

The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect. The word "ENVIROMENT" is centered in a bold, green, sans-serif font.

ENVIROMENT

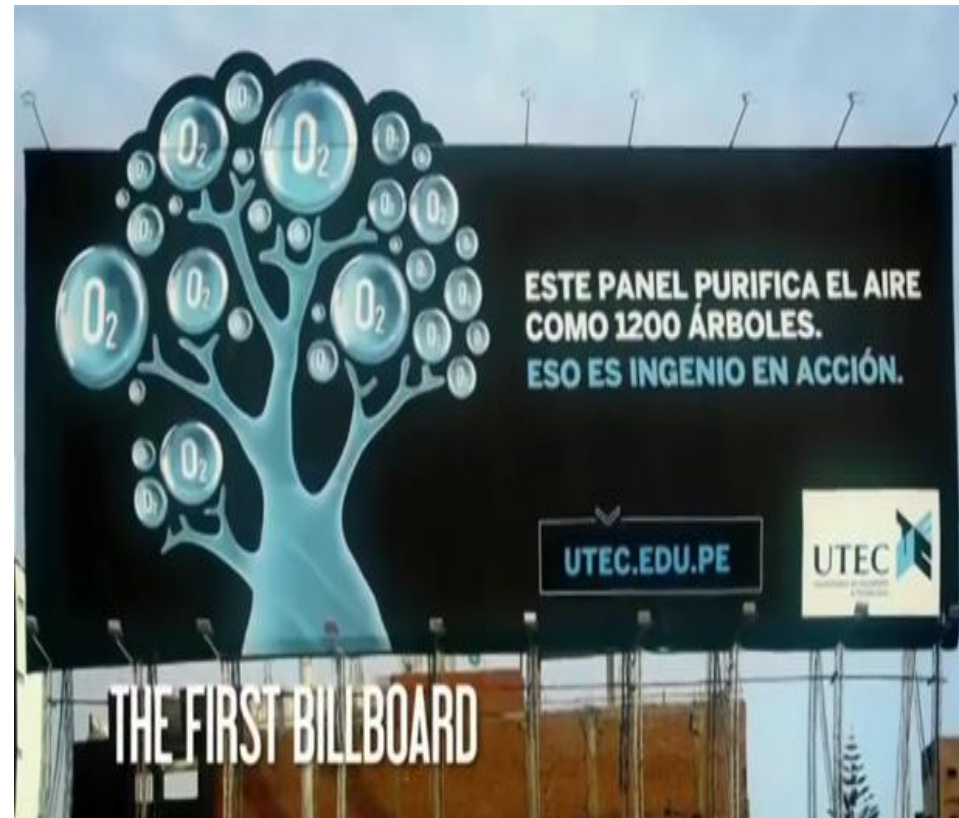
Air pollution

- ▶ Russia is firmly entrenched in the list of countries with bad ecology. Only 15 large cities of the Russian air meet sanitary standards. Only 15% of Russia's urban population breathes relatively clean air. Among the most polluted cities in Russia include: Norilsk, Moscow, Saint Petersburg, Yekaterinburg, Novosibirsk, Omsk, Tomsk, Chelyabinsk, etc.



Fight with air pollution: Billboards, air-purifying

- Scientists from the University of engineering and technology (UTEC) in Peru are engaged in the development and creation of billboards, which are able to deal with air pollution. A prototype of the billboard was installed in one of the most polluted parts of the capital of Peru in Lima in 2013. Shield works because the basic thermodynamic laws, polluted air is passed through the water, which actively collects a contaminants (such as bacteria, dust, etc.), after which the purified air is discharged to the outside. According to the creators of the device, one billboard can do the job in 1200 trees, cleaning daily in urban environments 100,000 m³ of air.



