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THE FIRST ELECTRIC GO KART CHAMPIONSHIP IN MONACO AND IN FRANCE

A DRIVING SCHOOL & TRAINING CENTER FOR YOUTHS

AN ENVIRONMENTAL AWARENESS TOOL

AN ENERGY AND TECHNOLOGICAL AWAKENING

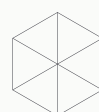


**A UNIQUE EXPERIENCE COMBINING GO KART CHAMPIONSHIP
TRADITIONS AND ECOLOGICAL COMMITMENTS**

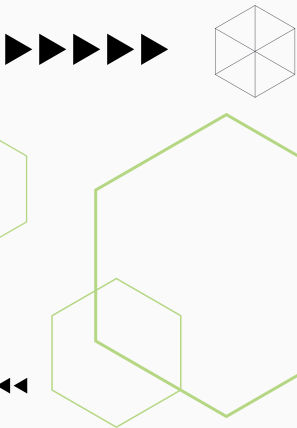
0% CO2 EMISSION

+ 0% NOISE

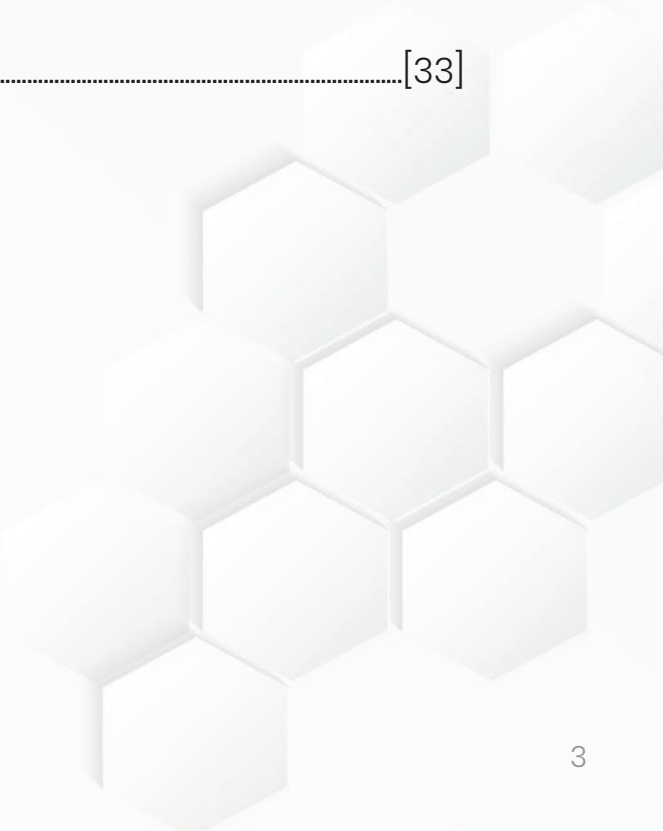
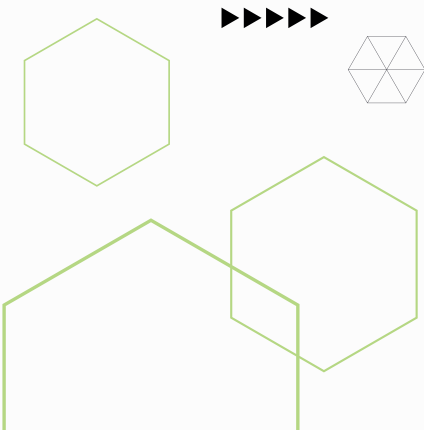
= 100% PLEASURE



SUMMARY



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01

ECOLOGICAL CONTEXT

The industrial revolution of the 18th and 19th centuries brought about the emergence of new technologies

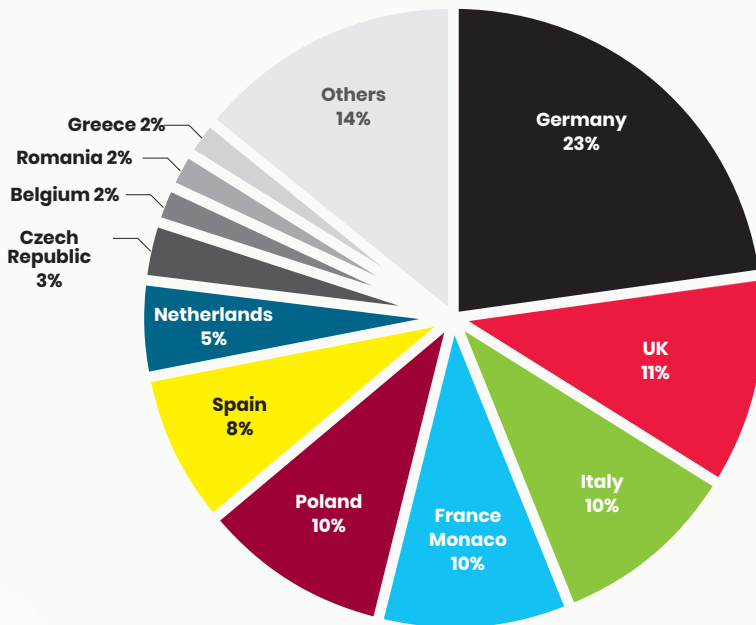
Over the decades:
Overconsumption
+ Large-scale pollution
+ Massive deforestation
**= current critical
environmental situation**

