



INTERNATIONALE VEREINIGUNG DER BERGFÜHRERVERBÄNDE
INTERNATIONAL FEDERATION OF MOUNTAIN GUIDES ASSOCIATIONS
UNION INTERNATIONALE DES ASSOCIATIONS DE GUIDES DE MONTAGNE



Environmental and Sustainable Access Committee (ESAC)

Carl Lundberg

President: Swedish Mountain Guides Association (SBO)

Chair: IFMGA Environmental and Sustainable Access Committee (ESAC)

Mountain Guide: Skitouring Scandinavia AB

www.skitouringscandinavia.com





The ESAC Team

ESAC - Environmental and Sustainable Access Committee

One out of five committees in the IFMGA (www.ifmga.info)

Members:

1. Carl Lundberg, Sweden
2. Angela Hawse, USA
3. Mark Charlton, UK/France
4. Leif-Inge Magnusson, Norway




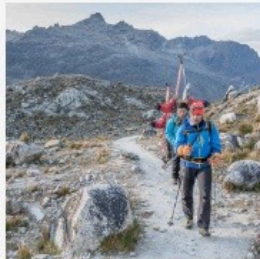

We are hiring!

Welcome on-board

carl@skitouringscandinavia.com

← → ↻ ifmga.info/about-ifmga/committees 🔍 ☆ Verify that it's you

COMMITTEES

- 
Environmental and Sustainable Access (ESAC)
- 
Mobility
- 
Rope Access
- 
Trekking and Expeditions
- 
Canyoning



