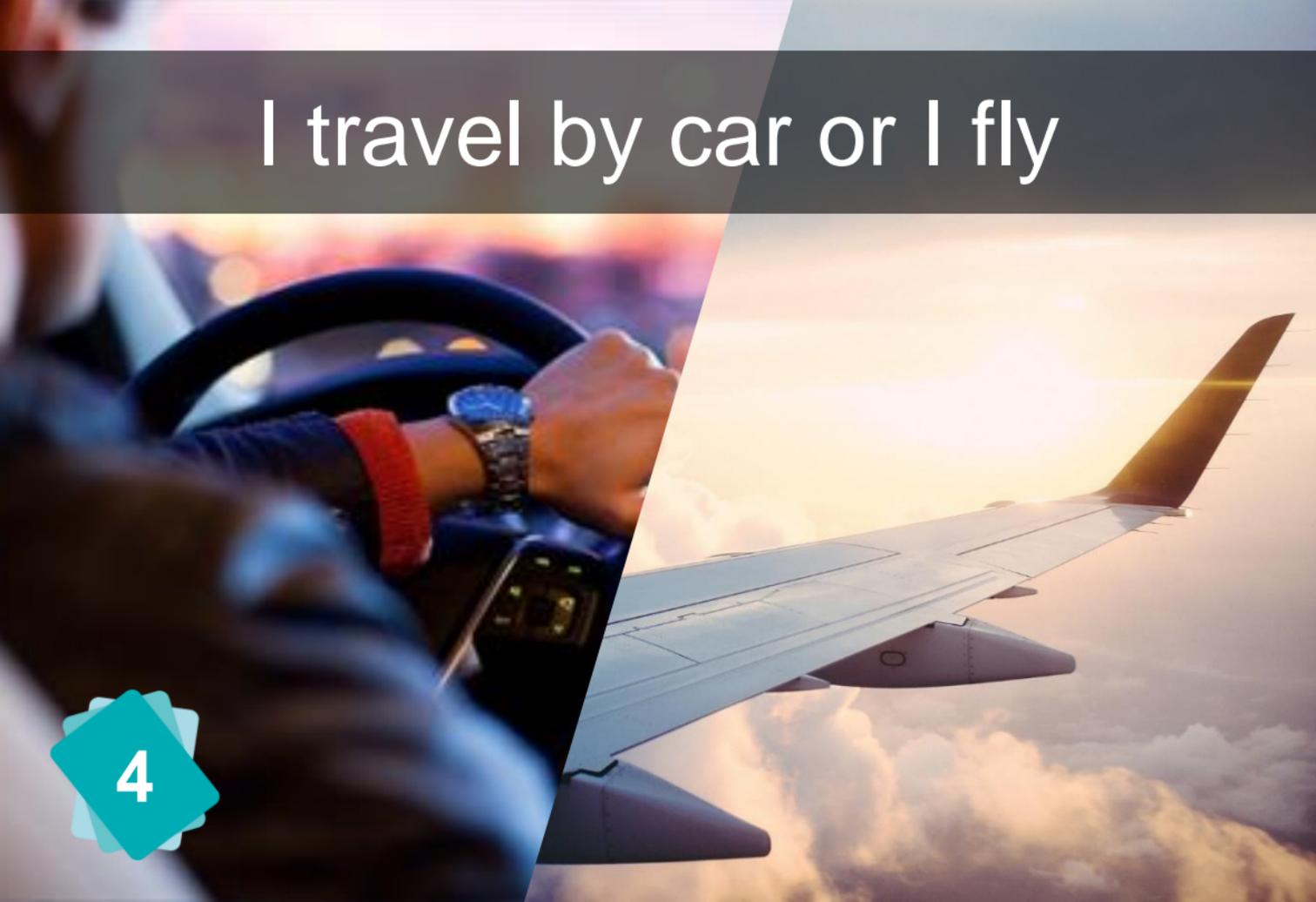
**Review**



**Debrief**

*Tip: sort the cards quicker using the blocks on the side!*

