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Renan LEGLOIRE

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PRESS

1/ Who are we?

Les Automobiles LEGLOIRE is a trademark registered by Renan LEGLOIRE.

Freelance automotive designer for more than 15 years, this enthusiast of motorsport and automotive design wanted to use all his experience in the design offices of major manufacturers to develop a children's car according to current technological standards.

Thus, all digital tools, but also modern manufacturing processes have been the driving force behind the creation of a real children's racing car.

Thanks to his experience in the world of automotive design, Renan LEGLOIRE has been able to bring together recognized suppliers in the world of motorsport and prototyping of concept cars.

We are a manufacturer of race cars for kids and today we are very proud and happy to present the SP001 concept to you.

#racecars for kids

2/ Children's cars and their history:

Cars for children have a history as fascinating as that of adults.

They appeared at the same time and followed the developments of their predecessors, until they had their own championship, their official drivers, and their factory and customer competition versions.

With ingenious mechanical systems, they were able to transmit the passion for cars, the pleasures of driving and the pleasures of sharing to several generations.

Many events were organized all over the world, and the 1930s will be rich in innovative projects and races.

Among the most representative manufacturers of cars for children, a French company will make history: the EUREKA brand, founded by Mr. Henri Kratz Boussac.

Thanks to their clever pedalling systems, EUREKA cars dominated races against other manufacturers for years.

Introducing a factory-prepared version each season, with its official pilot, the son of EUREKA toy engineer, Mr Grandvoinet.





Faced with the growing success of adult car racing, some manufacturers decided to offer motorised vehicles and organize races dedicated to children as a prelude to the Formula 1 grand prix, with young drivers causing a sensation.

Many manufacturers will use children's cars at auto shows to communicate and promote their new models, through mobile autodromes crisscrossing France.

The 1960s would mark the heyday of small racing cars thanks to MM. Mortarini and Barthel, who organized races with the support of major car manufacturers.

De La Chapelle cars will be the last jewels of the French automobile industry dedicated to children.

True collector's items today, children's cars retain this communicative magic that gives adults back their childish gaze, and children an imaginary world to be like grown-ups.

3/ Concept SP001: A race car and a Championship

The car

Inspired by the legends of the 1970s, the SP001 concept takes up the codes while modernizing them. Its pure style and controlled proportions allow everyone to find historical references and vibrant memories.

Based on the observation that children can only participate in Karting races from the age of 7, we wanted to offer a learning tool so that they can start from an early age and immerse themselves in of passion and automotive culture, of its history.

As great lovers of EUREKA toys, we wanted to imagine what this brand would have become if it had not disappeared, and this is how the specifications were defined:

Create a real race car for kids, a tribute to the legends of motorsport, with innovative and unique mechanical **systems**.



3/ Concept SP001: A race car and a Championship

The championship:

Our goal is to offer a championship that will crisscross the circuits all over France, Europe, and the world!

Because a race car without colours is not really a race car, we offer brands and promoters to sponsor cars or events in their colours in order to allow children to live a unique experience, and brands to be able to communicate in an original context.

We will soon announce our partners and sponsors in order to make this adventure possible.

We already count on the support of our partners and technical suppliers and are happy to wear their colours.



