



MOSTRA

REROOT

Sustainability Update & Carbon
Footprint Pre-Assessment 2024

MOSTRA

A festival to nourish the scene

Mostra is a project that comes straight from the heart. An independent, small-format festival of avant-garde and experimental electronic music which emerges as a counterpoint to the macro-festivals and the overcrowded, commercial and rather impersonal offerings of other large events held in Barcelona. We are a festival consciously linking ourselves to the socio-cultural background and artistic fabric of our city.



From music, good things grow.

ReRoot believes passionately in electronic music as a force for good in the world. We believe it can also be a pioneer of positive environmental and social action.

Established as a small non-profit in 2019, we fuse our professional expertise in sustainability, futures and design with our experience and knowledge of the electronic music world.

In partnership with like-minded organisations like Mostra, we enable purposeful conversations and actions to help transform the industry into one that is sustainable, inclusive and equitable.





Mostra's values and sustainability

Mostra is founded on 3 core values:

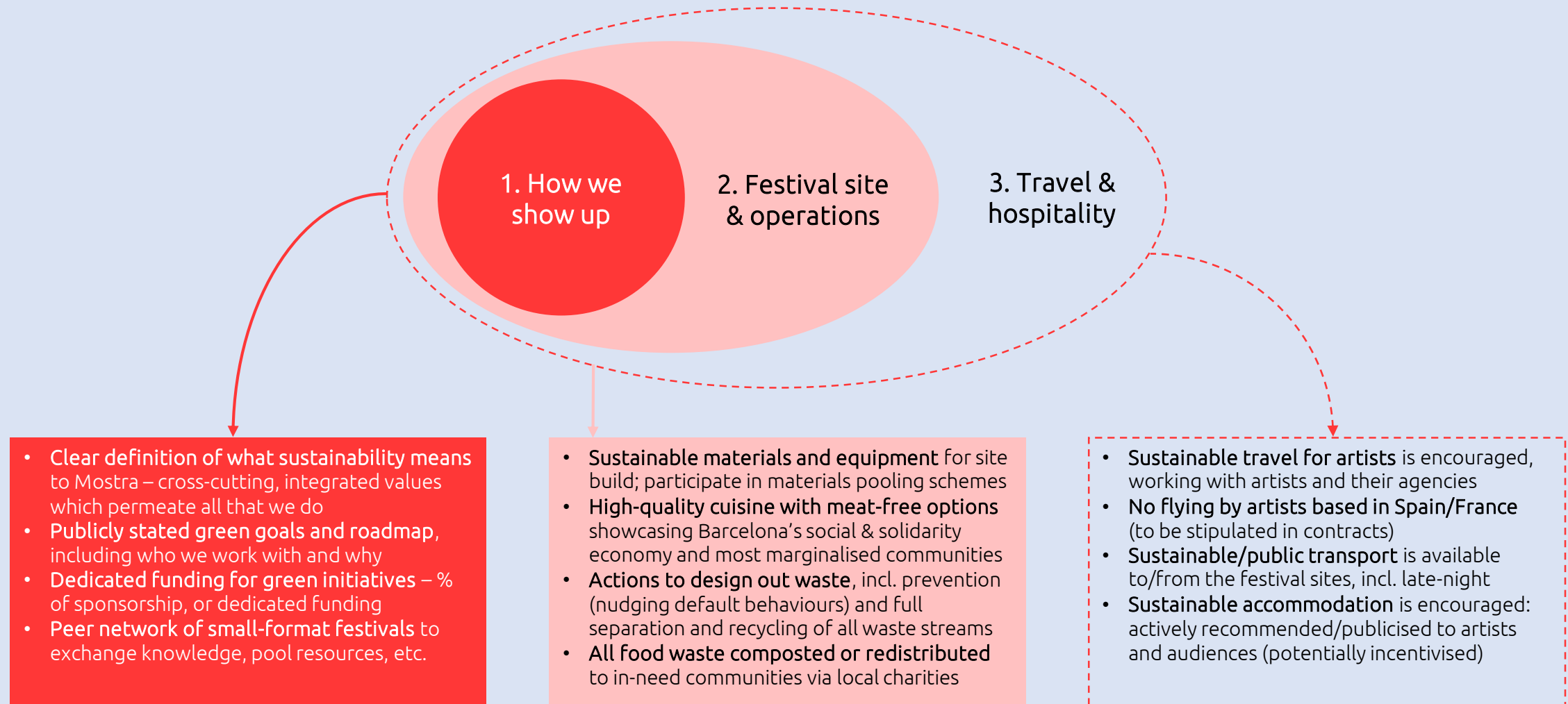
- **Local** – A festival that identifies with Barcelona and is a project for our city aiming to contribute positively to its artistic vibrancy and communities.
- **Inclusive** – A festival that reflects on the realities around us and is committed to bridging the gender gap in a traditionally male-dominated scene.
- **Sustainable** – A festival that works to minimize our direct and indirect environmental footprint and enhance our social impact, particularly with marginalized groups.

