

TRIPLO 

THE FIRST SOLAR-CHARGING EV DESIGNED IN
ITALY

LET THE SUN DRIVE
YOUR LIFE

 NEW
CONCEPT

 REVOLUTIONARY
TECHNOLOGY

 GLOBAL
SUSTAINABILITY

THE RIGHT WAY TO PRESERVE THE TOMORROW

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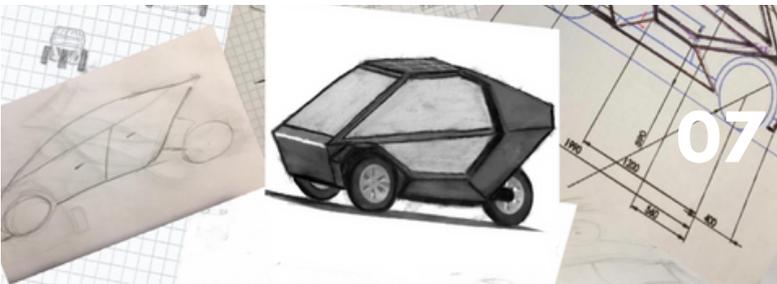
TORRI DI
QUARTESOLO
VICENZA
ITALY

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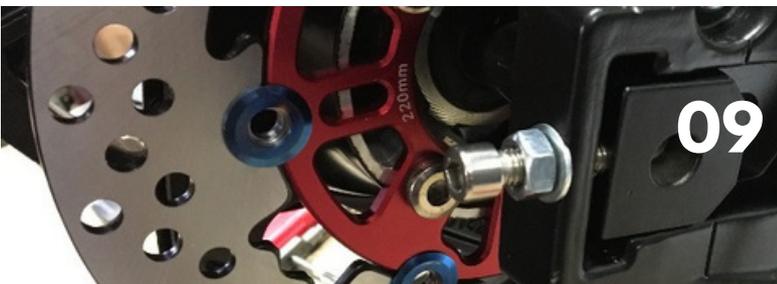
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Join the project

“DRIVING IN FULL AUTONOMY”

UNLIMITED AUTONOMY NO MAINTENANCE

TRIPLOOO has an autonomy with solar panels of 160 Km thanks to the energy stored in the battery and the recharge system guaranteed by the photovoltaic system.

Its light structure and the choice of making TRIPLOOO steered on only 3 wheels allow to considerably reduce friction and the consequent consumption.

To the enormous advantage of saving on consumption for travel, you may add the indispensable benefits of an almost zero ordinary maintenance.

**“MOVING
AT ZERO COST
AND WITH
ZERO
EMISSIONS”**

COST-CUTTING STOP POLLUTION

A city user travels an average of 15 Km per day.

Thanks to the autonomy recovered by TRIPLOOO energy efficiency system, the city user will be able to travel for the largest part of the year free, without having to recharge it and without creating pollution, since TRIPLOOO is a zero environmental impact vehicle.

“

**TRAVELLING
QUICK
& SMART**

”

INNOVATIVE AND EFFICIENT

Equipped with two comfortable seats and a rear storage compartment, weighing less than 300 Kg, including a lithium-ion battery, TRIPLOOO is the ideal vehicle to move easily in urban centers.

Reaching a speed of over 45 km/h, TRIPLOOO proves to be stable and reliable even on long journeys.

Its innovative energy efficiency system allows activating a virtuous energy sharing mechanism, also applicable at the home automation context, during the periods of greatest exposure to solar radiation.



TRIPLOOO is the 3-wheel electric vehicle powered entirely with solar energy for the next generation mobility.

WHY TRIPLOOO?

- ZERO CONSUMPTION
- ZERO POLLUTION
- ZERO MAINTENANCE





"Our vision? A solar-powered vehicle running independently of fossil sources"

