

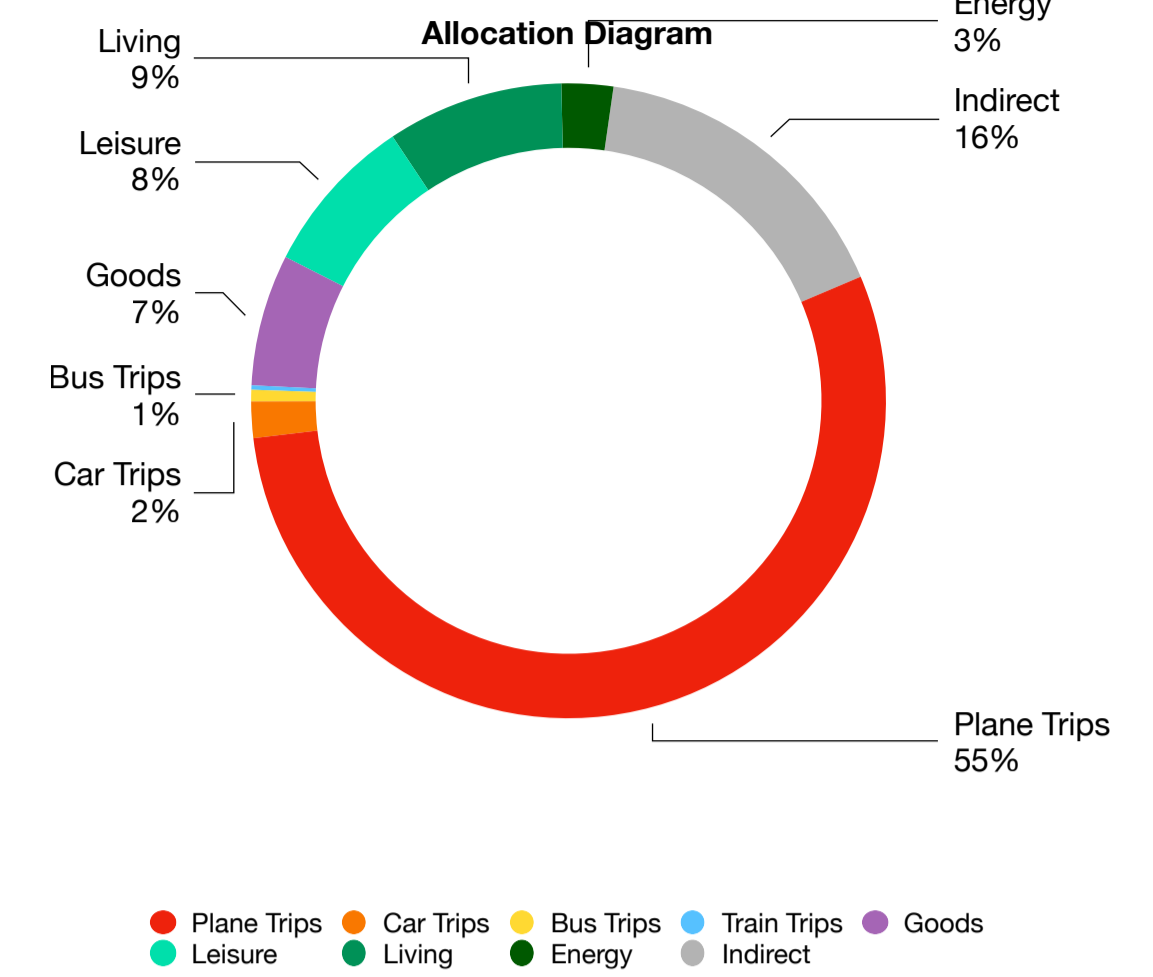
