

Dear Sir,

Moving Road is a new concept in the domain of transportation system. 5 concerns were addressed while conceiving the idea of the Moving Road. There are expected to be 5 benefits: Cities will be free from traffic jams. This system is Eco-friendly. It will save Fuel/ electricity. Annual outlays on transport can be pared down. The cost of implementation is low and this can be achieved by available technical know-how.

For details please visit the following links.

https://www.youtube.com/watch?v=6Z6WPnZ6f_Y

https://en.wikipedia.org/wiki/Moving_Road

<http://www.thedailystar.net/city/road-moves-1468276>

Best regards,

Abu Sayeed

Innovator

Article on Moving Road

Over the past hundred years there has been a paradigm change in transportation system. For this change we have got some interesting vehicles as well as a huge change in roads infrastructure. People have made vehicles for transportation and for them they created roads. There was a need to widen the roads and when it was not enough they built underground roads. Flyover and elevated expressway were constructed as well.

All these kinds of development have been done with the aim for free movement of people. But in different cities traffic scenario is getting complicated day by day.

Beyond doubt the prime problem of the day for all cities of the globe is air-pollution and traffic congestion. The main source of air-pollution is fossil fuel used by automobiles. Added to that traffic jam has reached such an impasse that in a city like Dhaka everyday 1.2 million working hours are wasted being stuck on the roads—a waste of 300 Billion of taka. Possible that here are many cities, those have similar problems or more.

But in many cities, this approach is no more effective. Cities are getting mired in traffic snarls.

Flyovers and expressways are complex solutions. Also, in encouraging the use of fuel driven vehicles, these options threaten the environment.

In view of the current perspectives in any city, a new concept is proposed for resolving the crisis of traffic jams. This concept has been named The Moving Road.

Moving Road is a unique project which has no parallel as yet—the project will open a new chapter in the transportation system. 5 concerns were addressed while conceiving the idea of the Moving Road. There are expected to be 5 benefits: a. Cities will be free from traffic jams. b. This system is eco-friendly. c. It will save Fuel/ electricity. d. Annual outlays on transport can be pared down. e. The cost of implementation is low and this can be achieved by available technical knowhow.

The first concept paper about Moving Roads was presented on 22 August 2017 at Bishwa Sahitya Kendra situated at Banglamotor in Dhaka, Bangladesh. This concept note was presented by Abu Sayeed. On 9 September 2017, Abu Sayeed represented the concept note along with an audio-visual presentation Between 24 and 26 September 2017, at the Sculpture Gallery in Bangladesh Shilpokala Academy, Abu Sayeed exhibited a working model of the Moving Road.

B.

Availability of adequate space is the biggest challenge for building elevated expressways and flyovers. As a result, such projects aren't feasible in many cities. Flyover systems use multiple tier overpasses. Innumerable crossings and flyovers in any city isn't easy. There's dearth of space too. Even if there is space how many layers of roads can we build? 6, 7 or 8, and then? We have to agree that all progress has limitations and an end.

Moving Road is neither an underground structure nor an over ground one which can be arranged in many layers like elevated express ways. It doesn't need a lot of space. Rather it needs minimal space compared to existing systems. Other than that in conventional transportation system vehicles and roads exist individually but *Moving Road* is such an installation which will move automatically. At the same time it will

serve all the facilities of traditional transportation system to the passengers. Undoubtedly the *Moving Road* plan has some exclusive differences from the traditional ones.

Lifting cars above ground is a complex process. The ramps are often as wide as the roads. But getting people to climb is easier. Ladders, escalators or lifts, getting people to climb is an easier process. The *Moving Road* conceives methods for elevating people, not cars.

The *Moving Road* can be laid over existing roads, in the middle, or, along either side. Irrespective of whether it is placed along the centre or the extremities, the *Moving Road* will be elevated to a height of 20 feet above ground level. Regular vehicles will move accordingly below the *moving road* and the existing road network will not be disturbed by this project.

If it is built in the middle of the road then two tracks, each 6 feet wide *Moving* in opposite directions make up the *Moving Road* system. On either side of these tracks, there will be two platforms, about 8 feet wide. On each track above a pair of rail lines, will run plates admeasuring 72x30 inches.

