



# RACING TOWARDS A SUSTAINABLE FUTURE:

A REVIEW OF THE DISCLOSED SUSTAINABILITY CREDENTIALS OF 106 GLOBAL TWO AND FOUR WHEELED MOTORSPORT CHAMPIONSHIPS

THIRD EDITION JANUARY 2024

## FOREWORDS

'In the ever-evolving landscape of motorsports, the Sustainable Championship Index stands as a touchstone of progress and responsibility. As the roar of engines echoes through the tracks, so does the call for a more sustainable and environmentally conscious approach to the sport we love. The year 2024 marks a pivotal moment in the journey towards a greener future for motorsports, and the Sustainable Championship Index embodies the attempt to provide a helpful compass, guiding the industry actors towards a more sustainable horizon.

Motorsports has long been an arena of innovation and cutting-edge technology, but it is crucial that this progress aligns with our responsibility towards the planet. The Sustainable Championship Index not only applauds those who have embraced eco-friendly practices but also serves as a benchmark and accountability measure for the entire industry. It's not just about the thrill of the race; it's about racing towards a future where sustainability and high-performance coexist harmoniously.

This initiative underlines the importance of integrating environmental consciousness into the very fabric of motorsports. By showcasing and evaluating sustainable practices across championships, the Index encourages healthy competition not just on the racetrack but also in the realm of environmental stewardship. As we embark on this journey, let the Sustainable Championship Index inspire us to push the boundaries of what's possible, proving that speed and sustainability can share the podium. Together, it is time to accelerate towards a future where motorsports lead the way in championing a sustainable and responsible ethos.'

### **PAOLO AVERSA**

Professor of Strategy  
King's Business School – King's College London

Henry Ford said 'Motor racing began five minutes after the second car was built,' and this is why motorsport is uniquely positioned to succeed in the race to a sustainable future for sport. We will do what we do best – use our competitive spirit and the desire to be the best to push each other forward, and fast.

As a young driver, choosing to prioritize series that support electric, hydrogen and alternative fuel concepts means that just by doing the thing, just by racing my laps, I'm having impact. But it's not enough. There's a new generation of fans who will expect even more when it comes to sustainability. They'll expect that the enjoyment of motorsport experiences in the real and digital worlds is doing good, not just going fast. They'll expect sustainable practices environmentally, socially and within business organizations.

While historically motorsport isn't the first thing you think of when it comes to sustainability, it has always been the sandbox for innovation, creativity and critical thinking – for solutions that reach far beyond the road. By focusing on positive, tech-forward solutions, I know we can innovate our way through the world's toughest challenges. To succeed we'll need more action and less talk. More doing, more small steps, more individual commitment that creates compounded results. Series, governing bodies and the infrastructure that supports sport needs to come to the table prepared to act with transparency and lead the way for individual athletes, teams and fans. We've got to play the long game.

I believe the rewards of being first far outweigh the risks. Motorsport is rising to the occasion, and I'm proud to be a part of it. Let's go.

### **ELLIS SPIEZIA**

Electric Racing Driver, Ellysium Racing

## EXECUTIVE SUMMARY

With each passing year the popularity of sport continues to increase. At the same time scientists continue to issue stern warnings to society about the dangers of passing 1.5 degrees in global temperatures. The 2023 AR6 Synthesis Report on Climate Change states that “approximately 3.3 to 3.6 billion people live in contexts that are highly vulnerable to climate change”. The role and significant influence of sport in communities across the world provides a platform from which to galvanise and leverage support for sustainable action. Indeed, Motorsport and its roughly 730 million fans have the capacity and responsibility to drive action on sustainability further.

This is the third edition of the Sustainable Championships Index™ (SChI™). The SChI™ provides a yearly review of the environmental, social and governance (ESG) performance of motorsport championships around the world. This edition includes the scores of 106 two- and four-wheel championships, including two championships participating for the first time: F1 Academy and FIM E-XPLORER World Cup.

Established in 2020 by Dr. Cristiana Pace, founder of Enovation Consulting - an independent B Corp-certified sport consulting agency - and Prof. Paolo Taticchi of the UCL School of Management, the Sustainable Motorsport Index™ (SMI™) is a collection of indices that reviews, assesses and reports on sustainability-related public disclosures made by two- and four-wheel motorsport organisations. The SMI™ utilises quantitative data collection and analysis, and a proprietary algorithm to produce an independently reviewed ranking of motorsport championships' and circuits' annual sustainability performances.

The SChI™ assesses each championship using 25 sustainability performance criteria across six areas including: certifications, accreditations and awards, environmental performance, social performance, engagement and partnerships and sustainability approach. The championships' sustainability performances are then categorised in five tiers: high, medium-high, medium, medium-low and low. The findings of this year's report show that only one championship - ABB FIA Formula E World Championship - achieved the high tier ranking, and the FIA Formula One World Championship, FIM World Championship Grand Prix (MotoGP) and Extreme E continue to be at the top of the table.

Seven championships in the low performance tier scored points for the first time, and several championships including NTT IndyCar Series and Ferrari Challenge Trofeo Pirelli North America jumped between forty and fifty places in the leaderboard, moving them from the low to medium-low performance tier. 26 championships in the low performance category are one point away from moving up a category, and this year's index shows that 38 championships are now in the medium-low performance tier, as opposed to 28 last year. Finally, only 20 of the 106 championships failed to score any points in this year's report, a clear sign that sustainability remains a focal point across the motorsport industry.

This year's results indicate continued progress and improved communication across the motorsport industry. The data also shows that two- and four-wheeled championships must continue to improve their commitment to environmental and social sustainability. If done, the industry as a whole will demonstrate its leadership potential at a time of great need.

# TOP PERFORMERS



ABB FIA FORMULA E  
WORLD CHAMPIONSHIP



FIA FORMULA ONE  
WORLD CHAMPIONSHIP



EXTREME E



FIM WORLD  
CHAMPIONSHIP GRAND  
PRIX (MOTOGP)

# KEY FIGURES

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**26**

Criteria used to assess the sustainability performance of championships, based on guidelines and models promoted by the UN, EU, and OECD.

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**ESG**

*(Environmental, Social, and Governance)* is the framework used to create the Sustainable Championships Index™.

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**106**

International championships (two and four wheels).

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**4** OUT OF THE TOP **4**

reported on their sustainability progress and have published a carbon footprint assessment.

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**3** OUT OF THE TOP **4**

Championships have published Sustainability Reports and have joined the UNFCCC Sports for Climate Action Framework.

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**9**

demonstrate a medium to high sustainability performance.

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**38** OUT OF **58**

from the bottom tier have made a start on their sustainability journey.

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# BACKGROUND

## A MATTER OF URGENCY AND INFLUENCE

The 2023 AR6 Synthesis Report on Climate Change produced by the United Nations Intergovernmental Panel on Climate Change (IPCC)<sup>1</sup> states that **“approximately 3.3 to 3.6 billion people live in contexts that are highly vulnerable to climate change.”** Moreover, it unequivocally notes that “in all regions increases in extreme heat events have resulted in human mortality and morbidity.” These numbers - and the changing climate’s detrimental effect on humanity - will continue to increase in the coming years if greenhouse gas emissions are not rapidly reduced across all sectors.

Urgency is required to maintain a habitable planet for humans, and thus every industry must mobilise quickly and efficiently to drastically reduce environmental impact. With billions of people watching sport and the industry accounting for over \$500 billion in revenue in 2023 sport holds an increasingly influential position in the race towards global sustainability. This outsized influence is highlighted by the MIT Aim Hi study<sup>2</sup> which shows that over the past 50 years, the public’s faith has shifted from politicians (20%) and scientists (10.5%) and is now placed on the shoulders of athletes (55.18%).

In the recent past individual athletes have spoken out, or changed their behaviour based on their individual beliefs. Colin Kaepernick sparked debate in American Football by taking the knee in protest of police brutality, and Formula 1 drivers Sebastian Vettel and Lewis Hamilton voiced their opinions, changed their diets, and altered helmet colours to show support for climate action and protest LGBTQ+ discrimination. Nielsen’s 2021 Fan Insights report<sup>3</sup> reiterates the importance of athlete activism, showing that in 2020 alone, **95% of athletes with more than 5 million followers on Instagram that shared purpose-driven content generated \$314 million in media value for the causes they supported.**

The sport industry at large is reckoning with its growing influence and the simultaneous demand from fans and government for greater sustainability measures. According to PwC’s 2023 Sports Industry Outlook Report<sup>4</sup> attitudes towards sustainability in sport are shifting, with 90% of Gen X consumers saying they would be willing to pay an extra 10% for a sustainable product, a marked increase from 34% two years ago. It is now the sport sector’s responsibility to respond to its own capacity for good and fans’ demand for sustainable action.

Source:

<sup>1</sup> [https://www.ipcc.ch/report/ar6/syr/downloads/report/IPCC\\_AR6\\_SYR\\_SPM.pdf](https://www.ipcc.ch/report/ar6/syr/downloads/report/IPCC_AR6_SYR_SPM.pdf)

<sup>2</sup> <https://www.globenewswire.com/en/news-release/2023/05/03/2660537/28124/en/Global-Sports-Market-Forecast-to-2032-Sector-is-Expected-to-Reach-623-63-Billion-in-2027-at-a-CAGR-of-5.html>

<sup>3</sup> <https://niensports.com/sports-fans-are-looking-to-sports-leagues-and-athletes-to-support-social-causes/>

<sup>4</sup> <https://www.pwc.com/us/en/industries/tmt/library/sports-sustainability-playbook.html>

Motorsport is often seen as a driver of global emissions and a contributor to global environmental challenges due to its traditional use of fossil fuels and its expansive global calendar. However, since its genesis, the sector has been a driver of innovation and technological expertise. The introduction of electric vehicle racing, the ban on tyre warming, the implementation of more sustainable fuels and the sector's growing portfolio of off-track environmental and social initiatives are examples of motorsport's capacity to help drive sustainable change. As motorsport continues to become part of the solution to climate change it must leverage its technological expertise to deliver greener operations and positively influence supply chains, promoters, sponsors, host sites and fans.

Meaningful action to reduce greenhouse gas emissions has never been more needed, and sport is being asked to answer the call for change. **Whilst major Motorsport championships have started to act since as long as 1993 or 2014, a wider industry change can only happen if actions are showcased and sustainability is incorporated as wider requirement from International and National Motorsport Federation.** Moreover, influence and potential for change can only translate into meaningful actions if progress is effectively communicated, and best practices are shared throughout the industry.

The SChI™ is produced annually as an accurate portrayal of motorsport's baseline in sustainability. It is a reflection of the sustainability work done across the industry in the previous year and serves to disseminate sustainability best practice. It also pushes for greater industry transparency by only analysing publicly disclosed information. Only through transparent annual reporting and year-on-year improvement can the industry's commitment to sustainability be accurately reflected.

# STUDY AIMS AND METHODOLOGY

The 2023 Sustainable Championships Index™ is the culmination of a quantitative study of the sustainability actions and commitments of 106 two- and four-wheels global motorsport championships. **Data collection for this year's edition began 1 January 2023 and ended on 30 November 2023.** Only championships which were in full operation in 2023 were assessed (see the full list in Appendix 1), and only publicly disclosed information formed part of the SChI's™ analysis.