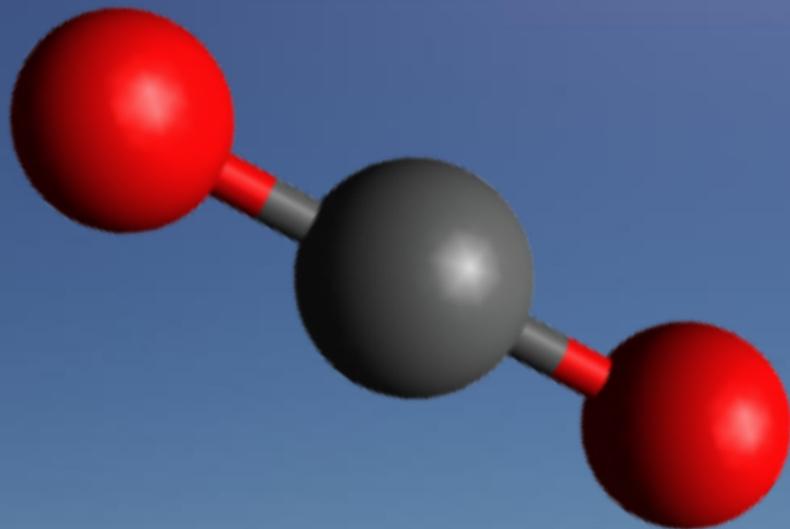
I travel by car or I fly





Cars and planes need oil to move. Burning oil emits CO<sub>2</sub>.