4 / Cutting-edge technologies and a return to the roots of sports toys

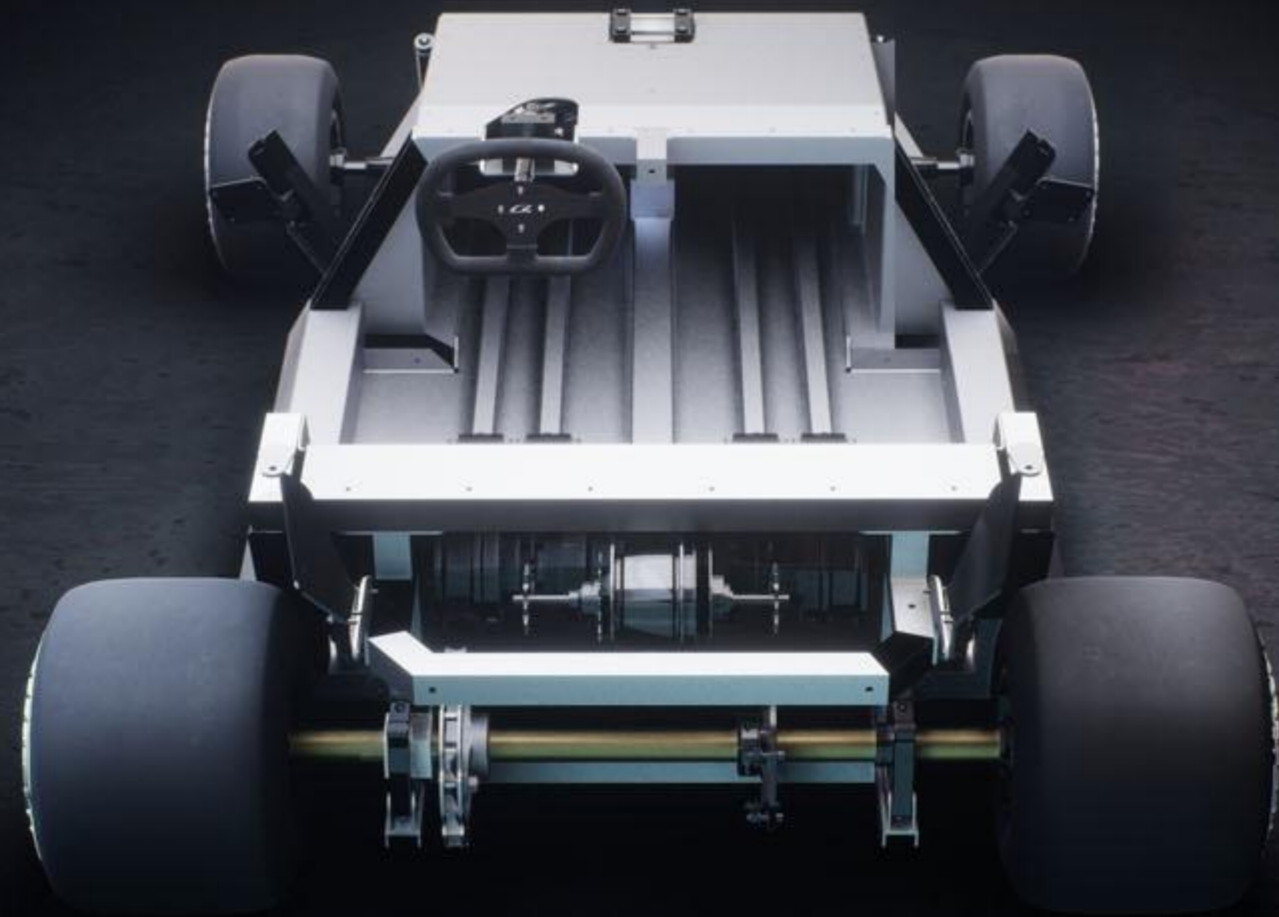
Race cars have always been a laboratory for the automotive industry, and the SP001 concept is part of this approach.

This is why we manufacture the body mainly in Linen fiber, a material already used in motorsport, and whose production is less energy-intensive than conventional composite materials.

Our chassis uses aluminium whose resistance to time is superior to metal, and whose rigidity and weight offer the best compromise.

When it comes to propulsion, we've created a patented horizontal pedalling system to start from an early age.

As children get older, they can update the performance of the car by replacing the pedalling system with an electric motor conversion kit.