The SChI™ is part of the larger Sustainable Motorsport Index™ family, which provides an annual research-based comprehensive breakdown of the sustainability performance of motorsport industry stakeholders across different categories (circuits and championships). This is the third annual SChI™, and as in the two previous editions, it ranks each championships' sustainability performance using 25 industry-specific criteria spread across six categories.

The six categories assessed are certifications, accreditations and awards, environmental performance, social performance, engagement and partnerships, and sustainability approach. Each criterion is subdivided and individually weighed, and **all data collected is independently reviewed by an external, expert academic panel.** This differentiates the SChI™ from other sports industry sustainability indices which often rely on voluntary surveys or other methods of data collection and analysis.



**Table 1:**

Criteria used to assess the sustainability performance of championships and to build the Sustainable Championships Index™.

**CERTIFICATIONS****1. ISO 14001**

Sets out the criteria for an environmental management system that an organisation can use to enhance environmental performance.

**2. OHSAS 18001 OR ISO 45001**

Sets out the criteria for an occupational health and safety management system that an organisation can use to protect employees and visitors from work-related accidents and diseases.

**3. ISO 20121**

Sets out the criteria for a sustainable event management system that an organisation can use to manage events and control their social, economic, and environmental impact.

**4. ISO 9001, LEED, BREEAM or PEARLS (FOR HEADQUARTERS)**

Sets out the criteria for a quality management system that an organisation can use to demonstrate the ability to consistently provide products and services that meet customer and regulatory requirements. LEED, BREEAM, and PEARLS set the criteria for the design and maintenance of healthy, highly efficient and cost-saving green buildings.

**5. ISO 26000**

Provides guidance to those who recognise that respect for society and environment is a critical success factor. Application of ISO 26000 applies to businesses and organisations committed to operating in a socially responsible way.

**6. Carbon Footprint Assessment or Carbon Disclosure Project (CDP)**

Tracking, measuring, and disclosing an organisation's carbon emission activities using a carbon calculator or as part of the CDP, a not-for-profit organisation that works with organisations to measure and disclose their activities.

**ACCREDITATIONS AND AWARDS****7. FIA Environmental Accreditation and/or FIM Environmental Awards**

The FIA Environmental Accreditation programme helps to measure and improve the environmental performance of championships.

The FIM Environmental Award recognises the efforts made by organisers, federations, circuits, championships, and teams to develop sustainable initiatives and events that minimise the environmental impact and leave a positive legacy for the local communities.

**8. Other Industry Awards**

Industry recognised awards that acknowledge and award organisations for their sustainability impact and activities (e.g., EDIE, SportsPro Awards).

**ENVIRONMENTAL CRITERIA****9. Waste Management and Circular Economy Initiatives**

The adoption of sustainable waste management practices and the development of circular economy initiatives.

**10. Renewable Energy and Energy Efficiency**

Procurement of green energy and/or on-site production of renewable energy. Use of LED lighting systems and other high efficiency equipment.

**11. Efficient Use of Natural Resources**

Adequate use of natural resources (e.g., water, wood, metals) and actions to protect biodiversity.

**12. Transportation and Mobility**

Actions to improve mobility to/from the championship, reduce emissions generated by transportation, and use of transportation options with a lower carbon footprint.

**13. Climate Change Projects**

Projects focused on addressing climate change.

**Table 1:**

Criteria used to assess the sustainability performance of championships and to build the Sustainable Championships Index™.

**SOCIAL CRITERIA****14. Accessibility**

Actions being taken to actively provide industry access opportunities to groups currently underrepresented in motorsport.

**15. Philanthropy**

Donations and fundraising events to support not-for-profit organisations and charitable causes.

**16. Community Events at Races**

Organisation of initiatives and events aimed at supporting the communities adjacent to the championships.

**17. Other Campaigns**

Recognises initiatives such as Sustainable Development Goal (SDG) focused campaigns and initiatives (e.g., Health/Covid-19 response etc.).

**18. Actions to Counteract Foodwaste**

Adoption of initiatives to collect surplus and combat food waste.

**ENGAGEMENT & PARTNERSHIPS****19. Partnerships for Sustainability**

Recognises SDG focused partnerships (e.g., local charities, not-for-profits).

**20. Employee/Stakeholder Engagement**

Recognises initiatives that engage and involve employees and stakeholders in SDG focused activities, as well as activities that focus on employee well-being and inclusion.

**21. Impact on Local Economic Development**

Active measurement of the Championship's impact on the local economy (e.g., on employment, tourism, local suppliers) and commitment to have a positive impact.

**SUSTAINABILITY APPROACH****22. Quality and Quantity of Social and Environmental Sustainability Policies and/or Ethics Code and/or UNFCCC Commitments**

Formal documents or webpages that disclose the commitment and behaviour of the organisation through environmental, social, and ethical standards. This could include the explicit reference to the UN Sustainable Development Goals, the UN Global Compact, and the UN Framework Convention on Climate Change.

**23. Engagement demonstrated through Activism, Events, and Sustainability Initiatives (not necessarily at races)**

Events and initiatives hosted by the Championship focused on sustainability.

**24. Sustainability Reporting**

Disclosure of sustainable business policies and practices through websites and sustainability reports.

**25. Sustainability Strategy**

Disclosure of a clear, ambitious, and comprehensive sustainability strategy that includes SMART objectives.

After all the data is reviewed, final scores are adjudicated to the participating championships based on a scale of 0-100, with 100 being the highest possible score. Based on the scores handed down, the championships are then grouped into five ranked categories which reflect their sustainability performance for the calendar year (normalising the performance data over the score of the leader). The ranking categories are high, medium-high, medium, medium-low and low (see Table 2).

**Table 2:**  
Categories of sustainability performance associated with the Sustainable Championships Index™.



HIGH SchI™ SCORE

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MEDIUM - HIGH SchI™ SCORE

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MEDIUM SchI™ SCORE

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MEDIUM - LOW SchI™ SCORE

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LOW SchI™ SCORE

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The methodology used for the SchI™ was co-developed by Dr. Cristiana Pace, CEO and founder of Enovation Consulting, and Professor Paolo Taticchi of the UCL School of Management. It aims to provide a robust and unbiased assessment of the motorsport industry's sustainability performance, accounting for all aspects of the environment, social and governance (ESG) framework. The SchI™ factors in the specific needs and opportunities within motorsport.

The wider objective of the production of the SchI™ is to promote industry best practice and encourage motorsport championships to (further) develop sustainability-focused initiatives within their organisations. The index also seeks to promote the sector's engagement with its wider ecosystems. Finally, the SchI™ provides a comprehensive overview of industry performance through a consistent and reputable ranking system.

# THE SUSTAINABILITY PERFORMANCE OF MOTORSPORT CHAMPIONSHIPS

## THE BIG PICTURE

The slow-moving shift across governments and society towards increased and improved sustainability practices continues to be reflected in the motorsport industry. As in past editions of the SChI™, the data collected for this report indicates that motorsport championships continue to introduce and implement Environmental, Social Governance (ESGs) practices into their operations. Moreover, public reporting about these practices is becoming commonplace, improving the ranking of many of the lower-scoring championships in this year's index, and allowing for the industry as a whole to shift toward a more sustainable future.

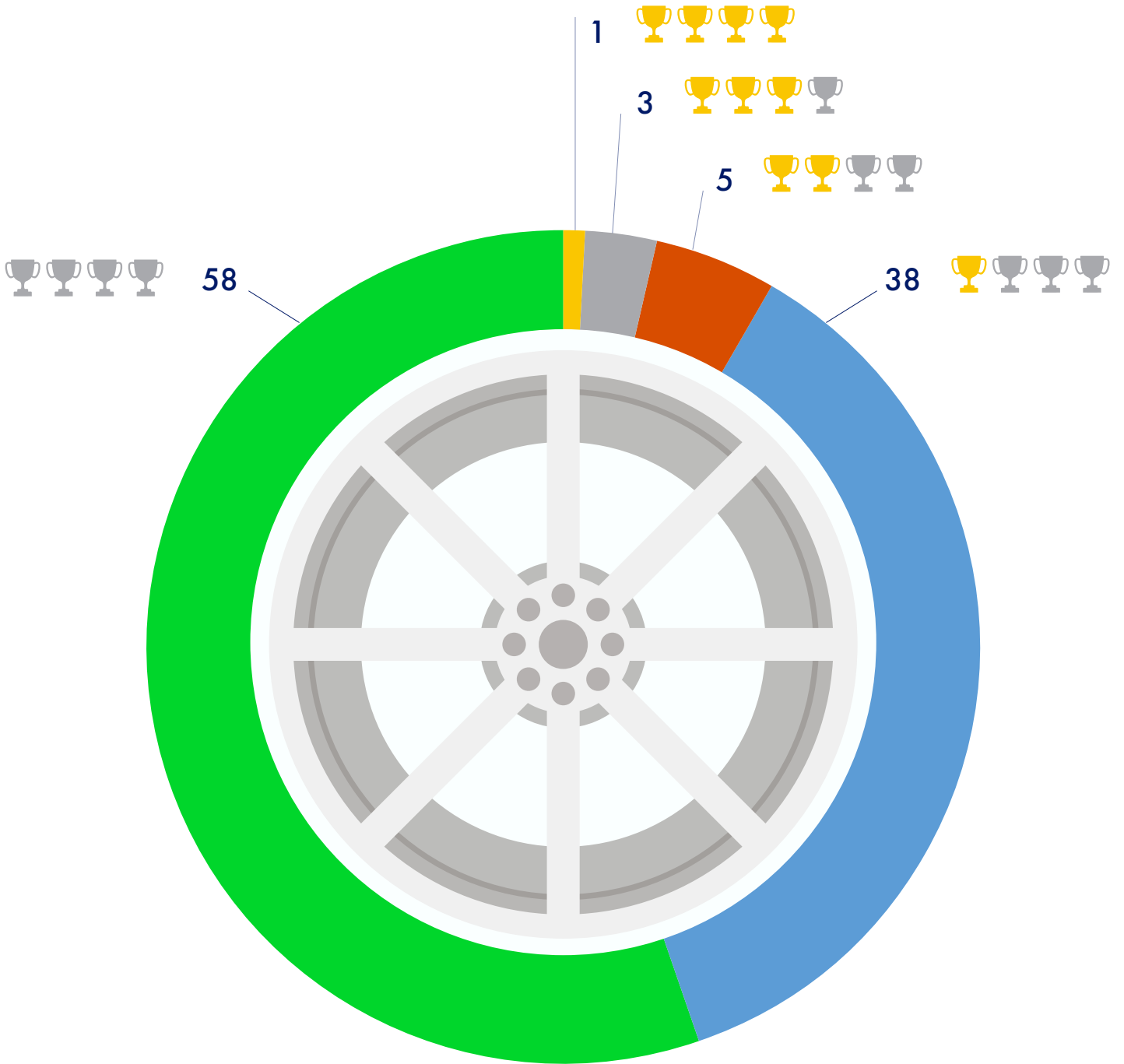
Engagement with sustainability is not uniform across the industry – not least because of financial instability amongst some of the smaller championships – but industry commitment and performances are improving largely thanks to increased regulatory requirements from governments and governing bodies. One such regulation is the European Union Corporate Sustainability Reporting Directive (CSRD) which went into effect in January of 2023. CSRD requires EU and non-EU companies listed on the European market to disclose corporate ESG activities and provide insight into their own sustainability impact, opportunities and risks. Public pressure and an increased desire from fans for environmentally friendly and socially inclusive sporting events are also helping create change in industry sustainability commitments.

