



# Kazan State Power Engineering University.

## «Ecological problems»

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**The purpose of the presentation:**

To show contemporary youth what environmental problems exist today.

**Tasks:**

1. Identify the main environmental problems of the planet;
2. To elucidate the influence of man's economic activity on nature;
3. Promote environmental awareness among young people.



# Ecological problems

Air  
pollution

Toxic  
pollution

Water  
pollution

The  
Earth

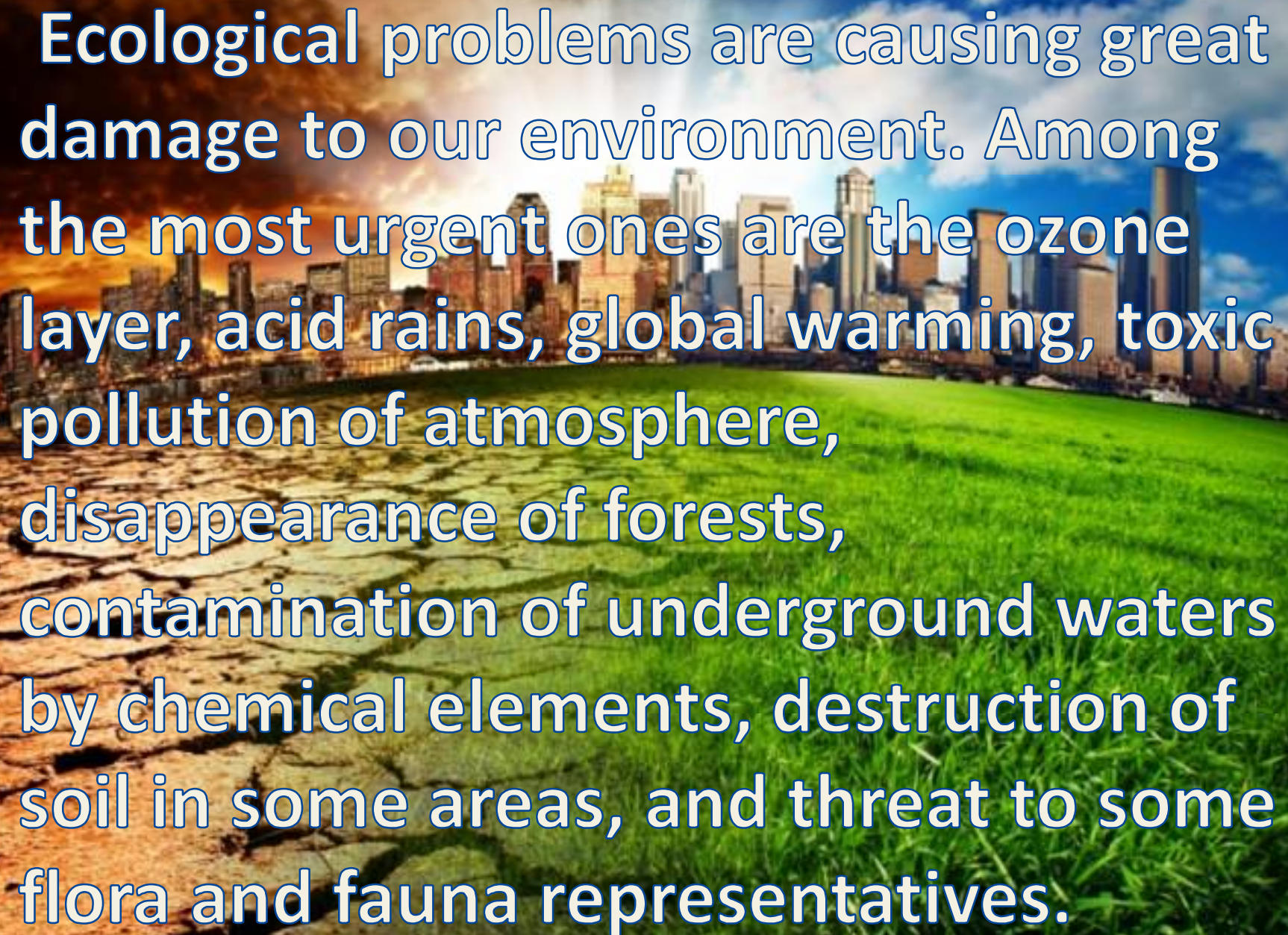
Global  
warming

Acid  
rain

Disappea  
rance of  
forests

Endang  
ered  
animals





Ecological problems are causing great damage to our environment. Among the most urgent ones are the ozone layer, acid rains, global warming, toxic pollution of atmosphere, disappearance of forests, contamination of underground waters by chemical elements, destruction of soil in some areas, and threat to some flora and fauna representatives.