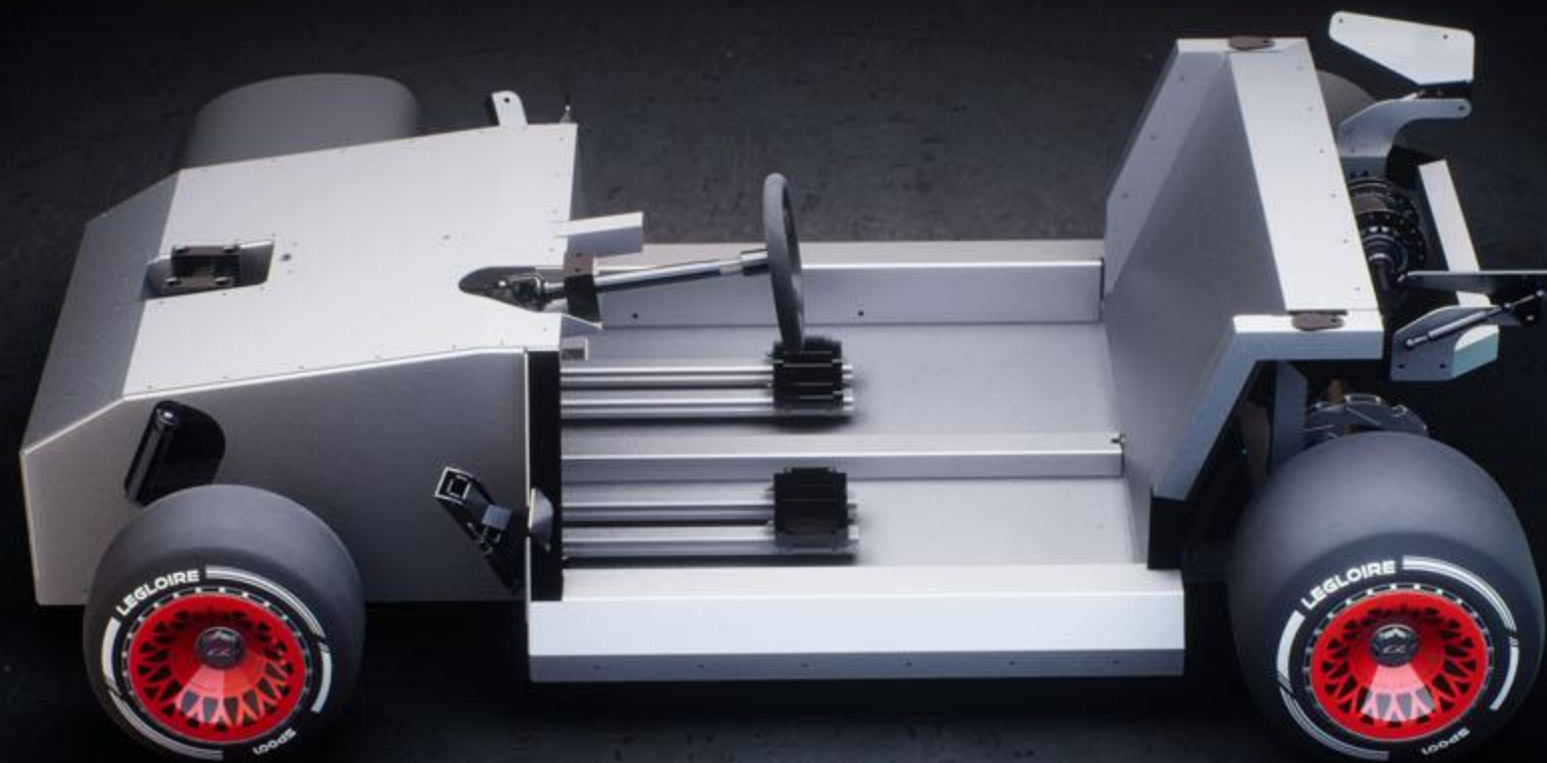


SP001 S, a pedal car for the little ones, from the age of 3

Our patented horizontal pedalling system makes it possible for younger children to start riding safely, without the risk of injury, while having a riding position close to that of a real car.

A true psychomotor development tool, this system offers several advantages:

- very low centre of gravity for better road holding
- Driving position close to a real racing car
- No need for adjustments, the pedals fall directly under the foot
- Independent left & right pedals which allow you to choose whether you want to pedal one foot after the other, both feet at the same time, or only one foot to rest the other
- No pedal feedback, no wheel lock in the event of a pedalling error, no knee injuries
- The speed depends on the length of the push of the child's legs, the more he grows, the faster he will go, without adaptation or adjustments
- The lifespan of the car is therefore extended to support the child as long as possible during his growth
- Performance is directly linked to the child's physical capacities
- A gearbox increases the pedalling power



SP001 P, the electric version for progress

The SP001 chassis was developed with a fixed aluminium monocoque central cell, and a removable rear half-frame in order to be able to convert your pedal car into an electric car.

