

# Autonomous Trike

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## Description

*\*The autonomous trike, sometimes known as the Persuasive Electric Vehicle (PEV), is a lightweight, low-cost, agile and potentially shared autonomous tricycle that can either provide an autonomous or electric-assisted transport mode for individual passengers, or function as an autonomous small cargo delivery vehicle*

The autonomous trike is a practical and green mode of transport that could revolutionise how we travel short distances.

### 1. Expected impact

- High accessibility – enables access for wide group of people
- High convenience and promotion of active lifestyle – Provides the user the choice between pedaling, using electric motor assist or autonomous
- Not good for long distances
- Potential reduction in vehicle ownership – can replace the car for short trips
- Potential increase in number of trips made on account of convenience

### 2. Technology requirements

Most technologies are in use today, for example LiDAR sensors, Radars, Cameras, Ultrasonic sensors; Vehicle-to-Everything (V2X) technology should be improved. Infrastructure requirements for the most part are not challenging.

### 3. Regulatory requirements:

- Regulation for man-machine interaction
- Regulation for liability management

### 4. Investment requirements:

- Very affordable
- Infrastructure investments relatively low as autonomous trikes will mainly use existing bike and road infrastructure

## Tags

**Future mobility** **Trike** **autonomous**

## STEEP

- Technological

## Links

## TRENDS

Self-Driving Transport

## Projects

## RTA Future Scanning - Information & Trends

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Importance	