For our first edition in 2022, we invited ReRoot to facilitate a workshop at Mostra'm, exploring what these could mean for us in practice. In 2023, we worked together to create a Sustainability Framework, Goals and 3-year Roadmap.

Mostra Sustainability Framework 2024-26



Mostra Sustainability Goals 2024-26



Sustainability Update 2024

As part of our commitment to transparency and accountability, our full Sustainability Framework, Goals and 3-year Roadmap are [published on our website](#).

We also committed to share an annual progress update. Following our 2024 edition in March, the following slides form the first of those updates.

We welcome any questions, feedback or ideas you might like to share with us. Please email us at greenambassador@mostra.barcelona.



Mostra 2024: Progress against our goals this year

1. How we show up

- Created 'Our Values' page on website to communicate all relevant initiatives
- Fleshed out our core values into **guiding principles** for our sustainability work
- 3 workshops with ReRoot to create our **Sustainability Framework, Goals and Roadmap**, published on our website
- Ran **pilot carbon footprint** assessment as basis for reduction in future years (see appendix); used tech to track onsite sales
- Secured 2024 funding to support **green initiatives** from Barcelona City Council including green power and transport
- **Communicated** green initiatives via social media before and during Mostra
- **Connected** with 3 other independent European festivals to test and evolve idea of a peer network for collective action
- **Supported** ReRoot in preparation of funding proposal for peer network

2. Festival site & operations

- **Green energy generator and battery** from Morillo Energy Rent to help power second stage at Castell de Montjuic
- Continued to rent/prioritise **shared use of materials** through entities such as the city's Banc de Recursos Mancomunats
- **Glass bottles returned** to drinks suppliers or glass recycling by bar concessions
- Engaged food vendors to ensure use of **biodegradable cardboard containers** and provision of **vegan/vegetarian meals**
- Continued to platform local **social and solidarity economy** with food vendors [Abarka](#) and [La Raiz](#) – co-operatives from Barcelona's African and Latin American diasporas that actively promote migrant and anti-racist cultural perspectives
- Provided additional **waste separation bins** and labelling in line with recycling systems already in place at Castell de Montjuic

3. Travel & hospitality

- **Purposeful programming** of local (1/3) + other Spanish/overseas artists (2/3) as part of our commitment to nourishing the artistic fabric of our city whilst being mindful of our carbon footprint
- Subsidised **shuttle bus** provided after the end of public transport hours from the Castell back to the city centre, helping to reduce taxi journeys and ensure personal safety (383 tickets sold via Mostra app)
- Alliances developed with **sustainable tourism accommodations** to suit different budgets – Andante Hotel, Casa Jam and Twentytú Hostel – with discounted rates available to the Mostra community

Mostra 2025: Initial priorities for our next edition

Drawing on what we learned in 2024, and with reference to our sustainability goals and 3-year plan, some areas where we will look to build further actions for our 2025 edition include:

1. How we show up

- Secure further **funding/sponsorship** to support our green initiatives in 2025
- **Enhance communications** about what we are doing, who we work with, and why
- Ensure complete data for our first **full carbon footprint** assessment: 2025 as baseline year for future reductions
- **Integrate sustainability** considerations into sign-off process for all key decisions
- Keep striving towards **collective action** and **peer learning** with other independent festivals that share our values

2. Festival site & operations

- Work with food vendors to agree criteria for local, seasonal and **sustainably produced ingredients** and appealing meat-free meals
- Further **spotlight food vendor co-ops** via social media and external communications, to expand audience awareness and support beyond the festival
- Establish **food waste redistribution** and/or composting partnership(s)
- Further strengthen **waste separation and recycling infrastructure** at festival sites

3. Travel & hospitality

- **Engage artists on travel** as part of contract negotiations – encourage travel by high-speed rail where practical
- Explore provision of **rail/travel share subsidy** through funding/sponsorship, or other (non-financial) incentives
- Continue to **encourage sustainable tourism stays**, including with artists
- Continue to ensure safe and sustainable **travel to/from the festival** (e.g. Metro) is accessible from our new venues

The Mostra team will meet again to discuss the progress made and these initial priorities, revisit the 3-year plan, and refine/develop the actions as we move towards our next edition in 2025.

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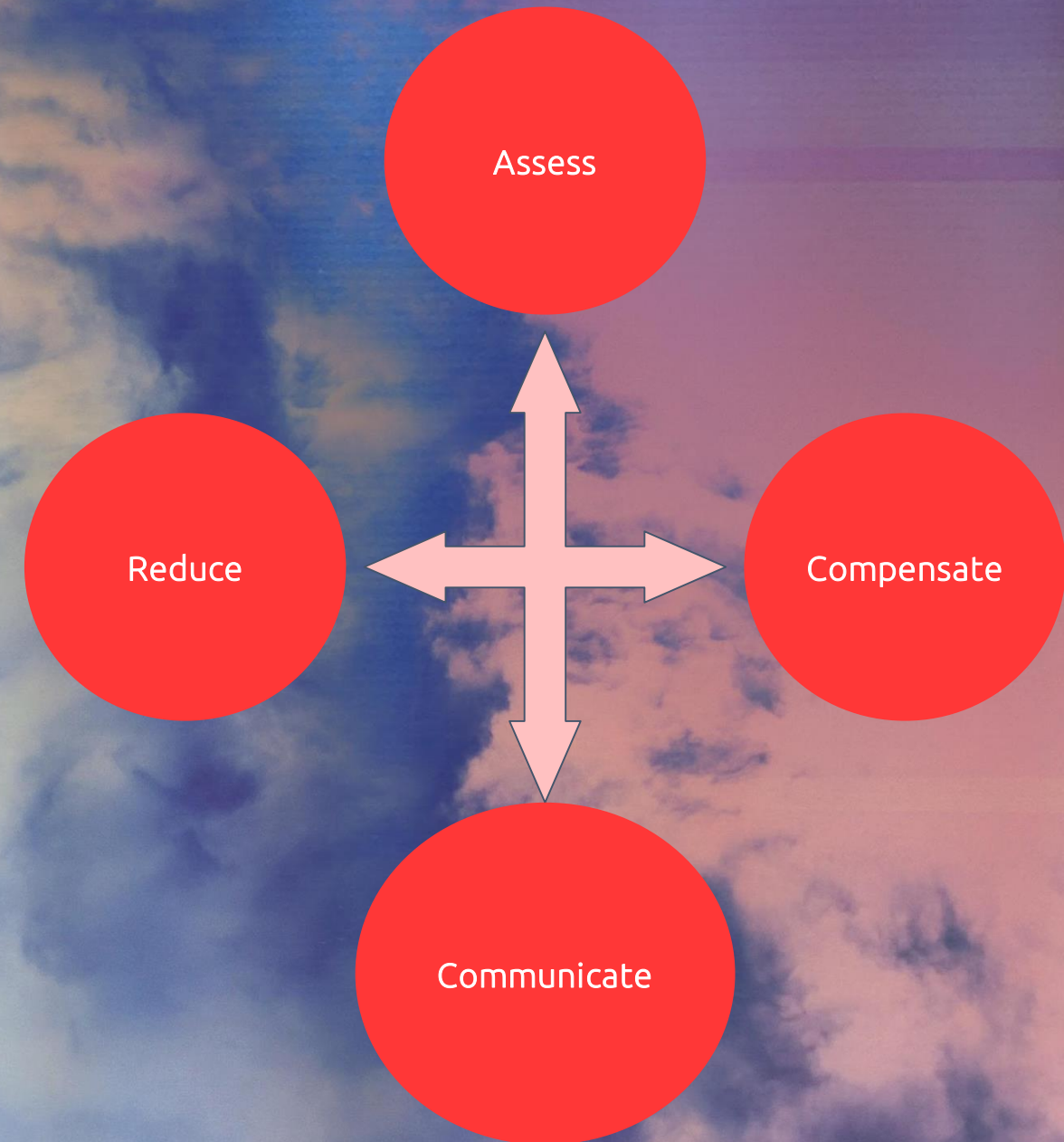
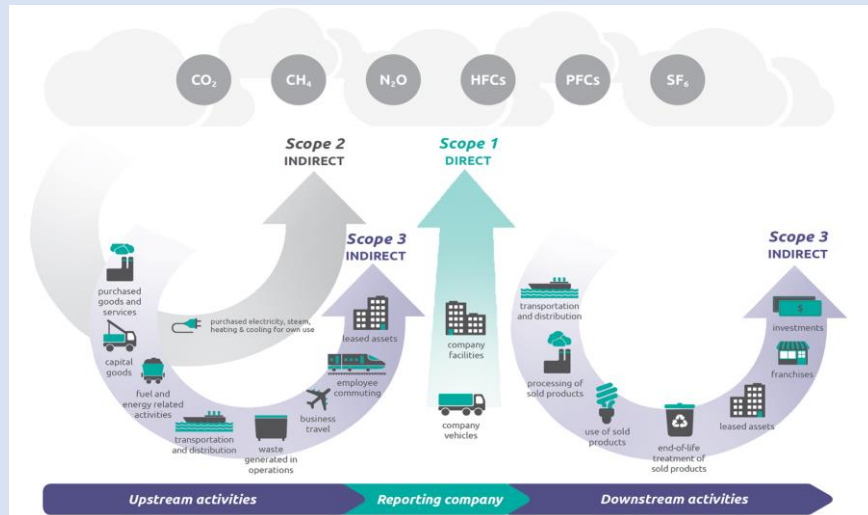
Appendix: Carbon Footprint Pre-Assessment 2024

