



Revolution in city public transportation Systems

MISTER is an acronym for **M**etropolitan **I**ndividual **S**ystem of **T**ransportation on an **E**levated **R**ail.

It is an innovative version of PRT type (Personal Rapid Transit) of city transportation system, where small (small car size), fully automatic, driverless vehicles are travelling independently suspended under an overhead network of light guideways, some 10 m (30') above city streets. All trips are only on demand and individual, therefore absolutely safe (no need to share vehicle with strangers). They are taking place from start to any destination station without stopping and with an average speed of some 50 km/h (30 mph).



MISTER prototype demonstrated In Opole city (Poland), which was the 1-st city In the World to give permission to build a city-wide MISTER system.

MISTER system components

1. Aerial (3D) infrastructure – columns supporting light, open guideway, structure.
2. Small OFF LINE stops, which therefore do not block any main line traffic.
3. Small automatic vehicles, electrically powered from external traction, for 1 to 5 persons.
4. Distributed but integrated computer systems.

Benefits of MISTER system

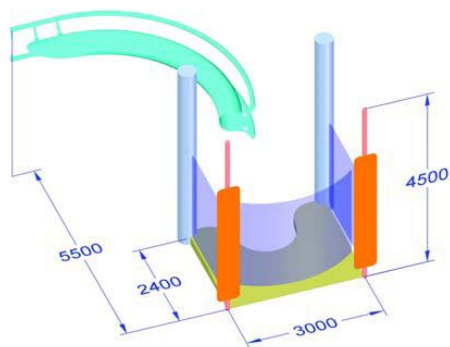
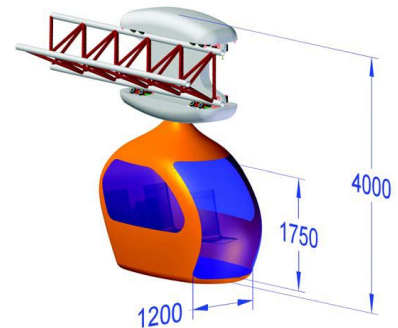
- High throughput (better than buses or light rail/tramways or even metro - for the comparable development costs)
- No collisions - maximum safety
- Individual and direct travel between start and destination - no queuing, no delays and no congestion within MISTER system
- Comfortable - climate control, information and multimedia entertainment
- 100% accessible at all stops for wheel chairs, baby chairs and bicycles
- Level floor at all times and no seatbelts necessity
- Major reduction of transit times (average speed of 50 km/h [30 mph])
- Major reduction of air pollution (small electric motors, no exhausts, no oils or wearing tires)
- Substantial reduction in energy consumption per payload unit (approx. 10% of bus)
- Major reduction in cost and time of infrastructure development even along inner city roads
- Major reduction of real estate need for infrastructure, 45 deg. climb angle (small stops footprint)
- Anti-terrorist nature, due to "target dispersement"
- Flood proof, as it operates with clearing of 6 meters, or higher, above the ground
- Reduction in remaining road vehicles congestions, accidents, traffic jams
- Reduction in number of trucks delivering/collecting goods within the city – MISTER cargo deliveries
- Special police and ambulance vehicles for quick access to any part of the network





Comfortable cabins with 3 + 2 folded seats arrangement, air conditioning and entertainment system. Standard vehicles can be used for goods transportation using euro-containers.

Stations (stops) are off-line, simple and easy to install. They consist of modular structure with modern design and very small ground area requirement for single vehicle.



- Max of 5 parallel bays form a stop
- Vehicles arrive and depart in any sequence
- Buffer guideways for overflow and empty vehicles are above the stop, improving system flexibility
- Each 5 bay stop can handle approx 1000 vehicles p/hr, i.e. 1000 to 5000 passengers
- Stops are very frequent – min. 3 per km in each direction, with potential of 10 per km (private).

Other highlights

PERSONAL SAFETY

- Video monitoring inside/outside and at the stations
- No ride sharing with strangers — no pickpockets, no attacks
- Emergency buttons for redirection to hospital or operator assistance
- Anti vandalism protection

SYSTEM RELIABILITY

- 300 000 km (180 000 miles) fail safe travel target per vehicle
- redundancy of all mechanical and electronic components

ENERGY EFFICIENCY

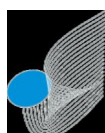
- No tires = lower friction
- Traction power as main means of propulsion = efficient / ecological
- Braking energy recovery

COSTS and THROUGHPUT (per kilometre / 0.6 mile of 2-way guideway)

- € 5 (\$ 7) million with 100 vehicles and 6 stops (5% of metro costs)
- 7 500 passenger-km (4 500 pax-miles) per hour at 1,5 person occupancy per vehicle

A 100 km 2-way MISTER system (same cost as 5 km of average metro) can transport 75 thousand people every hour over 10 km average trip, in full comfort (1,5 person per vehicle, aircon...), at a cost of €2 per trip and bring a profit of €170 mln p/year. Think !

Investor and other enquiries :



MISTER Ltd.

Niedziałkowskiego 1/4, 45-085 Opole, Poland
phone: +48(0)793 044 555

info@mist-er.com , www.mist-er.com