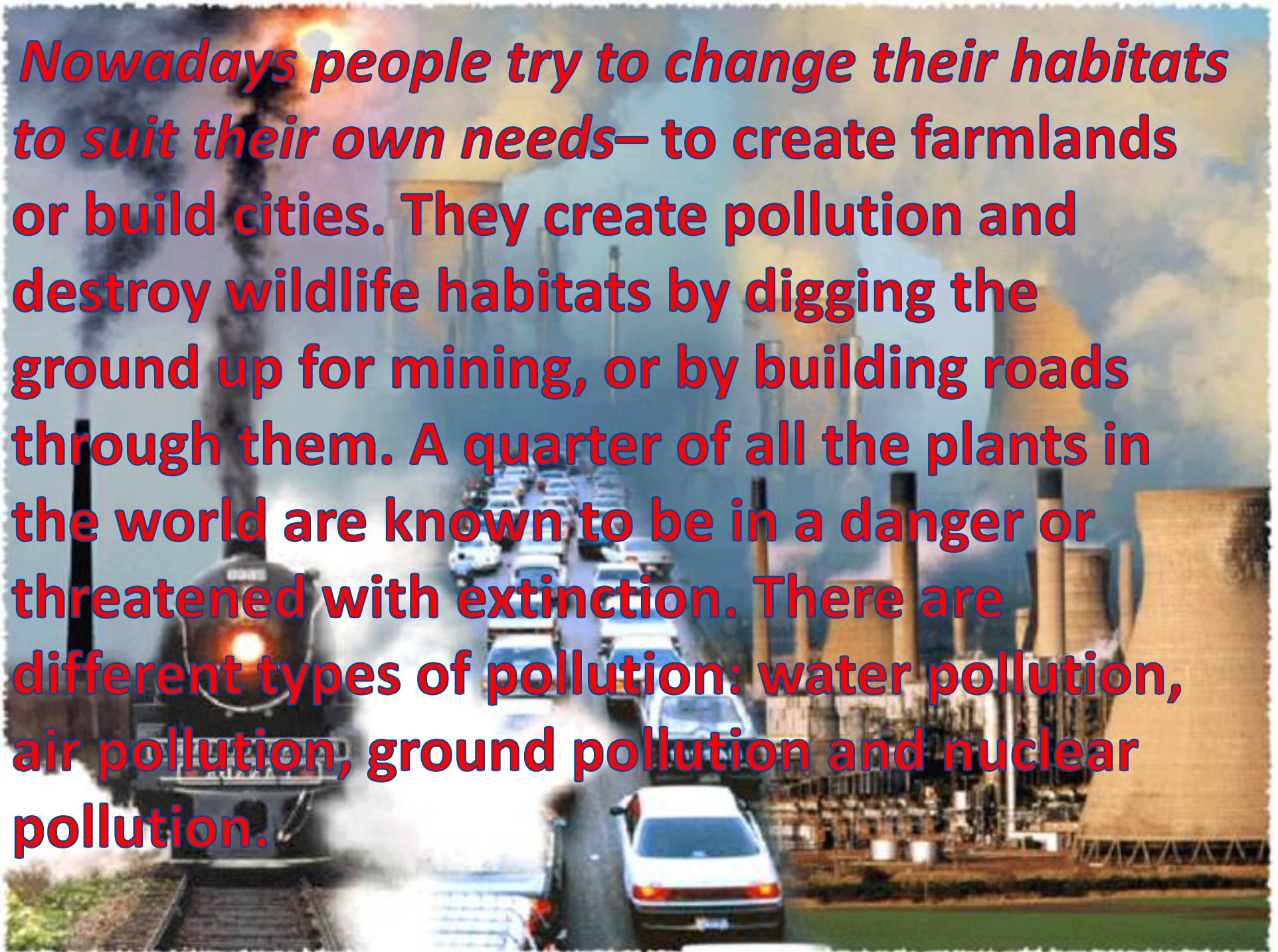


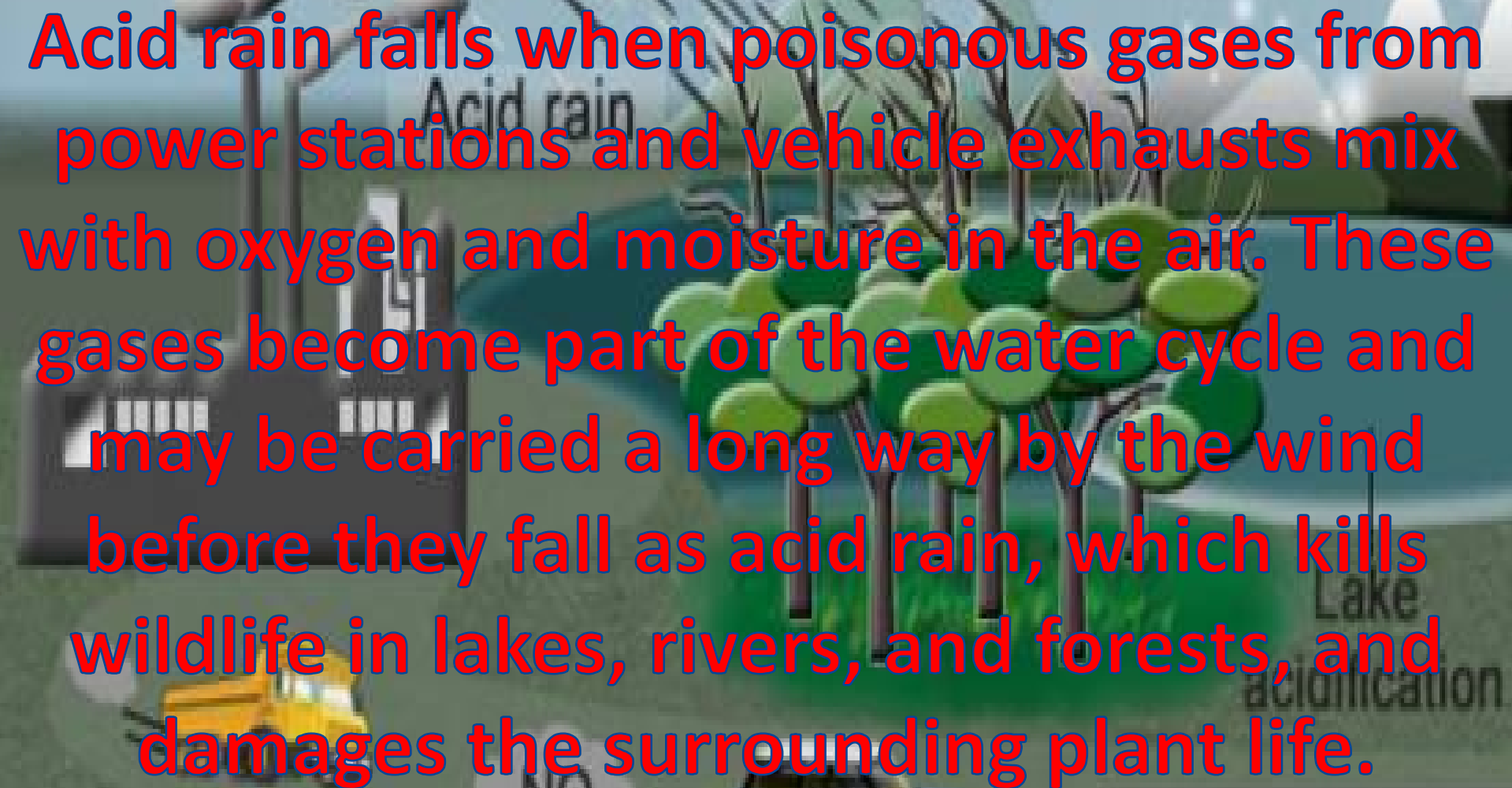
A composite image of Earth with various animals and plants. The Earth is shown as a globe in the background, with a dark space background. In the foreground, there is a lush green landscape with large green leaves, pink flowers, and various animals including an elephant, a zebra, a giraffe, a rhinoceros, a tiger, a monkey, a dog, a hippopotamus, and a cow. The text is overlaid on the image in a red, italicized font.