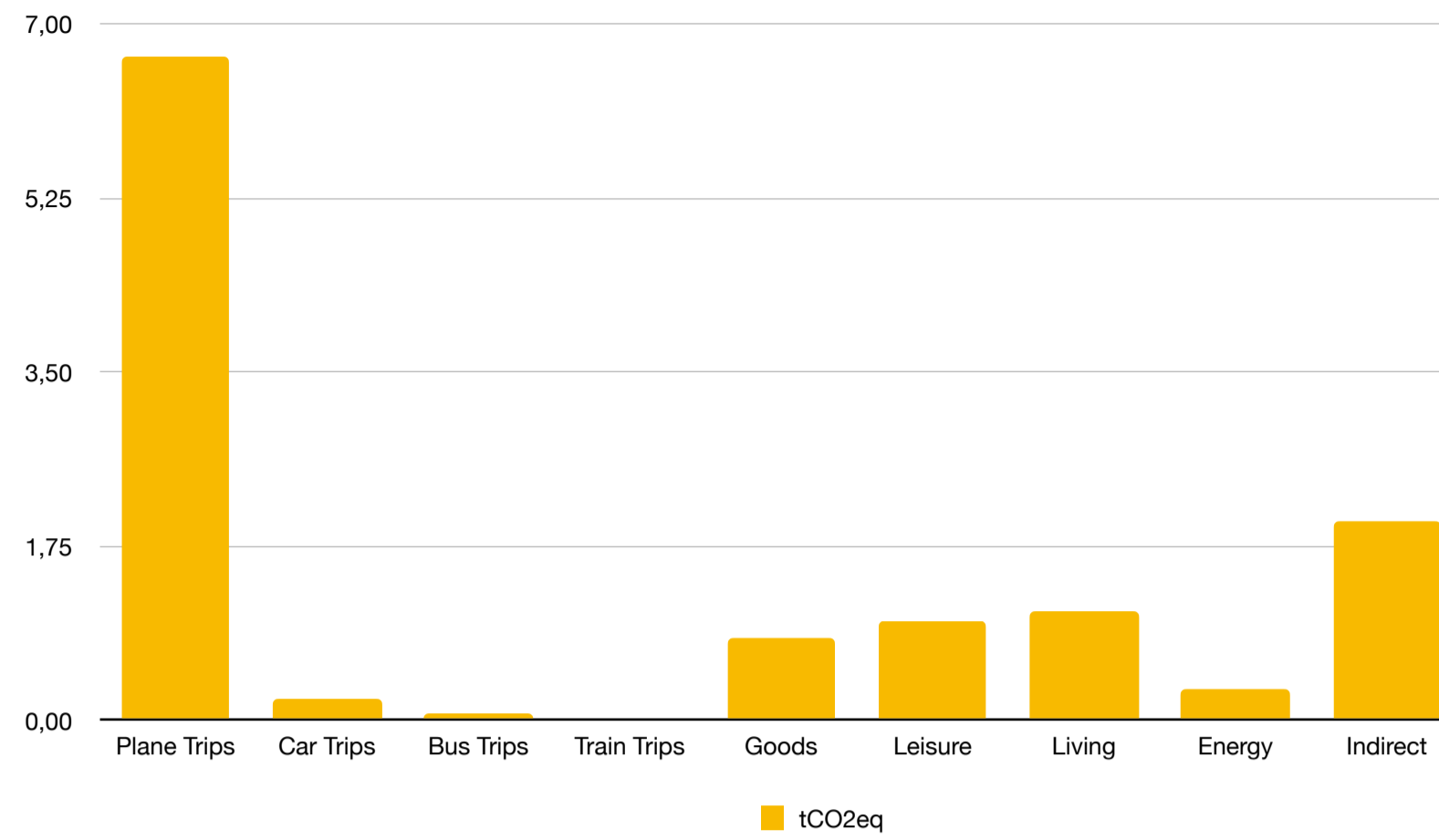
Personal Carbon Footprint (Year 2021)