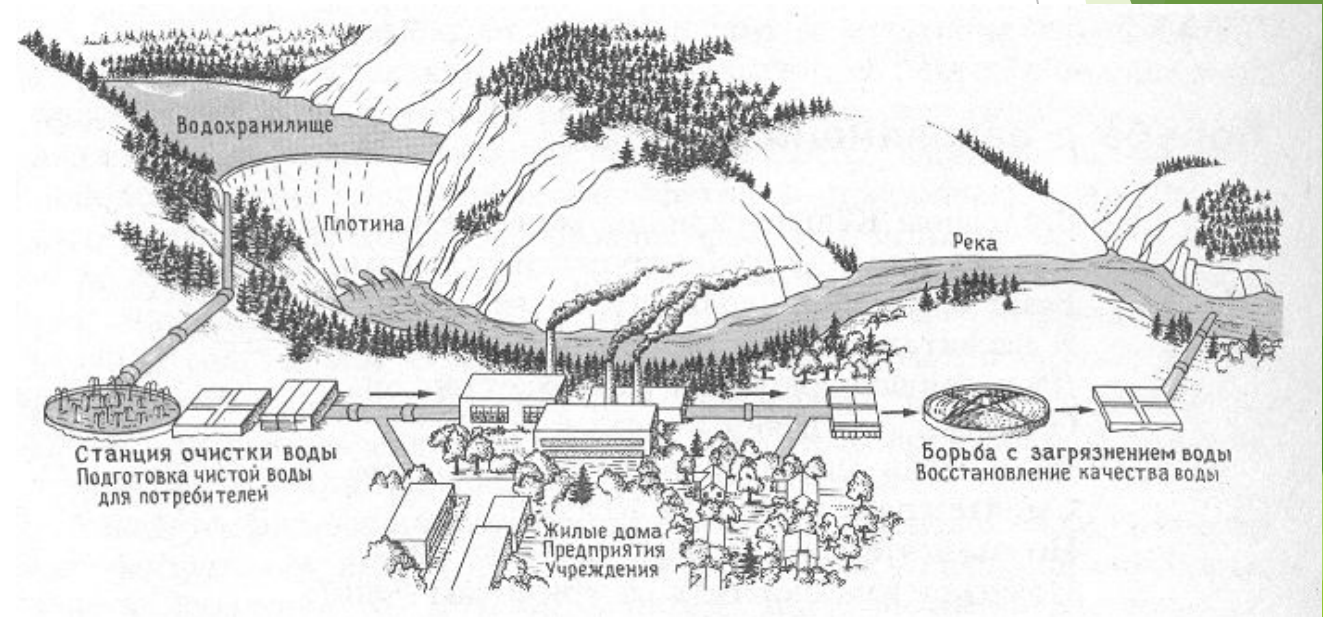
Pollution water

- ▶ 1) precipitation, containing contaminants of industrial origin, are washed out of the atmosphere;
- ▶ 2) municipal wastewater (domestic, sewage containing harmful synthetic detergents, etc.).
- ▶ 3) Industrial wastewater;
- ▶ 4) agricultural waste water (waste of livestock farms, runoff from the fields of fertilizers and pesticides, rain and spring melt water, etc.).



Fight with pollution water

- Waste water treatment and water pollution control. Note that the water treatment is carried out prior to its use in the home or in the workplace. On the contrary, the fight against water pollution produced after the use of water for public purposes. In other words, water treatment prepares the water for use; pollution involves clean it after use.



Deforestation - one of the environmental problems in Russia

- ▶ In many regions of Russia illegal and uncontrolled felling of trees is carried out systematically. According to the World Wildlife Fund (World Wildlife Fund, WWF) Russia annually loses about \$ 1 billion due to illegal logging. Only in the Arkhangelsk region in the past year, the inspectors recorded 359 cases of illegal deforestation, the loss of which amounted to 410.5 million rubles (\$ 12 million). On the global deforestation map from Google, you can find enough detailed information about the changes in the forestry sector have occurred in recent years.



Fight with deforestation

- ▶ Activities related to the protection of forests can be divided into the following groups:
- ▶ research.
- ▶ organizational and technical.
- ▶ the establishment of nature reserves and other protected areas.
- ▶ Reforestation (1990 - 2010 the largest increase in planted forests has been in China (1932 thous. Ha per year), the USA (805 thousand. Ha per year), Canada (385 thousand. Ha per year), India (251 thous. Ha per year), Russia (199 thous. ha per year) [46])
- ▶ economic.
- ▶ legal and administrative. In Russia in 2008 increased the penalties for unauthorized felling of trees and shrubs.