*The Earth is a home to millions of different kinds of living things, which make up the complex world of nature.*



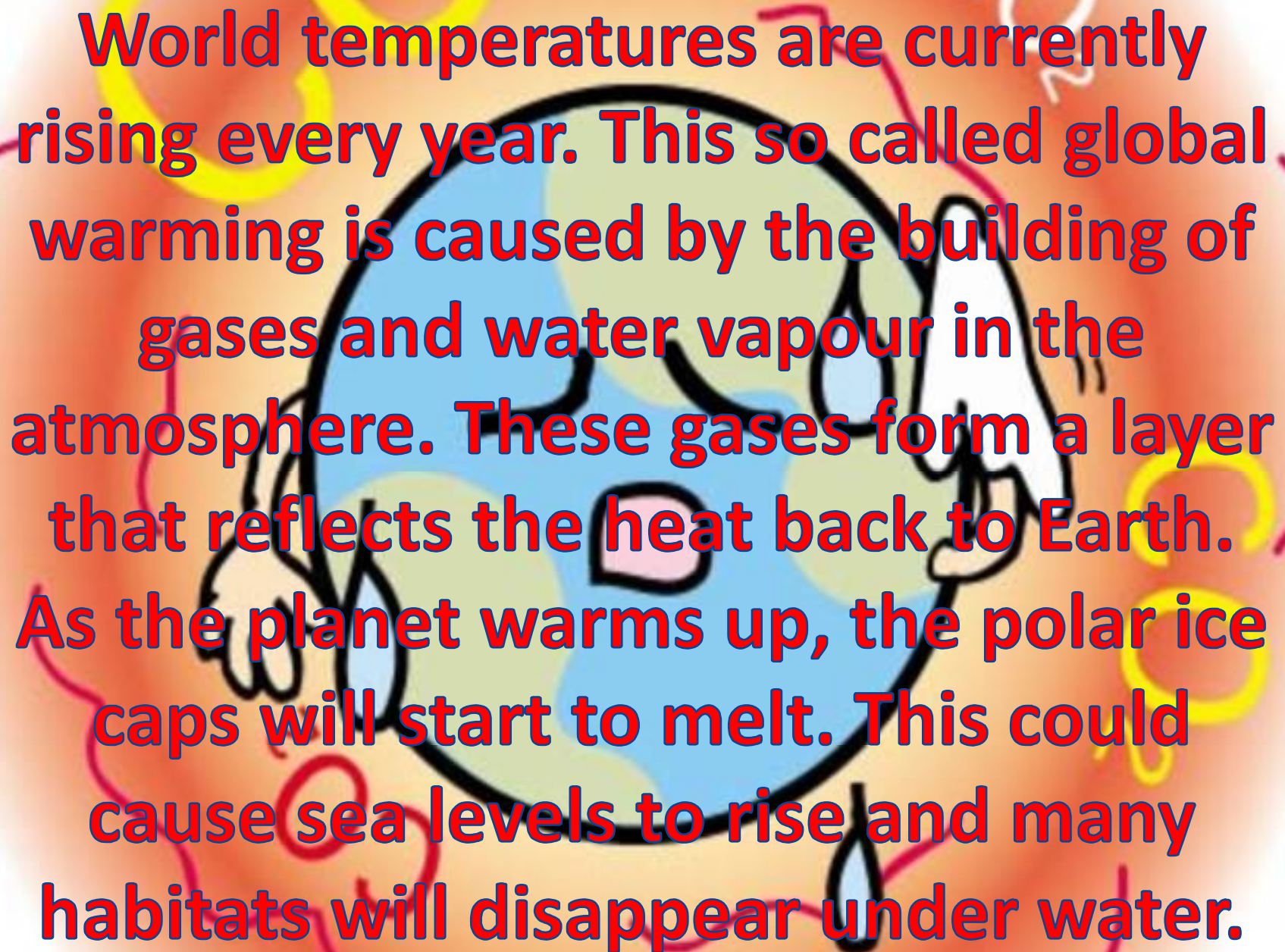
*Nowadays people try to change their habitats to suit their own needs— to create farmlands or build cities. They create pollution and destroy wildlife habitats by digging the ground up for mining, or by building roads through them. A quarter of all the plants in the world are known to be in a danger or threatened with extinction. There are different types of pollution: water pollution, air pollution, ground pollution and nuclear pollution.*