Of the 106 motorsport championships assessed in this report, one was ranked in the high sustainability performance category gaining four cups, three in the three cups tier and five in the medium performance echelon, equivalent to two cups (all the same as in 2023). Lower down the rankings is where the most change took place. This report sees 38 championships make the medium-low tier (compared to 28 in 2023) with only 58 championships remaining in the low sustainability performance category.

However, of those championships yet to significantly engage with sustainability (low tier, no cups), only 20 have not scored any points at all this year. Furthermore, 26 of the 58 low-performance championships see only one-point separating them from the next performance rung. This demonstrates a continued shift towards sustainability best practice, also exhibited by the seven championships that scored points for the first time this season. They are: F1 Academy, FIA Karting European Championship, FIA Karting World Championship, FIM E-XPLORER, FIA European Rally, Indy NXT and Ferrari Challenge Trofeo Pirelli North America.

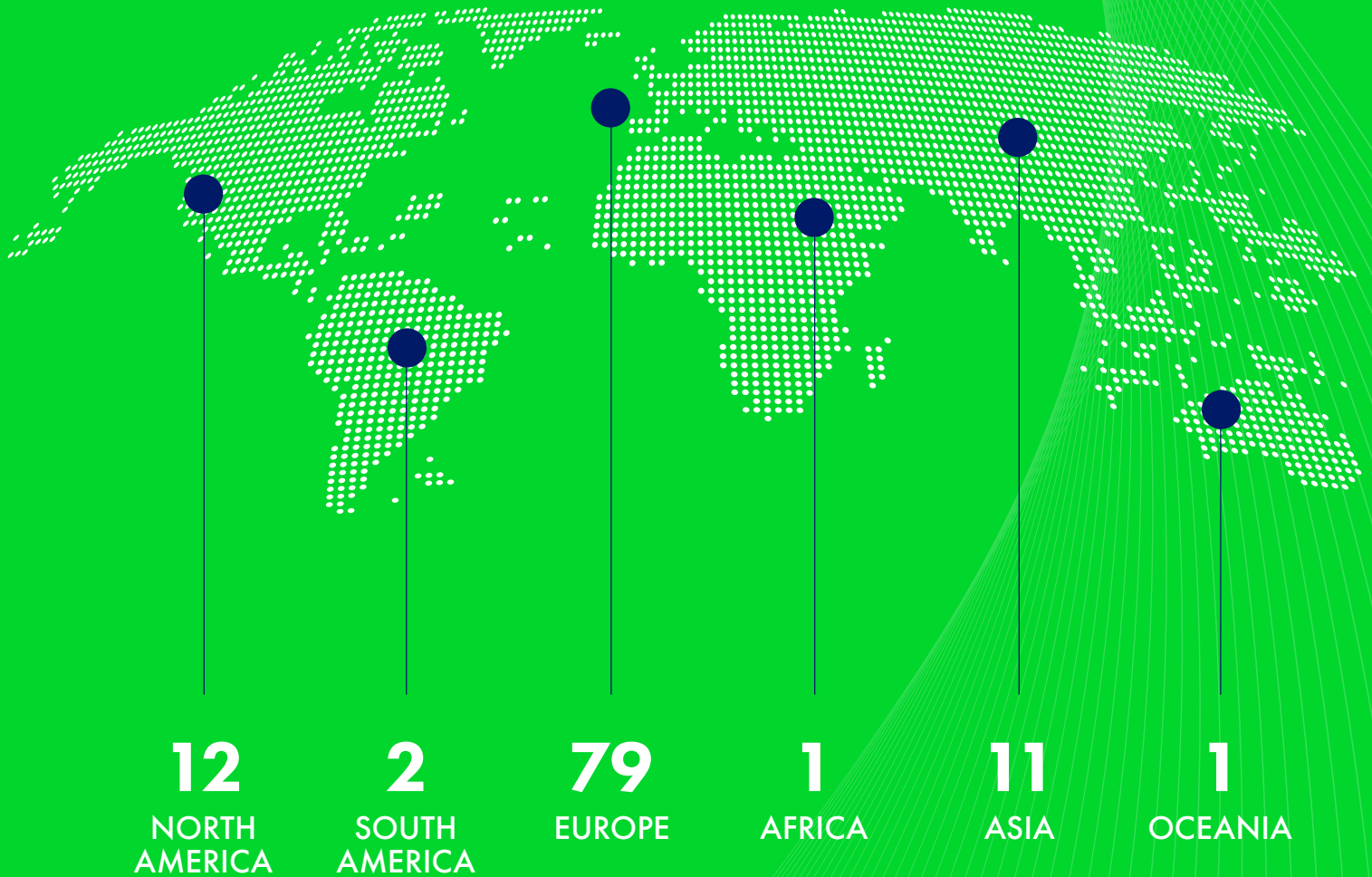
The top of the leaderboard is consistent with last year, with the same four championships rounding out the top four in the same order. These industry leaders continue to pave the way for others with their holistic approach to all aspects of sustainability. Some of the ways in which they set the pace for the industry are by creating quantifiable targets, implementing clear strategies and action plans and being transparent when disclosing action and commitments. These four industry leaders will need to continue to innovate if they hope to maintain their place at the top of the index as the industry shifts towards increased sustainability commitments in the coming years.

**Figure 1:**  
 Of the 106 championships analysed, one falls in the highest sustainability category and 58 fall in the lowest tier, an improvement versus last year's ranking, which saw 72 championships in the bottom tier.



# GEOGRAPHIC DISTRIBUTION

OF CHAMPIONSHIPS BASED ON  
THE LOCATION OF HEADQUARTERS



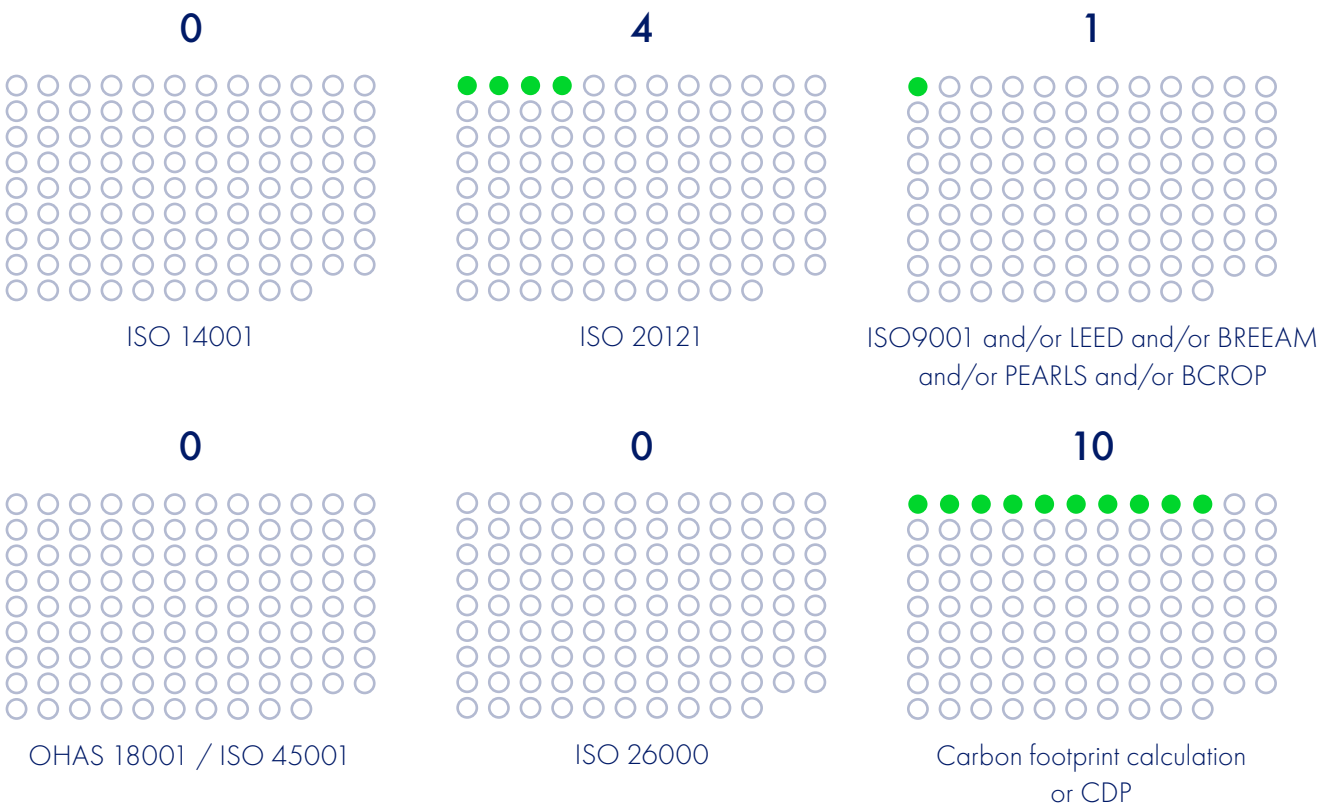
## CERTIFICATIONS

Certifications play a vital role in the sustainability journey of any motorsport competition. As in any sector, they remain an internationally recognised and standardised acknowledgement that actions undertaken by a given championship meet industry sustainability standards.

Findings in this year’s data indicate minor improvement in the number of championships receiving sustainability certifications or calculating their own carbon footprint. Four championships disclosed ISO 20121 this year in recognition of their sustainable event practices. This is up from three the previous year, with the Ferrari Challenge Trofeo Pirelli North America championships gaining its certification in February of 2023. Just as last year, ten championships tracked and measured their carbon footprint using a carbon calculator or disclosed their environmental footprint through the Carbon Disclosure Project (CDP). Of those ten, six completed and disclosed full carbon emissions calculations, while four did partial calculations.

With a multitude of sustainability certifications available - including ISO 26000, LEED, ISO 14001, ISO20121 and OHSAS 18001 - for those seeking recognition of their sustainability actions, certifications remain an area for potential improvement for the motorsport industry.

**Figure 2:**  
A total of four out of all championships reviewed earned ISO certifications (compared to three last year) and 10 championships disclosed information about tracking and measuring their carbon emissions activity (versus five in the previous iteration).



## ACCREDITATIONS AND AWARDS

Awards and accreditations act as another measurement of an organisation’s sustainable performance. Like previous editions of this index, this year’s report took into account accreditations and awards given out by the FIA and FIM, as well as other relevant industry awards.

This report’s data shows that 13 championships earned an award, or an accreditation issued by the FIM or FIA, 3 more than in last year’s report. Most notably, the FIA World Rally and Rallycross Championships gained FIA three-Star Accreditation, the highest level of environmental sustainability recognition handed out by four-wheeled motorsport’s governing body. More three-Star Environmental Accreditation can be expected in the coming years as the FIA has made it a requirement for all FIA World Championships starting in 2025, and all FIA sanctioned championships beginning in 2030.

The number of championships that received prizes remain the same for 2023. While it is not a sustainability award, it is worth noting that the FIM Endurance World Championship did achieve B-Corp Certification status this year in recognition of its performance, accountability and transparency. Awards and accreditations remain an area where motorsport championships can achieve greater recognition for their sustainability work.