Gianluca e Massimiliano

THE CREATORS

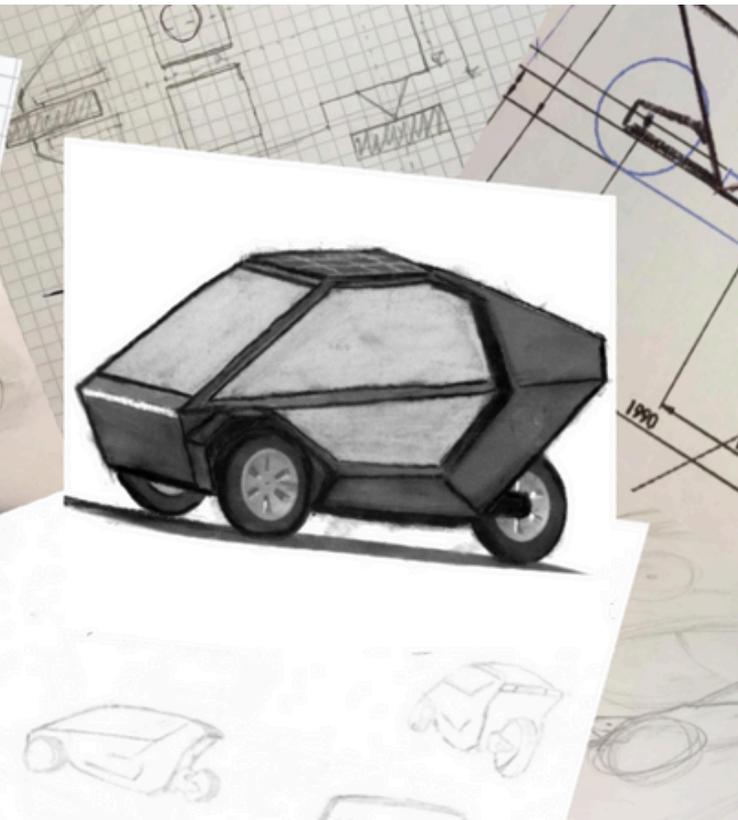
In December 2021, Gianluca Fabris and Massimiliano Adinolfi, both living and working in Vicenza (Italy) filed a patent application for the invention of "an electric vehicle suitable for transporting people and goods in an urban environment, characterized by very low consumption", thanks to the energy efficiency system they created.

The design of the vehicle, shaped to arrange the largest surface of exposure to sunlight, has also been registered.



Concept

THE CREATION OF TRIPLOOO IS A LOVE STORY.



From the desire of an adult ...

It is the story of a father who wanted to create something interesting to have fun with his son by stimulating his creativity.

The project was to build a trike to race together..

The trike has been shaping slowly,
by recovering unused materials at home,
by buying the little necessary materials and ironware, by building the transmission pulley by mean of a 3D printer, by using batteries and motors from model aircraft, by getting an open-source controller, by using an Ikea chair, by adapting the wheels of an old hang glider and a handlebar of a scooter.

Soon, the two discovered that the real fun was being together and the project took shape; father and son spent their time together drawing, studying, testing, assembling, making mistakes, disassembling and reassembling.

The outcome was not only a fully functional and stable trike on the road but a real eco-vehicle, the result of ingeniously assembled recycled materials..

... to the challenge of a child.

And here the son challenged his father: *how was it possible that the two of them had managed to build an almost perfect vehicle from nothing and with little expense, while the great car manufacturers were unable to manufacture a simple vehicle, which could be useful for humanity and respectful of the planet?*

The father, struck by his son's sagacity and attention to the environment, decided that he, as an adult, had to give him an answer.

Therefore, he worked and created a very performing electric motor vehicle, with three wheels.

But the story did not stop there ...

The challenge



Gianluca Fabris and Massimiliano Adinolfi are the fathers who took up the challenge. The two have gained decades of experience in their respective jobs: Gianluca in the electronic and industrial automation sector, Massimiliano in the field of metal carpentry.

Following the experience of building the trike with their respective children, in 2019 Gianluca and Massimiliano decided to apply their knowledge and their technical expertise in the self-construction of the vehicle. The idea was to build a real fully green vehicle to be put on the road: not only an electric car, but a light and smart vehicle, easy to use by anyone to move in the urban traffic, without generating pollution.



The revolutionary idea

This project aimed to obtain the most efficient energy solution, with the lowest impact of emissions from fuels obtained from fossil sources.

In 2020, Gianluca and Massimiliano worked on the vehicle's electrical and power supply project: they developed a solar charging system through panels, supported by a self-built battery they designed ad hoc and made it also working as an accumulator.

This idea was simply innovative and revolutionary.

The design



In 2021, the two inventors focused their attention and efforts on the design and construction of the mechanics, as well as on the implementation of the electrical system. Inspired by the silhouette of the iconic spinner from the cult film "Blade Runner", they created a prototype of a 3-wheeled vehicle, with an aluminum chassis and bodywork.

In the summer of 2021, they finally put the prototype on the asphalt to evaluate its stability and performance.