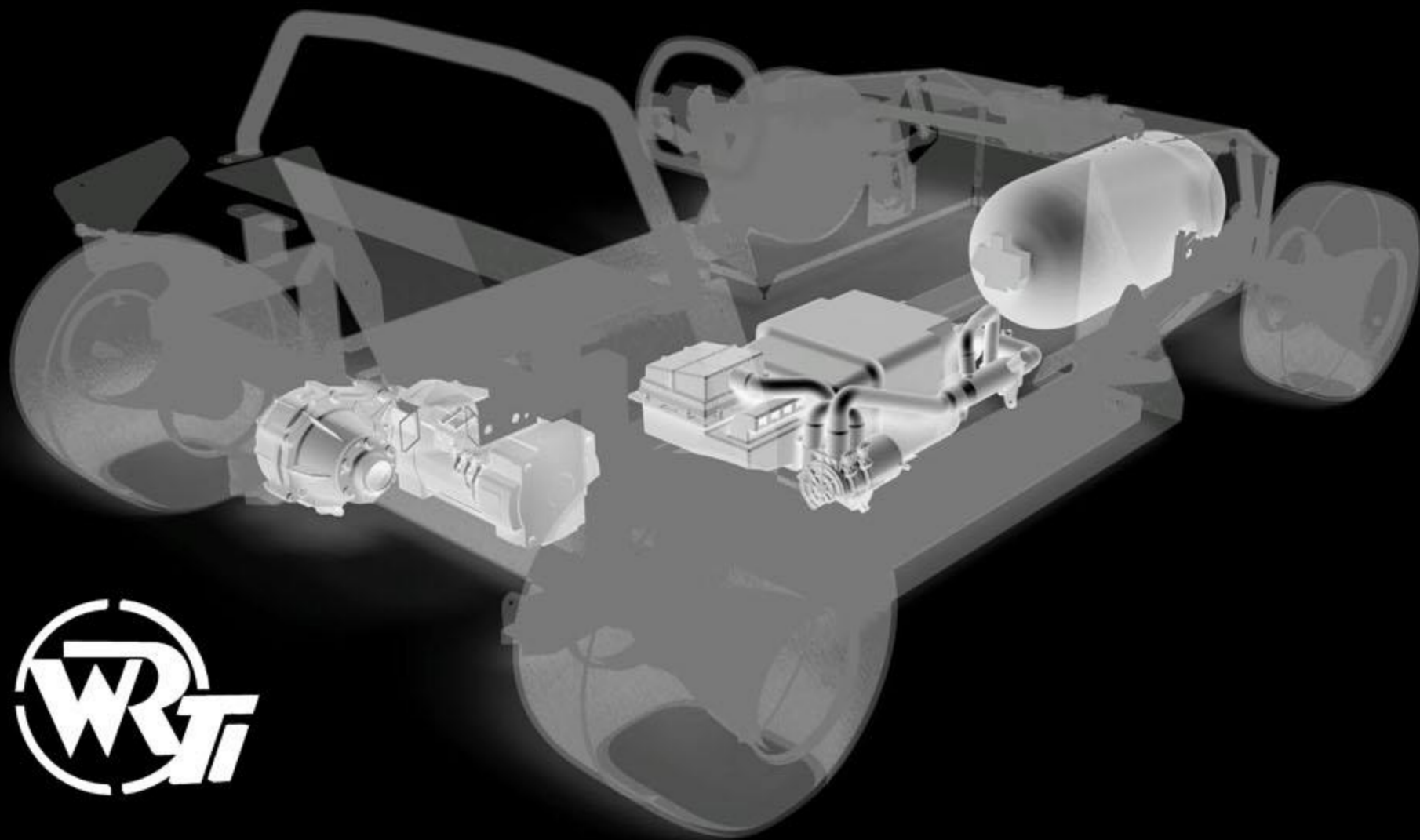
Our goal is to support our pilots from an early age, and for as long as possible.

This is why we offer an electric motor conversion kit based on the same chassis, without having to change the body or the centre cell.

The electric version offers an electronic management box adjustable in 3 positions to limit the maximum speed and the acceleration curve:

- 7 km / h, toy regulations for children
- 20 km / h, closed road use, events
- 45 km / h, racing use, experienced pilots

Our electric show car will be equipped with a hydrogen fuel cell, developed in collaboration with our partner WRTI



5 / Planning and strategy

The development of the SP001 concept was carried out with own funds, with the support of our partners.

Respecting the development phases of style and technique, like a car manufacturer, we produced two full scale 1 models, and a prototype of the pedalling system in 3D printing.

Thanks to the digital design tools used in the automotive and competition industries, we were able to master the issues of feasibility, cost, and the implementation of industrial tools for future series production.

We have relied on the experience of our suppliers to guarantee 100% French production.

Our goal is to produce 30 cars in series by the year 2022, in order to be able to control production costs and guarantee chain quality control.