**Figure 3:**  
A total of 13 championships achieved the FIA Environmental Accreditation or the FIM Environmental Award (2023: 10), and 2 championships overall earned other relevant industry awards in sustainability (2023: three).



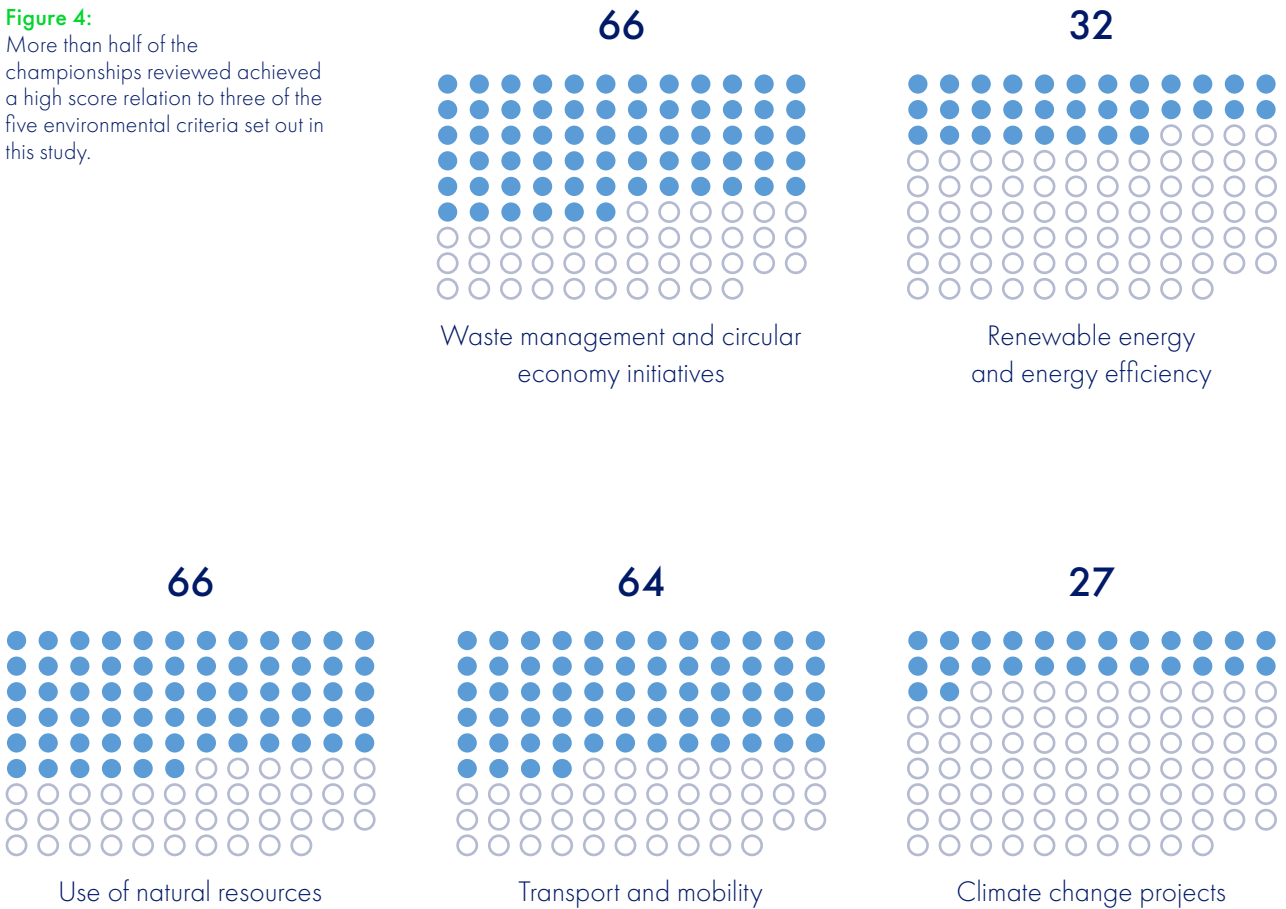


## ENVIRONMENTAL CRITERIA

Five areas of environmental criteria were assessed in this study to better understand each championship’s approach to limiting and mitigating operational environmental impact. The five criteria were: waste management and circular economy, renewable energy and energy efficiency, efficient use of natural resources, transportation and mobility, and climate change projects.

Environmental Criteria is the assessment area in which the majority of the motorsport industry scored well. It is also the area of most improvement in the entire index, reflecting positively on the industry’s commitment to environmental care. Just like last year, waste management (66/106), use of natural resources (66/106) and transport (64/106) were the three criteria in which more than half of the championships scored points for their actions. No ground was made with regards to championship-related climate change projects; however, there was a notable increase - 32 up from 26 - in the number of championships scoring points for renewable energy and energy efficiency actions taken.

**Figure 4:** More than half of the championships reviewed achieved a high score relation to three of the five environmental criteria set out in this study.

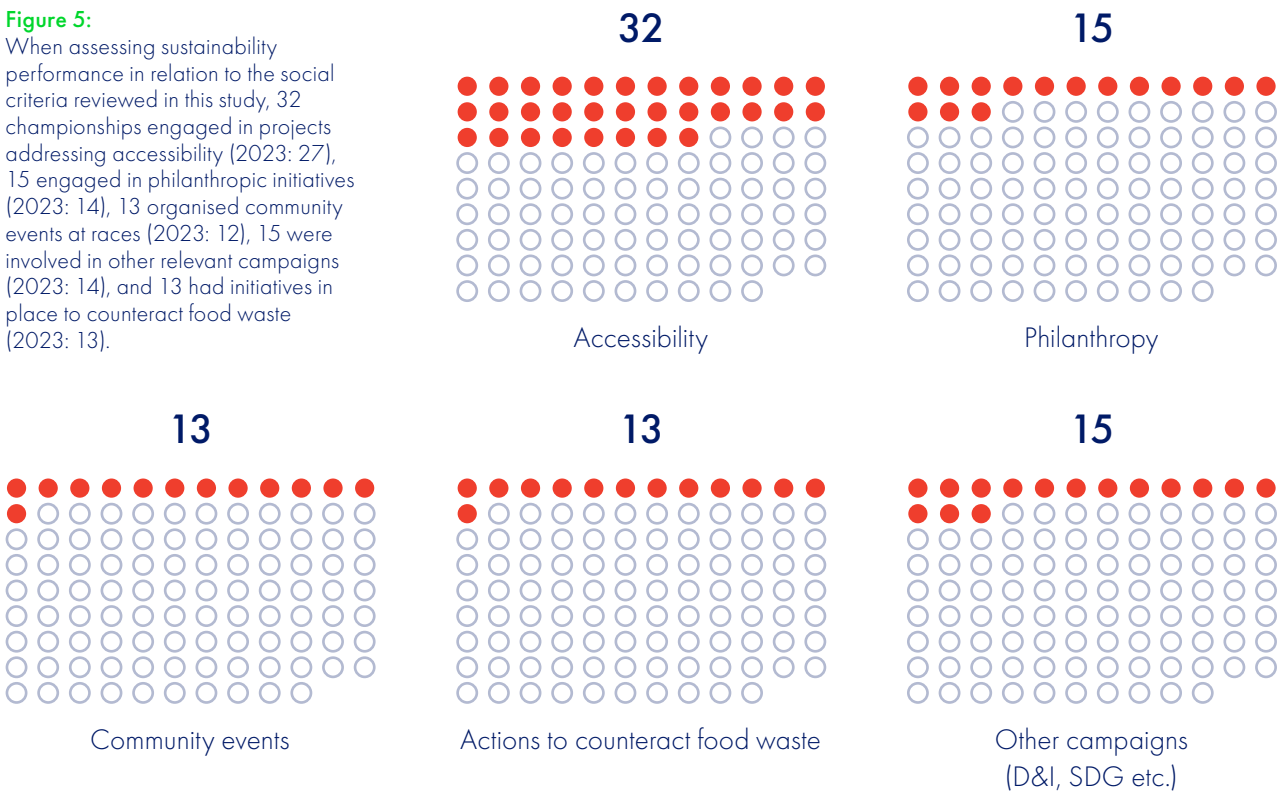


## SOCIAL CRITERIA

Social responsibility and sustainability takes many forms but is centred around community and often requires partnership with local event organisers, community members and even municipalities or schools. This study assessed the performance of the 106 racing championships across five social criteria: accessibility, philanthropy, community events, actions to counteract food waste and other campaigns relating to diversity and inclusion and the United Nations Sustainable Development Goals.

Similar to last year, accessibility of the championship was the criterion where the most championships scored points (31 up from 27). Minor progress was also made in community events and other campaigns, with one more championship engaging with each respective topic compared to last year. Given the findings, it is clear that despite small progress the motorsport industry has yet to fully capitalise on programmes that develop social responsibility and sustainability.

**Figure 5:** When assessing sustainability performance in relation to the social criteria reviewed in this study, 32 championships engaged in projects addressing accessibility (2023: 27), 15 engaged in philanthropic initiatives (2023: 14), 13 organised community events at races (2023: 12), 15 were involved in other relevant campaigns (2023: 14), and 13 had initiatives in place to counteract food waste (2023: 13).



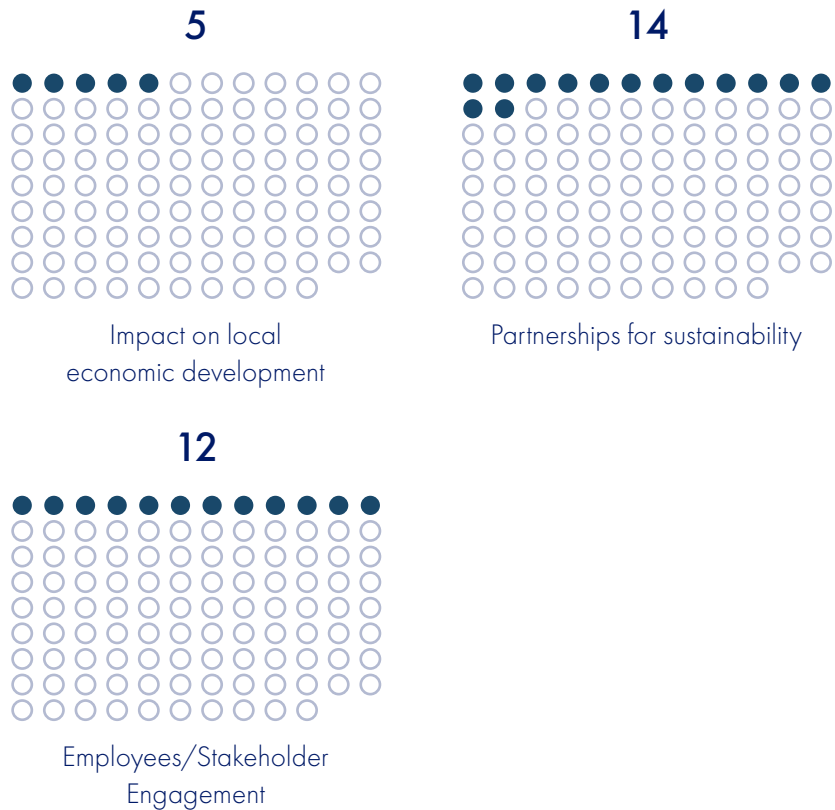
## ENGAGEMENT & PARTNERSHIPS

Motorsport championships have an outsized capacity to deliver positive value to communities at their race locations through engagement and partnerships. To better understand partnerships that are helping accelerate the spread of sustainability in motorsport, each championship was measured against their impact on local economic development, any partnerships for sustainability, and engagement with stakeholders and employees.

