

# Elevated Magnetic PRT

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## Description

*\*Magnetically levitated individual pods suspended from an elevated track that travel at high speeds of up to 130 kph.*

Elevated Magnetic PRT system would be an affordable public transport with a small footprint. Magnetic levitation is a mature technology but requires high investment and energy for construction and operation

### 1. Expected impact

- Change in urban form/ design – tracks are elevated over the streets
- Affordable/ low cost of travel
- Reduction in number of trips and lower parking requirements

### 2. Technology & infrastructure requirements

Main requirement is infrastructure (tracks, stations). Technology is already in use (propulsion by linear induction motors and magnetic levitation but would need to be adapted.

### 3. Regulatory requirements

- Safety regulations for passengers as tracks would be elevated

### 4. Investment requirements

- High investment in infrastructure – dedicated new tracks and stations will need to be built
- Construction of elevated track is expected to cost ~ 10-14 USD million per km

## Tags

Elevated magnetic PRT

Future mobility

PRT

## STEEP

- Technological

## Links

## TRENDS

Driverless Roads and Transport Infrastructure of the Future

New Modes of Public Transport

## Projects

## RTA Future Scanning - Information & Trends

Rating criterion	04.06.2020
Importance	