MEASURES TAKEN OVER THE PAST FEW YEARS TO COUNTER THIS CRITICAL SITUATION:

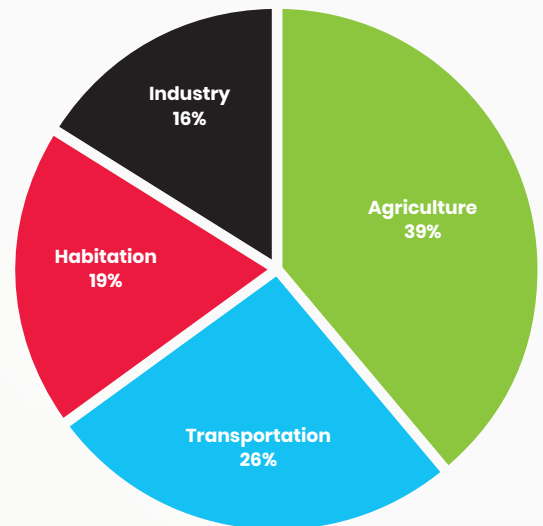
- ▶ Evolving towards banning diesel engines in many European cities by the year 2030 (Paris, Nice, Lyon, Rome, Brussels, Athens, etc.)
- ▶ **New Hybrid engines and massive electrification of the global fleet of vehicles (end of thermal energy by 2040)**
- ▶ Development of large-scale renewable energies (Solar Panels, Geothermal, Wind, etc.)
- ▶ Renovation of ageing infrastructures to more environmentally friendly structures.
- ▶ **Educate and Focus on the new generation:** Increased awareness of the current crisis and thinking of the big picture

▶▶▶▶ SOME NUMBERS

Breakdown of CO2 emissions in the EU in 2019



Greenhouse gas emissions by sector in Europe



THE PRINCIPALITY OF MONACO & THE PACA REGION

For many years, **HSB Prince Albert II of Monaco** has made **ecology and environmental protection** one of his major **priorities** within the Principality of Monaco. As a result, **this small country has become one of the main players in ecological transition in Europe and in the world.**

Indeed, the massive use of renewable energies for the construction of new buildings, the creation of a future eco-district, the promotion of clean vehicles as well as high-quality sanitation services make the city-state a place where the protection of the planet is omnipresent. Through these numerous ecological initiatives, **the Principality of Monaco** is gradually becoming one of the world leaders and point of **reference in terms of an ecological city.**

This sustainable development policy has also been established within the **Nice Metropolis and the PACA region.** Increased green spaces; urban development that is more respectful to the environment; the provision of bicycles and electric vehicles; the continued development of general selective recycling — **all make the PACA region an urban space where a priority is placed reducing our impact on the planet.**

However, according to Greenpeace, the French Riviera still remains far behind its European competitors in terms of ecological procedures and awareness amongst its population.

02

AUTOMOTIVE CONTEXT

- ▶ The multiple oil crises → Increase of Hybrid engines / Powertrain vehicle electrification (in tourism or in competition).
- ▶ **Automotive and Sports Competition: A new shift towards ecology and new anti-pollution standards (F1 and F2 hybrid engine).**
- ▶ Creation of new “green” sports series and championships: Formula E, Extreme E, Rally WRX, PURE ETC ...
- ▶ **Motorsport racing is considered as a laboratory research.**
- ▶ Motorsport reflects a media image with global reach.
- ▶ **Go Kart : A fundamental starting point for motorsports.**
- ▶ Gradual progressive way of thinking.





03

ISSUES

1 ► ECOLOGY

- How can we reduce our excessive consumption and move towards a more self-sufficient lifestyle?

2 ► SPORT

- Taking the message to the masses: Are we highlighting the current critical situation of our planet and inciting the population to react?
- An awareness tool for the youths? Educate the new generation on a new way of life and consumption.

3 ► A “CLEAN” AUTOMOTIVE CHAMPIONSHIP

- How can we demonstrate the feasibility of combining automotive performance and environmental protection?