Impact on local economic development is the indicator that requires most improvement from the industry, with only five championships measuring and disclosing the value their initiatives create for local communities. Partnerships for sustainability with local communities, charities and other organisations saw the most engagement from the industry, with 14 championships scoring points, compared to 13 last year. In contrast, more work must be done to embed sustainability in championship culture, with just 12 of the 106 championships scoring points for employee and stakeholder engagement.

Overall, motorsport championships showed the least improvement in this assessment area this year and can continue to develop their sustainability initiatives by embedding sustainability into employee culture and by establishing purpose-driven partnerships at race sites.

**Figure 6:** Of the 106 championships assessed, 5 performed well in relation to their impact on local and economic development (seeing no improvement over the previous edition), 14 formed sustainability focused partnerships (compared to 12 in the previous year), and 12 engaged their employees and stakeholders.

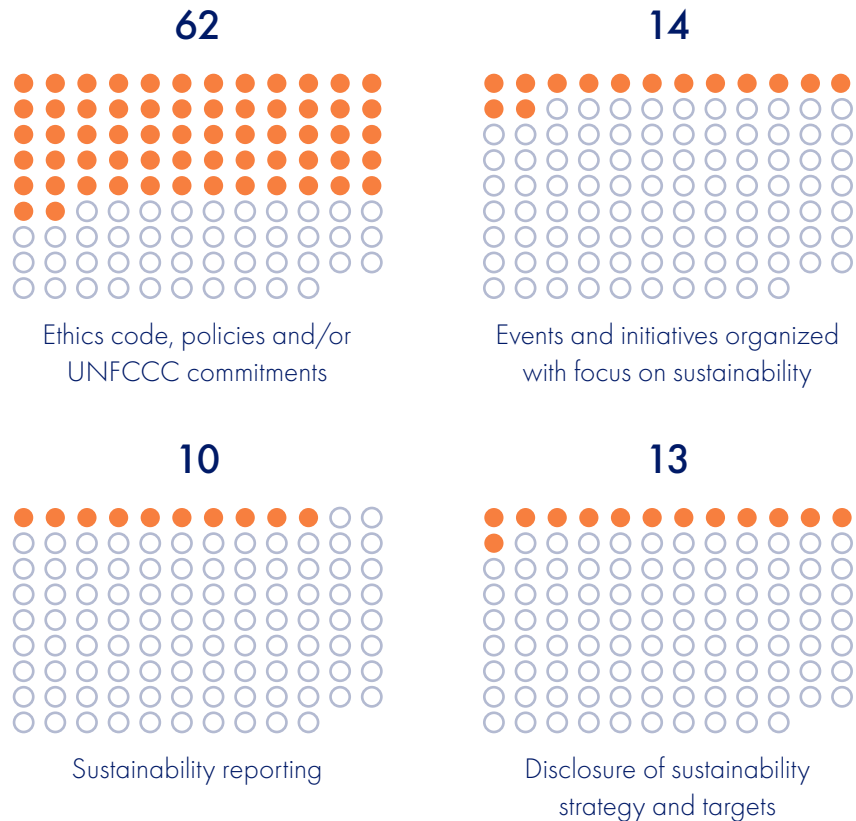


## SUSTAINABILITY APPROACH

Formal sustainability approaches - like publicly disclosed sustainability reports that track ESG progress, commitments to the UNFCCC Sports for Climate Action Framework or Race to Zero, and sustainability strategies and events - remain a powerful tool that allow the wider ecosystem and organisations themselves to maintain transparency and accountability when it comes to their sustainability and impact-driven work.

The SChI™ looked at four key criteria when assessing championships’ sustainability approaches: ethics codes, policies and commitments, sustainability events and initiatives, sustainability reporting and public disclosure of sustainability strategies. The number of championships that scored points for three of the four criteria improved this year, while one remained the same, marking the sector’s continued dedication to sustainability transparency and accountability. Work remains to be done to increase the number of championships reporting their sustainability efforts, but commitment to UNFCCC sustainability frameworks remains strong.

**Figure 7:** More than half of the 106 championships reviewed scored a performance level high enough in relation to their sustainability related policies and/or UNFCCC commitments. 14 championships demonstrated they are engaging in sustainability focused events (2023: 14); 13 had published targets and objectives in the form of a strategy (2023: 13) and 10 transparently reported on their sustainability progress (2023: 8).



## A LOOK AT TODAY'S LEADING SUSTAINABLE CHAMPIONSHIPS

A full review of the 106 championships assessed this year shows the same four leaders as last year: ABB FIA Formula E World Championship, FIA Formula One World Championship, Extreme E and the FIM World Championship Grand Prix. The order of finish was the same as last year's as well, although Formula One improved its point total. These championships are clear leaders in the race for sustainability in motorsport, but still have room for improvement around certifications, as well as stakeholder engagement and sustainability partnerships.

The strong showing of these four is in part due to a common focus on transparency and disclosure, which facilitates the sharing of best practices with other motorsport championships. In addition, Formula One and even more so ABB FIA Formula E World Championship stood ahead of the rest due to their holistic approach to sustainability.

Below, we look at the top four performers in the Championship in greater detail. This is followed by a glimpse into the journey of those championships that deserve recognition for specific elements in their approach to sustainability.

**Figure 8:**  
Profiles of today's sustainability leaders' performance in the various dimensions measured across the 25 indicators.



## TOP PERFORMERS



### ABB FIA FORMULA E WORLD CHAMPIONSHIP (85/100)

For the third year running, Formula E - the first net zero carbon certified sport - impressively placed first on the SChI™'s leaderboard. It is the only championship to receive a high (four cup) ranking in the SChI™ and remains the benchmark for sustainability amongst motorsport championships.

This championship earned top honours in the 2024 Sustainable Championship's Index™ the same way it has in previous editions, by utilising its platform in motorsports to highlight sustainability with several key approaches: tangible emissions reductions, a comprehensive sustainability strategy and transparent sustainability reporting, excellent engagement with local communities and host cities to limit the environmental impact of hosting races, and strong environmental accreditations.

Highlights of Formula E's extensive approach to sustainability and ESG include: it's long-standing partnership with UNEP on the #BeatAirPollution campaign which raises awareness and empowers stakeholders to combat the negative impacts of air pollution, and the 2022 London E-Prix showcased the inaugural "Change. Accelerated. Live" summit, where experts from across the board discussed how to leverage motorsport's unique position as a pioneer of sustainable innovation. Formula E hosted a forum at Austin's South by Southwest® festival. In addition, through UNICEF's Safe and Healthy Environment Fund, the championship helps fund climate change education, and rainwater capture and purification systems that have positively impacted over 1.8 million children. For its efforts the championship was nominated for the BBC Green Sport Award E-mobility development and a reduction in emissions remain at the core of Formula E's purpose. This sentiment was reinforced at the recent COP28 summit, when Formula E Vice President, Sustainability Julia Pallé stated; "The days of thinking sustainability will limit us are over."

This season Formula E will look to promote greater inclusion through its participation in the FIA Girls on the Track programme which will afford one girl in each host city a role on the race winner's podium. The SChI™'s top-ranked championship could also look to improve its sustainability certifications. At the time of data collection, Formula E held an ISO 20121 certification for event sustainability management.

### HIGHLIGHTS OF THE SUSTAINABILITY PERFORMANCE OF ABB FIA FORMULA E WORLD CHAMPIONSHIP

#### CIRCULAR ECONOMY AND INNOVATION:



Formula E only uses one type of hybrid tyre, and all racing tyres are recycled after use, which can be used as a replacement for fossil fuels or as a material in flooring.

#### EVENTS:



Formula E celebrated 2023 World Environment Day by hosting a beach clean-up in Jakarta with over 300 volunteers from race teams, partners, and Formula E.

#### PARTNERSHIPS:



Through their partnership with UNICEF, Formula E have launched the Safe and Healthy Environment Fund, which since its initiation has supported 3 million children, and provided schools and communities with clean water using solar energy.

## TOP PERFORMERS



### FIA FORMULA ONE WORLD CHAMPIONSHIP (68/100)

Formula One placed second on the SChI™ with a medium-high rank (three cups) for the third year in a row. Despite its historic ties to the fossil fuel industry, it has a strong sustainability performance and is working to achieve ambitious targets set out in its 2019 Sustainability Strategy. It earned a higher score than last year and fell just short of a top tier ranking. With an improvement in certifications and accreditations, the championship has the potential to reach the top performance category in the coming years.

Formula One's best progress was in Stakeholder Engagement and Partnerships, in accord with its goal of holding fully sustainable events by 2025. In partnership with hosting venues, F1 is ensuring the implementation of sustainable measures at Grand Prix events. Of note is that close to 100% of general admission attendees at the 2022 Dutch GP walked or used public transport to attend. Motorsport's historic racing championship scored highest in the Sustainability Approach and Engagement category thanks to its continued improvement in sustainability reporting. This includes carbon footprint disclosure and an ESG Briefing Note noting progress made, targets, and objectives from its public sustainability strategy. Finally, F1 is partnering with Santander, the Spanish financial services company, on the Santander X Global Challenge, a multi-year project to support business innovators in their attempts to improve the automotive industry's sustainability.

### HIGHLIGHTS OF THE SUSTAINABILITY PERFORMANCE OF FIA FORMULA ONE WORLD CHAMPIONSHIP:

#### BIODIVERSITY:



With Sebastian Vettel, specially-created insect hotels were built at the Suzuka circuit as part of the Japanese Grand Prix, to highlight awareness of the importance of insects and biodiversity.

#### SUSTAINABLE TRANSPORT:



F1 used 18 DHL biofuel-powered trucks for European races in the 2023 season, which reduced carbon emissions by an average of 83%, compared to the fuel-driven trucks.

#### WASTE REDUCTION:



As part of their goal to have all event waste re-used, recycled or composted by 2030, F1 put into place many initiatives to reduce waste, such as providing all F1 staff with refillable water bottles, and an increased focus on food recycling at Grand Prix's, e.g. at Silverstone 2021 where over 1.9 tonnes of leftover food was donated to a local foodbank.



## TOP PERFORMERS



### EXTREME E (58/100)



Extreme E's sustainability efforts look much the same as last year, earning it another medium-high ranking, and third place in this year's index. The championship continues to be transparent in its reporting, using a UN-certified third-party provider to offset emissions and claim carbon neutrality. As a signatory of the UNFCCC Sport for Climate Action Framework Extreme E aims for the lowest carbon footprint in all of motorsport, and it continues to disclose its ESG initiatives, and report on Scope one, two and three emissions.

This October the Championship released an updated sustainability report, although it could still implement S.M.A.R.T targets in its sustainability strategy. Importantly for behavioural change, it has taken advantage of the "Count Us In" challenge, inspiring over a 1000 Extreme E fans to make more than 3000 sustainability pledges. And for its environmental efforts, in 2022 the championship was awarded the Environmental Sustainability title at the Sport Industry Awards.