Each plate will be fixed on the rail system and will each be fitted with two chairs. If there is a crowd, users can even stand beside the seats. For wind proofing, fiber sheets may be attached to steel frames. The *Moving Road* will be covered with a roof. The extremities of the platforms on either side will be fenced with steel railings. If need be, some sections may be enclosed in acrylic sheets. If air conditioning is required, the entire space must be covered.

Passengers will be able to access the platform of the *Moving Road* from the footpaths of the streets using a system of stairs or escalators. Ticket counters will be placed at points of entry. It will be better if access points for entering the *Moving Road* are provided at intervals of 200 meters along the footpaths. One in every three over bridges should have escalators to facilitate the movements of the aged, infirm or disabled. There will be over bridges connecting the *Moving Roads* on either side. This over bridge needs to be placed only 12 feet above the platform.

Irrespective of the length, whether 5 kilometers or 50 kilometers, the *Moving Road* will remain in continuous motion, like a vehicle. Speeds inside the city may reach between 20-60 km/hr and in highway between 100-120 km/hr. The *Moving Road* will keep stopping for 5-10 seconds at intervals of 1-3 minutes. The travelling speeds and durations of stoppages of the *Moving Roads* may vary from city to city and place to place, depending upon local needs. Different *Moving Roads* in the same city may move at different speeds, like one @ 50 km/hr and another @ 20 km/hr.

Street junctions hinder the flows of traffic. For ease of movement, flyovers are layered. In a two tier system, one *Moving Road* will over cross or overpass another. A single tier system will envisage the *Moving Road* taking a U-turn after reaching a junction. At junctions, *Moving Roads* will return in U-turns. But roads for vehicles can't be u-turned because cars are essentially forward moving vehicles. Passengers will be able to alight at the point of u-turn and continue ahead on foot over the platform to get on the next *Moving Road*. This structure is impossible when using cars. Therefore flyover systems use multiple tier overpasses.

C.

Disembarking from one bus or train to catch another is tedious for passengers, made worse during the monsoons. But passengers on the *Moving Road* need not suffer this trouble. The *Moving Roads* in any city will be disconnected from each other, but the platforms will all be connected. Passengers will be able to change from one *Moving Road* to another by using the platform. Say, a passenger gets up on A-B route of a moving road but s/he wishes to go to M. But M isn't in route A-B, it's in route C-D. In that situation the

passenger can get down at a place, let's call it N, and then get on to C-D moving route. Though A-B and C-D are on separate moving roads, there will be link between them through platforms. There can be hundreds of routes in moving roads in a town but for the convenience of the passengers there would be facilities of easy movements from one platform to another under the same shed. Irrespective of flooding, the Moving Road will continue to move according to schedule.

Moving Road is a different kind of transportation system. The Moving Road envisages a new world of transportation, moving away from the crisis ridden existing road system. Our world won't meddle with existing structures. But yet, it will deeply impact the existing transport structure. The Moving Road system will be devoted to fulfilling five tasks, one of which is to help travelers reach their destination. Once implemented, the mass of commuters will get onto the Moving Road. Add to them those who hire cabs and taxis. The pressure on the existing infrastructure will be reduced and the road system will be freed of traffic jams.

Traffic congestion is creating a painful stagnation globally. The project will ensure mobility. In many cities including Dhaka the average speed of transportation has come down even below 10 kilometers per hour. The project will help it increase to 40 to 50 kilometers per hour.

Moving Road is implementable in all the cities of the world including Dhaka. Moving away from a traditional concept *Moving Road* happens to be an alternative to the inherent drawbacks that are strung with traditional system. In fact there exists no pragmatic solutions to the existing transportation problems faced by cities like Dhaka. Added with the traditional transport system *Moving Road* will open a new dimension in the commuting network.

Since it will be run by electricity possibility of air-pollution will go down to near zero for which mainly the fossil fuel run automobiles are responsible. This will again be possible because number of automobiles plying on the existing roads will go down significantly.

The advanced concept envisages parallel lanes in the same direction, including lanes for bicycles and also walking tracks. Elevated walkway and bicycle lane will be more health friendly. Because of user will be in elevated position and move from a distance and be able to avoid the direct contact of smog and dust created by running fossil fueled vehicles.