Program 30 minutes

Carbon Footprint Tracking

1. Why
 - A. Top Down View
 - B. Bottom Up View
2. Who
3. How
4. Examples

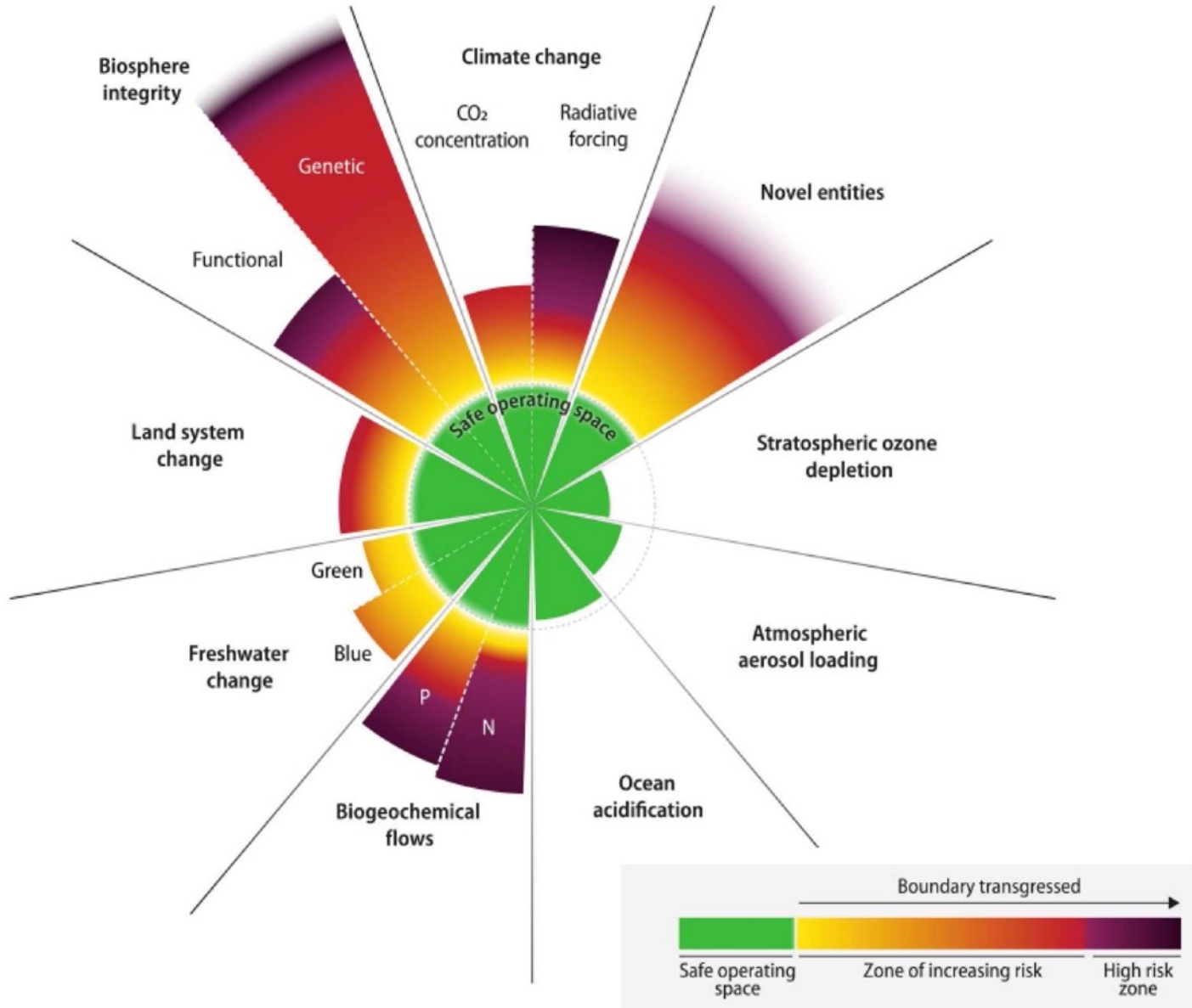
Questions / Discussion





1A. Why do Carbon Tracking? Top Down!

Planetary Boundaries





1A. Why do Carbon Tracking? Top Down!

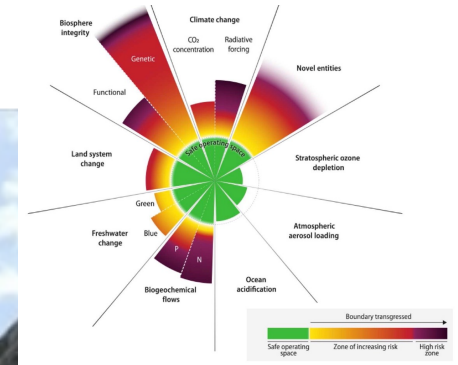
Climate change



BBC.COM

Climate change threatens 'most Alps glaciers'

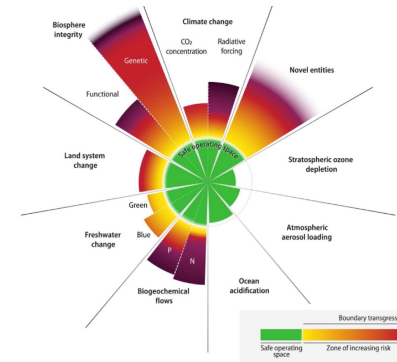
By 2100, 92% of glaciers including popular ski resorts could be l...





1A. Why do Carbon Tracking? Top Down!