CO<sub>2</sub>

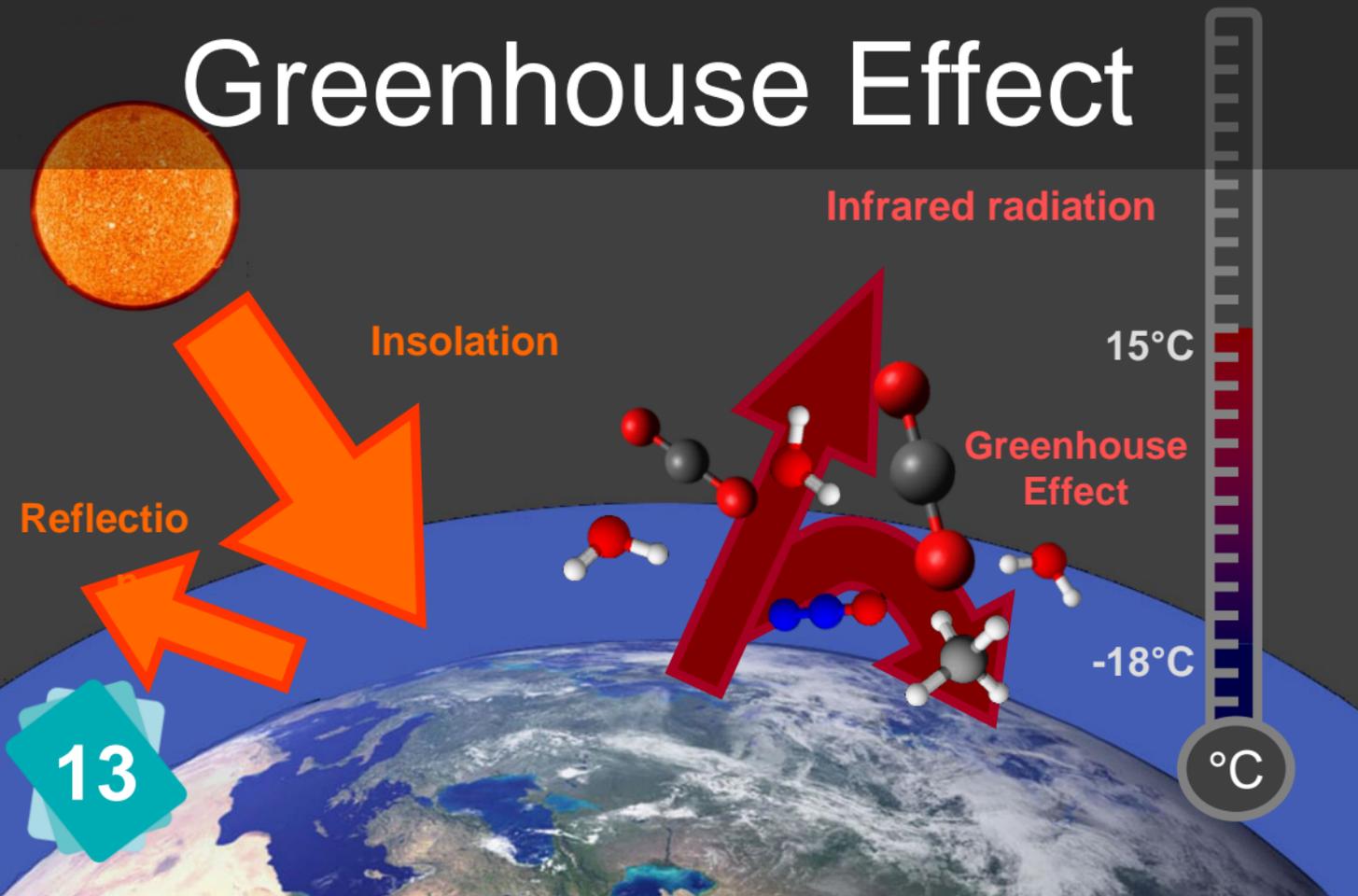


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Human activities (making things, heating or cooling homes and buildings, driving cars, flying...) use a lot of energy and this has led to an increase in the concentration of  $\text{CO}_2$  in the air.

# Greenhouse Effect





For the last 100 years, the greenhouse effect has been increasing due to CO<sub>2</sub> and methane. As a result, the earth is warming up.

# Melting of Sea Ice

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*Photo : NASA*

The melting of sea ice is not responsible for the sea level rise. Think of an ice cube that melts in a glass of water: it doesn't make the drink overflow the glass.

# Temperature Increases





Because of the greenhouse effect, the temperature on earth has increased by  $+1^{\circ}\text{C}$  and will keep rising, which can have serious consequences for our planet.

I use heating or air conditioning

3





Air conditioning and heating system use energy. Therefore, using them emits CO<sub>2</sub>.

