

The 'Air of the Anthropocene' initiative

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About the 'Air of the Anthropocene' initiative:

- The “Air of the Anthropocene” project is an international initiative **combining art and science to visualise air pollution** through light painting.
- Artists and researchers collaborated to produce **photographic evidence** using digital light painting techniques and low-cost air pollution sensors.

What is Particulate Matter?

- Particulate matter (PM) is a complex mixture of small solid particles and liquid droplets suspended in the air. It includes both organic and inorganic particles such as dust, pollen, soot, smoke, and liquid droplets, which vary greatly in size, composition, and origin.

Impact of Air Pollution:

- **Impact on Public Health:** Particulate matter, particularly **PM2.5**, is linked to severe health issues, including **cardiovascular diseases, stroke, and respiratory diseases**. It is a leading cause of morbidity and mortality worldwide.

The **World Health Organisation (WHO)** estimates that **99%** of the global population breathes air that exceeds WHO guideline limits, with about **7 million premature deaths** annually linked to air pollution.

Q1. What are LEDs?

LEDs (Light Emitting Diodes) are semiconductor devices that emit light when an electric current flows through them. They are used in various applications, including electronics, lighting, medicine, and data communication. LEDs are known for their energy efficiency, long lifespan, and adjustability in terms of colour and brightness.

Source: Global project 'paints' evidence of air pollution in India

Source: <https://vajiramandravi.com/current-affairs/air-of-the-anthropocene/>

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