### FIM WORLD CHAMPIONSHIP GRAND PRIX (MOTOGP) (58/100)



Partnering Extreme E in third place again this year, MotoGP has maintained its position thanks in part to its ISO 20121 certification for sustainable event management. Dorna Sports, commercial rights holder, has been improving its transparency via "Racing Together Makes a Difference," disclosing relevant information in its ESG report, outlining its charity activities, and sharing plans to introduce fuels by 2024.

Dorna Sports also disclosed a baseline carbon footprint which should serve as the foundation for more complete carbon reporting moving forward. MotoGP is also taking innovative steps to improve circularity by partnering with search engine Ecosia to aid in reforestation projects that combat climate change.

#### HIGHLIGHTS OF THE SUSTAINABILITY PERFORMANCE OF EXTREME E:

##### EVENTS:



Extreme E delivered the first major motorsports event fully powered by renewable energy, as part of the season 2 finale.

##### CIRCULAR ECONOMY:



Debuted in season 2, the Continental CrossContact Extreme E tyre is comprised of approximately one-third recycled and renewable raw materials, including silica obtained from the ashes of rice husks, a waste product from agriculture.

##### REDUCING PLASTIC WASTE:



The championship have a ban on single use plastic, leading to their 'Bring Your Own Bowl' policy at events, which saved over 32,000 single use plates and utensils in season 1, and saved approximately 75,000 single-use water bottles.

#### HIGHLIGHTS OF THE SUSTAINABILITY PERFORMANCE OF FIM WORLD CHAMPIONSHIP GRAND PRIX (MOTOGP)

##### EVENTS:



As part of the FIM's Ride Green initiative, the KiSS (Keep It Shiny and Sustainable) project takes part at many Grand Prix's, focusing on raising awareness amongst spectators of recycling and waste management, sustainable transport, carbon footprint reduction, and social inclusion, as well as supporting other international initiatives.

##### SUSTAINABLE PARTNERS:



Official tyre supplier Michelin are part of MotoGP's sustainability push, helping to reducing the number of tyre options in races to reduce waste, and aiming for tyres comprising of 100% sustainable material by 2050.

##### INNOVATION AND TECHNOLOGY:



In order to reduce emissions, cost, and improve the work-life balance of employees, they trialled remote production, avoiding the need to transport 70 employees to the circuit, which worked successfully and is being expanded further.

## BIGGEST IMPROVERS

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### NTT INDYCAR SERIES (+8 POINTS)

Indy Car jumped an impressive 47 places this year, climbing from 68th to 21st. Its rise from low to medium-low tier is largely thanks to its improvement over six different categories across three different areas. This includes its new Penske Entertainment Sustainability Report and the announcement that it will use 100% renewably-sourced fuel in its competitions.

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### FERRARI CHALLENGE TROFEO PIRELLI NORTH AMERICA (+8 POINTS)

Ferrari Challenge North America scored its first eight points ever in this year's SChI™, making it one of the biggest movers in the index this year. The main reason for FCNA's movement from 92nd to 38th – from low to medium-low performance tier – is its achievement of ISO 20121 certification for sustainable event organisation, in which it included a sustainability strategy.

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### REPCO SUPERCARS CHAMPIONSHIPS (+5 POINTS)

Australia's Supercars Championship received a five point bump this year which saw it rise from 73rd to joint 38th in the rankings bringing it into the medium-low (1 cup) tier. Part of this point bump comes from the Australian championship's switch from ethanol (in use since 2009 due to a partnership with CSR Ethanol) to the lower emitting E75 Racing Fuel. In 2023, Supercars also released a new environmental mission statement and in 2022 participated in the FIA Girls on the Track program at the Adelaide 500.

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### FIA WORLD RALLY CHAMPIONSHIP (+5 POINTS)

Another medium-low tier performer, World Rally Championship, moved up from 22nd in last year's report to 14th in this year's index. World Rally earned 3-Star Accreditation from the FIA this year – the highest level of environmental recognition given out by the automobile governing body – signalling the championship's increased commitment to environmental sustainability. The championship also values energy efficiency and has implemented common hybrid systems in its cars and uses 100% synthetic or biofuel.

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### FIA WORLD RALLYCROSS CHAMPIONSHIP (+5 POINTS)

Scoring eight points this year, compared to just three the year before, FIA World Rallycross has also crept into medium-low performance ranking (1 cup). The championship prides itself on its use of fully electric and green energy rechargeable vehicles and has signed a contract with Volvo to reduce logistic and transportation emissions. Like World Rally, it also gained 3-Star Accreditation from the FIA in 2023.

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### FIM MINIGP WORLD SERIES (+4 POINTS)

Moving into the medium-low tier (1 cup), from 51st place last year to 25th this year, the FIM MiniGP World Series has raised its performance across three assessment areas: Sustainability Approach, Social Criteria and Environmental Criteria. On the social side, the World Series is actively lowering financial barriers to participation and has a stated mission of increasing female participation. The FIM's foundation also engages in sustainability-related philanthropic work around the world. However, to the championship's detriment, in 2023 larger 190cc engines were introduced despite the fact they consume more fuel and are less efficient.

## CHAMPIONSHIPS TO WATCH

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The overall scores of the following motorsport championships remain relatively low, however, each championship is taking innovative steps on its respective sustainability journey that are worthy of mention. With a continued commitment to inclusivity, energy efficiency and environmental protection, these championships could climb the ranks of the index in the coming years.

### FIM ENDURO WORLD CHAMPIONSHIP (ENDURO GP)

In 2023, Enduro GP maintained its medium-low ranking, rising from 22nd in the rankings to 18th. The off-road two-wheeled championship works closely with local organisers to ensure the course for each event avoids sensitive environmental areas to limit race effects on flora and fauna. Moreover, organisers must submit an action plan that addresses post-event restoration of the site's environment. Additionally, the championship's promoters have begun offsetting carbon emission from races after signing up to the FIM Race for Green.

The championship does not lack commitment to social sustainability either. Percentages of inscription fees are donated to Race for Good, a Portuguese charity promoting inclusivity through sports, and providing access to underprivileged children. Also, this past season Enduro held an educational event during round six in Portugal where it helped promote environmental awareness.

Finally, since 2014, Alex Slavini, FIM Enduro World Champion has been part of FIM's Environmental Ambassadors program. The program seeks to promote sustainable behaviour amongst participants of Enduro GP events.

### FIA WORLD ENDURANCE CHAMPIONSHIP

The World Endurance Championship (WEC) deserves a small mention in this section of the report because it has taken the step of banning tyre warming at all events except for Les Mans. Warming tyres preserves heat in the rubber making them grip the tarmac of the racetrack better. However, tyre warming requires the transportation of additional equipment and increased energy usage making it an unsustainable practice. Banning it is a good first step and might lead to other championships doing the same – notably F1 which has been considering it for a while. At Le Mans, tyre warming will continue but only with the use of 100% sustainable energy and fuel (if generators are used).

Moreover, the FIA World Endurance Championship received FIA 2-Star Accreditation for its sustainability efforts, which include the launch of a new two-pronged Endurance Sustainability Award, which rewards the best social and environmental sustainability initiatives of its teams. Moreover its promoter L'Automobile Club de L'Ouest (ACO) launched a formal CSR strategy.

### FIM E-XPLORER WORLD CUP

As a new entry in this year's Sustainable Championship Index™ FIM E-XPLORER World Cup is the world's first electric off-road motorcycle series. Its fully electric vehicles put the championship at the forefront of energy efficiency. Moreover, in its attempts to be inclusive and make electric motorcycle racing accessible to all, the championship has instated a regulation that all teams will field a male and female rider.

## CHAMPIONSHIPS TO WATCH

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### PORSCHE MOBIL 1 SUPERCUP

The Porsche Mobil 1 Supercup has plenty of room for improvement in the areas of certifications, accreditations, engagements and partnerships, but it has made some good strides to increase inclusivity and establish environmental regulations. In 2022 the championship wrote up a code of conduct, and in 2023 it built on that code with new environmental regulations that ensure no waste or leaks are permitted and encourage sustainable transport and accommodation. These regulations could be strengthened by making them binding for all competing teams, and by increasing their specificity.

The championship has also aimed to improve inclusivity by running a rookie program for new drivers, and by nominating young drivers to compete in its junior championship with a shot at winning a contract with the championship.

### GT4 EUROPEAN SERIES

Scoring in the medium-low performance category (1 cup), the GT4 European Series is showing improved sustainability performance thanks to the strategic sustainability objectives it has set for the coming years. Also worth noting is parent company SRO Motorsports Group's support of the reforestation project in the Walloon region of Belgium. The project focuses on restoring an area of high biological interest. Finally, the championship is taking steps to limit its environmental impact by minimising the use of single use plastics and damaging merchandise.

### INDY NXT (FORMERLY INDY LIGHTS)

Indy NXT moved from the lowest performance tier to the medium-low tier in this year's index thanks to the holistic sustainability report released by partners Penske Entertainment and its participation in Penske's "Race for Equality and Change Initiative." Moreover, Indy Lights used 100% renewably sourced racing fuel in 2023 and began partnering with local charities.

The championship still has room to improve its sustainability efforts, but by partnering with Penske Entertainment, current promoter of NTT IndyCar Series, it has a strategy to improve sustainability year-on-year, including small tweaks like the use of electric pit guns beginning in 2024.

# CONCLUSION

## A CONTINUED JOURNEY TOWARDS A MORE SUSTAINABLE FUTURE

The third edition of the Sustainable Championship Index™ has seen a continued commitment of Motorsport championships to all three pillars of ESG from the motorsport industry. With a grounding in technological innovation and an unrelenting pursuit of excellence, motorsport has the capacity and responsibility to drive unmatched progress in sustainability at a moment of extreme climate uncertainty. Furthermore, motorsport has the potential to influence hundreds of millions of fans, whose actions can help turn the tide in the fight against climate change.

This study aims to harness and report the purpose-driven work being done and sustainability commitments being made by 106 championships of the motorsport industry, thereby sharing industry best practices, and promoting industry-wide collaboration for the sake of people and planet. In its efforts to enhance industry transparency of sustainability credentials, the SChI™ only collects and reports on publicly disclosed information.

Motorsport's sustainability efforts continue to be led by ABB FIA Formula E World Championship, followed closely by FIA Formula One World Championship, FIM World Championship Grand Prix (MotoGP) and Extreme E. The data shows that a holistic approach to sustainability has helped these four championships remain at the top of the index. By establishing targets, reporting on progress and engaging with local stakeholders to promote inclusivity and care for the environment these championships have set themselves apart from the rest. However, this index shows that there are clear signs of progress being made lower down the table, and such progress will only help generate further innovation and better sustainability standards.

Sustainability performance this year increased most with regards to environmental criteria, and the most points added across any area were for renewable energy and energy efficiency. These gains reflect the industry's unwavering support for the environment and its foundation in technological innovation.

It is also refreshing to see two new participating championships - F1 Academy and FIM E-XPLORER World Cup - alongside seven championships scoring points for the first time. Moreover, 10 championships have made the step up from the low performance tier to medium-low and of the 59 championships that remain in the low tier, 26 are one point away from making that same jump. Many of the championships scoring points for the first time have done so thanks to their transparent communication, which improves industry accountability.