Why calculate the carbon footprint?

Like any activity that involves significant movement of people, logistics and resources, festivals and events have an impact on the environment.

The carbon footprint is an environmental indicator that represents the total volume of greenhouse gases (GHG) produced by human economic and everyday activities .

Knowing the amount (expressed in tonnes of CO₂ emitted) is important in order to take measures and implement the necessary initiatives to reduce the impact of our activities.



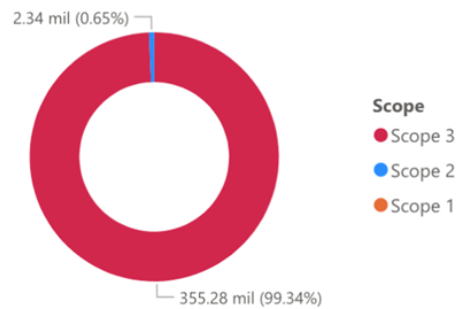
Mostra 2024: Our pilot carbon footprint pre-assessment

Mostra 2024 Carbon Footprint

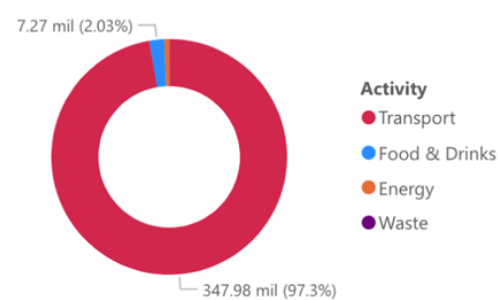
Total emissions in kg of CO2e
357,644.39