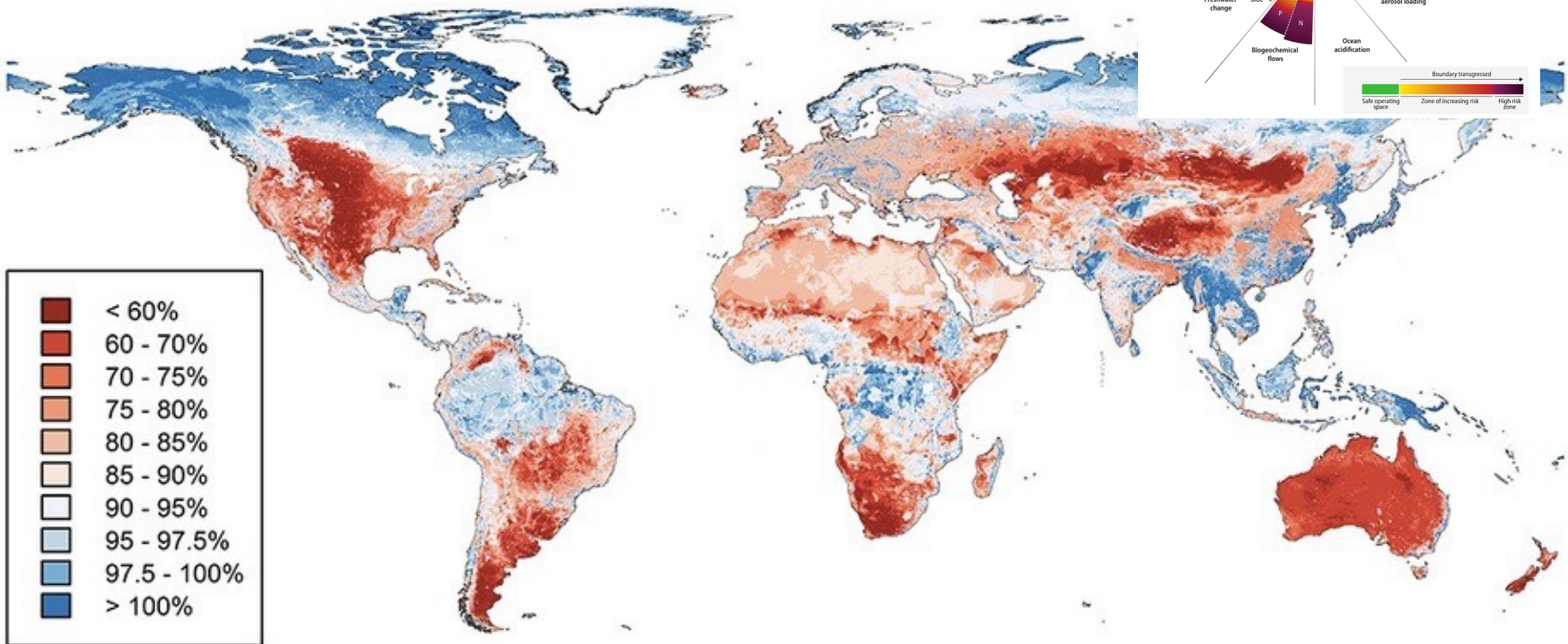
Artificial Fertilisers - Nitrogen, Phosphorus, Potassium





1A. Why do Carbon Tracking? Top Down!

Biodiversity - Loss of Species



Biodiversity is being lost worldwide, but some areas are particularly badly affected. This map shows the remaining populations of indigenous species as a percentage of their original populations. Blue areas are within proposed safe limits, and red areas are beyond.



Carbon Tracking - Why? Bottom Up!

Carbon tracking is suitable first step because:

- Fairly easy to do (for travel)
- Opportunity to create a feeling of progress and success
- Identifies the biggest emissions and thereby the largest area for improvement
- Politically safe, “we are just looking”, includes no commitment to do any thing (yet!)
- Identifies areas with large potential for improvement
- Can act as a wedge to get the topic of sustainability on the table and be a seed for other actions.
- It is up to each individual to decide how to spend their vacation.





Carbon Tracking - Who?

Two ways:

1. **“We do it for you”** - One does it for others

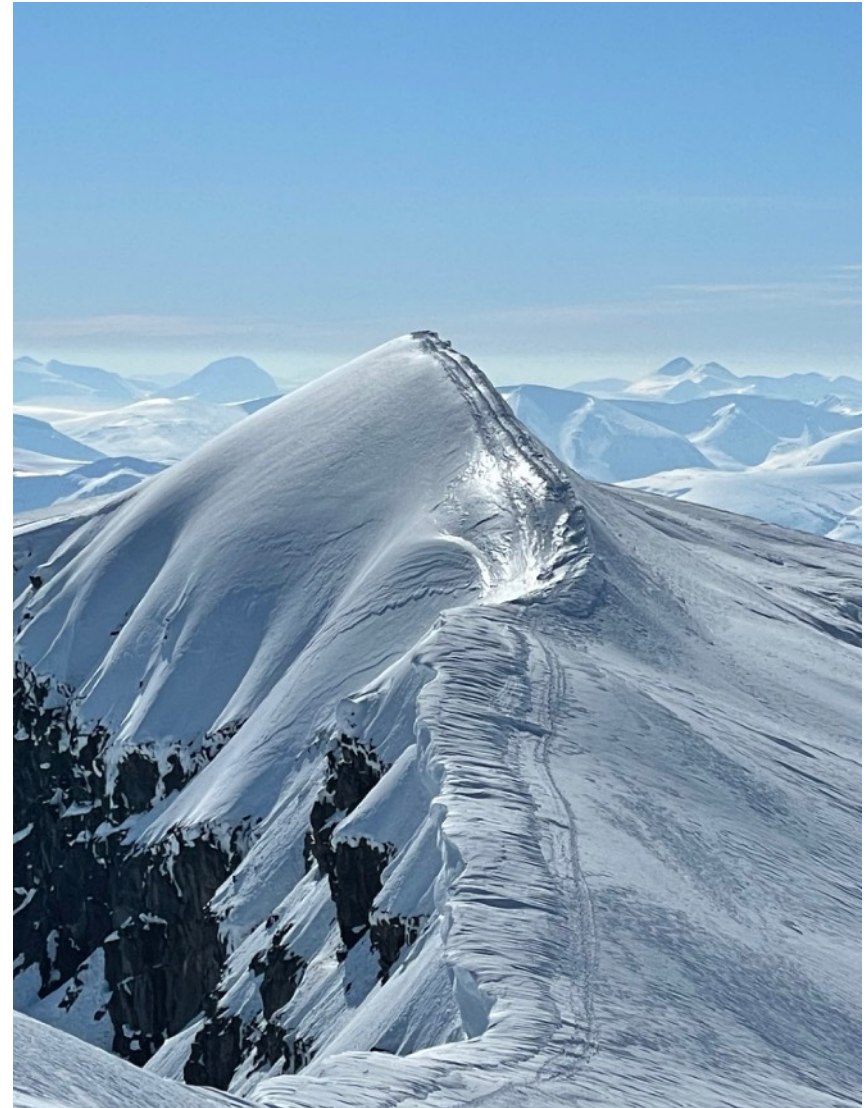
-> This has a very low threshold and even unwilling individuals can be included.

Or

2. **“You do it yourself”** - Everyone in the organisation is asked/forced to do the tracking them self.

-> Calls for more engagement, some might refuse to participate.

- The more involved a person is the more likely the person is to remember and to be able to take further action on ones own.
- The work load is often approximately the same!?





Carbon Tracking - How?

Online tools: <https://travelandclimate.org/>

The screenshot shows a web browser window with the URL <https://travelandclimate.org/>. The page header includes the "TRAVEL & CLIMATE" logo, navigation links for "Methodology" and "About us", and a Swedish flag. Below the header are two main buttons: "Calculate trip impact" and "Tourism & sustainability". The main content area features a scenic mountain background with a calculator interface. The text reads: "2 people going on a return trip from Stockholm, Sweden + to Prague for a 3 nights stay." Below this text is a prominent "CALCULATE" button with a circular arrow icon. At the bottom of the page, there are three small image thumbnails: a highway, a landscape with a power line, and a sky with clouds.