04

TECHNICAL REPORT OUR VISION

For many years, **ecology and sustainable development** in the broadest sense **have been booming**. Many initiatives to protect our planet have been put into action, and we have observed the beginnings of these behavioural changes. But there is still much more to do.

Motorsport has started its **energy transition** through the organisation of greener sporting events, however, **thermal mechanical sports still remain the most popular** for attracting **young athletes**, so **these categories remains a priority**.

This is where the **MONACO E KART CHAMPIONSHIP** comes in. Our goal is to develop an electric go kart championship, based in Monaco and France, for youths. It is the perfect fusion between:

AUTOMOTIVE COMPETITION + YOUTH + ECOLOGY + AWARENESS

The challenges raised by this unique championship:

- ▶ It will shake up the dynamics and codes of current thermal energy go kart championships by reinventing and recycling what has been done for years.
- ▶ It will raise awareness among young people about environmental protection while offering a high quality automobile championship.

THE FINAL OBJECTIVE: THE CREATION OF A SPORTING AND EDUCATIONAL SPRINGBOARD FOR YOUNG DRIVERS.



CHAMPIONSHIPS THERMAL GO KART



Fundamentals for
thermal energy categories



MONACO E KART CHAMPIONSHIP



Fundamentals for
electric categories



GENERAL INFORMATIONS & TECHNICAL SPECIFICATIONS OF CURRENT GO KART CHAMPIONSHIPS

- ▶ **There are currently no electric go kart championships in France and Monaco.**
- ▶ The current championships do not meet environmental protection standards (air pollution, discharge of hydrocarbons, non-recycled tires, use of industrial products, etc.).
- ▶ There are **no ecological procedures** implemented (no selective sorting, no use of renewable energies, very little recycling ...).
- ▶ Use of **polluting thermal go kart.**
- ▶ There are very few technical and environmental innovations.
- ▶ **There is no emphasis on motorsport that is associated with ecology and environmental protection.**



COMPARAISON

THE WORLD OF GO KART: THERMAL ENERGY CHAMPIONSHIPS

► **Noise pollution:** a major problem for the tracks today

→ Many circuits close or are forced to close due to the noise pollution

→ **Solution:** Schedule adjustment (not profitable)

► **Daily maintenance and increasingly complex operation**

→ The complete maintenance of a thermal go kart (engine and chassis) requires a certain know-how and very special attention. Indeed, a simple adjustment error can cause engine failure. And a service every 10 hours is necessary.

► **High availability:** The education of young drivers takes a back seat as race weekends are more and more frequent and the majority of them are now spread over several days (Thursday to Sunday) resulting in missed school and lower grades for young drivers.

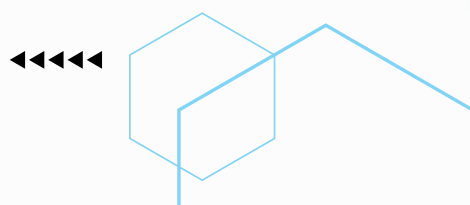
THE WORLD OF ELECTRIC GO KART : MONACO E KART CHAMPIONSHIP

► **No noise pollution:**

→ **How ? :** Use of electric go karts (free driving times).

► **Return to simplified daily use and the fundamentals of go kart:** 2 pedals, 4 wheels, a steering wheel and a maintenance-free engine.

► **Reduced energy footprint** thanks to a defined number of races (6 events during the year). **The education of young people is prioritised** because this championship offers races only during school holidays or at weekends, so no school is missed.



GENERAL INFORMATION & TECHNICAL SPECS OF THE MONACO E KART CHAMPIONSHIP

- ▶ **A turnkey concept** (efficient go kart, a team of professionals, a complete structure, etc.).
- ▶ **Equality of performance between the go karts and equity between the drivers.**
- ▶ **Ecological procedures** put forward and a championship that respects environmental standards.
- ▶ **A longer and optimised driving time:**
1 weekend of racing in an electric go kart = 2 weekends of races in a thermal go kart.
- ▶ **Costs are controlled and reduced:** Prices, services and tailor-made offers..
- ▶ **An awareness of ecology is integrated into the championship.**
- ▶ **Sporting values shared by all.**

A TURNKEY PACKAGE PROVIDED FOR EACH DRIVER

For each race, all drivers will have at their disposal the same equipment and the same set up chassis/engine. Also, they will get the same driving time and an equal number of tires allocated for each.

