ENVIRONMENTAL POLLUTION AND ITS IMPACTS

Sevde Sümeyye Özen

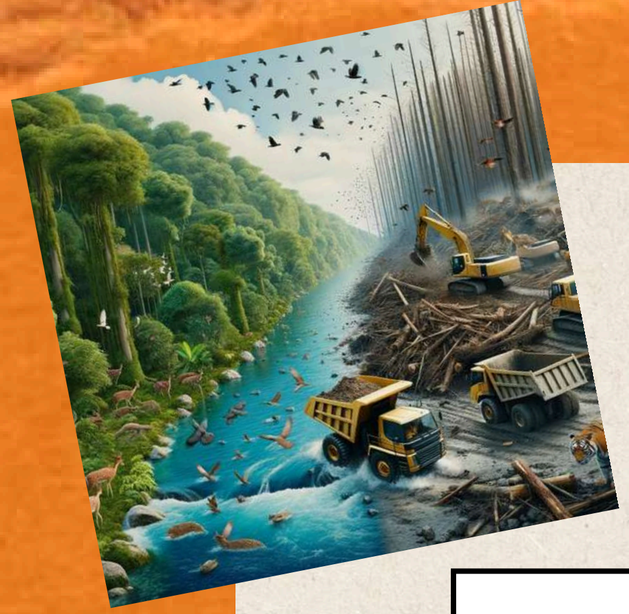


What is Environmental Pollution?

The contamination of natural environments with harmful substances. Pollutants can be natural, such as volcanic ash, or created by human activity, such as trash or factory runoff. Industrialization in the 18th century marked a significant rise in environmental pollution.







Causes of Pollution



Industrialization: Factories emitting harmful gases.
Deforestation: Loss of forests leading to soil degradation
Urbanization: Increased waste production

Types of Environmental Pollution

Air Pollution



Water Pollution



Soil Pollution



Noise Pollution



Light Pollution





AIR POLLUTION

- Sources: Vehicle emissions, industrial processes, burning fossil fuels
- Major Pollutants: Particulate matter (PM), nitrogen oxides (NOx), sulfur dioxide (SO2), carbon monoxide (CO), volatile organic compounds (VOCs)
- Health Impacts: Respiratory diseases, cardiovascular problems, premature deaths (7 million annually - WHO)
- Environmental Impacts: Climate change, acid rain, ecosystem disruption



WATER POLLUTION

- Sources: Industrial waste, agricultural runoff, improper waste disposal, plastic pollution
- Major Pollutants: Chemicals, heavy metals, plastics, biological contaminants
- Health Impacts: Waterborne diseases (cholera, dysentery), chemical exposure, unsafe drinking water (2 billion people lack access)
- Environmental Impacts: Habitat destruction, eutrophication, bioaccumulation