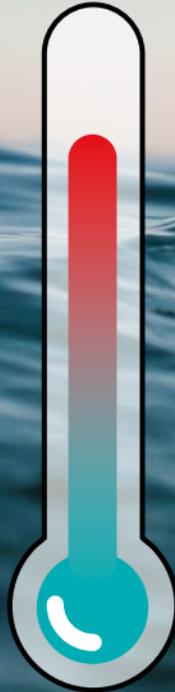
# Melting of Glaciers



16

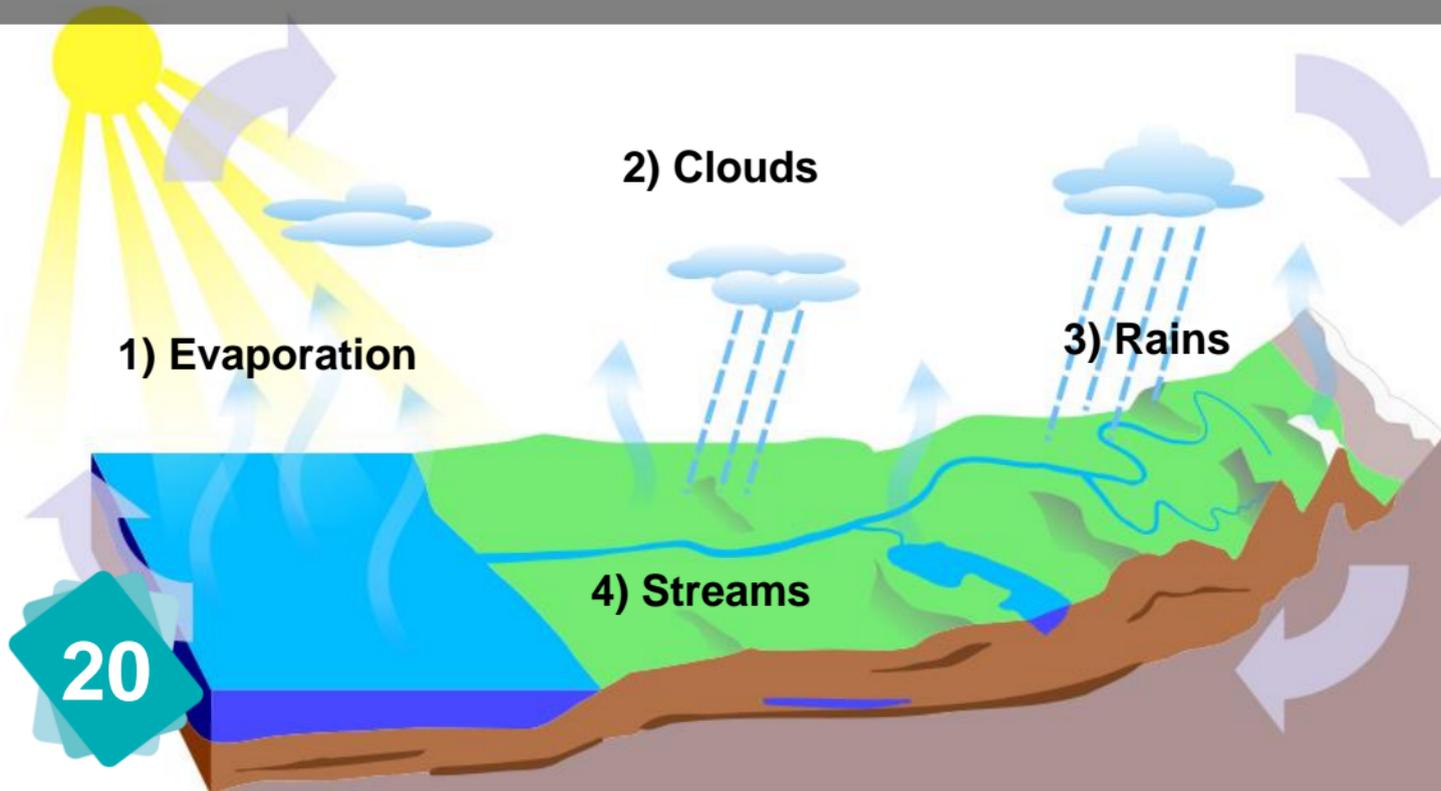
Glaciers are found in mountains like the Alps, or the Himalaya, but also in Greenland and in Antarctica. They are currently melting because of higher temperatures in the air. This means more water in the sea, and therefore the sea level is rising.

# Warming of Oceans



The ocean (and all the seas) absorb most of the heat due to the additional greenhouse effect. Therefore, the water in the ocean and the sea is becoming warmer. When water is warmer, it expands.

# Perturbation of the Water Cycle



The water cycle describes the chain between water evaporation, the formation of clouds, rain and rivers, etc. If the ground and the ocean become warmer, there is more evaporation and the cycle is disturbed.

# River Flooding





Disruption in the water cycle can cause more intense rainfall. These rains can cause river floods.

# Heat Waves



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As the global temperature increases, heatwaves are becoming more frequent.

The image is a collage. On the left, several smartphones are stacked, showing various home screens with clocks, weather, and app icons. On the right, a woman with long brown hair is seen from behind, wearing a black top and holding several colorful shopping bags (green, blue, pink, white).