- ▶ **One chassis Charles Leclerc FIA – CIK homologated**
- ▶ **One electric engine with batteries and charger**
- ▶ **Sets of tires for each race**
- ▶ **One trolley**
- ▶ **A technical and electrical support**
- ▶ **A mechanic**
- ▶ **Data analysis**
- ▶ **Coaching**
- ▶ **Administration fees included (not included : private test fees)**
- ▶ **A full team kit**
- ▶ **A transponder**
- ▶ **One ALFANO 6 IT**



The page features a decorative background of white and green hexagons. Some hexagons are solid green, while others are white with green outlines. Black arrows point in various directions (left, right, up, down) between some of the hexagons. A horizontal green line is positioned above the main title.

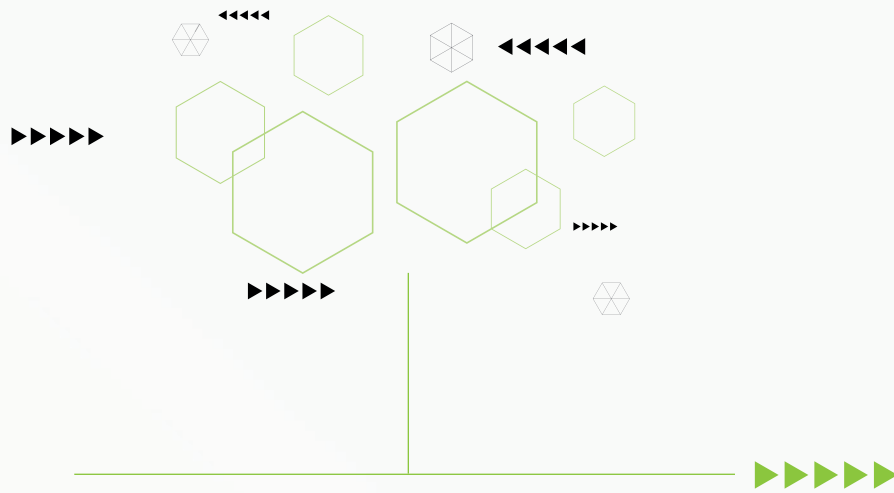
THE EQUALITY WITHIN ELECTRIC RACES

“ONLY THE DRIVER WILL MAKE THE DIFFERENCE”
“SEUL LE PILOTE FERA LA DIFFÉRENCE”

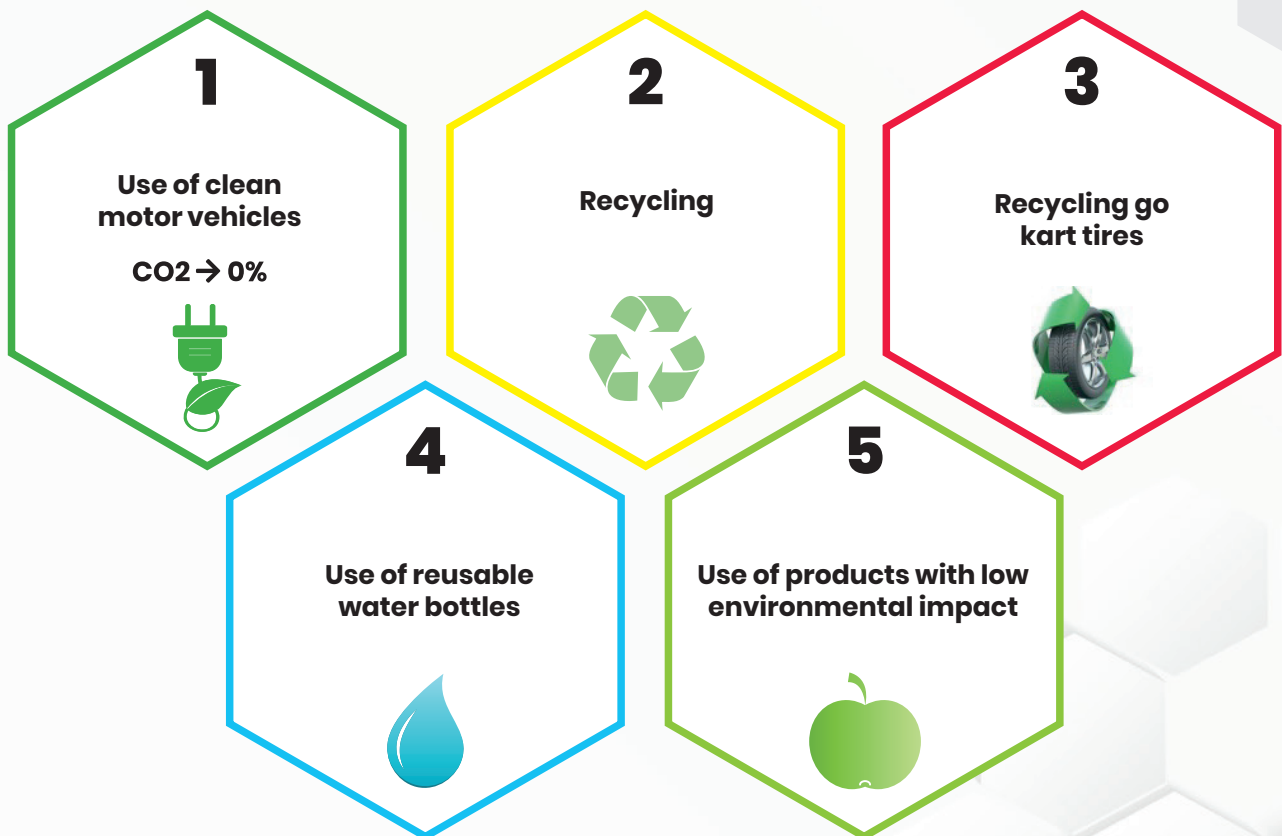
The word **EQUITY** was the starting point and convergence for the creation of these unique city races. Thanks to the strong and very varied experience of its founding members at all levels of motorsport.

