

# INDIAN EXCHANGE: WORK ON SUSTAINABILITY

## CARBON FOOTPRINT NEXT STEPS

### First step:

Calculate your carbon footprint.

Why? Calculating C footprint can help you to identify ways to decrease your impact on the environment. Many different factors must be taken into account in order to achieve a realistic/credible estimation.

The following factors should be considered:

- ✓ The number of members of your household
- ✓ The size of your home
- ✓ Your food choice
- ✓ Your water consumption
- ✓ The amount of waste you produce
- ✓ The amount of waste you recycle
- ✓ Your transportation choices
- ✓ Type of heating in your house
- ✓ Energy efficiency improvements that are installed in your home

	Swiss	Indian
%	108	102
	122	107
tons	12.6 (wwf)	7.4 (wwf)
	11 (myclimate)	8.2 (myclimate)
	7.2 (myclimate)/ 10 (wwf)	6.6 (myclimate)/ 9.7 (wwf)
	10 (wwf)	9 (wwf)
	10.8 (wwf)	10.2 (wwf)

⇒ Swiss 5 to 15% more  
 ⇒ Swiss average : 9 tonnes  
 ⇒ Indian average : 7 tonnes

	Swiss	Climate neutral	Indian	Climate neutral
Home	51/30/20/41/8	17 (energy)	31/8/39/31/32	35 (energy)
Travel	12/43/49/16/72	43	26/60/5/26/8	40
Food	19/20/13/16/9	20	17/17/24/14/27	44
Stuff	18/18/27/11		26/32/29/33	
car	7	20	15	2

**Swiss**

- ⇒ Home average: 35.5%
- ⇒ Travel average : 30%
- ⇒ Food average : 17%
- ⇒ Stuff average : 18.5%

**Indian**

- ⇒ Home average: 33%
- ⇒ Travel average : 16%
- ⇒ Food average : 20%
- ⇒ Stuff average : 30%

**Differences**

- ⇒ Home: about equal
- ⇒ Travel : swiss ~ 2x +
- ⇒ Food : indian ~ 0.25x +
- ⇒ Stuff average : indian ~ 2x +

- Not enough results to make a real and clear comparison. Some differences between students of the same country are even higher than between students of two different countries.
- From the results above we could deduce that:
  - Swiss C footprint seems to be a bit higher than the Indian one
  - Home and travel seem to be the sectors that are the most impacting the results for Swiss students. On the other hand, home and stuff would be more affecting for Indian students => WHY?

## Second step:

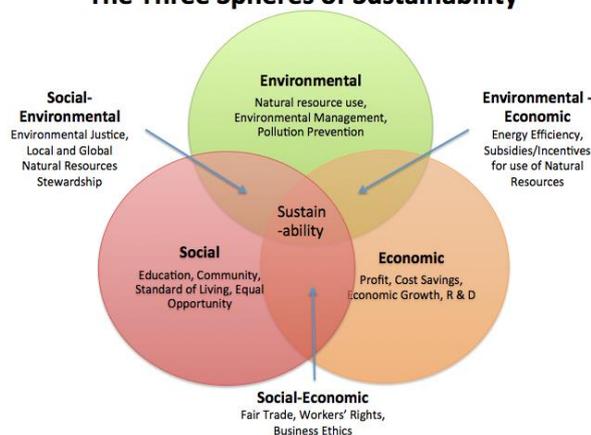
- Groups of three Swiss and three Indian students will work on a specific item. To find out and choose the items, they can look at the questions asked in the calculators
- Each group, regarding the topics they have chosen, should find a way of reducing their carbon footprint (as individuals and for the school).
- To find a practical way of reducing your C footprint, you should also do some theoretical research about the topic you have chosen to work on (for example be aware of your food choices; In what way do they influence your C footprint)
 

You should also think about the ethic point of view Environmental perspective (whose C footprint only one part of it (?)) is only one aspect of sustainability but social and economic aspects should also be taken into consideration to broaden the perspectives.



<https://www.admtl.com/en/adm/communities/sustainable-development>

## The Three Spheres of Sustainability



<https://themetamo.files.wordpress.com/2014/10/3-spheresofsustainability1.png>

### **Third step:**

To help you to achieve your target of decreasing your C footprint, you should try to find answers to the following questions:

- ✓ What would the consequences be for me?
- ✓ Who would be involved (family, friends...), who could help (me)?
- ✓ What personal efforts would be needed (do I agree to make) to achieve changes?
- ✓ What alternative do I have (what other resources)?
- ✓ What could be the obstacle/curb?
- ✓ What positive outcome do I get (personal gain)?
- ✓ How can I measure if I have achieved my goals?

### **Forth step:**

Measure and verify if each of you has achieved his/her goals

### **Fifth step:**

Make a presentation board that explains your work and shows your results (They will be on display in your schools)

# PLANNING

- **December:** by groups choose a topic (what should we work on to decrease our C footprint)

**Appointment on the 12<sup>th</sup> of December at 12:20, class 21**

**(with groups -Indian+Swiss- defined)**

- **January:** theoretical research and reflection on the guiding questions
- **February:** setting up of the practical aspect of how to reduce your C footprint
- **March:** continuing your “practical” action and measures
- **April:** starting to think about your presentation board
- **May:** the presentation (in English of course!) board is finished (Pdf?)

*France Combépine*