# I buy things

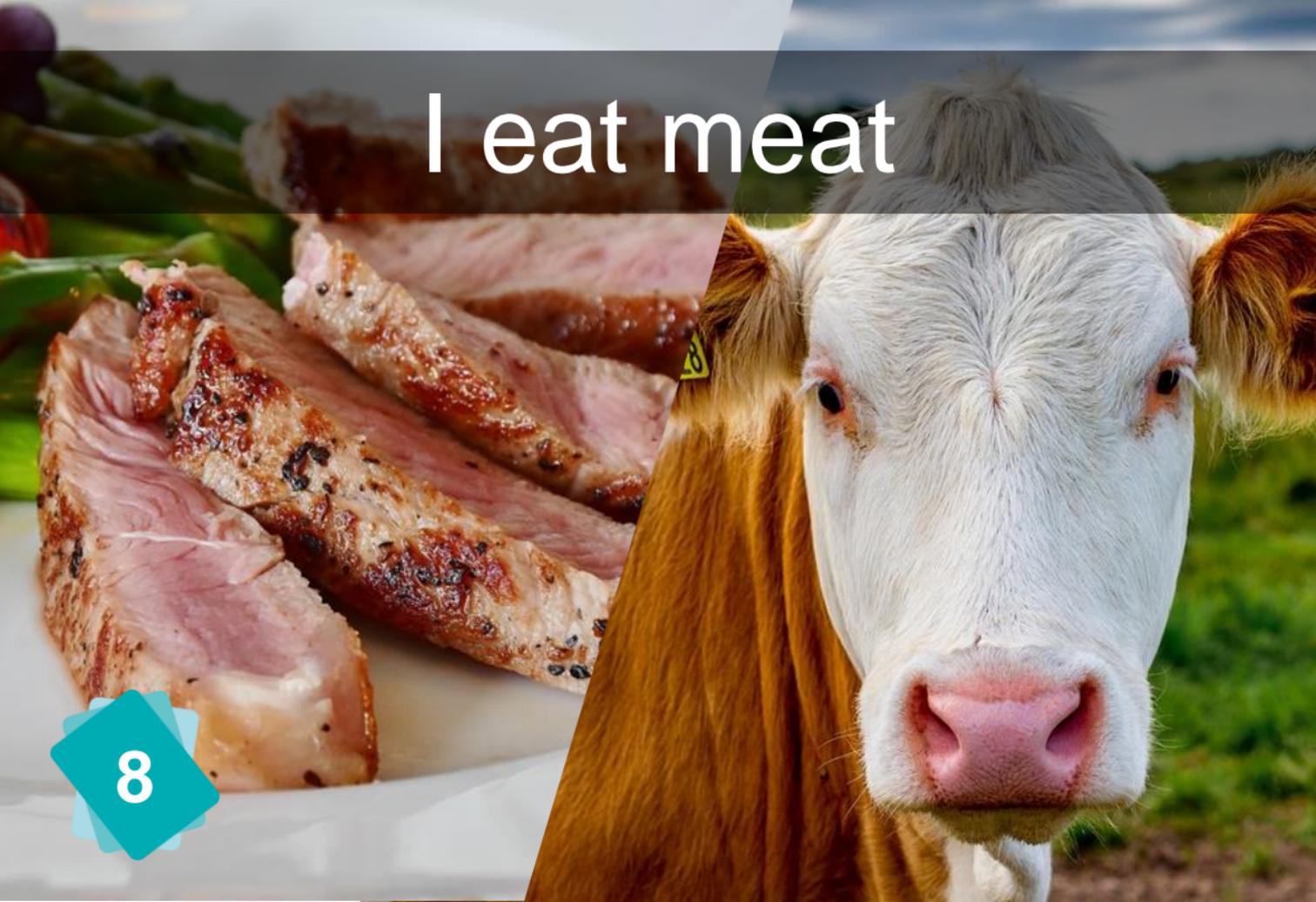
2



Everything we buy comes from the industry that emits a lot of Carbon Dioxide (CO<sub>2</sub>). CO<sub>2</sub> is a greenhouse gas (GHG).

I eat meat

8





Cows are ruminants. They release methane when they wind and burp. Methane is a greenhouse gas (GHG), just like CO<sub>2</sub>. But it is even more powerful. Raising chicken emits less CO<sub>2</sub> than raising cows.

# Sea Level Rise



22



Sea level is rising due to melting glaciers.

# Biodiversity



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Animals and plants are affected by changes in temperature and the water cycle. Some species are already disappearing.

# Droughts

30

A landscape photograph showing a cracked, dry earth under a cloudy sky, with a dead, gnarled tree on the right side. The ground is covered in a network of deep, irregular cracks, indicating severe drought. The sky is filled with heavy, grey clouds, and the overall atmosphere is somber and desolate.



Disruption in the water cycle  
can cause droughts.

# Food Production

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Food production can be affected  
by temperature, droughts,  
cyclones, floods.

# Marine Submersion



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A submersion is a flood caused by rising sea water levels. The rise of the sea level means seaside villages and cities and small islands may disappear in the near future.

# Cyclones



Cyclones draw energy from the warm waters at the surface of the ocean. Therefore when the air and water get warmer, the cyclones get stronger and stronger.