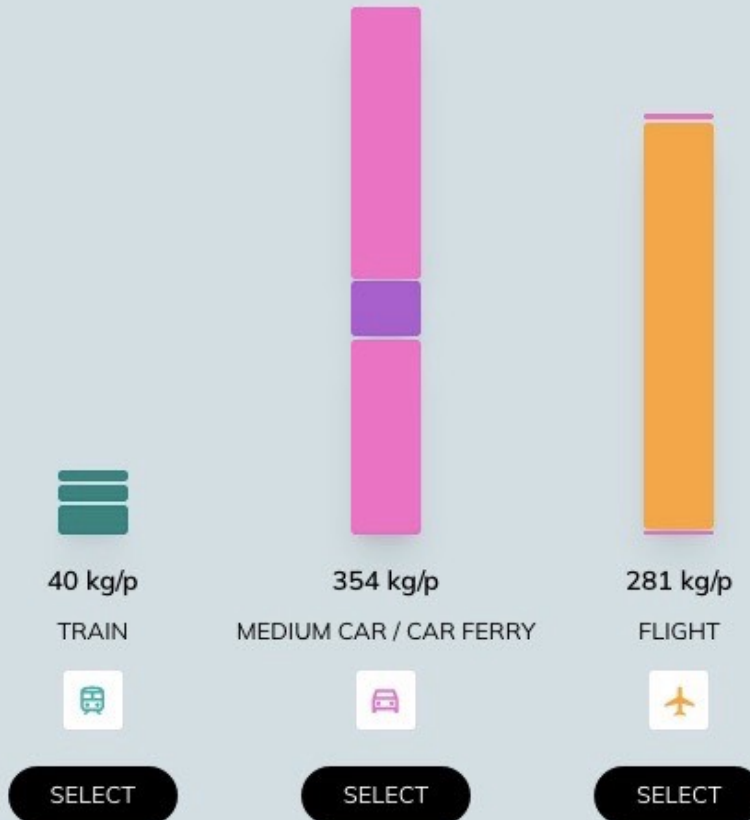


Carbon Tracking - How?

Online tools: <https://travelandclimate.org/>

TRANSPORT

Adjust vehicle types and fuels in the bar segments.











Carbon Tracking - How?

Online tools: <https://travelandclimate.org/>

ACCOMMODATION

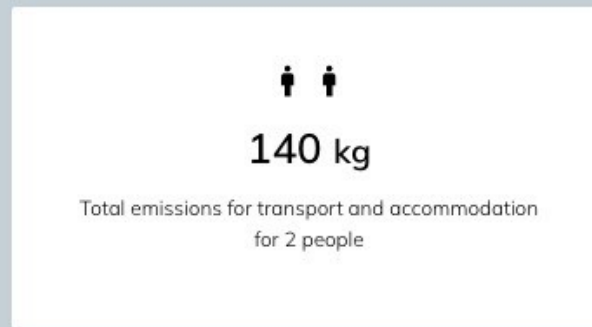
		
0 kg/p	8 kg/p	30 kg/p
CLIMATE NEUTRAL	HOSTEL	HOTEL
		
SELECT	SELECT	SELECT
CUSTOM ACCOMMODATION EMISSIONS		



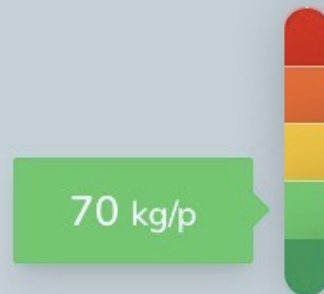
Carbon Tracking - How?

Online tools: <https://travelandclimate.org/>

CLIMATE IMPACT



EMISSIONS PER PERSON



The scale on the thermometer is a comparison between common vacation types.



Carbon Tracking - How?

Online tools: <https://travelandclimate.org/>

COMPARISONS



41%

of an average persons
emissions from flying




3%

of an average swedish car
commute



0.2 m²

ice in the arctic melts

 About our comparisons



Carbon Tracking - How?

<https://travelandclimate.org/>

Available in English

The tool also offer information on activities such as:

- resort based skiing
- heliskiing
- cruise ship travel



Carbon Tracking Example 1

- *We do it* - Internationally (IFMGA): Carbon Footprint calculation of the IFMGA General Assembly in Slovakia 2022. Data collection by Google Forms:
 - https://docs.google.com/forms/d/e/1FAIpQLSeq_7mL85Op7PhPiC_EyA0ERGOdY-Rn0NhLC4lo1CriN_pk_w/viewform?usp=sharing



Results:

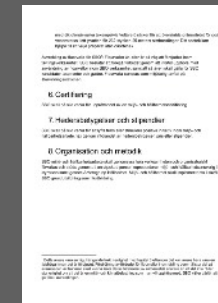
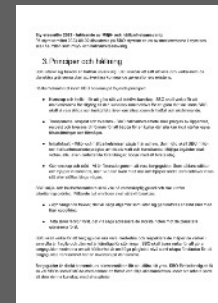
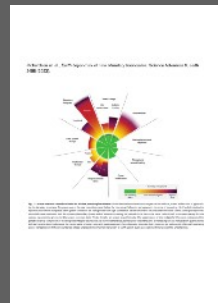
- 30 334 kg CO₂, 7% was for lodging
- Equals thawing 91m² of the antarctic ice-cap



Carbon Tracking Example 2

- *You do it* - Nationally (SBO/Sweden): 2024, Carbon tracking for all activities within the organisation (according to Sustainability Policy 2023).
- Data collection by Google Forms:

<https://docs.google.com/forms/d/e/1FAIpQLSetAy-Z2drQuZq8ZvCyToj2Xv0k2u-pkq6GPVVRHxpTCwwU-rA/viewform?vc=0&c=0&w=1&flr=0>



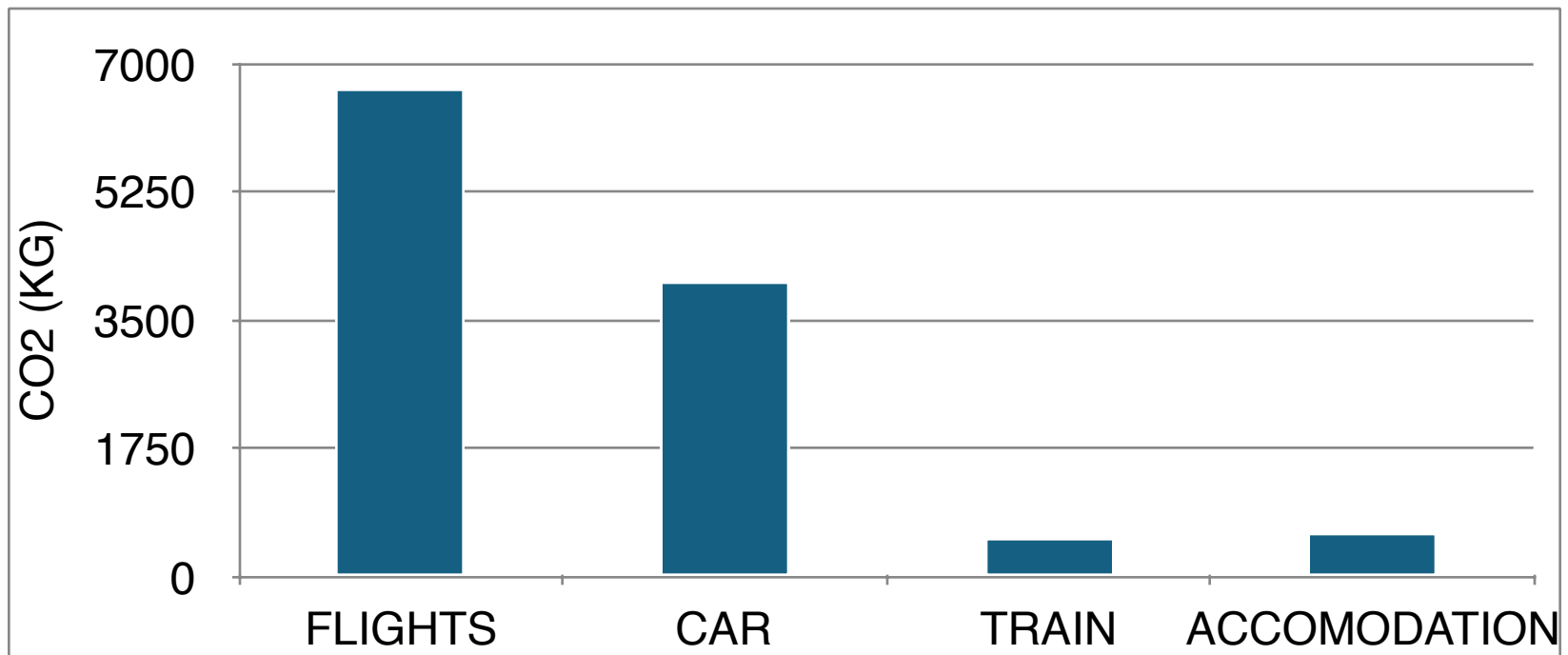
https://drive.google.com/file/d/17iIM-ysSjvOb2dRrkUWNQp-VMx5kHmDk/view?usp=drive_link