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Totals by Category

| Category | tCO2eq |
|---|--------------|
| Plane Trips | 6,67 |
| Car Trips | 0,23 |
| Bus Trips | 0,07 |
| Train Trips | 0,03 |
| Goods | 0,82 |
| Leisure | 1,00 |
| Living | 1,10 |
| Energy | 0,32 |
| Indirect | 2,00 |
| Total (No Plane) | 5,57 |
| Total (No Plane + Goods) | 4,75 |
| Total (No Plane + Goods + Leisure) | 3,75 |
| Minimum Reachable (Incompressible) | 3,42 |
| Grand Total | 12,24 |

Allocation Scale



Totals Comparison

| Compared Country | tCO2eq |
|---------------------------------------|---------------|
| France Per Capita Average | 11,00 |
| USA Per Capita Average | 17,10 |
| China Per Capita Average | 10,10 |
| Deviation Above France Average | 11,25% |

Pricing of Carbon Externalities

| Price Data Point | Price / tCO2eq |
|-------------------------------------|------------------|
| Market Price Of Carbon (EU ETS) | \$102,70 |
| Social Cost Of Carbon (US SCC) | \$51,00 |
| Total Market Price Of Carbon | \$1256,78 |
| Total Social Cost Of Carbon | \$624,11 |

Notes:

- All reported tCO2 are CO2-equivalent emissions, they also comprise radiative forcing for plane trips, methane emissions, offsets, and such.
- Comparison numbers for countries are obtained from estimated **consumption** tCO2eq per-capita for the current year, therefore they also comprise **production** carbon footprint. For instance, France numbers would be much lower if we did not account for the carbon emissions coming from production of imported manufactured goods in eg. China.

Category: Plane Trips

| Trip Route | Distance (km) | gCO2eq / km | tCO2eq | Calculation Method |
|--------------------|---------------|-------------|-------------|--|
| Paris - Venice | 844 | 142 | 0,12 | Typical trip emission for route (with radiative forcing) |
| Rome - Paris | 1 107 | 145 | 0,16 | Typical trip emission for route (with radiative forcing) |
| Nantes - Lisbon | 1 127 | 142 | 0,16 | Typical trip emission for route (with radiative forcing) |
| Lisbon - Madrid | 502 | 139 | 0,07 | Typical trip emission for route (with radiative forcing) |
| Madrid - Lima | 9 509 | 137 | 1,30 | Typical trip emission for route (with radiative forcing) |
| Lima - Cusco | 573 | 140 | 0,08 | Typical trip emission for route (with radiative forcing) |
| Cusco - Lima | 573 | 140 | 0,08 | Typical trip emission for route (with radiative forcing) |
| Lima - Madrid | 9 509 | 126 | 1,20 | Typical trip emission for route (with radiative forcing) |
| Madrid - Nantes | 775 | 142 | 0,11 | Typical trip emission for route (with radiative forcing) |
| Nantes - Ajaccio | 1 004 | 139 | 0,14 | Typical trip emission for route (with radiative forcing) |
| Ajaccio - Nantes | 1 004 | 139 | 0,14 | Typical trip emission for route (with radiative forcing) |
| Nantes - Barcelona | 712 | 140 | 0,10 | Typical trip emission for route (with radiative forcing) |
| Barcelona - Nantes | 712 | 140 | 0,10 | Typical trip emission for route (with radiative forcing) |
| Nantes - Madrid | 775 | 142 | 0,11 | Typical trip emission for route (with radiative forcing) |
| Madrid - Lima | 9 509 | 126 | 1,20 | Typical trip emission for route (with radiative forcing) |
| Lima - Tacna | 983 | 142 | 0,14 | Typical trip emission for route (with radiative forcing) |
| Tacna - Lima | 983 | 142 | 0,14 | Typical trip emission for route (with radiative forcing) |
| Lima - Arequipa | 764 | 144 | 0,11 | Typical trip emission for route (with radiative forcing) |
| Arequipa - Lima | 764 | 144 | 0,11 | Typical trip emission for route (with radiative forcing) |
| Lima - Paris | 10 255 | 107 | 1,10 | Typical trip emission for route (with radiative forcing) |
| Sub-Total | 51 984 | 138 | 6,67 | Used: https://www.carbonfootprint.com/calculator.aspx (Flights) |