The **MONACO E KART CHAMPIONSHIP** wants **to put the driver back at the center of the equation** and allow him **to fight on equal** terms with all the competitors.

The karting is the motorsport gateway for the youngest, this new challenge aims to **avoid the significant dropout of high level sports teenagers** by offering only **competitions, tests and races, over two days** (Saturdays and Sundays) without no practice sessions before each race weekend. Thus, all drivers will start each competition on an equal footing.



ECOLOGY WITHIN THE CHAMPIONSHIP



THERMAL GO KART ← VS → ELECTRIC GO KART

STRENGTHS

- ▶ **Low acquisition cost (not profitable over several years)**
- ▶ Wide range of products and services
- ▶ Many manufacturers

WEAKNESSES

- ▶ **Noise and Odour (dangerous for health)**
- ▶ General pollution
- ▶ **Fuel storage (risk of fire)**
- ▶ Fuel purchase
- ▶ High set-up price
- ▶ **More complex handling**
- ▶ **Significant mechanical works**
- ▶ Spare parts prices more expensive
- ▶ **More expensive spare parts «Limited» engine life: 10 hours of driving before reconditioning is required**

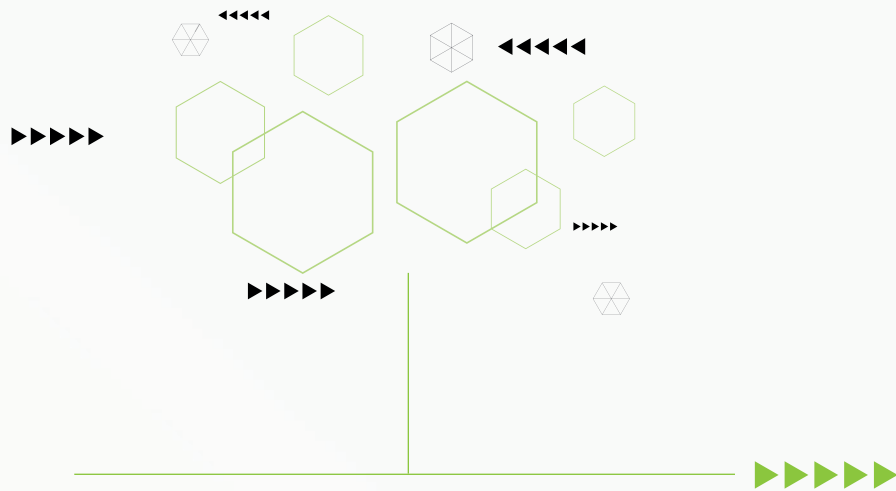
STRENGTHS

- ▶ **No CO2 emissions and no odour**
- ▶ Relatively silent
- ▶ **No fuel deposit**
- ▶ Use in both Indoor and Outdoor circuits
- ▶ **Low handling and mechanical: Product (One) Plug & Play**
- ▶ **Adjustable power curve**
- ▶ **Much longer engine life: around 1000 driving hours**
- ▶ Powerful sensation

WEAKNESSES

- ▶ **Expensive charging infrastructure**
- ▶ **High acquisition cost, but the price difference is narrowing day by day**

EQUIVALENT POWER



OUR GO KARTS: A QUALITY PRODUCT

**7 KW, 18 KW, 25 KW
BSR ELECTRIC MOTORS**



**CHASSIS (MINI, JUNIOR, SENIOR)
CHARLES LECLERC**



TRANSPORTATION WITHIN THE CHAMPIONSHIP

On a large scale, the biggest impact on the environment of a motorsport event is the transport of goods, vehicles, equipment and personnel.