Carbon Tracking Example 2

Results:

- In-complete reporting (so far)
- Total value not relevant
- The distribution is the result of interest





Carbon Tracking Example 2

Use the Force!

Invitation to:

Time:

Location:

Days:

Meeting point:

Course coordinator:

Instructors:

Participants:

Course fee: (fyll antagligen i preliminär kostnad samt “fastställ efter”, eller enbart “fastställs efter”

Payment: An invoice will be sent out by Stefan Desai after the course is finished. Note! The price calculation is based on X participants. If the number changes, the price is likely to change.

Carbon Footprint Tracking: As part of SBOs sustainability work all participants, students as well as instructors, are obliged to report the footprint of travel and lodging for all SBO events. This must be completed one week, at the latest, after finishing the event. Fulfilling this is a requirement to pass the course or exam.

Instructions and survey is to be found here:

<https://docs.google.com/forms/d/e/1FAIpQLSetAy-Z2drQuZq8ZvCyToj2Xv0k2u-pkq6GPVrHxpTCwwU-rA/viewform?vc=0&c=0&w=1&flr=0>

Additional costs:

Transportation, accommodation and food



Carbon Tracking Example 4

Home | Impact High Camp | Travel Green | About

Travel green and save money on your trip

Which discount can you give me for being a conscious traveller?

You will get a discount based on how much you can reduce the climate footprint of your flight to where you will meet us, compared to the climate footprint from flying to the destination. If you manage to reduce the climate footprint by 50% or more you will get the maximum discount of 20%.

Start by calculating the estimated impact of your journey by using the calculator below. The calculator will show different travel options, which you can select by the number of the travel modes that you have in mind (for example by choosing the size of the car that you intend to use and if it is an electric car).

Is sustainable tourism possible?

Maybe not all travel is as easy as taking a plane today. But we think that there is much to be learned in the sustainable society of tomorrow.

By using activities and having experiences closer to home, you don't need using transport alternatives that take a lot of fuel to get to the destination. You can still do the things that you enjoy without contributing to a warmer world and a faster climate.

We try to contribute to a more sustainable tourism sector by giving discounts on our products to those that choose to use "greener" transport alternatives.

By the way, did you know that Narvik is the most northern city in the world that is accessible by train? To Sweden and the rest of Europe!

TRAVEL & CLIMATE | [How it works](#) | [About us](#)

Calculate trip impact | Tourism & sustainability

2 people going on a return trip from Stockholm to Narvik for a 4 nights stay.

CALCULATE

Trains, car or plane?
Your choice of transport mode is most important for minimizing climate impact from buildings.

Taxi or luxury hotel?
Your choice of accommodation or your holiday matters also.

Climate footprint of activities
The activities you do at the destination can also have an impact.

Take note of the minimum numbers for the modes of transport that you have chosen, and the default flight information. You can also calculate the discount rate by inserting the numbers into the data fields below.

Travel Green - Discount Rate		Total Summary	
Reasons for your journey	Discount Rate	Name	Total
3	20%	Reasons for Your Travel Plan	€1000
		Reasons for the Default Plan	€1000

<https://galavskiguide.com/travel-green-and-save-money-on-your-trip/>



Final Remarks

- Carbon tracking is a good first step!
- Benefits:
 - A. Know How
 - B. Data/number
- But, being aware of emission does not make them go away!
- Keep Moving!
- Questions and Discussion

Unless someone like you cares a whole awful lot, nothing is going to get better. It's not.

- The Lorax