The industry however must be wary of any sense of complacency. Only 26 of the 106 championships gained points in this year's index, perhaps hinting to the time that it takes to enact some of the more substantial steps or other obstacles such as lack of funding, resources or capacity. Some of the areas in which the industry can make rapid advancements in its purpose-driven work are certifications, engagement, partnerships and social criteria. By leveraging the power of their fanbases, communities, racing venues and stakeholder networks the championships can quickly expand their sustainability impacts. Moreover, sustainability reporting must become a top priority for the industry, as it not only tracks year-on-year progress and keeps all championships accountable for their actions, but will also become a legal requirement in Europe from the end of 2024.

With the 2023 UN Climate Conference COP28 being seen as one of the last moments to create lasting change that can avert planetary crisis and keep humanity on track for global warming that does not exceed a maximum of 1.5°C above pre-industrial levels, decisive and consistent sustainable action is required across all sectors and in all walks of life.

This action is needed across the leaderboard of this study, and it will continue to be compelled by increased regulation. 2023 saw the introduction of the European Union's CSRD reporting requirements. By 2025 the FIA will require three-Star Environmental Accreditation for all FIA World Championships, and by 2030 the same will be asked of all FIA sanctioned championships. Moreover, from 2026 all FIA championships will be required to be powered by 100% sustainable energies - from advanced, sustainable drop-in fuels to battery and hydrogen technologies.

With the increase of regulation, consistent pressure from the public and fan groups and initiatives such as the Sustainable Motorsport Index™ there is a growing awareness and understanding of the need for accelerated sustainable action across the motorsport industry. As such, there is plenty of reason to believe that with each passing year championships scores in the SChI™ will increase, meaning that sustainability credentials, transparency, commitments and reporting will all improve.

## ABOUT THE AUTHORS



Enovation Consulting exists to accelerate sustainability progress in sport.

A leading FIA environmentally-accredited and B Corp-certified specialist sports and sustainability agency, we work with global sports rights holders and stakeholders to provide a strategic, long-term approach to building value for companies, people, and planet.

We deliver creative, innovative, data-based solutions grounded in robust research, empowering organisations with the knowledge they need to integrate ESG into their business strategies whilst managing risks and enhancing resilience.

The organisation runs two not-for-profit initiatives, the Sustainable Motorsport Index™, of which the SCITM is a part, and the Sustainability in Sport Future Leaders Programme, an initiative offering a dedicated and supportive pathway to a career in sustainability within the sports industry.

**For further information: [e-novationconsulting.com](https://e-novationconsulting.com)**

## ABOUT THE SUSTAINABLE MOTORSPORT INDEX™

*'If you cannot measure it, you cannot improve it.'*

This motto underpins the approach of the Sustainable Motorsport Index™ (SMI™), which assesses and measures the sustainability performance of motorsports stakeholders against the UN SDGs and the global ESG framework.

An industry first, the SMI™ is the only global performance system of its kind, benchmarking and comparing circuits and championships on the basis of publicly disclosed data. The findings within each index identify best practice, giving other key stakeholders the possibility to explore measures they could in turn adopt and implement.

The SMI™ uses carefully calibrated indicators and third-party validation by industry experts to provide a comprehensive and balanced comparison across five pillars: environment, social, governance, sustainability approach and engagement, accreditations, and awards.

Launched late last year during International day of Clean Air and Blue Sky, the SMI™ membership include a number of ESG services to respond to the demands of motorsport businesses as that embark on the road to zero, together with networking opportunities and introduction to trusted sustainable suppliers.

**For more information and to register your interest  
contact [info@sustainablemotorsportindex.com](mailto:info@sustainablemotorsportindex.com)**



## OUR PARTNERS



EPARTRADE (Electronic Performance And Racing Trade) is the Global Platform for the Performance and Racing Industry. The platform connects racing business professionals, all year round and globally: [www.epartrade.com](http://www.epartrade.com)

EPARTRADE features 33,000+ racing businesses, 7,000+ racing products and content, 100's of webinars and podcasts with industry leaders like Michael Andretti, Ross Brawn, Zak Brown, John Force, Chip Ganassi, Tom Kristensen, Justin Marks, Roger Penske, Doug Yates, just to name a few; key industry suppliers and race sanctioning organizations from around the world, including F1, NASCAR, IndyCar, NHRA, WEC, IMSA, FE, WRC, USAC, SCCA, etc.

EPARTRADE is as innovative and fast-paced as the racing market itself.

### Welcome to the FUTURE!



Leveraging the cultural & market influence of sports to promote healthy, sustainable communities where we work, live & play.



- Share Best Practices
- Drive Action
- Harness Power of Sport



#### ANNUAL SUMMIT

For 14 years, the Green Sports Alliance has hosted the largest and most influential gathering for the sports industry to unite around environmental sustainability and social responsibility.

We seek to highlight best practices and offer solutions for enhancing performance and fostering a dialogue with sports stakeholders about environmental stewardship and social justice.

#### RESOURCES

Our resources are built to drive sustainable action in the sports industry. Webinars provide solutions and examples to improve initiatives. Playbooks target specific needs, are comprehensive in scope and exist as a guide. Case Studies feature our members leading by example.

You can contribute to resources by becoming a member and download over 20 resources for free by visiting our website.

#### MEMBERSHIP

The Alliance consists of over 230 members spanning teams, venues, universities, sports leagues, and sustainable solution partners across the globe.

Our membership value lies in accessing leading innovation, impactful storytelling, advisory services, stakeholder engagement, networking, workshops and more. Email [info@greensportsalliance.org](mailto:info@greensportsalliance.org) to explore your options.



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**Paolo Taticchi** is Professor in Strategy and Sustainability & School Deputy Director (MBA, Global Engagement, Executive Education) at UCL School of Management.

Highly active in executive education, Paolo has trained thousands of managers and executives of Fortune Global 500 companies; and is a sought-after speaker regularly invited to give keynote talks at world-class academic, governmental and industry events. Paolo's research on corporate sustainability and performance measurement is internationally recognised. Paolo's latest books include "Corporate Sustainability in Practice", which was published in January 2021, and "Sustainable Transformation Strategy", published in June 2023.

Outside of the academy, Paolo has significant consultancy experience in the fields of strategy, education, and sustainability. He has worked in this capacity for firms of various sizes, and in a range of different industries. Today, he advises (or serves in the advisory board) influential organisations and is one of the scientific advisors of the Ministry of Environment and Energy Security in Italy.

He has received numerous awards for the impact of his work. His projects, quotes and opinions have been featured over 350 times in international media outlets. In the last three years, Paolo was indicated by Italian's leading business daily Sole 24 Ore as the most influential Italian under the age of 40.

[www.paolotaticchi.com](http://www.paolotaticchi.com)

# APPENDICES

## Appendix 1:

List of all surveyed championships and their nationality in alphabetical order

CHAMPIONSHIP NAME	NATIONALITY
FIA African Rally Championship	Africa
FIA NACAM Rally Championship	Americas
Asian Le Mans Series	Asia
FIA Asia-Pacific Rally Championship	Asia
FIA World Rally-Raid Championship	Asia
FIA Middle East Rally Championship	Asia
FIM World Rally-Raid Championship	Asia
FIM Bajas Veterans' Trophy	Asia
FIM Bajas Veterans' Trophy	Asia
FIM Cross-Country Rallies World Championship	Asia
FIM Junior Bajas World Cup	Asia
FIM Women's Bajas World Cup	Asia
Repco Supercars Championship	Australia
FIA Karting World Championship	Europe
Deutsche Tourenwagen Masters (DTM)	Europe
Drift Masters European Championship	Europe
EuroNASCAR 2	Europe
EuroNASCAR Pro	Europe
European Le Mans Series	Europe
Ferrari Challenge Trofeo Pirelli Europe	Europe
FIA ETCR eTouring Car World Cup	Europe
FIA European Autocross Championship	Europe
FIA European Cup for Cross Country Bajas	Europe
FIA European Drag Racing Championship	Europe
FIM European Hill Climb Road Racing Championship	Europe
FIA European Hillclimb Championship	Europe
FIA European Historic Rally Championship	Europe
FIA European Rally Championship	Europe
FIA European Rally Trophy	Europe
FIA European Rallycross Championship	Europe
Goodyear FIA European Truck Racing Championship	Europe
FIA Formula 2 Championship	Europe
FIA Formula 3 Championship	Europe

CHAMPIONSHIP NAME	NATIONALITY
FIA Historic Hill Climb Championship	Europe
FIA International Hill Climb Cup	Europe
FIA Karting European Championship	Europe
FIA Masters Historic Formula One Championship	Europe
FIA Masters Historic Sports Car Championship	Europe
FIA World Endurance Championship	Europe
FIA World Rally Championship	Europe
FIA World Rallycross Championship	Europe
FIA World Touring Car Cup	Europe
FIM Cross-Country Rallies World Championship	Europe
FIM Cross Country Rallies World Cup	Europe
FIM E-Bike Enduro World Cup	Europe
FIM Endurance World Championship	Europe
FIM Enduro Open World Cup	Europe
FIM Enduro World Championship	Europe
FIM European Junior E-Motorcross Series	Europe
FIM E-XPLORER World Cup	Europe
FIM Flat Track World Championship	Europe
FIM Hard Enduro World Championship	Europe
FIM Ice Speedway World Championship	Europe
FIM Junior Enduro World Championship	Europe
FIM Junior Motocross World Championship	Europe
FIM JuniorGP™ World Championship	Europe
FIM Long Track World Championship	Europe
FIM MiniGP World Series	Europe
FIM Motocross World Championship	Europe
FIM Enel MotoE™ World Championship	Europe
Red Bull MotoGP Rookies Cup	Europe
FIM Quads Bajas World Cup	Europe
FIM S1GP SuperMoto World Championship	Europe

CHAMPIONSHIP NAME	NATIONALITY
FIM Sidecar Motocross World Championship	Europe
FIM Sidecar World Championship	Europe
FIM Speedway Grand Prix World Championship	Europe
FIM Speedway of Nations	Europe
FIM Speedway Under 21 World Championship	Europe
FIM Speedway Youth World Championship	Europe
FIM SSV Bajas World Cup	Europe
FIM Superbike World Championship	Europe
FIM SuperEnduro World Championship	Europe
FIM Supersport 300 World Championship	Europe
FIM Trial E-Cup	Europe
FIM Trial2 World Championship	Europe
FIM Women's Enduro World Championship	Europe
FIM Women's Motocross World Championship	Europe
FIM Women's Trial World Championship	Europe
FIM World Championship Grand Prix (MotoGP)	Europe
FIM World Supercross Championship	Europe
FIM X-Trial World Championship	Europe
FIM Youth Enduro World Championship	Europe
Formula Regional European Championship by Alpine	Europe
GT4 European Series	Europe
Hertz FIM Trial World Championship	Europe
Porsche Mobil 1 Supercup	Europe
R-GT Cup	Europe
Women's European Cup	Europe
FIA World Cup for Cross Country Bajas	Europe/Asia
Ferrari Challenge Trofeo Pirelli North America	North America
Formula Regional Americas Championship powered by Honda	North America
IMSA Mazda MX-5 Cup	North America
IMSA Michelin pilot Challenge	North America
IMSA Prototype Challenge	North America

CHAMPIONSHIP NAME	NATIONALITY
IMSA WeatherTech SportsCar Championship	North America
Indy NXT	North America
Intercontinental GT Challenge Powered by Pirelli	North America
NASCAR Camping World Truck Series	North America
NASCAR Cup Series	North America
NASCAR Xfinity Series	North America
NTT Indycar Series	North America
FIA Codasur Rally Championship	South America
Extreme E	United Kingdom
ABB FIA Formula E World Championship	United Kingdom
FIA Formula One World Championship	United Kingdom
F1 Academy	United Kingdom
