At the go kart scale, we encounter these same issues. In order to create an automobile championship that is as green as possible, we want to use electric utility vehicles to minimise our carbon footprint when moving on the circuit. Basing the premises on a permanent circuit will allow us to not only reduce our transport and travel, it will also allow the drivers to progress more quickly.



THE ADVANTAGES OF A CHAMPIONSHIP STARTING FROM MONACO AND THE PACA REGION

WHY MONACO ?

- ▶ **The Principality of Monaco** is considered to be **the world's stronghold for motorsport**, boasting one of the most emblematic circuits in the world.
- ▶ Monaco, is one of the most long-standing committed players in ecology and green automotive disciplines: **Formula E Grand Prix and Electric Rally.**
- ▶ Environmental protection is developed at different scales and in different areas.
- ▶ The organisation of a GO KART CUP from 1995 to 2010.
- ▶ Many prestigious racing drivers have taken up residence in the principality.
- ▶ **No local and national competition.**
- ▶ Presence of major players in sustainable mobility.

THE STRENGTHS OF THE PACA REGION

THE PERFECT PLACE :

- ▶ **Significant tourism** throughout the year (**PACA region is the 2nd most popular holiday destination in France**).
- ▶ National and international clients (Strong foreign tourism / border with Italy).
- ▶ **Favourable weather.**
- ▶ **No departmental, regional and national competition.**
- ▶ **High demand but few offers.**
- ▶ The PACA region is attractive with strong international ties.
- ▶ **A unique and original project.**
- ▶ Excellent publicity for MONACO and the PACA region.
- ▶ **About 30 jobs creation planned .**

ORGANIZATION OF A MIXED GO KART CHAMPIONSHIP RACES ON CIRCUITS AND IN THE CITY

MIXED

- ▶ A championship that is open to anyone: No gender distinction.
- ▶ Introduce electric go karts to as many people as possible.

IN THE CITY

- ▶ To prove the feasibility of the electric technology on a high speed track.
- ▶ Introduce current thermal energy go kart drivers to electric go kart.
- ▶ Uses the amenities already installed in order to reduce general consumption and thus promote ecological sport.
- ▶ Demonstrate to other professional infrastructures that ecological procedures within a competition are feasible.

