

Guide for Sustainable management of the ISDE & EnduroGP events

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# Sustainability in Sport

Sporting events and activities unite millions of people around the world each year.

These activities can be used to engage people in sustainable innovation from within sporting teams and sporting structures.

The scale for change that can be implemented and the number of people the sports industry can inspire is incomparable.

Sport is uniquely qualified to be the "agent for change" on a very broad scale.

# Sustainability in the FIM

The Fédération Internationale de Motocyclisme (FIM) has been working on sustainability since 1992, when the first working group dedicated to sustainability in motorcycling was created. Later in 1994 the first FIM Environmental Code was published.

The Environmental Code is updated annually by the International Sustainability Commission (CID).

The latest version of the Environmental Code for 2025 includes rules and recommendations that are a point of reference for the prevention of sound pollution, fuel consumption, protection of the soil, natural aquifers and biodiversity, as well as encouraging the participation of the public in sustainable habits.

This Sustainable Management Guide is based on the Environmental Code, which outlines both mandatory requirements as well as suggestions to enhance sustainability at each event.

For assistance in organising an environmentally responsible event, please rely on your Sustainability Steward and/or Delegate, who will be happy to provide support.



"This Sustainable Management Guide is based on the Environmental Code"



#### Introduction

Sporting events such as Enduro, generate significant economic benefits for host cities and regions, as well as promoting physical activity, mental well-being through connection with nature and social interaction.

Sanchez and Barajas highlight that sport, through any of its manifestations constitutes one of the sectors of greatest economic importance.

Likewise, it represents a significant impact on the environment.

As mentioned by Farías Torbidoni (2014) there is a revaluation of the natural environment as a result of good management, as well as a stimulus to regional development at an economic level.

Outdoor sports can have varying degrees of environmental impact, influenced by factors such as route planning, transportation logistics, organiser and participant awareness, event size and the number of spectators.

By identifying and understanding these impacts, we can implement effective mitigation measures to reduce the event's negative environmental footprint. Based on Farías' (2014) study on the environmental impact of mountain biking, which closely parallels Enduro, five key environmental impacts have been identified: on vegetation, soil, water, wildlife, atmosphere and others, as outlined in the FIM Environmental Code.

#### Vegetation

- Decrease in the growth and diversity of plant cover
- Decrease in plant reproductive capacity
- Changes in plant communities
- Alteration of microclimates
- Loss of surface vegetation

#### Soil

- Destruction of the top layer of organic matter
- Alteration of the soil horizon
- Soil compaction and displacement
- Alteration of basic soil characteristics (aeration, temperature, soil fauna, texture, nutrients, etc.)
- Contamination of aquifers due to leaking of oils or other chemicals
- Reduced filtration capacity

#### Water

- Increase in water turbidity
- Introduction of chemicals
- Alteration of water composition
- Increase in algae presence
- Contamination due to liquid spills (oil, chain cleaner)



#### Wildlife

- Quality reduction in animal habitats
  Specific and targeted disruption of particular wildlife species in their natural habitat
- Modification of natural behaviouors
- Death of species from eating plastic and other waste



#### **Atmosphere**

- Sound contamination
- Pollution from greenhouse gas emissions

#### **Others**

- Waste generation and litter
- Negative visual impacts
- Landscape modification

(Source: adapted from Farías (2014)

Download here: (https://www.fim-moto.com/fileadmin/user\_upload/Documents/2024/65.620.01\_En\_June24v3.pdf?t=1723754787)



# **Environmental Management Plan**

The FIM Environmental Code requires the development of an Environmental Management Plan based on a prior evaluation of the potential impacts — both positive and negative — that the event may cause. The Environmental Code outlines the essential components that must be included. This Plan must provide in detail the necessary actions required to prevent, mitigate, control, compensate, and correct the identified negative environmental impacts.

FIM Sustainability Stewards have been trained to identify at a basic level the key environmental a spects, assess impacts, recommend mitigation measures, and develop an Environmental Management Plan.

## **Method**

For the preparation of this guide, we based our research on various sources related to similar sports and their environmental impacts, as well as the FIM Environmental Code (2024 version). We considered the different phases of an enduro event: before, during, and after. Additionally, various case studies conducted by students aspiring to become FIM Sustainability Stewards were reviewed, which were completed during sustainability seminars led by certified instructors from the FIM Academy.

