

## Human mobility

Ever since animals are living on this planet, there was a need to change places. For millions of years, there was only one way to do that: using the own body. Humanity is the first known species that was able to change that entirely.

In the beginning, humanity used other objects or animals, but after the invention of the wheel, this changed completely besides in a very short period. From railways and subways to cars, motorboats and airplanes, humanity managed to use all possible space to travel in a matter of some hundred years.

But all these changes had a huge price tag – the environment.

On the one hand you need a lot of material resources to build the new objects for transportation instead of using the own body. This is accepted by the people because of the modern demand of high distance mobility. And on the other hand, all the new forms of transportation need a high-density power supply. Most of them use gas or electricity which was no problem in the beginning, since the fossil fuels were cheap, and no one cared about the environment. But in times of a climate change that effects everybody living on this planet, people have to overthink the idea of this kind of transportation.

One new way of mobility which came up the last years is E-mobility which is actually not a very new way of mobility, since electric rails came up in the late 19<sup>th</sup> century. But the modern E-mobility is way different than the old one. It's an individual mobility. Instead of having many people in big wagons, people are now able to go locally emission free from one place to the other on their own, using cars or electric scooters. Another approach is to substitute fossil fuels by hydrogen or synthetic fuels.