

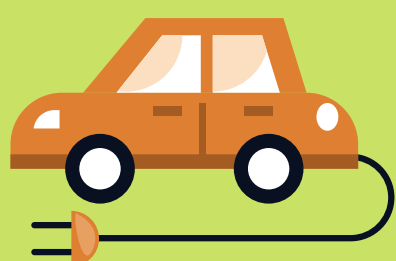
HOW SMART MOBILITY BENEFITS

BOTH HUMANS & THE ENVIRONMENT

By: Stefan Pamfil

SHARING TOOLS

Transportation of people and goods account for about 1/4 of global carbon dioxide emissions. Cities are introducing bike and electrical car sharing programs in hopes of decreasing the amount of cars on the street. (WWF International, 2018) stated that 50 percent of all trips we take in the city are less than 8 km, and that this provides the opportunity to use the bikes on these shorter trips.



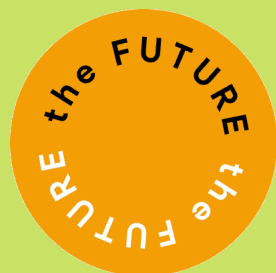
HYBRID VEHICLES

What makes hybrids efficient is the fact that they use both gasoline and a battery. (Eco Driver, 2009) "The battery stores energy that is normally lost when braking, which means they can use up to 37% less fuel, and emit 37% less carbon dioxide than equivalent gasoline-only vehicles." The website also shared that depending on how much you drive, you can actually save the amount of the startup cost within a few years.



MOST ENVIRONMENTALLY FRIENDLY

I discovered the most environmentally friendly way of transportation. A study was done called " Specific Climate Impact of Passenger and Freight Transport " that explored all types of transportation to determine which one is most environmentally friendly. (Catala, 2010) stated " Ship and rail travel were the most environmentally friendly modes of transportation. "



MAHINDRA REVA

Many companies put in hours to create new electric cars slightly more efficient than the last. A company named Mahindra Reva launched a fully automatic, zero emission car that is powered by 48-volt lithium ion batteries. Their car allows its consumers to charge the vehicle using solar energy while parked.

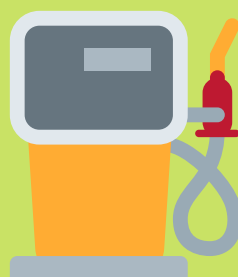
DRIVING TIP

The harder you accelerate, the more fuel you are using. You can save fuel by going gentle on the pedals when braking or accelerating. In a city where many stops occur on an average drive, you can really save up by using this tip.



ECO-FRIENDLY VEHICLES

(Eco Driver, 2009) stated " Among medium cars, for example, the most fuel-efficient model in 2008 would cost an estimated \$1,700 a year for gas, while one in the mid-range would cost around \$2,754." It shared that over 10 years, the money saved would add up to \$10, 000 along with 16 tonnes of carbon dioxide you did not put into the earth.



PUBLIC TRANSIT

Public transit is a perfect example of eco-friendly transportation as it follows the same principles of carpooling on a bigger scale. Many cities are also trying to change their public transportation systems to be more eco-friendly. (Kristel, 2020) stated " There have also been more recent developments to public transit that would qualify them as green transportation, such as electric trolley cars and trains."



FUTURE TECHNOLOGIES

New Delhi is creating a new underground railway system. (Bccl, 2013) stated " Delhi Metro is the world's first railway project to be registered by the United Nations Framework Convention on Climate Change under the Clean Development Mechanism. " They have reconstructed the braking system in which three phase-traction motors act as a generator to produce energy that goes back to the train. The system claims to save 30% of electricity while running.