# **Objetive**

The purpose of this guide is to assist the organiser of ISDE enduro events and EnduroGP events in identifying the potential impacts of their event and in developing an Environmental Management Plan aimed at reducing these impacts and enhancing the positive footprint of the event.

The guide will outline mandatory steps to follow, and we have also included various tips to provide ideas and suggestions to improve overall management. Based on the FIM Environmental Code, this guide will also help improve the event's image, attract potential sponsors, defend the event against possible criticisms, and more.

Our goal is for the organising team to operate with a sustainable mindset, ensuring the event respects both the environment and society, while leaving a positive legacy for the community and the future.

"The purpose of this guide is to assist the organiser"



## **Cover Page**

The cover page must include:

- The name of the event.
- The FIM/IMN number.
- The name of the organiser or person in charge
- The date
- The environmental officer.
- The person responsible for preparing the report, and their FIM license numbers.

Event logos and the Ride Green logo can be included. For those events that organise a KiSS program, the logo will be made specifically for that event.

# Description of the event Responsibilities and their respective roles

- Race Director
- FIM Course Inspector
- Clerk of the Course
- FIM and FMNR Steward
- Sustainability Steward and Delegate

# "You can find this in the Supplementary Regulations of the particular event"





## **General Description of the Event**

It is important that you plan your event with the input of your FMNR appointed Sustainability Commissioner, as well as taking into consideration local laws to ensure legal compliance. This will help minimise any negative environmental impacts while enhancing positive social, economic and environmental outcomes. It is very important to consider that routes and paddocks are not located on fragile or vulnerable sites, that they have appropriate access, that there is an availability of sustainable transportation, basic services, and, in some cases adequate ventilation in the case of closed or roofed paddocks, to avoid the accumulation of emissions.

This section is to learn more about your event. Provide a general description of the area where the event will take place, including all tests, with a focus on the native vegetation, land use, and local wildlife. There is no need for an in-depth analysis; just offer enough information for users of this guide to understand the general landscape. It is important to include aerial or satellite photographs to add to the information provided.

Additionally, share some background on the event's tradition, who the organisers are, the number of volunteers involved, and expected economic and social impacts. What do you hope this event will contribute to your community? Mention if you have worked with local authorities or NGOs on sustainability efforts, and detail any prior preparations made.

".. as well as taking in consideration local laws"

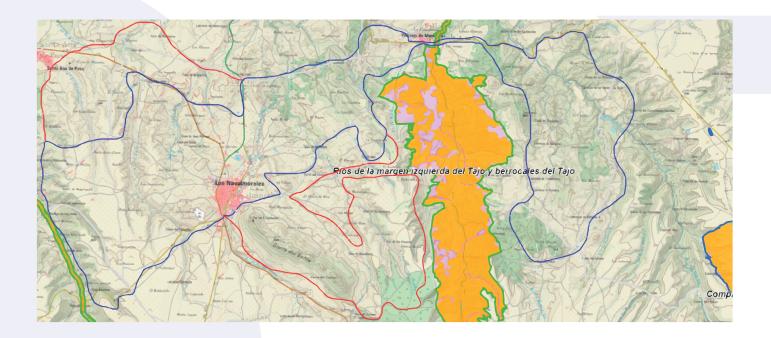




#### **Selection of Tests and Access Routes**

This is one of the most sensitive aspects of the event: selecting the site and routes not only from a sports perspective, but also choosing locations that minimise environmental impact. Take into consideration local and national regulations, as well as those of the relevant sports federation, if applicable. For example, some countries do not allow events to take place over waterways. Recommended: in this section, you can include permits and images of the respective access areas.

A good track layout is the best way to protect the environment. Farias E 2014



## **Photographic Record**

In order to clearly document changes over time, we recommend including a photographic record of sensitive areas and routes. This will provide evidence of the condition of the terrain before and after the event.

Additionally, where feasible, tracking the forest's recovery process through ongoing documentation is advised.

This brief study will serve as valuable support when justifying future events.



# **Spectator Forecast**

In this section, include the number of spectators and participants estimated to attend the event. This forecast will help to appropriately plan for the correct number of sanitary installations needed as well as other services for the event.