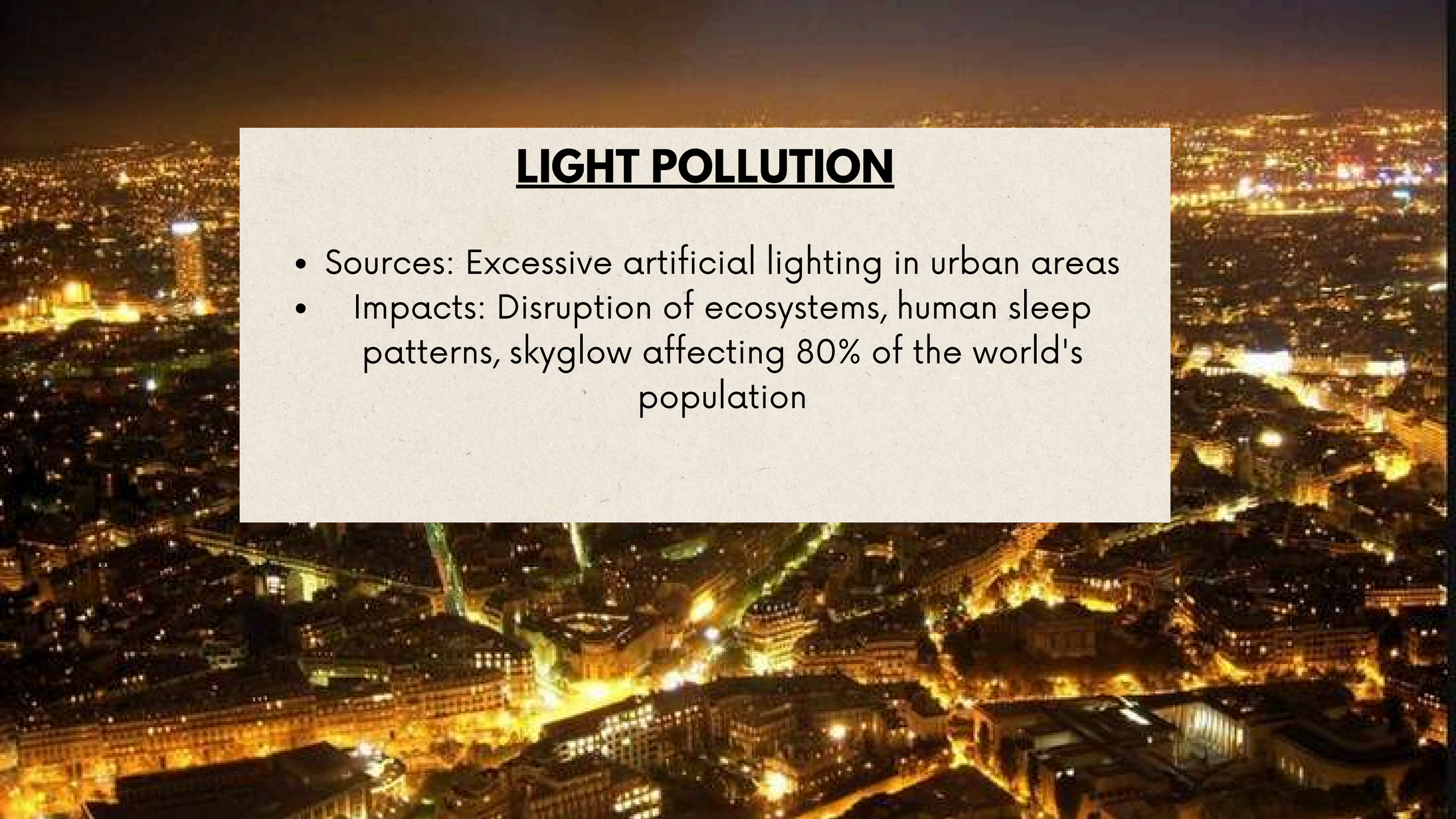
SOIL POLLUTION

- Sources: Pesticides, fertilizers, industrial waste, improper disposal of hazardous materials
- Major Pollutants: Pesticides, heavy metals (lead, mercury, arsenic), industrial waste
- Health Impacts: Food contamination, direct exposure risks
- Environmental Impacts: Decreased soil fertility, ecosystem disruption, 33% of agricultural land degraded



NOISE POLLUTION

- Sources: Urbanization, transportation systems, industrial activities
- Impacts: Stress, hearing loss, disruption of wildlife



LIGHT POLLUTION

- Sources: Excessive artificial lighting in urban areas
- Impacts: Disruption of ecosystems, human sleep patterns, skyglow affecting 80% of the world's population

Consequences of Pollution

Human Health	**Climate Change**	**On Wildlife**	**Economic Costs**	**Social Impacts**
Cancer, Respiratory Problems	Global warming, Rising sea levels	Habitat destruction, Species extinction	Significant economic costs are associated with restoring damaged ecosystems	People's health, well-being, and enjoyment of their environment



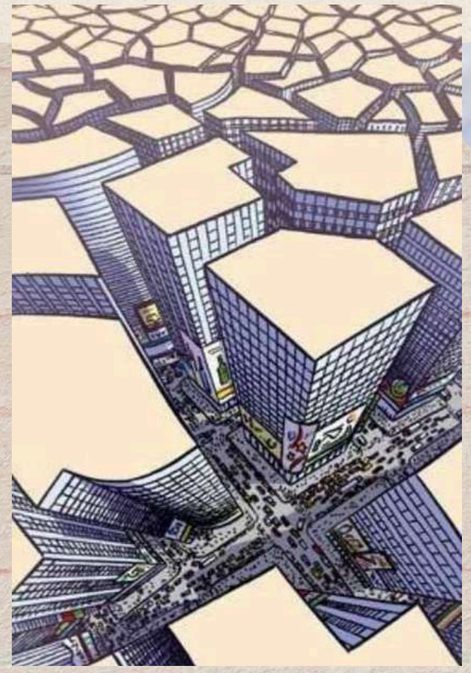
SOLUTIONS AND MITIGATION STRATEGIES

- **Air Pollution**
  Shift to renewable energy sources like solar and wind
  Promote public transport
- **Water Pollution**
  Enhance wastewater treatment
  Reduce plastic use and encourage sustainable farming
- **Soil Pollution**
  Adopt eco-friendly agriculture.
  Rehabilitate contaminated lands
- **Noise Pollution**
  Enforce urban planning and noise regulations
  Use soundproofing technology
- **Light Pollution**
  Install energy-efficient lighting
  Promote "dark sky" zones to protect ecosystems



WHAT CAN WE DO?

- Reduce, Reuse, Recycle
- Support renewable energy
- Use sustainable transportation
- Conserve water
- Get involved in community initiatives
- Educate and advocate for environmental protection









Together, we can create a cleaner, healthier planet for ourselves and future generations. Let's embrace our responsibility to protect and preserve our environment.











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THANK YOU FOR YOUR ATTENTION!

Does anybody have question?

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