

Urbanisation - Pollution and related issues

Urbanisation: It refers to a demographic shift caused by movement of population from rural to urban areas.

Causes of Urban Pollution:

- **The Expansion of 'Grey' Infrastructure:** Grey infrastructure, which includes urban drainage and pluvial flood prevention measures, has expanded but it has not been integrated with green infrastructure, i.e. networks of natural lands, working landscapes, and other open spaces to conserve ecosystem values, to complement it.
- **Trajectory of Urban Development:** The focus is more on real estate development, a widening of roads, reducing the space meant for pedestrians, and redevelopment.
- **Vehicular Pollution:** Widening roads, in turn inducing people to buy more cars, while ignoring the fact that traffic snarls are increasing each day, thus leading to more pollution levels.
- **Particulate Matter Sources:** Road dust, concrete batching, polluting industrial units and their extension in the cities are key sources of particulate matter created pollution in Indian cities.
- **Construction activities**, which are on the rise in almost every Indian city, contribute to roughly 10% of air pollution in the National Capital Region region.
- **Pollution Escalating Events in Periphery of Cities:** Events like paddy straw burning in North India leads to escalation of pollution levels in cities during winters.

Impacts of Pollution on life of individuals:

- **Inequitable impacts on marginalised sections:** The poor and the marginalised are the least contributors to pollution but are the segment who are most exposed to it and who pay a heavy price.
- **Reduced lifespan:** Air pollution is taking away over 10% of our life expectancy. An average Indian loses 5.3 years of his life expectancy due to this.
- **Health issues:** Pollution results in burning eyes, irritation of the nose and throat, coughing, choked breath, and asthma apart from causing cardiovascular diseases.

Solution to the issues:

- **Transport sector paradigm shift:**
 - **Road Infrastructure:** Creating secure pedestrian paths and bicycle lanes with the creation of a post of 'bicycle officers', instead of widening of roads for motor vehicles.
 - **Public Transport:** There needs to be good public transport, with investment in buses for towns and cities. It must be accessible and affordable to daily travellers.
 - **Congestion Tax:** A congestion tax being levied on private car owners driving during peak hours can be thought of as a step to promote public transport use.
 - **'No Car Day' promotion:** City leaders, the elite as well State Chief Ministers should use public transport at least once a day as an example of token motivation. It can help making the 'No Car Day' a people's movement.
 - **Green Vehicles:** Transitioning to green vehicles is important for reducing the vehicular emissions.
- **Decentralise Effective Power:** Power needs to be devolved to the lowest levels for effective supervision of traffic norms. There must be street supervision by residents instead of waiting for the statutory bodies to react, which urban local bodies can ensure.
- **'Green Infrastructure' under community protection:** There shall be an integrated green and grey infrastructure development. Urban communities must protect, nurture and expand the green infrastructure around them.
- **Ecological Urbanisation:** Ian McHarg's influential book, written in the 1960s, '*Designing with Nature*', synthesised and generalised ecological wisdom shaping landscape planning and design as a way to build our cities. It refers to integration of ecological concerns in urban planning.

- **Standard Operating Procedures:** There must be a strong standard operating procedure for all the major cities to combat situation of air pollution. Delhi's *Graded Response Action Plan*, or GRAP (a set of anti air pollution measures), can serve as an example.

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