A diagram illustrating the process of acid rain. At the top, two chemical reactions are shown:  $\text{NO}_x \rightarrow \text{HNO}_3$  and  $\text{SO}_2 \rightarrow \text{H}_2\text{SO}_4$ . Below these, clouds are shown releasing rain. The text 'Acid rain' is written in the sky. In the foreground, a yellow school bus and a blue car are on a road. A sign with  $\text{NO}_x$  is near the bus. In the background, there are trees, a lake, and mountains. The text 'Acid snow' is near the mountains, and 'Lake acidification' is near the lake. At the bottom right, a sign says 'Acid Rain'.

**Acid rain falls when poisonous gases from power stations and vehicle exhausts mix with oxygen and moisture in the air. These gases become part of the water cycle and may be carried a long way by the wind before they fall as acid rain, which kills wildlife in lakes, rivers, and forests, and damages the surrounding plant life.**



A cartoon illustration of a sad Earth with a face, surrounded by colorful wavy lines representing heat or energy. The Earth is depicted with a blue and green pattern, a pink nose, and a sad expression. The background is a warm, orange-red gradient with yellow and red wavy lines. The text is overlaid on the Earth's face.

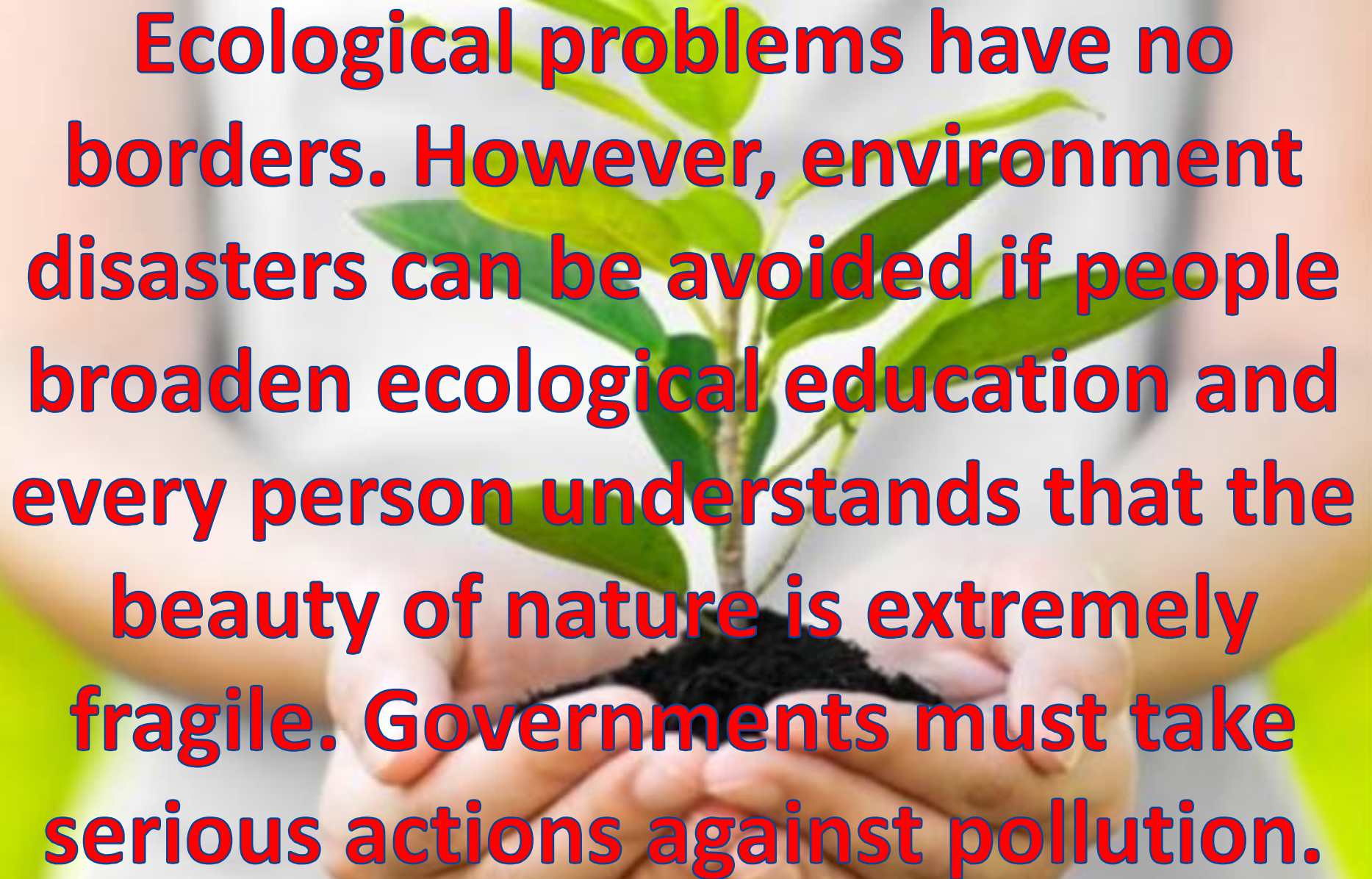
**World temperatures are currently rising every year. This so called global warming is caused by the building of gases and water vapour in the atmosphere. These gases form a layer that reflects the heat back to Earth. As the planet warms up, the polar ice caps will start to melt. This could cause sea levels to rise and many habitats will disappear under water.