The patent

The amazing test results and the peculiarities of the vehicle prototype persuaded Gianluca and Massimiliano that the electric trike powered by solar energy was an invention that could undermine the concept of mobility as it has been experienced up to now.

In November 2022, after a long design period and after testing the prototype on the field, they filed the patent application for a new "vehicle with very high energy efficiency"; in parallel, they matured the idea of disclosing to the world the benefits of their invention, which, at the beginning of 2022, was baptized with the registered name of TRIPLOO.

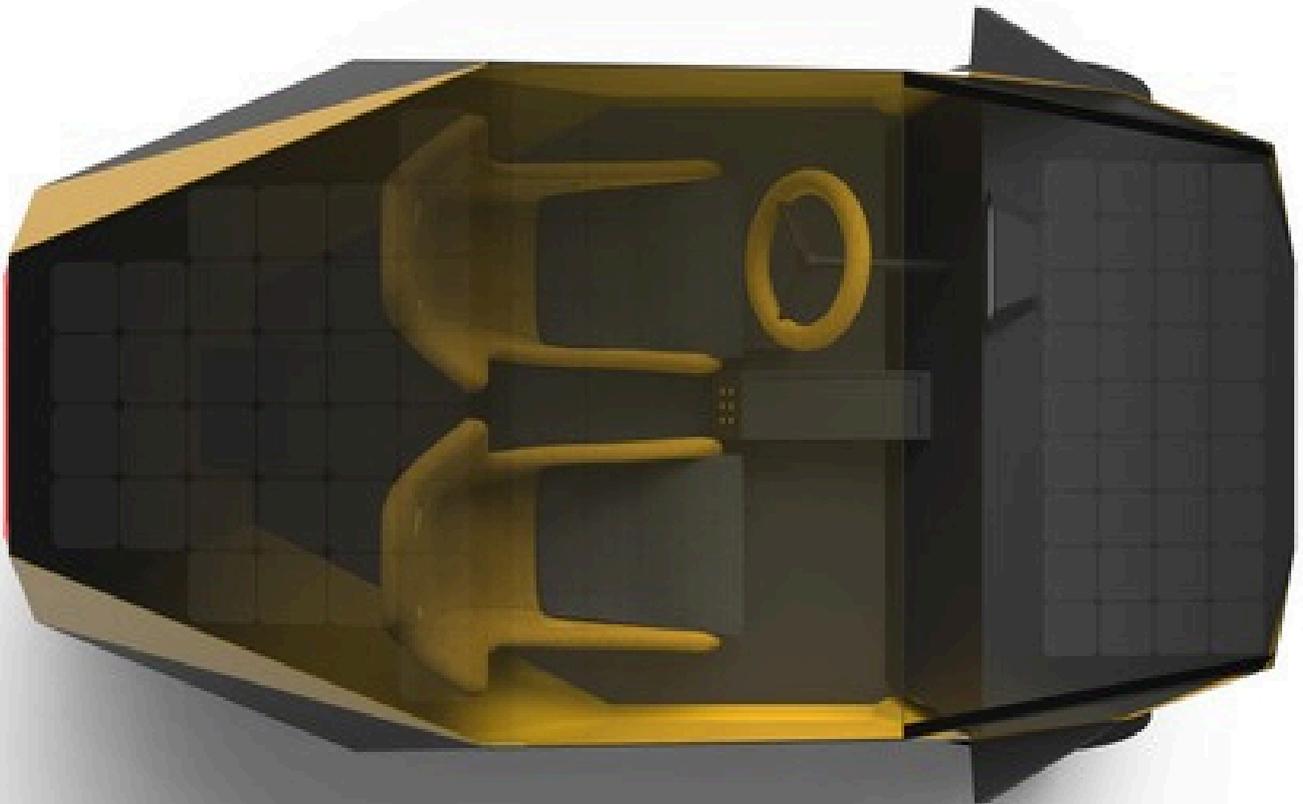
Technology

THE FIRST VERY HIGH ENERGY EFFICIENCY VEHICLE

TRIPLOOO is a prototype of a solar-powered electric motor vehicle which can be classifiable in the category of light motorized vehicles.

TRIPLOOO is a vehicle conceived for transporting people and things in an urban environment.

TRIPLOOO is also a mobile system of high electrical technology that allows optimal energy management.