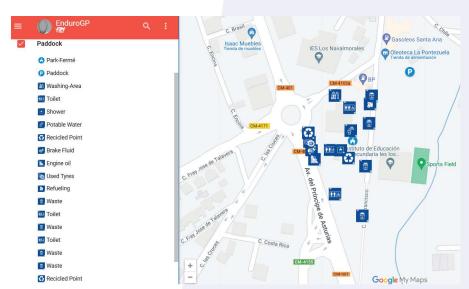




# **Environmental Map**

In accordance with the FIM Environmental Code, a diagram displaying the different points of environmental management of the event must be included in your Environmental Management Plan as a minimum.





https://www.google.com/maps/d/edit?mid=1lgYcF\_jAf\_eFy\_uuayJp5NoKgy1CQy4&usp=sharing



# **Waste Management**

Waste management constitutes one of the most significant impacts of an event encompassing waste generated from the competition itself as well as the spectators attending. Particularly concerning is the presence of uncontrolled waste in the forest.

In this section, provide information about the quantity of waste disposal containers that will be made available, how you will implement your recycling programme, and the specific materials you plan to recycle (e.g. tyres, waste liquids, used rags and cloths, hazardous and clinical waste. Mention whether dedicated recycling containers will be provided.

Additionally, outline any agreements with recycling companies and final cleanup services. Specify who will be responsible for waste collection and management, such as local authorities or private contractors.

It is important to avoid environmentally harmful materials such as plastic during the event. For example, avoid the use of plastic bags, straws and product wrapping.

Remember that reusing is important, and recycling should be done promptly in compliance with local regulations.





# **Sanitary Services**

Provide an appropriate number of restrooms in proportion to the number of participants and spectators expected at your event, according to the FIM regulations. It should be added to your Environmental Management Plan, along with a detailed cleaning schedule for the facilities and a sanitary waste collection plan, especially for portable toilets.

Be sure to accommodate individuals with disabilities and designate separate restrooms for males and females.

It is recommended to provide restrooms in the following areas:

- The Paddock.
- By Parc Ferme and the Technical Inspection area.
- Before each of the timed special tests.
- Camping zones.
- In public/spectator areas.

















## **Showers**

Provide an appropriate number of showers in relation to the number of participants expected for your event, according to the FIM regulations. It is necessary to have a cleaning schedule planned for all showers and it must be adhered to.

Showers must have adequate drainage and separate showers are required for women and men.







## **Motorcycle Wash Area**

A designated motorcycle wash area must be established. This should be an area with a non-porous surface that will prevent water from spilling onto and seeping into the ground. In compliance with the FIM Environmental Code, all water used in the wash area must be treated and either discharged into the public sewer system (if available) or collected by a specialised treatment company, in which case a collection schedule should be arranged.

Clear signage should be displayed in the wash area, indicating that 'only water is permitted for use'.

In the absence of a dedicated wash area for the event, participants may be directed to nearby service stations with carwash facilities. The GPS coordinates of these locations should be included in the event's Regulations or on the Sportity app.





The cleaning area must be built with a non-porous surface and a proper drain with an oil-divider to prevent pollution of the ground.

(FIM Environmental Code4.3.C)



# "Only water is permitted for use"





# **Motorcycle Liquid Waste Area**

Provide an appropriate number of tanks/ oil drums to collect:

- Engine oil
- Cooling liquids
- Brake fluids
- Fuel
- Cooking oils

It is recommended to place liquid waste collection containers on a non-porous surface to avoid liquids coming into contact with and seeping into the ground. Establish a collection plan with a contractor authorised in liquid waste collection.











# **Tyre Collection Area**

For long-duration events, a designated collection point for used tyres should be established. Additionally, arrangements should be made with an authorised contractor to handle the collection of these tyres. If this service is unavailable, participants must be notified to ensure they take responsibility for recycling their used tyres appropriately.

At some events, a controlled area is usually set up where teams can deposit their used tyres.

These are then collected by local individuals, who repurpose the tyres, giving them a second life.



"Second life for tyres used by amateur motorcycles"





## **Wastewater Collection**

Tanks for the collection of wastewater from motorhomes, team trucks, and campervans should be made available in the paddock and camping areas, provided these areas are not already equipped for this.

A collection schedule should be implemented, with an authorised contractor responsible for handling the disposal of wastewater.

Due to the high water consumption in both the main paddock and secondary paddock, it is essential to ensure that teams have easy access to water supply points.







