

CRAM OF THE PROSPECT TRANSPORTATION

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Abstract— Transportation has had a fundamental influence on both the social and the economic development of society, as well as on the location and the design of the built environment. A major question for the future is whether transportation should play a central role as it has in social organization. The answer to this question will be determined as much by changes in the social order as by transportation technology. To evaluate future transportation systems, it is necessary to place their essential purpose (i.e., accessibility) in a larger context. Therefore, the first section of this paper is concerned with the functional role of transportation in the organization of the society. A second consideration in the future development of transportation is the characteristics of the potential users of this transportation. Transportation is a mediating system, a means of linking people and goods, and its effectiveness depends ultimately on the capabilities and limitations of the users as well as on their perceived needs and requirements, which must provide the basis for the design and operation of transportation. Such a rationale for system design is developed in the main body of this paper.

1. INTRODUCTION

Urban transportation methods are discussed from pre-history to possible future systems. Traditional developments have given advantages of distance, speed and cost of ownership but it is proposed that, until recently, there has been minimal innovation in over a hundred years. Future automation systems are promising totally autonomous driverless vehicles without the need for roadside signs and signals. Some reports claim that driverless vehicles will, among many other benefits, prevent accidents and resolve congestion. In the near term, and while unconnected vehicles are still prevalent, current controls will still be required. Wholesale public acceptance of driverless vehicles is not considered to be a certainty. It is concluded that the developments are more likely to affect the connected human driver than the connected vehicle.

2. EXISTING TRANSPORT

Nowadays we are driving the cars and other automobile our self but this condition should not be continues ever. Because we are now moving into the automated and digital world, then why our transports only in manual form. Let us make the ride relax.



Figure 1 - Today's transports

3. FUTURE TRANSPORT

Transportation technology is continuing at a slower velocity than the other sciences such as IT, bio-tech, and nanotechnology. As an example, the world's human speed record was set in 1969, a full 37 years ago, when Thomas Stafford, John Young, and Gene Cernan flew in Apollo 10

at 24,790 mph. While there is much talk about flying at a speed that approaches the speed of light, very little effort is actually being expended in this area.

Transportation technology is on to move in advance more rapidly in the upcoming years with the start of two radically new technologies – roughness less vehicles and binary power.

Throughout history we have learned that the two principle driving forces of humanity are freedom and control. While current automotive technology gives us the freedom to drive as fast or slow as our vehicle will take us, and control over our timing and direction, we are still limited to driving on the ground and we have a hornet's nest of laws to challenge with on the subject of speed, run, and process.



Figure 2 - Flying Cars

4. TRANSPORTS

CAR: FLYING CARS:

Flying cars are seen in the movies may not be so far in the upcoming as it may appear setoff an a plan to build the means of public transport that can fly due to magnetic levitation technology. The project received the name Skytran this public transportation will function as a taxi service individual will call a car to get them from one place to another sky transit CEO Jerry Sanders wants the service costs to rehire the met of buses but lower than a taxi.



Figure 3.1 - Flying Cars

AUTOMATED CARS:

In 2050, this is leaving to be the major transform in this century. Humans will not have to worry about driving and the concept of vehicles will become more impersonal. The transition from driven cars to driverless cars will be interesting. Not only driving, the cars can automatically detect the body condition when we feel sleepy while driving and it will automatically change into auto driver mode. We can shop the things within the car and an aerial pickup will shop the things in market and it will place it in home. When we arriving home within 5minutes, now we just give intimation the home will be automatically do its work like switch on the lights, heating of milk, etc.,



Figure 3.2 - Automatic Cars

BUS: DRIVERLESS BUS:

Automatic driving buses could transfigure transport in main cities in the region of the world. Some European cities are previously testing the idea. In Estonia, such buses have already hit the streets.

Fitted with cameras and a radar device, the small vehicles are operating autonomously around the city of Tallinn. The Simi buses examine the area all the time, allow them to respond to any dangers. This is still a pilot project and the buses travel at a snail's pace. But proponents say this is the future of public transportation.



Figure 3.4 - Driverless Bus

TRANSPARENT LCD BUS:

Buses are not particularly attractive. Block side and hacked jointly marketing make them undulating blight in the city scenery. So what if you could change the design on a whim, provide useful information to travelers, and make

some extra scratch for the city? Tad Orlowski's Willie Bus does just that. Using apparent LCD display outside layer the entire outdoor, municipalities can scheme almost whatever thing on the screens. And it looks a lot better than some slapped-together ad for a local ambulance chaser.



Figure 3.5 - Transparent LCD Bus

ELEVATED BUS

The rapid coach would be a supernumerary for BRT and supplement its advantages. To adapt the thoroughfare for the bus, two options are available: rails can be lay on the boundaries of the lanes that the bus occupies, or two white lines can be painted on the road to facilitate use of autopilot technology. Rails would offer less wheel rolling resistance and better energy efficiency. For either option, it may be necessary to widen the roads occupied by the bus to contain the bus wheel and undercarriage whilst permitting other vehicles to pass under the bus two abreast. Since the bus is not advanced than a tractor prevue, roadway bridges will usually not will be a problem.