**INSPIRED BY THE PAST
PERFECT FOR THE FUTURE
USEFUL IN THE PRESENT**



Human-centered design



THE SPINNER OF 2000

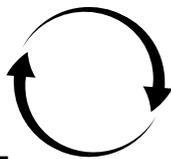
With a design inspired by the emblematic spinner, TRIPLOO is the prototype of a three-wheeled vehicle: two directional front wheels and a driving rear wheel. Its floor, chassis, bodywork are made of aluminum and other lightweight composite materials.

The weight under 300 kg, without passengers and cargo, and the small size make TRIPLOO a vehicle

- agile to travel in urban roads
 - easy to park in tight parking spots or in spaces dedicated to mopeds and motorcycles.
- TRIPLOO is built to comfortably accommodate two passengers and it is equipped with a luggage compartment.



The Smart Grid system



THE ADVANTAGE OF ALWAYS BEING IN RESERVE

TRIPLOOO has a 220 V AC onboard charging system that allows to power the vehicle from a home power net or from a power tower.

The integrated solar charging system on TRIPLOOO is realized through the widespread surface of photovoltaic panels

arranged on the upper part of the body, on the windshield, on the dashboard and inside the passenger compartment.

TRIPLOOO is also equipped with the **Smart Grid** management system connecting the battery to a modern storage system for the photovoltaic system: TRIPLOOO can thus store and exchange energy in a programmable way by the user, providing the vehicle with a stock energy reserve.

The electricity, which is accumulated and supplied by the production of the photovoltaic system installed onboard, is in fact added to the one the fixed system produces.

The system thus conceived also allows to use electricity in full safety, by coping with sudden peaks that could overload the system.



The battery



A HEART THAT NEVER WARMS UP

TRIPLOO works with a high efficiency Brushless electric traction motor with 4 kW power.

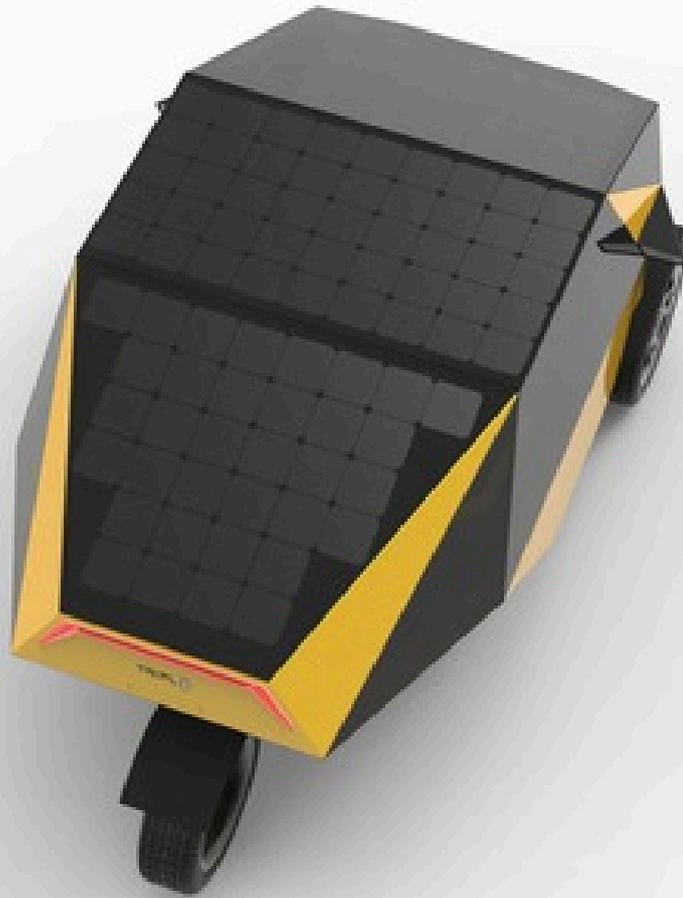
The battery, positioned in the lower central part of the vehicle, helps to increase the stability of TRIPLOO on the road.

The innovative temperature control system, which permits the battery to operate in a controlled temperature range and below 30° C, determines the high efficiency of TRIPLOO.

Chosen smart materials and an intelligent arrangement of the cells allow stemming the temperature increase in the battery in any climatic condition.

The battery system, that is the heart of the TRIPLOO, is well protected from shocks and collisions thanks to a steel case housing the cells.

The temperature control system is managed by the BMS - Battery Management System - that monitors the life parameters of the battery.