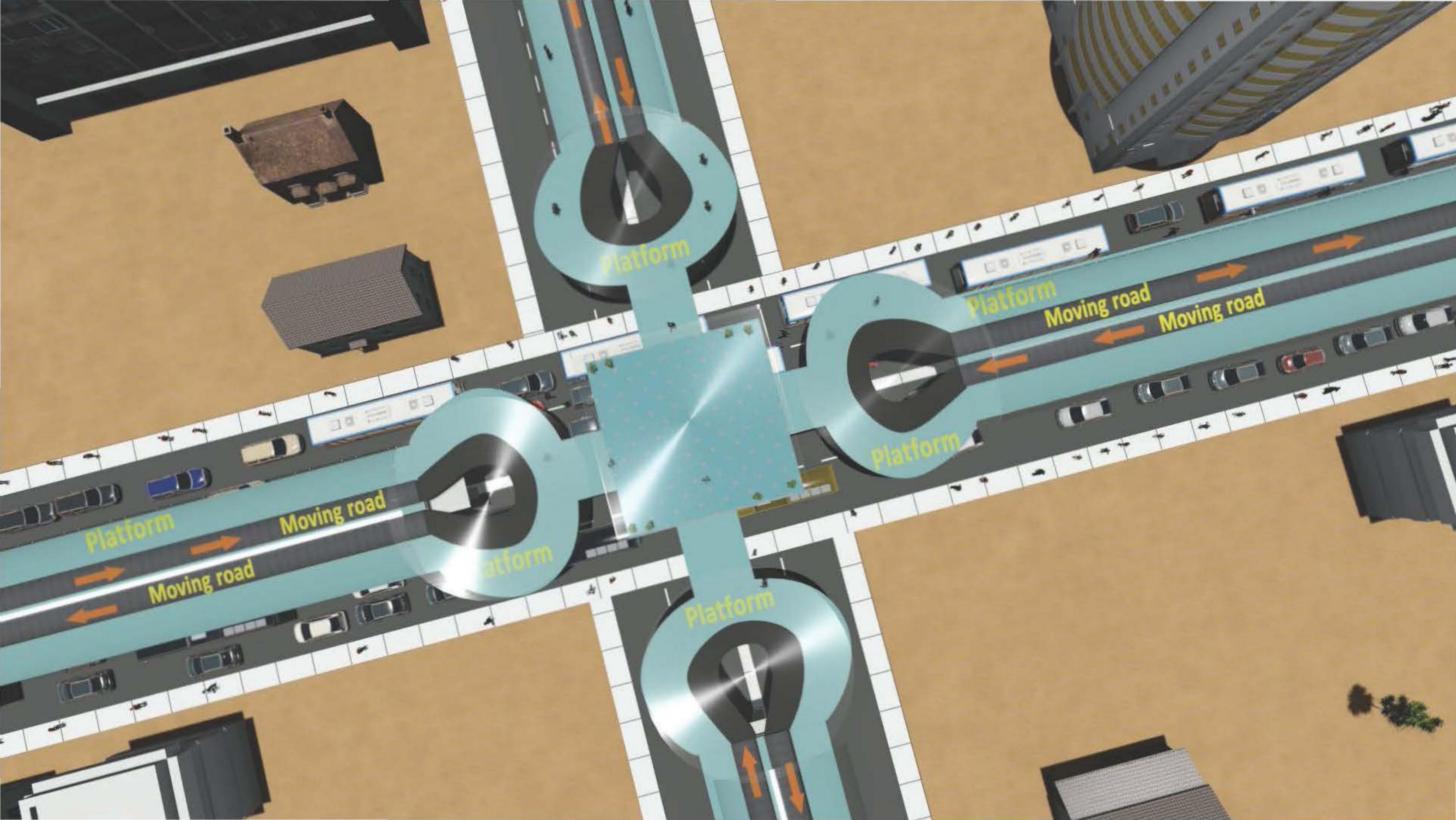
Removing traffic jam, reducing air pollution, easy technical expertise, low cost of installation and maintenance are the main features of the project that will make it sustain for a long time.