1. Transport emissions more than 97% of total:

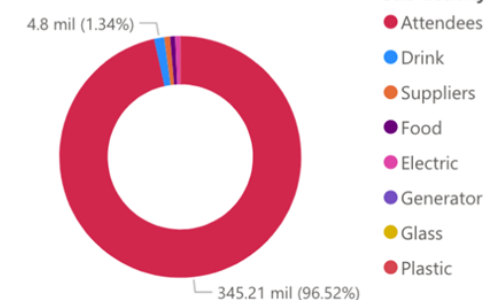
Emissions in kg of CO2e by scope



Emissions in kg of CO2e by activity

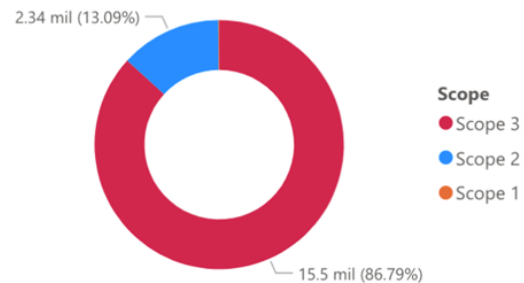


Emissions in kg of CO2e by sub-activity

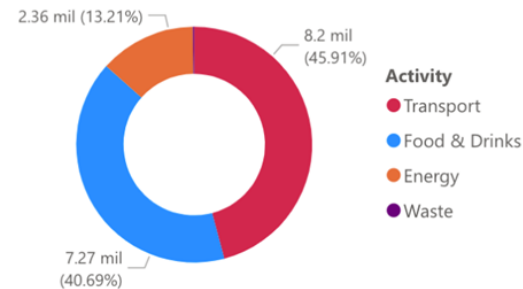


2. If we exclude plane travel of attendees:

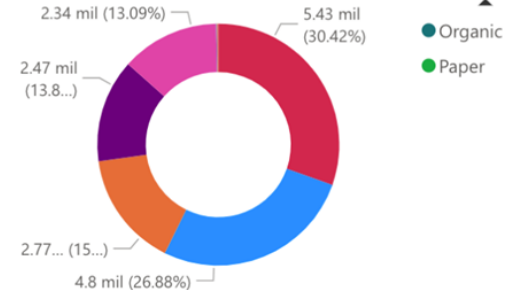
Emissions in kg of CO2e by scope



Emissions in kg of CO2e by activity



Emissions in kg of CO2e by sub-activity



3. Findings and indications for 2025's assessment.

- Excluding the carbon footprint of the estimated air travel of the participants, we had a **carbon footprint** of 17.9 tCO2.
- The **green energy generator** and battery from Morillo Energy Rent saved more than **1ton of CO2 emissions**.
- For more accurate data, we will try to collect **information on the places of origin and means of transport** of all participants in 2025.
- There is an opportunity to better characterise solid waste and energy consumption.
- Changing to **plant-based food** could reduce our footprint by about **700kg of CO2**.
- We are not considering the physical marketing materials, as most will be reused in 2025.

Mostra 2024: Our pilot carbon footprint pre-assessment

Total Footprint	357.644,4	kg.CO2e
Attendees (4 days)	1.958	people
Footprint per Attendee	182,7	kg.CO2e/pp

1. Benchmarking - Other event carbon footprints estimations

- ❖ Madrid Marathon = 199,64 kg.CO2e/pp
- ❖ London Marathon = 220,93 kg.CO2e/pp

2. Calculation, assumptions and limitations

- Energy: The calculation of total energy consumed was based on the energy delivered by the generator for the FOSO Stage, and prorated to the rest of the spaces and uses.
- Waste: The amount of waste was estimated from the amount of food sold and drinks sold.
- Transport: Attendees transport contains an important level of assumptions, considering country of origin and means of transport. For local transport, we considered statistical information for the city of Barcelona