#### Recommendations for the Paddock:

- In the main Paddock where the official team trucks and facilities are located, it is essential to liaise with team representatives to determine the amount of wastewater generated daily. This will help define an appropriate collection schedule tailored to each team's needs. Depending on the size of the team, up to two collections per day may be required. It is recommended to provide each team with containers with a minimum capacity of 1m³ and implement a waste collection plan.
- In the secondary Paddock where the remaining riders are located, a 1m³ tank should be installed for every 10-15 caravans, with daily waste collection (average daily water consumption of 60-100 litres per caravan). Similarly, in the spectator camping and caravan parking areas, it is recommended to install a 1m³ tank for every 20-25 caravans, with daily collection services to accommodate the same average daily consumption rates per caravan.
- Catering area: If one or more areas are designated for catering and these are temporary zones, it is essential to manage the wastewater generated by each of the installed food stands. In this case, it will be necessary to ask each vendor for their estimated daily water consumption to determine the appropriate system and frequency for wastewater collection. Additionally, it is important to determine whether there will be any leftover cooking oils, which must also be collected.















With this information, the number of tanks required for the event can be calculated, and a detailed plan for the collection of wastewater from these tanks will be implemented, ensuring that an authorised service provider carries out the task.

The following guidelines should be clearly communicated to all attendees of the event:

- Discharging wastewater onto the ground (in the paddock, camping areas, etc.) is strictly prohibited.

Clear instructions must be provided regarding the designated wash area locations, including GPS coordinates and a map of the area.



# **Waste Disposal**

Waste disposal bins must be set up in all main locations of the event:

- In the Paddock.
- Camping zones and caravan parking.
- Race offices.
- Catering areas.
- Commercial area.
- Special and timed tests.
- Technical Inspection area.
- Refuelling locations.

All areas where large numbers of spectators are expected to be differentiated waste collection must be set up at all the above areas. Waste should be collected at least once a day, and should be assessed whether, in certain cases, more frequent collection is necessary. This service must be performed by an authorised contractor.









Display their location on the Environmental Map. During the first meeting of the jury, inform teams where these services are located. Establish a cleaning and maintenance plan and check there is adequate drainage or a waste collection plan.





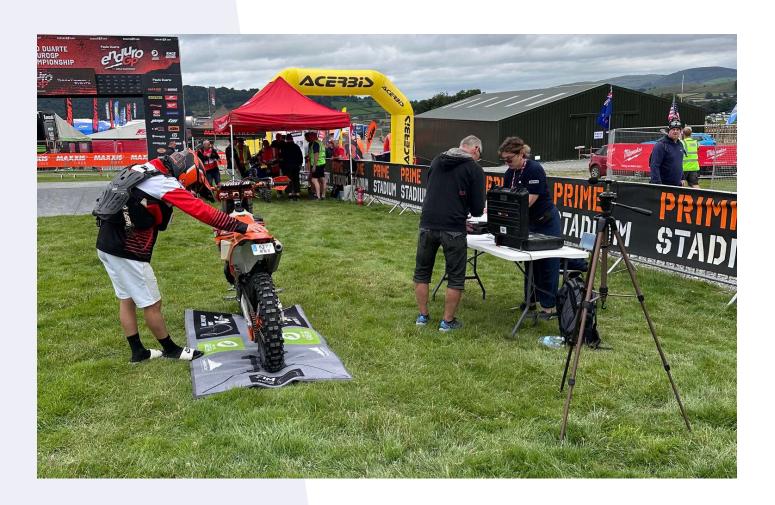
#### **Sound Control**

Concerns about noise levels at motorcycle events extend beyond the motorcycles themselves.

In addition to engine noise, attention must also be given to sound levels from megaphone and speaker systems, crowds, and other event-related noises. It is recommended to minimise excessive noise from motorcycle activities where possible and consider the public's reaction to these sound levels.

To mitigate sound generated during the event:

- Avoid unnecessary engine operation.
- Implement sound control regulations based on the specific discipline, with sound levels monitored by designated Sound Control Officers.
- Ensure compliance with any stricter local regulations, which will take precedence if applicable.





# **General Cleaning**

Prepare a cleaning schedule of all the areas where the event takes place. The staff assigned to this must ensure the following areas are kept clean:

- Paddock pathways.
- Race office area and other areas used by the Organisation.
- Commercial area.
- Catering area.
- Special and timed sections.
- All areas where large numbers of spectators are expected to be.
- Camping areas and caravan parking.

Although there are a lot of waste disposal bins located around the event, there will always be litter on the ground.