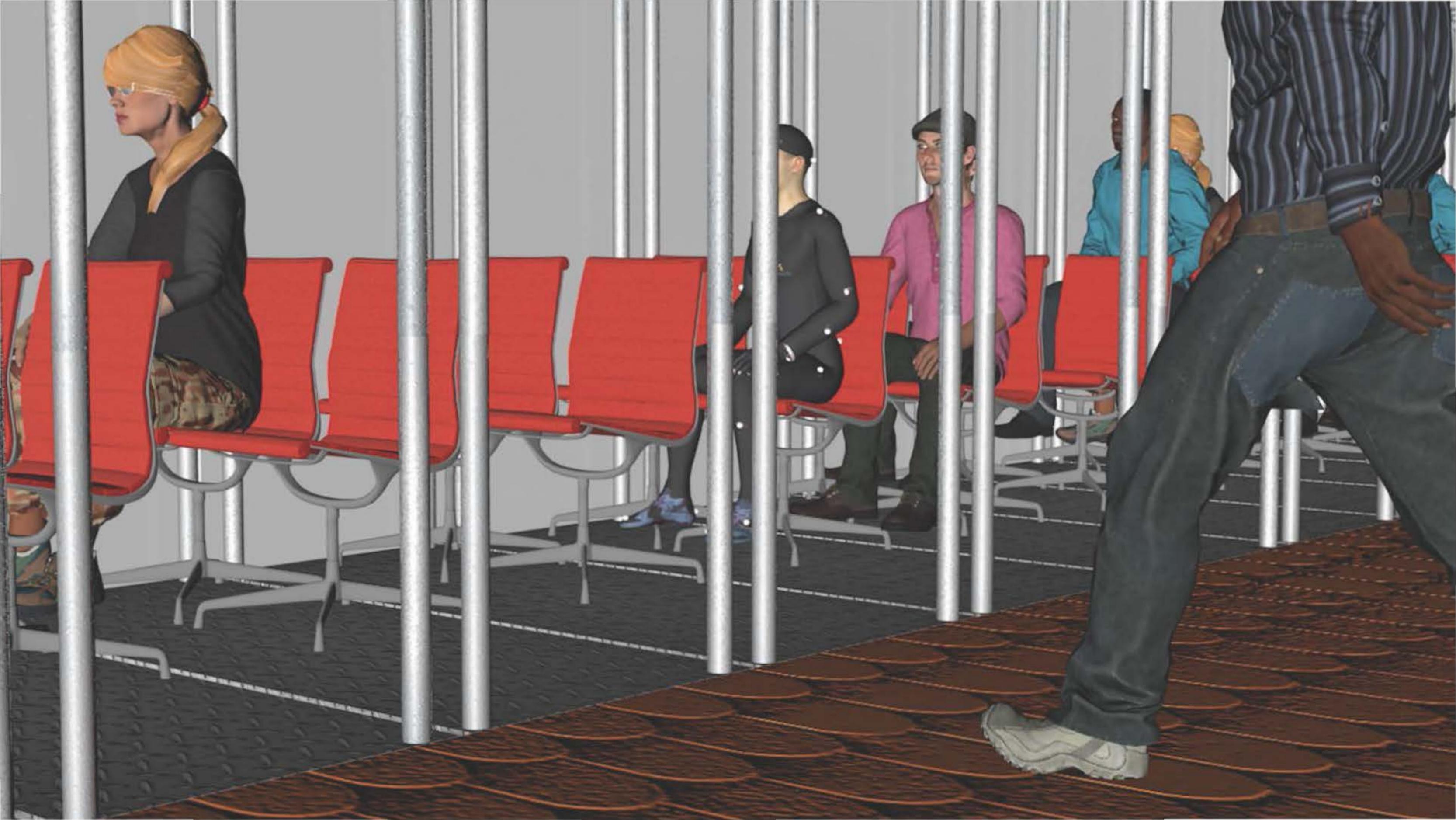
Single Level
U-turn
Method



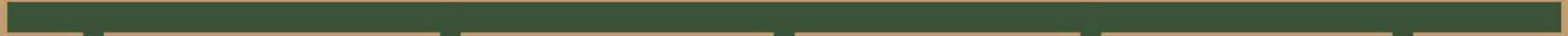
Double Level
Overpass
Method







Moving Road



Cities will be free from traffic jams.

It will save Fuel.

The cost of implementation is low and this can be achieved by available technical knowhow

This system is eco-friendly.

Annual outlays on transport can be pared down.