## How an individual can make an impact

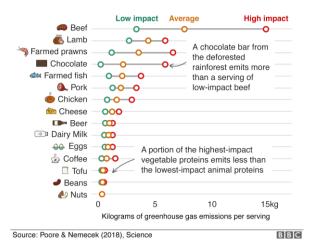
For a sustainable future, people should not cause over 2 tons of CO2 per year. On average, a German produces 11. In order to lower your personal CO2 footprint, it is important to understand how high it is, and what factors go in to it. To do so, I recommend the calculator by WWF:

# https://footprint.wwf.org.uk/#/

The calculator shows that there are four main factors that decide how big a persons carbon footprint is: Diet, travel, housing and consumption. For the average German, diet makes up 15% of their footprint, travel 23%, housing 25% and consumption 25%. In the following, I will analyze each of these aspects for those behaviours with greatest impact on our CO2 footprint.

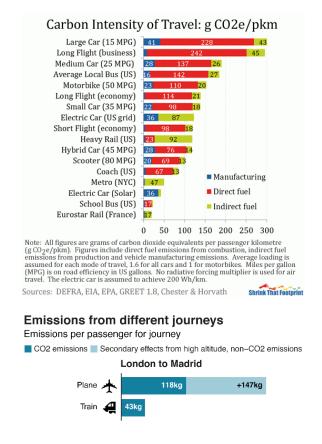
#### Diet

Kilograms of greenhouse gas emissions per serving



- -A meat-free diet is one of the most influential ways an individual can lower their CO2-emissions
- -The emissions of food can vary, depending on how environmental-friendly it was produced
- -It's important to buy food that is in season.
- -> In winter, tomatoes from Spain are better for the environment than tomatoes from Germany, beacause they don't require heated greenhouses.

### **Travel**



- -Travel and transportation is responsible for 23% of a persons CO2-emissions
- -We can not always avoid travel, but we can inform ourselves about the possibilities.
- -In Germany 57% of people use their car daily while only 20% ride their bike every day.
- -When travelling, you should avoid flights, especially short ones, and rather travel by train.
- -Emssions caused by train can vary, depending on the type of train and how its powered.

### Sources:

https://www.theguardian.com/environment/2014/jul/21/giving-up-beef-reduce-carbon-footprint-more-than-cars#maincontent [16.04.2020]

https://www.bbc.com/news/science-environment-46384067 [17.04.2020]

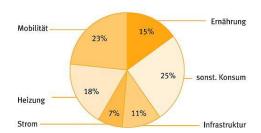
https://www.bbc.com/news/science-environment-49349566 [17.04.2020]

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#### Housing

25% of a persons consumption are caused by their electricity use and heating. In the following are some tips how you can lower your CO2-emissions. They are sorted from sorted from easy to high-effort.

CO2-Pro-Kopf-Emissionen Deutschland:



- -Unplug chargers they still use energy, even if there is no device plugged in
- -Turn down the heat in your house by a little bit

Streaming videos causes 300 million tons of emissions annually

- -Watch shows and movies together instead of alone
- -If you don't want to watch the music video, stream music from apps like Spotify, not from YouTube
- -There are water saving taps or shower heads, which will lower your hot water waste
- -You can buy reflective panels to put behind your radiator. They will keep the heat from escaping through the walls
- -Isolating walls, windows and doors will stop the heat from escaping more effectively
- -Solar panels are a great way to produce green energy at home
- -> The changes with the biggest impact are also the most expensive ones. However, they will also save you the most money in the long run.

## **Consumption**

On average, a quarter of a German's CO2 emissions will be caused by their consumption.

- -A single t-shirt causes 2,3kg of CO2
- -A smartphone causes around 47kg

#### Problem:

-We dont have to face the consequences of our consumption (Germany ships a lot of our waste to poorer countries, droughts and floods have an higher impact on under-developed countries...)

->Out of sight, out of mind

We have to remind ourselves that our consumption hurts our planet and try to limit it!

### **Conclusion:**

My aim was to show that every individual has the power to reduce CO2 emissions. Nevertheless, one individual will not be able to make a significant impact on the environment alone. That can be achieved when a large number of people collectively apply the small measures described above.

### Sources:

https://www.theguardian.com/environment/2010/jun/21/overconsumption-environment-relationships-annie-leonard [18.04.2020]

https://www.youtube.com/watch?v=pY6fAYkscTY [18.04.2020]