#### Important:

For all points mentioned in this guide, it is necessary to:

- Establish every location.
- Establish a number of units.
- Establish a cleaning and collection period.
- Be certain that the companies responsible for those jobs are certified to carry them out.
- Oversee that each of the established protocols exist and that cleaning and collection is carried out according to the planned schedule with each of the contractors responsible.
- Ensure each of these points are clearly and unmistakably sign posted.
- Ensure each of these points are defined on the Environmental Map.
- Distribute this information to all those attending the event.

During the first meeting of the jury, inform teams where these services are located. Establish a cleaning and maintenance plan and check there is adequate drainage or a waste collection plan.



### **Coordination with Public Authorities**

Briefly note the different authorities that will participate in the event: firefighters, police, environmental authorities, NGOs, local government (services), traffic coordinator, security, etc. This will help ensure that the relevant information is available in case of need and to understand what types of permits and work will be required for the event.







### Provision of Environmental Mats (Art. 4 FIM Environmental Code)

The environmental mat is a mandatory requirement for the event. These mats are essential tools for preventing spills and subsequent soil contamination. While each participant is responsible for bringing their own environmental mat, it is important to recognise that protecting your event site is also at stake. Therefore, we recommend having a supply of mats available for participants who may not have brought their own. These can be rented or sold and could even serve as promotional material. In the case of enduro, companions and assistants are often the ones who violate this rule the most, so it is important for the Organiser and their Sustainability Team to ensure that these individuals are not causing contamination.

In this section, please explain what measures you will take to provide environmental mats in special cases? How will you promote the use of the mat? For more information, please refer to the FIM Environmental Code.





# Media Centre and Reception and its Environmental Provisions

As part of the event, the Media Centre and Reception can contribute to the event's overall environmental impact.

#### Recommendations for media centre & reception:

Certain measures can be implemented to mitigate this, such as:

- Minimise the use of paper.
- When using paper, use recycled paper.
- Print double sided.
- Only print necessary pages.
- Reduce mailing and distribution lists.
- Encourage the use of new technologies to distribute information.
- Use whiteboards and erasable markers instead of paper on bulletin boards and take digital photographs if information needs to be preserved.
- Switch off lights and equipment when not in use.
- Disconnect electronics and chargers when not in use.
- Use natural light where possible.
- Provide natural ventilation to minimise the use of air conditioning.
- Use awnings, double glazing, reflective coatings, self-closing doors and other techniques to minimise heat-gain and reduce the demand for air conditioning.
- Use reusable cups, plates and cutlery instead of disposable ones.
- Install low-flow or low-volume taps, toilets, showers and urinals that don't rely on water.
- Generate electricity on site using solar and other alternative energy systems.

In this section, please explain what actions you will take in this area of the event.



# **Parking Management and Traffic Coordination**

Prepare parking areas in suitable locations that do not disturb surrounding vicinities, do not block emergency routes, or occupy vulnerable sites.

In this section, describe the types of parking you plan to implement, including the different zones. Indicate whether you will provide spaces for individuals with disabilities, special services such as electric vehicle charging stations, or for caravans. Additionally, inform us if parking areas will be managed by local community associations or if they will contribute to the community in any way. Where feasible, aim to use existing infrastructure such as public parking facilities.

We refer to sustainable transportation as any mode of transport that helps reduce greenhouse gas emissions, enhances the quality of life for spectators, improves air quality, and decreases energy consumption, among other benefits.

Depending on the size of your event, it may be necessary to arrange public transportation to shuttle attendees from central locations to the event venue. It is important to include in your Environmental Management Plan the types of transportation facilities you will offer. Keep in mind that public transport significantly reduces greenhouse gas emissions.

It is also essential to promote the use of bicycles, motorbikes, electric scooters, and walking by providing appropriate signage, ensuring safety, and offering facilities such as helmet storage among others. You can further enhance your plan by including details such as routes, schedules, and types of transportation offered.



#### **Guidelines for Sustainable Mobility:**

- Reduce the use of private cars.
- Encourage the use of public transport.
- Promote car-pooling /(HOV) high occupancy vehicles.
- Promotion of exclusive lanes for HOV.
- Encourage the use of bicycles, motorbikes and ebikes.
- Companions or followers must adhere to the same mobility guidelines as the riders.
- Use of electric vehicles.



