

Hyperloop Technology

Source: IE

Recently, **hyperloop technology** was highlighted for its energy efficiency and sustainability.

- Hyperloop is a transportation concept developed by <u>Elon Musk</u> in 2013 that would use pressurised tubes and capsules to connect mobility hubs in large cities.
 - The capsules, called **pods**, would float at high speeds using contactless levitation and **electromagnetic propulsion systems,** along with low **aerodynamic drag**(the force which is faced by the vehicle as it moves through the air).
- Hyperloop would be a green way to travel that could reduce the need for driving or flying and could also free up traditional train lines.
- Hyperloop technology faces several challenges, including the high cost of building and maintaining the infrastructure, the technical complexity of maintaining a vacuum in the tubes, and the safety concerns associated with operating a high-speed transportation system.

Ш_



PDF Refernece URL: https://www.drishtiias.com/printpdf/hyperloop-technology