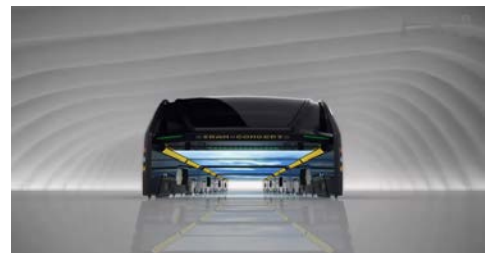


Figure 3.6.1 - Elevated Bus



Figure 3.6.2 - View Of Elevated Bus

TRAIN

ENERGY TRAIN

Most of the alternative energy methods sacrifice speed and determinant of the friendly environment fuel but this is not the case with this project. Solar bullet is the campaign that suggests the concept of high speed train fuelled by alternative energy running on the tracks

equipped with solar panels. The tracks would produce up to approximately 120 Mega Watt needed to power the train which would ultimately connect Tucson and Phoenix for an estimated prize of 27 billion Dollars.



Figure 3.7 - Energy Train

HYDROLOOP

The impression of ultrafast communal transportation is not only a dream that a real technology in the process of growth. Hydroloop is a project funded by Elon Musk the founder of Tesla Motors. Its main goal is to connect San Fransisco and Los-Angeles with a trip of around 30 minutes. Hydroloop is a steel tube with dreams travelling with the incredible speed of 760 miles per hour which recharges itself with the renewable solar energy.



Figure 3.8 - Hydroloop

VACCUM TRAINS

The idea of magnetic levitation trains implemented in china and japan has been in operation for several years already trifling a train with magnetic force to transport it with a speed of around 300 miles per hour has not received world wide appreciation. Though the newly projected idea for one of the future transportation systems might the exiled tube transport system suggest placing the maglev trains and evacuated tubes which will increase the speed up to 4039 miles per hour. The tubes would be connecting the major cities of the world to allow for significantly faster international travel.



3.9 - Vaccum Trains

FUTURE METRO TRAINS

This is an idea of future transport. The innovative mode of transportation that you can shape today. The airplane can be out of crushed result (out of ground effect) or in it. The screen effect is observed when the helicopter hovers close to the ground, where the air flow produced by the propeller, is reflected from the surface. Thus, the shove of the airplane is improved at the same angle of sensation of

the knife-edges. The result is marked in peaceful climate on a flat, solid outward. The display effect is observed at a minimum, provided that the distance between the housing and the substrate equals the length of the blade. In this situation, the pilot's duty is to rise the total move to steady the restriction. This reduces the real power that can employ a pilot, then there is a potential height of hovering at reduced accordingly.



Figure - 3.10 - Future Metro Trains

FLIGHTS: SKYLON

Skylon is one of the future transportation approaches hopeful wild and informal admission to the outside interstellar. Essentially, a airplanes goal is to travel 5 times quicker than the hurry of the complete in order to discontinue our worlds orbit and go into outside space however the skill can substitute the regular airplanes making the trips significantly shorter imagine flying from United Kingdom to Australia in 3-4hours. Skylon could make it possible.



Figure 3.11 - Skylon

AETHER CRUISE

Founded on an dirigible stage, the Aether voyage practice by UK-based fashionable mac buyers allows visitors to practice a broader range of terminuses in a smaller time, all the while enjoying the highest views imaginable. the exterior of the vehicle is conceived to look unlike any airship ever produced – removing notions of danger, like the hinder burg disaster in 1937 . the idea visually interconnects a fresh cohort airship that is not only safe but clean, influenced by the thunderbird 2, star wars and the NASA space shuttle. drawing reference from suspension bridge cables, the lobby integrates structural cords for details like stairways and tables. the interior space has been designed to be as open as possible – encouraging social interaction and providing a communal gathering place for users to meet.



Figure 3.13 - Aether Cruise

**5. ADVANTAGES & DISADVANTAGES
FUEL LESS VEHICLES**

Electrical automobiles (EAs) are mainly an auto-centric, manufacturing method to the problem, whereby automakers have replaced the interior burning appliance with battery motorized electrical motors. This dramatically increases the fuel economy of the vehicle and eliminates tailpipe emissions. The rise of Tesla Motors and their commitment to create luxury electric sports cars has created positive momentum for EVs. Now nearly every major automaker in the world has an EV in the production pipeline. The development of new Lithium-ion battery technologies with much higher energy and power density has also made EVs more competitive. Eventually, EVs will be designed specifically around new electric drivetrains such as in-wheel electric hub motors, which eliminate the need for transmissions and gearboxes, further improving both driving and environmental performance



Figure 3.14 - Rechargable Bunks

DRIVER FREE

Independent vehicles are no extended science literature, thanks to the initial funding efforts by the US government's Defense Advanced Research Projects Agency (Darpa). Tests have shown that the concept will work on real-life roads. The Urban Challenge in 2007 shifted the focus of this research to the complexities of city driving. Six teams out of 11 semifinalists finished that race, therefore validating the technology. Since then, automakers such as GM, Audi, Toyota, and others have invested the concept. The Google Driverless Car has already logged 300,000 miles on California roads without a human driver. After consciousness raising by Google, the states of California, Nevada, and Florida now permit driverless cars.

HIGH COST

It is the only disadvantage in future transports, because even all of the above are useful. Each of them are most costly when compared to present transports.

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