## Appendix 2:

SChI™ performance data normalised over the score of the leader












(Order within performance categories is alphabetical and does not represent ranking)

CHAMPIONSHIP NAME	CATEGORY OF PERFORMANCE	
ABB FIA Formula E World Championship		
Extreme E		Corresponds to a LOW SChI™ SCORE
FIA Formula One World Championship		
FIM World Championship Grand Prix (MotoGP)		Corresponds to a MEDIUM - LOW SChI™ SCORE
FIA ETCR eTouring Car World Cup		
FIA European Rally Championship		Corresponds to a MEDIUM SChI™ SCORE
FIA World Touring Car Championship		
NASCAR Cup Series		Corresponds to a MEDIUM - HIGH SChI™ SCORE
NASCAR Xfinity Series		
Ferrari Challenge Trofeo Pirelli Europe		Corresponds to a HIGH SChI™ SCORE
Ferrari Challenge Trofeo Pirelli North America		
FIA World Rally-Raid Championship		
Goodyear FIA European Truck Racing Championship		
FIA World Endurance Championship		
FIA World Rally Championship		
FIA World Rallycross Championship		
FIM World Rally-Raid Championship		
FIM E-Bike Enduro World Cup		
FIM Endurance World Championship		
FIM Enduro World Championship		
FIM European Junior E-Motorcross Series		
FIM Junior Enduro World Championship		
FIM Junior Motocross World Championship		
FIM JuniorGP™ World Championship		
FIM MiniGP World Series		
FIM Motocross World Championship		
FIM Enel MotoE™ World Championship		
Red Bull MotoGP Rookies Cup		
FIM Speedway Grand Prix World Championship		
FIM SSV Bajas World Cup		
FIM Superbike World Championship		
FIM Trial E-Cup		

CHAMPIONSHIP NAME	CATEGORY OF PERFORMANCE
FIM Women's Bajas World Cup	   
FIM Women's Enduro World Championship	   
FIM Women's Motocross World Championship	   
FIM Women's Trial World Championship	   
FIM World Supercross Championship	   
FIM Youth Enduro World Championship	   
GT4 European Series	   
Hertz FIM Trial World Championship	   
IMSA WeatherTech SportsCar Championship	   
Indy NXT	   
Intercontinental GT Challenge Powered by Pirelli	   
NASCAR Camping World Truck Series	   
NTT IndyCar Series	   
Porsche Mobil 1 Supercup	   
Repco Supercars Championship	   
Asian Le Mans Series	   
FIA Karting World Championship	   
Deutsche Tourenwagen Masters (DTM)	   
Drift Masters European Championship	   
EuroNASCAR 2	   
EuroNASCAR PRO	   
European Le Mans Series	   
FIA African Rally Championship	   
FIA Asia-Pacific Rally Championship	   
FIA Codasur Rally Championship	   
FIA European Autocross Championship	   
FIA European Cup for Cross Country Bajas	   
FIA European Drag Racing Championship	   
FIM European Hill Climb Road Racing Championship	   
FIA European Hillclimb Championship	   
FIA European Historic Rally Championship	   

CHAMPIONSHIP NAME	CATEGORY OF PERFORMANCE
FIA European Rally Trophy	
FIA European Rallycross Championship	
FIA Formula 2 Championship	
FIA Formula 3 Championship	
FIA Historic Hill Climb Championship	
FIA International Hill Climb Cup	
FIA Karting European Championship	
FIA Masters Historic Formula One Championship	
FIA Masters Historic Sports Car Championship	
FIA Middle East Rally Championship	
FIA NACAM Rally Championship	
FIA World Cup for Cross Country Bajas	
FIM Bajas Veterans' Trophy	
FIM Bajas World Cup	
FIM Cross-Country Rallies World Championship	
FIM Cross Country Rallies World Cup - SSV	
FIM Cross-Country Rallies World Championship	
FIM Enduro Open World Cup	
FIM E-XPLORER World Cup	
FIM Flat Track World Championship	
FIM Hard Enduro World Championship	
FIM Ice Speedway World Championship	
FIM Junior Bajas World Cup	
FIM Long Track World Championship	
FIM Quads Bajas World Cup	
FIM S1GP SuperMoto World Championship	
FIM Sidecar Motocross World Championship	
FIM Sidecar World Championship	
FIM Speedway of Nations	
FIM Speedway Under 21 World Championship	
FIM SuperEnduro World Championship	



CHAMPIONSHIP NAME	CATEGORY OF PERFORMANCE
FIM Supersport 300 World Championship	
FIM Trial2 World Championship	
FIM X-Trial World Championship	
F1 Academy	
Formula Regional Americas Championship powered by Honda	
Formula Regional European Championship by Alpine	
IMSA Mazda MX-5 Cup	
IMSA Michelin pilot Challenge	
IMSA Prototype Challenge	
R-GT Cup	
Women's European Cup	

### Appendix 3:

List of all surveyed championships with number of rounds/races in 2023 and seasons in operation

CHAMPIONSHIP NAME		NUMBER OF ROUNDS OR RACES	SEASONS IN OPERATION
ABB FIA Formula E World Championship	Races	16	9
Asian Le Mans Series	Races	4	11
FIA Karting World Championship	Races	8	59
Deutsche Tourenwagen Masters (DTM)	Races	16	23
Drift Masters European Championship	Races	6	6
EuroNASCAR 2	Races	12	14
EuroNASCAR Pro	Races	8	14
European Le Mans Series	Races	7	19
Extreme E	Races	5	5
Ferrari Challenge Trofeo Pirelli Europe	Races	7	30
Ferrari Challenge Trofeo Pirelli North America	Races	6	29
FIA African Rally Championship	Races	7	42
FIA Asia-Pacific Rally Championship	Races	7	35
FIA World Rally-Raid Championship	Rounds	12	45
FIA Codasur Rally Championship	Races	13	26
FIA ETCR eTouring Car World Cup	Rounds	5	3
FIA European Autocross Championship	Races	10	46
FIA European Cup for Cross Country Bajas	Races	5	2
FIA European Drag Racing Championship	Rounds	5	26
FIM European Hill Climb Road Racing Championship	Rounds	10	66
FIA European Hillclimb Championship	Races	10	93
FIA European Historic Rally Championship	Races	9	70
FIA European Rally Championship	Races	8	70
FIA European Rally Trophy	Races	18	10
FIA European Rallycross Championship	Races	7	47
Goodyear FIA European Truck Racing Championship	Races	9	38
FIA Formula 2 Championship	Races	14	6
FIA Formula 3 Championship	Races	18	5
FIA Formula One World Championship	Races	22	74
FIA Historic Hill Climb Championship	Rounds	10	93
FIA International Hill Climb Cup	Races	4	23

CHAMPIONSHIP NAME		NUMBER OF ROUNDS OR RACES	SEASONS IN OPERATION
FIA Karting European Championship	Rounds	8	59
FIA Masters Historic Formula One Championship	Races	6	11
FIA Masters Historic Sports Car Championship	Races	7	11
FIA Middle East Rally Championship	Races	5	39
FIA NACAM Rally Championship	Races	6	16
FIA World Cup for Cross Country Bajas	Races	7	21
FIA World Endurance Championship	Races	7	11
FIA World Rally Championship	Races	13	51
FIA World Rallycross Championship	Races	10	10
FIA World Touring Car Cup	Races	9	6
FIM World Rally-Raid Championship	Rounds	12	45
FIM Bajas Veterans' Trophy	Races	7	4
FIM Bajas World Cup	Races	8	12
FIM Cross-Country Rallies World Championship	Rounds	8	23
FIM Cross Country Rallies World Cup - SSV	Rounds	5	20
FIM Cross-Country Rallies World Championship	Rounds	5	23
FIM E-Bike Enduro World Championship	Races	8	33
FIM Endurance World Championship	Races	4	44
FIM Enduro Open World Cup	Races	7	5
FIM E-Bike Enduro World Cup	Rounds	7	34
FIM European Junior E-Motorcross Series	Races	5	3
FIM E-XPLORER World Cup	Rounds	6	1
FIM Flat Track World Championship	Rounds	5	4
FIM Hard Enduro World Championship	Rounds	6	5
FIM Ice Speedway World Championship	Races	3	67
FIM Junior Bajas World Cup	Rounds	7	12
FIM Junior Enduro World Championship	Rounds	7	1
FIM Junior Motocross World Championship	Races	1	19
FIM JuniorGP™ World Championship	Races	7	10
FIM Long Track World Championship	Rounds	7	16

CHAMPIONSHIP NAME		NUMBER OF ROUNDS OR RACES	SEASONS IN OPERATION
FIM MiniGP World Series	Races	5	2
FIM Motocross World Championship	Races	21	66
FIM Enel MotoE™ World Championship	Races	16	1
Red Bull MotoGP Rookies Cup	Races	14	17
FIM Quads Bajas World Cup	Rounds	7	11
FIM S1GP SuperMoto World Championship	Rounds	7	21
FIM Sidecar Motocross World Championship	Races	11	43
FIM Sidecar World Championship	Races	7	74
FIM Speedway Grand Prix World Championship	Races	10	87
FIM Speedway of Nations	Races	10	5
FIM Speedway Under 21 World Championship	Rounds	6	46
FIM Speedway Youth World Championship	Rounds	2	13
FIM SSV Bajas World Cup	Rounds	7	12
FIM Superbike World Championship	Races	13	35
FIM SuperEnduro World Championship	Rounds	7	26
FIM Supersport 300 World Championship	Races	8	7
FIM Trial E-Cup	Races	3	45
FIM Trial World Championship	Races	7	59
FIM Trial2 World Championship	Races	7	6
FIM Women's Bajas World Cup	Rounds	7	2
FIM Women's Enduro World Championship	Rounds	7	13
FIM Women's Motocross World Championship	Races	6	19
FIM Women's Trial World Championship	Races	5	4
FIM World Championship Grand Prix (MotoGP)	Races	21	74
FIM World Supercross Championship	Rounds	6	31
FIM X-Trial World Championship	Races	8	59
FIM Youth Enduro World Championship	Rounds	7	33
Formula1 Academy	Races	7	1
Formula Regional Americas Championship powered by Honda	Races	6	6
Formula Regional European Championship by Alpine	Races	10	5
GT4 European Series	Races	6	16
IMSA Mazda MX-5 Cup	Races	12	20

CHAMPIONSHIP NAME		NUMBER OF ROUNDS OR RACES	SEASONS IN OPERATION
IMSA Michelin pilot Challenge	Races	12	26
IMSA Prototype Challenge	Races	6	17
IMSA WeatherTech SportsCar Championship	Races	12	9
Indy NXT	Races	11	46
Intercontinental GT Challenge Powered by Pirelli	Races	5	8
NASCAR Camping World Truck Series	Races	23	29
NASCAR Cup Series	Races	36	75
NASCAR Xfinity Series	Races	33	42
NTT Indycar Series	Races	18	28
Porsche Mobil 1 Supercup	Races	8	31
Repco Supercars Championship	Rounds	12	63
R-GT Cup	Races	8	9
Women's European Cup	Races	6	3



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