

Transforming Urban Mobility - II

Click [here](#) for Part I

\n\n

What is the issue?

\n\n

For the transforming urban mobility need, countries need focus on not just E-vehicles but mass and shared transit capacity as well.

\n\n

\n

What differentiate advanced cities are not highways and flyovers, but rather quality side-walks and cycle ways.

\n

\n\n

Why are e-vehicles gaining importance?

\n\n

\n

- The regulations governing fuel efficiency and exhaust emissions were given increased push in the recent decades.

\n

- Resultantly, a modern petrol or diesel car emits less than 5% of the harmful emissions of its predecessor from four decades ago.

\n

- So now there are very less options to gain any further improvements from conventional engines.

\n

- This has thus led to a wave of investment in Electric Vehicles (EVs), connected cars, autonomy and shared mobility.

\n

\n\n

What are the benefits?

\n\n

\n

- The focus of further improvements in EVs is in energy-density, power-density and cost of batteries.

\n

- EVs have zero exhaust emissions and lower carbon emissions than conventional cars.

\n

- So it is a suitable option for limiting the deterioration in urban air quality.

\n

- They have fewer moving parts, potentially lowering cost of manufacture and extending useful life.

\n

\n\n

What are the larger concerns and solutions?

\n\n

\n

- **Single occupant cars** - Electric cars are alone not the panacea for urban mobility.

\n

- In many cities a good fraction of rush-hour traffic comprises single occupant cars.

\n

- This takes a toll on both space and energy, which could have otherwise been used by a larger number if shared.

\n

- Cities like Singapore, New York and Tokyo seek to sustain high population densities and high economic activity per square km.

\n

- They have therefore come to depend on mass transit and shared mobility and discourage use of private cars.

\n

\n\n

\n

- **Mobility solutions** - The developments in digitised economy has facilitated many promising shared-mobility solutions.

\n

- The new generation that is digital-friendly is growing comfortable with alternatives to car ownership.

\n

- They increasingly employ varied mobility solutions and apps for motorisation.

\n

- E.g. Uber and Ola have proven useful to many affluent urban commuters.
- Cities such as San Francisco and New York have extended this concept to vans, aggregating 10-12 passengers at a time.
- This results in further lowering of cost, energy use and carbon emissions per commuter.
- **Inclusiveness** - The wave of urbanisation in many countries has largely redesigned the cities as middle class spaces.
- Lower income groups have thus been forced to the peripheral suburbs.
- This has lowered their opportunities and increased the cost and time for commuting.
- The tenets that govern new mobility architectures must thus promote inclusive access to mobility.
- E.g. Mexico has defined mobility as a basic human right and this helps steer policies that are inclusive.
- **Neglected modes** - Many cities are also re-discovering neglected travel modes that are augmented with modern technology.
- Pedestrian zones and short passages are reappearing in cities like Seoul, Barcelona and New York.
- Bike-lanes and bike-sharing solutions are a growing trend in Amsterdam and Paris.
- There is a need for accelerating investments in these low cost and environment-friendly modes.

\n\n

\n\n

Source: BusinessLine

\n



SHANKAR
IAS PARLIAMENT
Information is Empowering