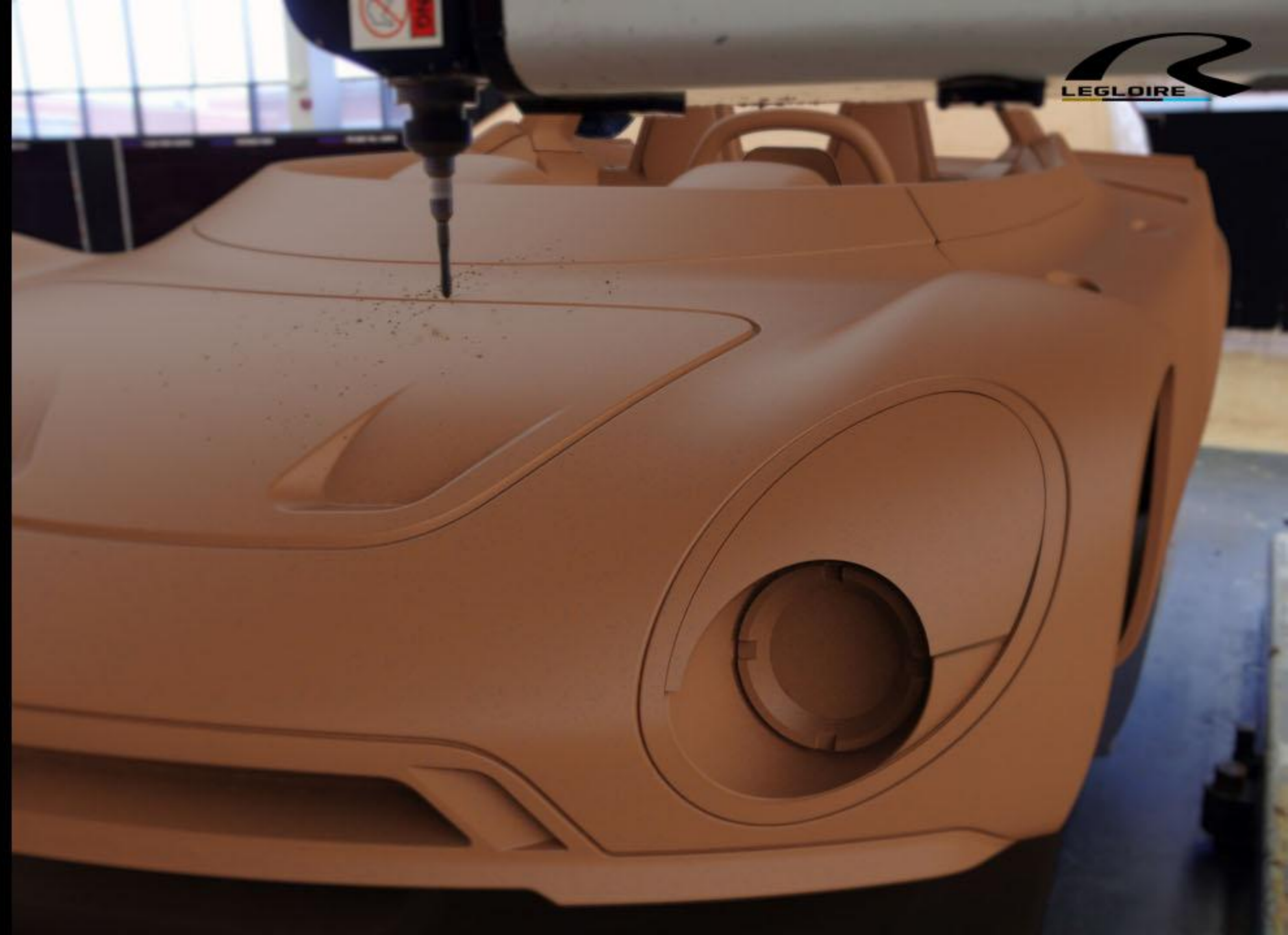
We are launching the production of the pre-production prototype in January 2022 in its electric version with a hydrogen fuel cell, which we will present in summer 2022.



6 / Presales and serialization

We will launch pre-sales for the 30 units after validating the prototype driving and testing sessions at the end of summer 2022.

We expect customer deliveries for Christmas 2022.



7 / Our partners:

We are happy to be able to count on the experience and support of our partners, and to guarantee French production.

- The complete technical development of the project was carried out by Auxal Engineering, based in Clermont-Ferrand.
- The body was developed in collaboration with Composites RS, based in Alsace, which is responsible for producing the functional body of the prototype.
- The milling of the style models was carried out by KOLLER SAS, based in Ile de France, which will be responsible for the milling of the masters for the production bodywork.
- Mass production of the body will be handled by Faster Racing, based in Île de France.
- ERPRO group is responsible for making the first parts of the style model in 3D printing and will provide us with the parts for the production version.
- WRTI is working with us to develop the electric traction chains and the hydrogen fuel cell system for the show car.
- The Nantes saddlery takes care of the interior fittings of the prototype and will provide us with the templates for the serialization of the saddlery.
- IPSIDE was responsible for all intellectual protection and patents.
- Endurance Info has supported us since the start of the project.