The solar charging system

TRAVELLING FOR FREE WITH THE SUN

The construction features and the tests conducted on the prototype allow to state that TRIPLOOO can travel **1 km consuming only 7.5 W***, on an urban context, with an average distance of 15 km/day and with a speed between

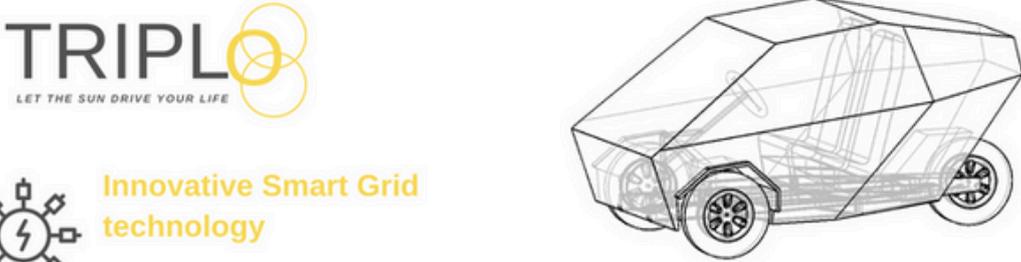
45 km/hour and 50 km/hour -even if the vehicle can easily reach 65 km/hour.

Its power consumption from the fixed electricity net is therefore around 40 kW per year, equal to a cost below twenty euros per year.

In addition to that, TRIPLOOO is completely recharged from the 220 V AC mains in about 4 hours, reaching an autonomy of about 120 km.

This figure can be increased by 30%, thanks to the solar recharging system: TRIPLOOO can achieve a range of approximately 160 km, therefore allowing people to travel free for at least 40 km!

* in latitude and longitude of Vicenza (Italy)



Innovative Smart Grid technology

Speed
45 Km / h cruising speed
65 Km / h maximum speed

Charging time
4 hours from 220 V AC mains

Acceleration
0-65 Km/h in 10 sec

Solar Charging
Up to 43 Km per day for free

Autonomy
120 km battery only
160 km battery + solar charging

Average consumption
7,5 W/km
(average distance 20 Km / day)

“ **A REVOLUTIONARY VEHICLE** ”

*In the city, we travel at 15 kilometers per hour ...
... slow as in the 1700s.
It is time to make a change in the way of travelling!*

Sustainability

AND THEY LIVED HAPPILY AND FULL OF HEALTHY EVER AFTER IN THE CITY!

TRIPLOOO is not just a solar-powered electric vehicle: it is a mean to improve the people life quality and a mean to safeguard the environment.

TRIPLOOO is the solution to the problem of traffic congestion: with its adjustable cruising speed, it facilitates travels in the

urban and the first suburban areas; its homologation also allows entering the areas of historic centers.

TRIPLOOO is an intelligent vehicle because it provides concrete answers conforming to the lifestyle of the urban population.

TRIPLOOO is a revolutionary invention because it provides answers to real economic needs for both users and those who run their businesses in the centers.

By using TRIPLOOO towns will be again crowded and happy!

A FUTURE FULL OF LIFE AND ENERGY ... FROM THE SUN!

TRIPLOOO is a radical solution to the problem of urban pollution that since today has been treated symptomatically and not systemically.

TRIPLOOO is an innovation tool involving also the processes, because it triggers a change of mentality in energy management and in daily life habits.

Therefore, TRIPLOOO is not only a 100% green vehicle but it can be used as a mobile source of energy: a rechargeable electric generator that can exchange energy with the surrounding environment - for example for home automation use.

TRIPLOOO is the right solution to make an effective global ecological transition, in a short time, without burdening the population with additional costs and social traumas.

Join the project

Automotive addicted

Do you share our vision for mobility?

We refer to projects of applicable sustainable mobility to the daily life of people and to the logistics of the transport of goods.



Do you have in mind a project for the sustainable development of disadvantaged countries?

We are sensitive to this subject and we believe that TRIPLOO is a problems solver in the context of energy management..

Sviluppo solidale

Inspired by the sun

Do you want to commit to help in reducing global pollution?

TRIPLOOO is created with a view to reducing emissions and CO2. If it is widespread and included in large-scale projects and measures, TRIPLOOO will make the difference.



Guardians of the earth

Do you want to help preserve what remains of the planet Earth?

TRIPLOOO is a green invention that can be included in a system of acts aimed at strengthening environmental protection..

To subscribe TRIPLOOO project, mail to: info@triplooo.it



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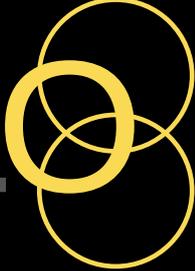
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