## **Advertising and Marketing (Article 7.6)**

- Promote sustainable advertising by using frames or structures that blend with the environment and are reusable.
- Using recyclable materials.
- Using reusable products.
- Advertisements can be reused if dates, names or directions are not added.
- Avoid using leaflets or printed communications, as they are often thrown away.
- Use advertising to send positive messages to society.
- Use reusable ties, and if you use plastic ones, do not leave them on the ground, as animals mistake them for food.

Include in this section the actions you will take to avoid damage to private property, cultural heritage and nature. You can include a copy of the permissions to advertise at the event.



### **PostEvent**

Indicate the actions you will take to ensure the site is left in good condition, including final waste disposal, cleaning and pack down of teams in different areas, as well as post-event management of camping, parking, and paddock areas.

#### **Attendee Information:**

Before and during the event, attendees should be informed about the following:

- Points of interest.
- Restricted areas (if applicable).
- Public transport schedules to access event zones, if necessary.
- Guidelines for using recycling points.
- Awareness messaging promoting sustainable behaviours.

These messages will be communicated via social media and loudspeaker announcements during commentary sessions.

The Sportity app is highly recommended for this purpose, subject to FIM approval.

#### Information on the area's cultural and natural resources:

- The plan should detail any notable cultural and natural points of interest that can be highlighted to raise awareness among spectators of the event, using the event as a platform to promote the region and attract future tourism.
- As an internationally recognised event, it will gain visibility in numerous countries, serving as an additional opportunity to showcase and promote the area or region where the event is hosted.

#### **Diversity:**

Information on staff/volunteers working at the event must also be provided:

- Number of women/men.
- Whether they are local or from outside the area.
- Whether any group with disabilities is involved.

We place great importance on the social aspect of the event.



#### **Economic Impact of the Event:**

It is recommended to estimate the economic impact the event will have on the area, as the large influx of riders and spectators will greatly benefit local hotels, restaurants, and businesses. We place significant importance on the economic aspect of the event.

# We strive to carry out activities related to sustainability and environmental protection:

- Working on the environment, such as planting trees, habitat restoration, and reintroduction of protected species.
- Nature clean-ups.
- Raising awareness about the importance of selective waste collection.
- Promoting sustainable behaviour.
- Noise control for both Participants and loudspeaker systems..
- Working with local universities, schools, and associations to organise various event-related activities.
- Aligning all actions with the objectives of Agenda 2030.

We place significant importance on the environmental aspect of the event.

#### Other aspects to consider:

- Promote the use of reusable cups in the dining area (with event logos that can be sold as souvenirs for fans).
- Placing all combustion generators on environmental mats.
- Minimise the operation time of combustion engines, turning them off when not in use.
- Install signage and markers on inert elements.
- Plan for designated refuelling areas where teams are not able to access, so the organiser is responsible for transporting participants' fuel drums. Ensure safe transport and provide enough environmental mats in the refuelling area for safe refuelling operations and proper storage of fuel drums.
- Work on locating parking areas for all attendees.
- Adapt access and areas for people with different abilities.
- Work with local universities, schools and associations to organise event-related activities.
- Align all actions with the objectives of Agenda 2030.

Include in this section the actions you will take to avoid damage to private property, cultural heritage and nature. You can include a copy of the permissions to advertise at the event.



#### Highly recommended to report (Quantities):

- Litres of engine oil collected.
- Litres of other motorcycle waste liquids collected.
- Litres of wastewater collected.
- Kg. of rubbish collected and if possible, by type.
- Nm. travelled by Organisation vehicles and the number of people in each of them.
- Mr. Travelled by participants, separated by engine type (2-stroke & 4-stroke).
- Number of vehicles used by participants and teams.
- Mean travelled by each of participant from the departure of their town of origin, during the event and return to their town.
- Number of event spectators.
- Number of participants and their origin.
- Number of paddock users.

#### **Monitor:**

- Now often various types of waste are collected
- How often showers and toilets are cleaned
- Now often facilities are cleaned

All of this with the aim of creating a report that is sent to FIM – CID for the preparation of statistics and future studies.



















































Sanchez y Barajas retrieved from the web https://abarajas.webs.uvigo.es/LOS%20EVENTOS%20DEPORTIVOS%20COMO%20GENERADORES%20DE%20IMPACTO%20ECONOMICO.pdf

Farias, E (2014) Minimización de los impactos medioambientales en los eventos deportivos en el medio natural:las marchas de bicicleta todo terreno. Apunts. Educación Física y Deportes 2015, n.º 122, 4.º trimestre (octubre-diciembre), pp. 68-80 ISSN-1577-4015