Their power has increased because of climate change.

# Starvation

A group of children, some in school uniforms, are lined up outdoors. They are holding white bowls and blue plates, waiting for food. In the background, a large black pot sits on a wooden stand, filled with a yellowish, porridge-like substance. The setting appears to be a rural area with a dirt ground and some wooden structures.

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If we produce less food,  
starvation can happen.

# Climate Refugees

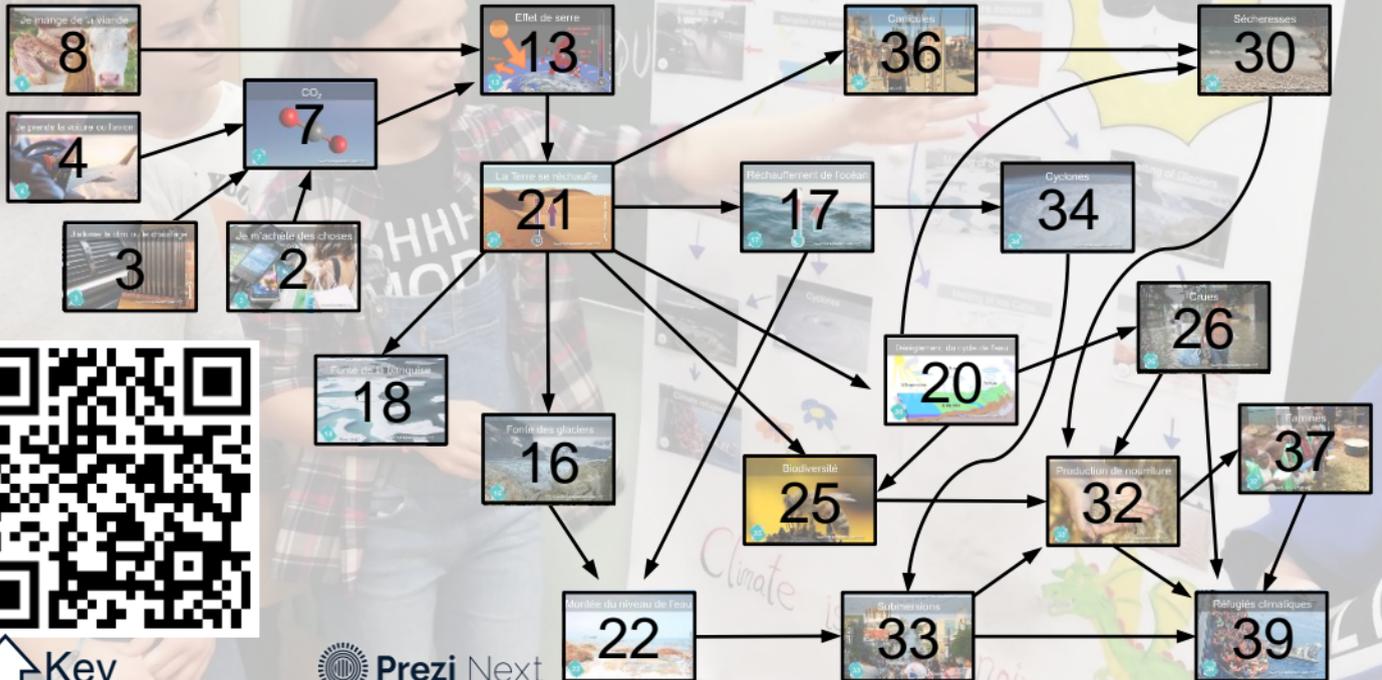
A high-angle photograph showing a large group of people, many wearing orange life jackets, crowded on the deck of a ship. A smaller inflatable rescue boat is positioned nearby in the blue sea. The scene suggests a maritime rescue or transport operation.

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Starvation, floods and droughts  
are forcing more and more  
people to leave their country to  
live elsewhere.

# Key

<https://prezi.com/view/8C2fH8aPW1BpB05U0RQw/>



Climate Fresk was developed by Cédric Ringenbach.  
Its distribution is managed by the non-profit association "La Fresque du Climat".

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All the cards are in your hands!



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English



Scan to join us !