OUR 4 CATEGORIES

**EK 4 BABY
(5 - 7 YEARS) - 4KW**



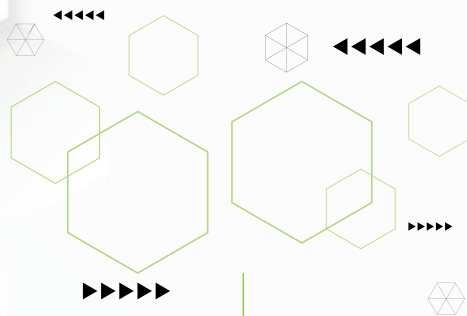
**EK3 MINI/CADET
(7 - 11 YEARS) - 7KW**



**EK2 JUNIOR
(11 - 14 YEARS) - 18 KW**



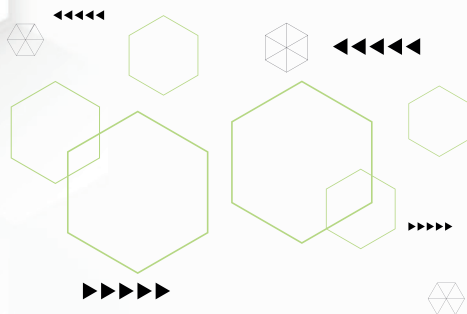
**EK1 SENIOR
(OVER 14 YEARS) - 25KW**

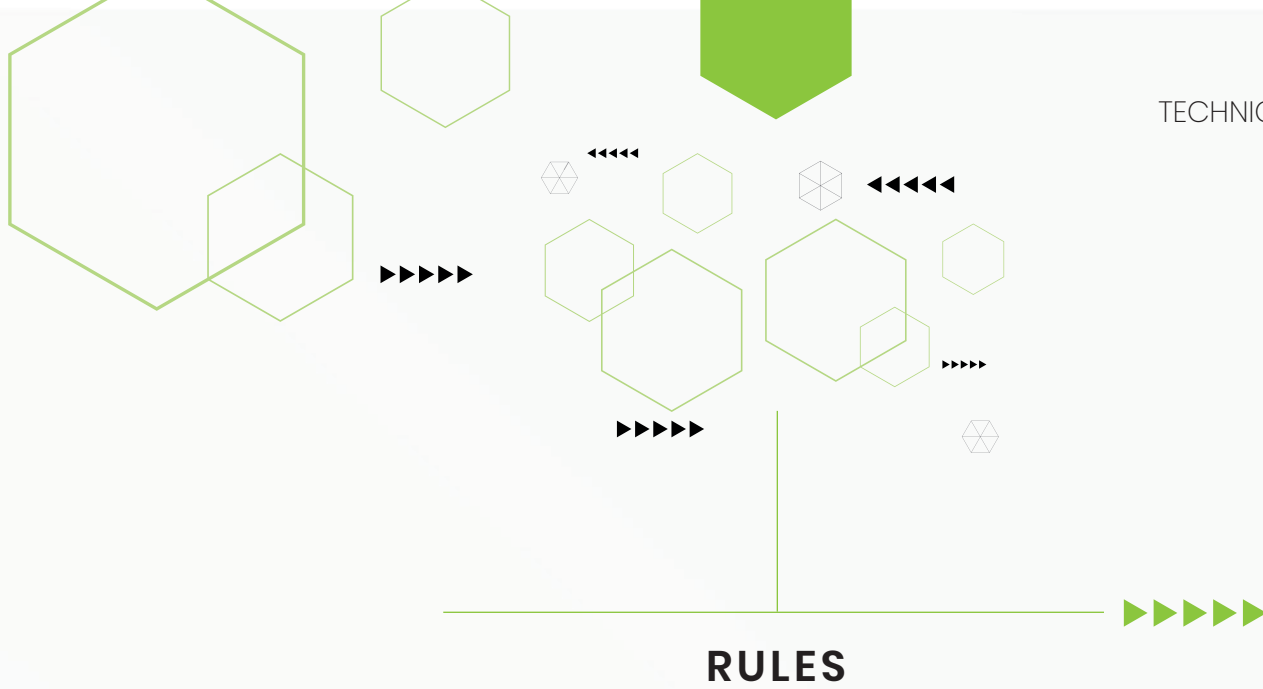


SPECIFICATIONS OF OUR 4 CATEGORIES

	EK PUFFO 1KW	EK3 – MINI 7KW	EK2 – JUNIOR 18 KW	EK1 – SENIOR 25 KW
POWER	1,5 cv	9,5 cv	25,5 cv	34 cv
KART WEIGHT (WITHOUT DRIVER)	25 kg	80 kg	120 kg	135 kg
CATEGORY WEIGHT	NA	125 kg	175 kg	210 kg
SPEED MAX	40 km/h	90 km/h	110 km/h	125 km/h

- One powerful package : engine/battery/controler
- Several power maps
- Life time engine : around 1000 hours before maintenance
- Recharging time : 1 hour





Some keys data about the MONACO E KART CHAMPIONSHIP rules :

- ▶ Race time : between 10 minutes + 1 lap and 12 minutes + 1 lap depending of the tracks
- ▶ **Same tires** of each driver
- ▶ No chassis set up
- ▶ Static **start procedure**
- ▶ One race director and one technical director
- ▶ **No sporting commission**



AN AUTOMOTIVE AND ENVIRONMENTAL ACADEMY

In addition to the desire to create the first electric go kart championship, this project also aims to share and transmit a passion for motorsport using green technologies, and to promote environmental protection among the younger generation. Indeed, this new generation will be involved more than ever in the preservation of our planet.

This is why, within this championship, we've developed **an academy** split into **two concepts**:

- ▶ **The first** is based on **learning to drive, and the fundamentals to become a racing driver**. Whether physical or mental, these bases are essential to evolve within this very special field.
- ▶ **The second** focusses on **environmental protection, good practices, sustainable development...** A theme at the heart of current major political discourse.



THE AUTOMOTIVE ACADEMY

Our ambition to create an automotive-oriented academy within our E CHAMPIONSHIP is to enable young drivers to learn the basics of driving an electric vehicle in order to become the future talents of tomorrow in these growing categories.

Thanks to a **sports and mental performance coach**, we will be able to put the drivers in the best condition to obtain the expected results.

Finally, the goal of designing this **academy, accessible to the youngest (from 5 years old)**, is also to create new vocations and / or simply to introduce green motorsport in complete safety, to a much wider audience.

A drivers' school will also be developed within the competition structure.



THE ECOLOGICAL ACADEMY

The aim of creating an **ecological academy** is to educate young drivers about protecting our planet. Indeed, it is these future generations who will be the **new ambassadors of ecology**.

Learning how to preserve ecosystems, recycling and various other everyday ecological approaches will be developed within the academy, and therefore the championship.

We must promote new and more sufficient consumption patterns, renewable energies, and the use of electric vehicles.



