CARBON FOOTPRINT – GBTA Brussels 2022

December 2022

Summary

green
événements

1) The carbon footprint of GBTA Brussles 2022

GBTA Brussels 2022

City : Brussels

Location : The Square

Number of participants : 883

Number of days : 3 days

Season : Autumn

GBTA Brussels 2022

Carbon footprint : **699** tons of CO2e (tCO2e)

That is the equivalent of : **80** round-the-world trips in an average European thermal car

Or **225** years of heating for an average European house

Or **306** tons of paper used

Or **331** Paris-NY round-trip flights

Which translates to : **0,79** tCO2e per participant

Calculating the carbon footprint involves making assumptions and manipulating data with approximations.

A result should therefore be taken as an order of magnitude with an uncertainty and not an exact figure.

The more accuracy there is in the data provided, the more accurate the result and the lower the uncertainty will be.
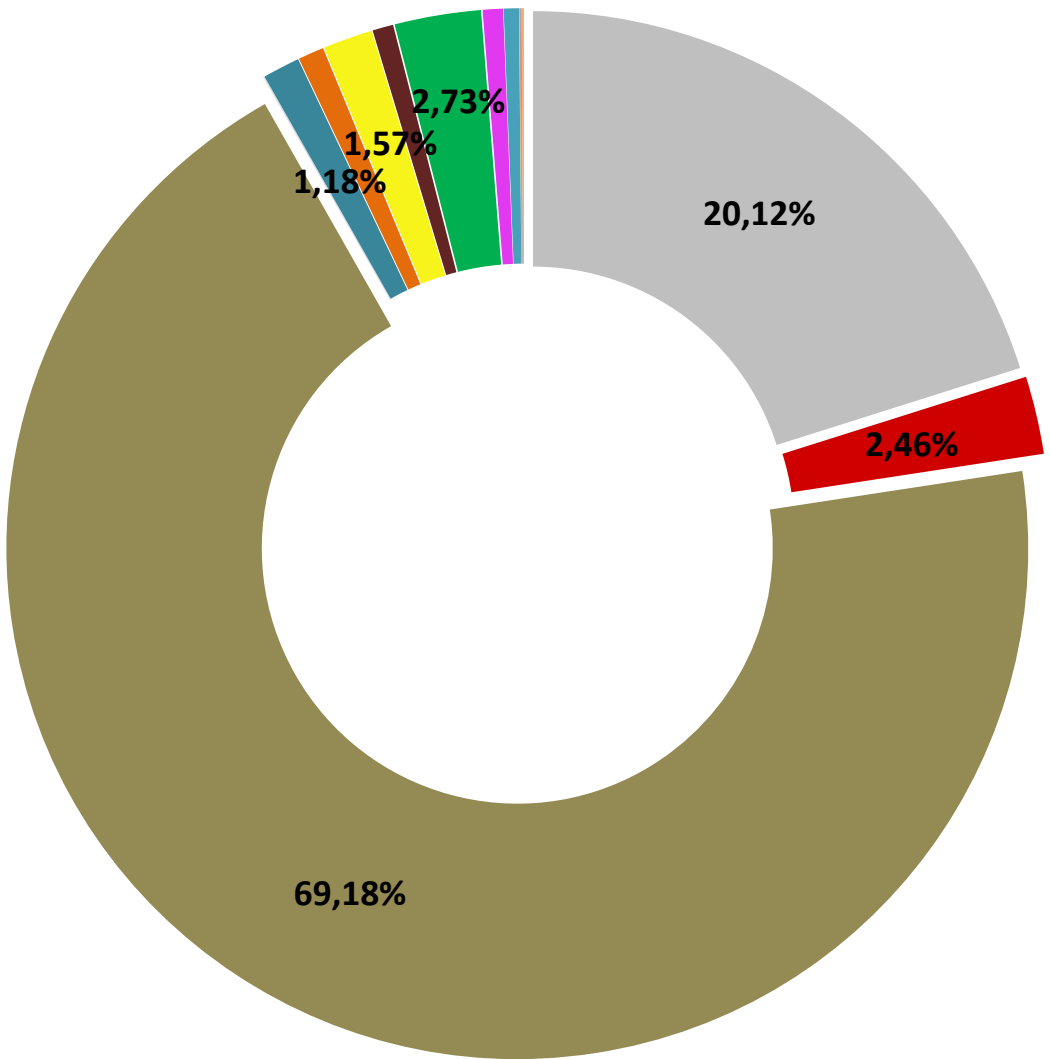
GBTA Brussels 2022 carbon footprint