Category: Goods

| Good Name | tCO2eq | Calculation Method |
|---------------------|-------------|--|
| iPhone 12 Mini | 0,06 | From Apple Environmental Reports |
| HomePod mini | 0,09 | From Apple Environmental Reports (2 units) |
| Amazon Kindle | 0,17 | From independent studies |
| Clothes & shoes | 0,00 | None bought! |
| Others (corrective) | 0,50 | Estimated footprint for all other smaller goods bought |
| Sub-Total | 0,82 | |

Category: Leisure

| Leisure Type | tCO2eq | Calculation Method |
|------------------------------|-------------|--|
| Hotels & lodging (estimated) | 1,00 | Estimated footprint for all hotels & Airbnbs |
| Sub-Total | 1,00 | |

Category: Living

| Living Expense | tCO2eq | Calculation Method |
|-------------------|-------------|---|
| Food (vegetarian) | 1,00 | Typical emissions per person per year for a vegetarian |
| Trash (estimated) | 0,10 | Typical emissions per person due to the handling and burning of trashes |
| Sub-Total | 1,10 | |

Category: Energy

| Energy Source | kWh | gCO2eq / kWh | tCO2eq | Origin |
|------------------|--------------|--------------|-------------|--------|
| Heating | 1 453 | 200 | 0,29 | Biogas |
| Electricity | 1 300 | 24 | 0,03 | Hydro |
| Sub-Total | 2 753 | 112 | 0,32 | |

Category: Indirect

| Indirect Footprint | tCO2eq | Calculation Method |
|---------------------------|-------------|---|
| State and health services | 1,50 | Using reported numbers per habitant for all France ministries |
| Others (corrective) | 0,50 | Estimated "ghost" / unidentified carbon emissions |
| Sub-Total | 2,00 | |

Category: Car Trips

| Trip Route | Persons | Distance (km) | gCO2eq / km | tCO2eq | Car Model & Energy |
|-------------------|---------|---------------|-------------|-------------|---|
| Paris - Chamonix | 2 | 616 | 140 | 0,04 | Peugeot 208 (Gasoline, high-end engine) |
| Chamonix - Nantes | 2 | 815 | 317 | 0,13 | Corvette C6 (Gasoline, V8 engine) |
| Corsica | 2 | 600 | 140 | 0,04 | Peugeot 5008 (Hybrid Diesel, high-end engine) |
| Others | 1 | 3 000 | 4 | 0,01 | Tesla Model S (201 Wh / km, nuclear-powered at 20g CO2eq / kWh) |
| Sub-Total | | 5 031 | 150 | 0,23 | |

Category: Bus Trips

| Trip Route | Distance (km) | gCO2eq / km | tCO2eq | Calculation Method |
|----------------------|---------------|-------------|-------------|--|
| Nantes - La Rochelle | 120 | 180 | 0,02 | Typical modern bus emissions (per passenger, at half capacity) |
| La Rochelle - Nantes | 120 | 180 | 0,02 | Typical modern bus emissions (per passenger, at half capacity) |
| Cusco - Machu Picchu | 80 | 180 | 0,01 | Typical modern bus emissions (per passenger, at half capacity) |
| Machu Picchu - Cusco | 80 | 180 | 0,01 | Typical modern bus emissions (per passenger, at half capacity) |
| Sub-Total | 400 | 180 | 0,07 | |

Category: Train Trips

| Trip Route | Distance (km) | gCO2eq / km | tCO2eq | Calculation Method |
|------------------|---------------|--------------|---------------|---|
| Paris - Nantes | 385 | 1,74 | 0,0007 | Typical TGV train emissions (per passenger, nuclear-powered) |
| Nantes - Paris | 385 | 1,74 | 0,0007 | Typical TGV train emissions (per passenger, nuclear-powered) |
| Paris - Nantes | 385 | 1,74 | 0,0007 | Typical TGV train emissions (per passenger, nuclear-powered) |
| Venice - Rome | 505 | 50,00 | 0,0253 | Typical high-speed train emissions (per passenger, gas-powered) |
| Sub-Total | 1 660 | 13,81 | 0,0273 | |