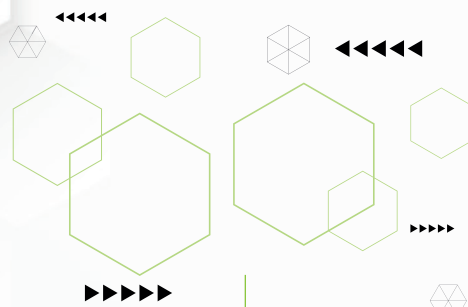
AN EDUCATIONAL AND SOCIAL ASPECT

In addition to its environmentalism, the **MONACO E KART CHAMPIONSHIP** is also **educational**, thanks to the creation of an **educational dynamic** around this championship.

Working closely with **engineering schools** or **training courses** to become a **car mechanic** is another theme developed within the MONACO E KART CHAMPIONSHIP. The goal is **to train the youths of tomorrow** by offering them concrete experience in their potential future profession.

The social side will be highlighted with go kart, which will be modified and adapted **so that drivers with disabilities** can also have fun behind the wheel of an **electric go kart**. In the beginning, this will be a way for them to discover the sensations of electric motorization, and in the near future we would create a 'HandiKart' category into the championship.





THE E PADDOCK

In addition to the electric go kart championship, an **ecological dynamic** around clean mobility and sustainable development will be developed through **the 1st E Paddock**.

This open-air exhibition, within circuits or cities, will aim to inform the general public about new green technologies and emerging players in clean mobility.

This event will be the link between:

INFORMATION + AWARENESS + EDUCATION + ENTERTAINMENT + GREEN MOTOR SPORT

Indeed, many companies, organisations, car manufacturers, etc... will exhibit their products during our competitions.

Interactive activities, animations, demonstrations and product tests will be organised.

Finally, we will offer electric go kart tests open to everyone.



05

WHY TRUST US?



ANTHONY SOMMA

☎ 06 73 33 62 03

ANTHONY SOMMA

- ▶ Performance Engineer / Simulator Operator for Jaguar Formula E Racing Team (Williams F1)
- ▶ Designer and Creator of racing circuit for competition simulator
- ▶ Go kart driver in competition for 10 years



CLIVIO PICCIONE

☎ 06 24 66 55 47

CLIVIO PICCIONE

- ▶ Monegasque Car Driver
- ▶ Single-seater and GT career
- ▶ Director of a go kart track in Monaco
- ▶ Director of Pit Stop Monaco



ROBIN LAURIOT

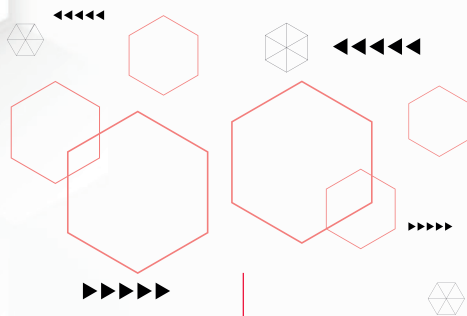
☎ 06 59 55 25 79

ROBIN LAURIOT

- ▶ Manager of a go kart track in Monaco
- ▶ Founder of the Monaco Karting Association
- ▶ Manager of Team Monaco E Sport
- ▶ Former top level go kart driver

OTHER MEMBERS :

- ▶ Workshop : **GUILLAUME THEOT**
- ▶ Graphic design : **VANESSA POLIA**
- ▶ Photography and video : **JULIEN PRADA**
- ▶ Public relation : **CHARLES-BERNARD ADREANI**





06

IN SUMMARY

THE MONACO E KART CHAMPIONSHIP IS:

- ▶ One answer to many current environmental and sporting issues
- ▶ A unique concept: 1st electric go kart championship in Monaco and in France
- ▶ A prestigious environment
- ▶ A team of passionate professionals
- ▶ A turnkey concept thanks to the use of high quality technologies
- ▶ The only gateway to electric motor racing
- ▶ An exclusive championship and academy
- ▶ An exhibition of new unique green technologies

1 SINGLE OBJECTIVE



Promotion of ecology and environmental protection through motorsport.



NOS PARTENAIRES

apm
MONACO

HRX
BESPOKE MOTORSPORT

stilo


CHARLES LECLERC

ALFANO

 FONDATION
PRINCESSE
CHARLÈNE
DE MONACO


FONDATION
PRINCE ALBERT II DE MONACO





ACKNOWLEDGMENTS & CONTACTS

**WE WOULD LIKE TO THANK YOU
FOR YOUR CONSIDERATION OF THIS PRESENTATION.**

- ▶ **Web site :** www.mekc.org
- ▶ **FACEBOOK :** MeKC.Official
- ▶ **INSTAGRAM :** @MEKC.OFFICIAL
- ▶ **LINKEDIN :** Monaco eKart Championship
- ▶ **Email :** info@mekc.org
- ▶ **Public relation :** RevuedePressePACA@gmail.com