

## **Janusz Poliński: Exploring the Railway of the Future – Hyperloop**

The article outlines the ongoing efforts surrounding the fifth mode of transportation (after rail, road, water, and air transport), which is the Hyperloop system. The technology of this system is based on three elements: the tube (inside which air pressure is significantly reduced), the vehicle (a levitating capsule), and the terminal (a place for exchanging passengers or carrying out cargo activities). Although the idea of the solution was popularised by Elon Musk, the history of the first concepts dates back to the 18th century, as evidenced by the examples cited. The information includes descriptions of historical solutions and highlights the main companies currently involved in the development of this transport system, conducting basic research aimed at future use of this ecological technology for transporting people and goods.

**Keywords:** rail transport, high-speed rail, magnetic levitation, hyperloop system