KOLLER



AUXAL ENGINEERING



8 / Technical sheet

Bodywork:

Linen fiber, and visible carbon in the passenger compartment

Frame :

Aluminium monocoque central cell
Removable aluminium tubular rear half-frame

Running gear:

Competition type, CIK / FIA minimal and cadet homologated

Braking:

Hydraulic rear disc brake

Pedal drive

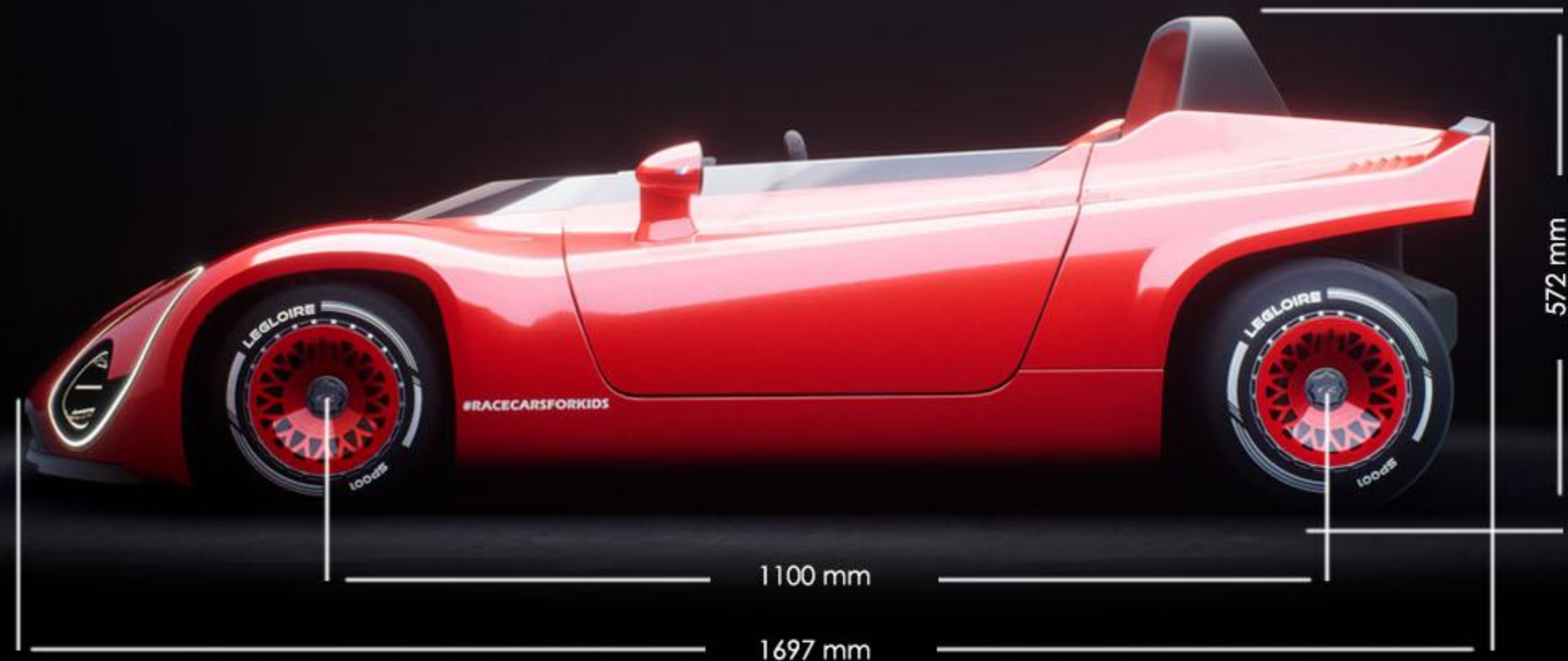
Patented horizontal pedalling system, aluminium boxes
8 speed gearbox

Electric version:

1000W motor
Electronic management 3 settings
Braking energy recovery
Rear differential

Show car version:

1000W motor
Electronic management 3 settings
Braking energy recovery
Rear differential
Hydrogen fuel cell





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SP 001

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PERFORME
ADSLABING