

softness is to great improvements in the steering column at the passenger compartment. 1997 – the appearance of EuroNCAP – the European Committee of the independent crash tests of cars with the method of assessment of active and passive security. Since 1997, rock has been actively working to complete all the elements cars that are recognized for active and passive safety, especially body structures.

Perspectives for the development in the XXI century of car bodies are motivated by the further development of the principle of progressive deformation of the body and structures, motivated by this principle, more and more usage of light materials, such as aluminum, high-quality steel, composite materials (sandwiches or multi-sphericals), various types of plastic, from which traces are seen in carbohydrate fiber or carbon, which can be seen today wider in the car promiscuity.

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TRANSPORT OF FUTURE

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Humans constantly look forward to the future with fear and hope. In fairy tales, fiction and non-fiction films and books, they invented a whole bunch of ways to look there, visit and satisfy your curiosity, drive away anxiety. The reality is completely different. We still need to invent a time machine or a magic crystal ball. So the future remains a mystery. But there is a way out. One day, William Gibson, a famous science fiction writer, suggested that the future is already here, but it is simply unevenly distributed across our planet. You can agree with that. So there are people among us who already live closer to the future.

With the development of technology, the world is changing. Every day there are new scientific discoveries. In my opinion, there will be many more inventions in the future that will make our lives easier.

I believe that there is no future without traffic either. In all times and among all nations, transport has played an important role. At the current stage, its value has increased tremendously. Today, the existence of any country is unthinkable without powerful transport.

What will the transport of the future be like?

I want to offer more modes of transportation of the future.

Maglev train

Trains flying above the surface of the earth are no longer fantastic. A magnetic cushion train, magnetic plane or maglev (abbreviated as "magnetic levitation") is held above the road, propelled and controlled by the force of an electromagnetic field.

Unlike conventional trains, the maglev does not touch the surface of the rails while moving, thus avoiding friction. This allows it to accelerate at almost the same speed as an airplane. Such trains have been going to China for a long time. For example, the world's first commercially available magnetic spring line went into operation in Shanghai in 2004. It connects Shanghai Lunyang Lu subway station with Pudong International Airport.

Electromagnetic trains are not yet a very popular mode of transport due to high costs and the need to build special lines. But it is a very promising way of traveling - due to its high speed and reliability.

Bus cloud

According to the designer's idea, passengers could climb on a "cloud"; steps between parking, and on the road just sit on the balls and swim in the wind.

Portugal has arrested the perpetrator of the crime who crashed the American plane in New York 40 years ago. Portugal offered a revival of the original journeys - when people went to great lengths without knowing where they would end up.

“Why do we always move at high speed? Why do we know everything in advance? Why do people go on a journey and return on time? Today everything is

solved and everyone is always on the run. It is time to re-examine the concept of travel and enjoy it properly,” says designer Thiago Barros.

His project is "Passing Cloud" - a steel structure with attached balloons, between which a nylon fabric is stretched. Something similar to an airship shaped like a cloud, and has the same behavior: A passing cloud moves with the speed and direction of the wind, notes the designer.

According to Thiago's idea, passengers could climb the "cloud" while parking, the stairs, and just sit on the balls on the road. “It is a unique journey, a journey in a cloud within a cloud, with an open schedule and an unknown end. It's a journey that becomes wealth," Barros explained.

Passing Cloud is an innovative and environmentally friendly mode of transportation that does not require steel rails or concrete highways.

According to the designer, potential "clouds" can cover the entire Earth almost for free and with the help of wind.

Terrafugia TF-X Flying Cars

In the spring of 2013, the American company Terrafugia began developing a flying car with a vertical takeoff and landing system. The TF-X will work on the basis of a hybrid electric motor - it will allow charging the car from a simple socket. The developers of Terrafugia claim that the TF-X will be able to accelerate up to 322 km / h in the air, and the control of the car will be no more difficult than a simple sedan. But before the first start, the drivers will have to undergo a special five-hour training. To start the flight, the driver must specify the desired landing location and several alternatives - the TF-X system constantly analyzes the flight conditions and can adjust the direction. Terrafugia has estimated that it will take about ten years to begin mass production - a prototype car, built on a scale of 1 to 10, has already passed test tests. The purchase price of the Terrafugia TF-X is unknown.

Developers of technology for the future of transportation face several global challenges that are relevant to current industry challenges worldwide. One of these tasks is to reduce the time it takes passengers to get from point A to point B. Developments in this area will help eliminate congestion and optimize travel time.

Today, this is a pressing problem in all metropolitan areas, so more and more people are choosing to use the subway or the city train. Another, no less global task is to abandon carbohydrate fuel and save energy resources. Developments in this area will help improve environmental conditions in major cities and generally become independent of the planet's resources. The third task is to increase the safety of passenger traffic. Unfortunately, 90% of traffic accidents are caused by drivers. Therefore, they are now actively deploying unmanned traffic management technology. The use of these technologies can reduce traffic accidents to almost zero.

References

<https://www.google.com/search?q=Transport+of+Future&oq=Transport+of+Future&aqs=chrome..69i57j0i22i30l4j69i60l3.27266j0j7&sourceid=chrome&ie=UTF-8>

STUDY OF THE IMPACT OF THE DRIVER'S PSYCHOPHYSIOLOGICAL INDICATORS ON ROAD SAFETY

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Vehicles have a great positive impact on the country's economy, create convenience and comfort for people. But the development of transport and the increase in its role in people's lives is accompanied not only by a positive effect, but also by negative consequences, in particular, traffic accidents.

Every year, according to the World Health Organization, about 1,3 million people die in road accidents and about 9 million are injured. However, the most tragic thing is that not only drivers die and are injured in road accidents, but also passengers, pedestrians, and most importantly, the future of the country - children.

The growth of the car park continues. Over 5 years, it has grown by 7,3%, the number of passenger cars has increased by 5,4 million units, or by 34,3%, and over the past 10 years - almost doubled.