**



A close-up photograph of a person's hands, wearing a light-colored shirt, gently cupping a small green seedling with dark soil. The seedling has several bright green leaves and a thin stem. The background is softly blurred, showing more of the person's torso and arms. The overall tone is positive and hopeful, symbolizing environmental care and growth.

**Planet Earth is our common home  
,so environmental protection must  
be our common concern.**



A pair of hands is shown from the front, cupping a small, vibrant green seedling with several leaves and a small amount of dark soil. The background is a soft, out-of-focus light green and white. The text is overlaid on the image in a bold, red font with a blue outline.

**Ecological problems have no borders. However, environment disasters can be avoided if people broaden ecological education and every person understands that the beauty of nature is extremely fragile. Governments must take serious actions against pollution.**



## **Bibliography:**

1. Yu.V. Novikov "Ecology, environment and people."
2. Lavrov S.B. Global problems of the present: Part 1. - SPb .: SPbGUPM, 1993.
3. State report on the state of the environment of the RT in 2004. - Kazan, 2004.



The image features a central globe with a green plant growing from its top. The globe is surrounded by various elements: a small house, a snail, and several green leaves. There are also several bubbles, some containing smaller globes or leaves. The background is a soft, light green with a bokeh effect of larger, out-of-focus circles. The text "Thank you for your attention!" is written in a bold, red, italicized font across the center of the image.

***Thank you for your  
attention!***