Carbon footprint of the event - PHYSICAL	Emissions in tCO2e	Impact by source (%)
Dedicated man-days (organisation/set up off and on-site)	140,59	20,12%
Staff transportation (CGF & exhibitors)	17,21	2,46%
Transportation of participants (roundtrip)	483,31	69,18%
Transportation of the participants during the event	0,00	0,00%
Freight (equipment & consumables)	8,24	1,18%
Equipment and stands	5,76	0,82%
Energy (heat, cooling, electricity)	10,98	1,57%
Catering	4,63	0,66%
Accommodation	19,10	2,73%
Goodies	4,45	0,64%
Waste	3,34	0,48%

PHYSICAL - Total :	697,60	tCO2e

Carbon footprint per participant - PHYSICAL	791	kgCO2e/participant

Carbon footprint of the event - DIGITAL	Emissions in tCO2e	Impact by source (%)
Websites	0,100	0,014%
Livestreams	0,200	0,029%
Social networks	0,200	0,029%
Emailing	0,500	0,072%

DIGITAL - Total :	1,00	tCO2e

Carbon footprint per participant - DIGITAL	1,1	kgCO2e/participant

GBTA Brussels 2022 carbon footprint

Distribution of GHG emissions related to the event

- Dedicated man-days (organisation/set up off and on-site) — 20,12%
- Staff transportation (CGF & exhibitors) — 2,46%
- Transportation of participants (roundtrip) — 69,18%
- Transportation of the participants during the event
- Freight (equipment & consumables) — 1,18%
- Equipment and stands
- Energy (heat, cooling, electricity) — 1,57%
- Catering
- Accommodation — 2,73%
- Goodies
- Waste
- Sites web
- Livestreams
- Emailing

Which flows and emission categories should be included in an event's carbon footprint?

1) Responsibility

Integrate the flows for which you are responsible (they are easier to manage)

2) Dependency

Integrate the flows your event depends on (they are harder to manage)

One question to ask yourself : "Is my event unchanged if I remove this flow ?"

GBTA Brussels 2022 – w/o pax transportation and man-days

Carbon footprint : 75 tons of CO2e (tCO2e)

That is the equivalent of : **9 round-the-world trips in an average European thermal car**