Scope	Type	Sub-Type	Group	SUM de Emissions kgCO2e	%
Scope 1	Energy	Generator	HVO	21,3	0,01%
	Total Energy			21,3	0,01%
Scope 2	Energy	Electric	Grid	2.338,5	0,65%
	Total Energy			2.338,5	0,65%
Scope 3	Food & Drinks	Drink	Beer	3.056,3	0,85%
			Juice	9,0	0,00%
			Soft Drink	274,8	0,08%
			Water	105,8	0,03%
			Wine	1.356,5	0,38%
		Food	Meat	1.420,0	0,40%
			Fish	28,6	0,01%
			Veg	1.018,3	0,28%
	Total Food & Drinks			7.269,3	2,03%
	Transport	Attendees	Plane	340.031,6	95,08%
			Mix Bcn	1.562,8	0,44%
			Train	3.619,3	1,01%
		Suppliers	Truck	2.767,2	0,77%
			Total Transport		
	Waste	Glass	Bottles	14,6	0,00%
			Organic	Cutlery	2,4
		Paper	Organic from food	2,3	0,00%
			Carboard	0,5	0,00%
		Plastic	PET botlles	12,6	0,00%
			PP	2,0	0,00%
					34,5
Total				357.644,4	100,00%

Methodology

This report is a pre-assessment that will help us to accurately calculate the carbon footprint of our 2025 edition, to establish that as our year base. The need for a pre-assessment is mainly due to the high share of air transport in our total emissions estimation, and the need for better data to verify this.

In preparing this report, the guidelines of ISO 14064 part 1 version 2019¹ were followed, with the support of the Greenhouse Gas Protocol².

The emission factors were considered or estimated from national Catalan reports from *Oficina Catalana del Cambi Climàtic*³ and *Àrea Metropolitana de Barcelona*⁴, and the UK government's 2024 update⁵.

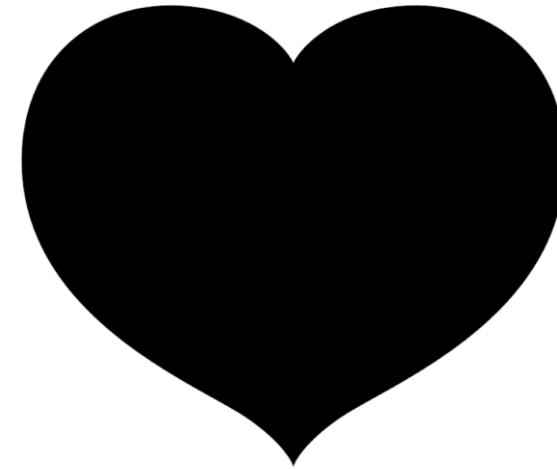
In addition to this, a *Princeton University* study was used to estimate the estimated emissions from food consumption⁶. Totals in tons of CO₂ equivalent (tCO₂e) are considered for the sum of gases included in our GHG emissions⁷.

Sources:

1. [ISO 14064 Part 1 Standard](#) // 2. [GHG Corporate Standard](#) // 3. [Guies per al càlcul d'emissions de GEH](#) // 4. [Informe de la mobilitat i de l'entorn socioeconòmic a l'AMB 2023](#) // 5. [Department for Energy Security and Net Zero](#) // 6. [Princeton Events Emissions Calculator](#) // 7. kg CO₂e of CO₂/CH₄/N₂O per unit activity

CASTELL DE MONTJUÏC / HANGAR

28-31 MARÇ 2024



Climent, Ario, Atom™ & Tobias.,
zu Tiwaline, Bas Dobbelaer,
MARIA., Forest Drive West,
ampos, Javier Marimon & Romi,
ns, Kato De Vidts & J. Noon,
nduku, Konsudd, Lou Drago,
neus, Night Sea, Patrick Russell,
e, Sonic Wave Collective, Sybil,
Handa, Timnah, Toxido Mask,
T.Modet, Vardae



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17-20 Abril 2025, Barcelona



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REROOT

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