Or **24 years of heating for an average European house**

Or **33 tons of paper used**

Or **36 Paris-NY round-trip flights**

Which translates to : 0,085 tCO2e per participant

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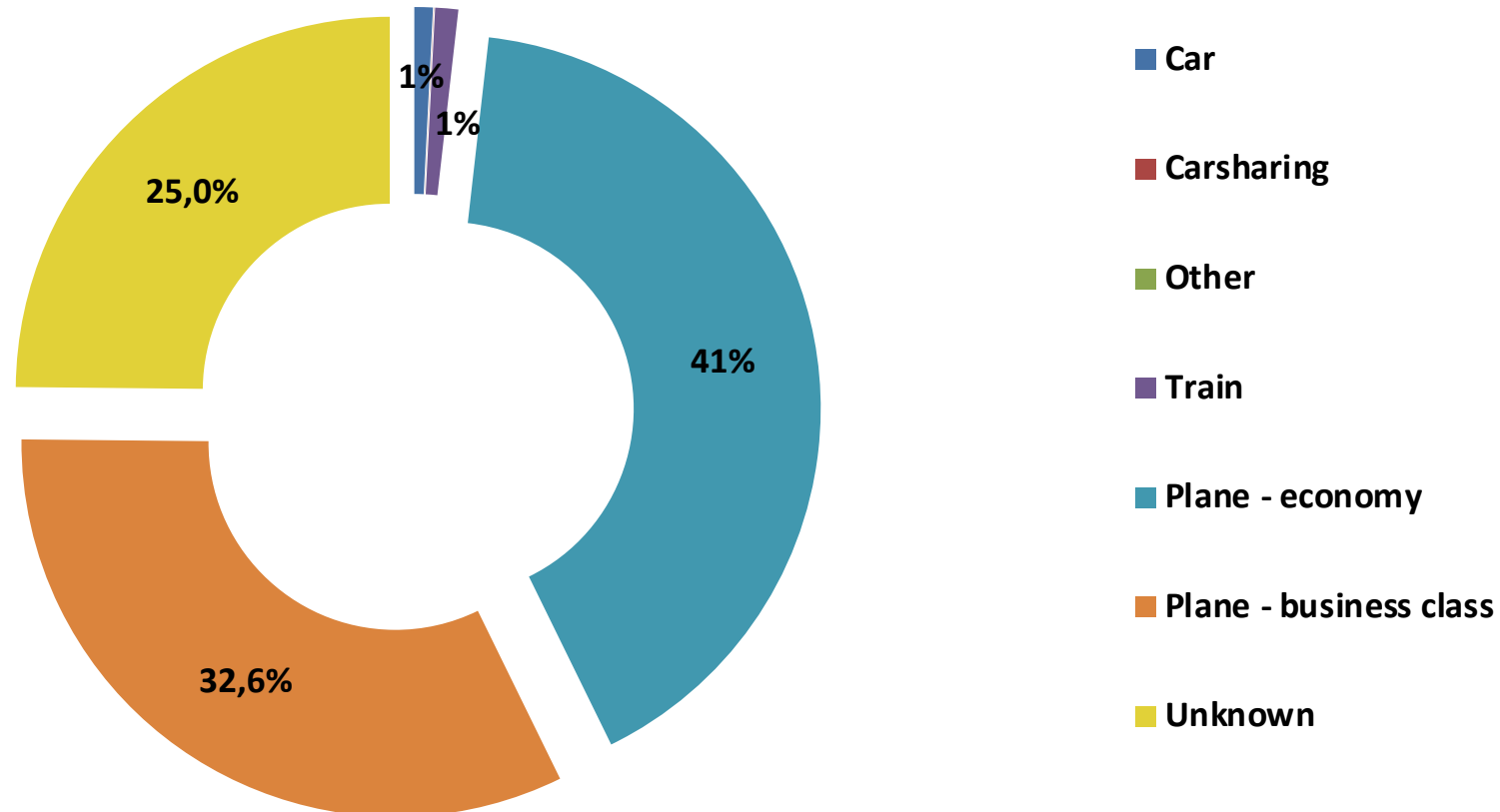
Biggest emission categories (5%+ of total emissions)

1) Transportation of participants (roundtrip)

Transportation of the event participants (roundtrip)	483,3 tCO2e	69,18%

That's 2 417 trips from Lille to Marseille (1000 km) in a small petrol car 🚗

Distribution of emissions

- Car
- Carsharing
- Other
- Train
- Plane - economy
- Plane - business class
- Unknown

1) Transportation of participants (roundtrip)

Distribution of travellers

21% of participants came via train   **2%** came by other sustainable modes of transport

3,5% of participants came alone via car

34% of participants came via plane, approx. 2/7 of which took the business class*

*Hypothesis : conservative allocation of 1/5 of seats as business for short haul flights and 1/2 for long haul flights

39% of participants did not provide data

Distribution of emissions

Mode of transport	Emissions in tCO2e	Impact by source (%)
Car	3,86	0,8%
Carsharing	0,20	0%
Other	0,03	0%
Train	3,53	1%
Plane - economy	199,28	41%
Plane - business class	157,43	32,6%
Unknown	118,98	25,0%
Car	3,86	0,8%
Carsharing	0,20	0%
Transportation of participants - Total :	**483,31tCO2e**	

Dedicated man-days (organisation/set up off and on-site)	**140,59**	*20,12%*

That's 703 trips from Lille to Marseille (1000 km) in a small petrol car 🚗

928 man-days in total

distributed as follows

Design and organisation

800 man-days

Installation & Deinstallation

70 man-days

1 man-day = 89,13 kgCO2e in Europe (average observed in the service industry in Western Euope based on 230 days worked per year)

1 man-day = 236,43 kgCO2e in the USA (average observed in the service industry in the USA based on 230 days worked per year)

Source: CDP 2021 sectoral and regional analysis of companies' CO2e intensity per full time employee or FTE (scope 1&2)

Obtaining your own company's carbon footprint per FTE would make it possible to refine this item and align the reduction of its emissions with that of your company.

Partners