



http://www.teebweb.org

## **Footprints**

# MY Carbon Footprint Harvesting

Total CO2 Secondary House Flights Motorbike Bus & Rail Car My carbon footprint is very high with almost 7.98 tonnes of CO2. Your Carbon Footprint: House 0.73 tonnes of CO2 Your footprint is 7.98 tonnes per year The average footprint for people in Spain is 7.70 tonnes ▼ Flights 4.12 tonnes of CO2 The average for the industrial nations is about 11 tonnes V Car 0.11 tonnes of CO2 The average worldwide carbon footprint is about 4 tonnes Motorbike 0.00 tonnes of CO2 The worldwide target to combat climate change is 2 tonnes Bus & Rail 0.13 tonnes of CO2 Secondary 2.89 tonnes of CO2 I have used... http://www.carbonfootprint.com/calculator.aspx Total = 7.98 tonnes of CO2

<u>Secondary:</u> Food Preference • Organic Produce • In season food • imported food and goods • Fashion • Packaging • Furniture and electricals
 • Recycling • Recreation • Car Manufacture • Finance and others services





## Let's define....

- **Biodiversity** is the variation of life forms within a given ecosystem or on the entire Earth.
- Ecosystem refers to the combined physical and biological components of an environment and humans
- ☐ Ecosystem services are the benefits that people obtain from ecosystems the goods and services of nature

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## Let's define....

- **Biodiversity loss:** The decline of genetic diversity and distribution and abundance of species diversity, the loss of ecosystem structures, and/or the impairment of ecological functions
- ☐ Ecosystem degradation: A persistent reduction in the capacity to provide ecosystem services.
- □ Natural capital: An extension of the economic notion of capital (manufactured means of production) to environmental 'goods and services'.

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**Provisioning Service**s



**Regulating Services** 



**Cultural Services** 



Supporting Services & Habitat



# **Provisioning Services:**

## Goods produced or provided by ecosystems

- ☐ Food
- ☐ Freshwater
- ☐ Raw materials
- ☐ Genetic resources
- ☐ Medicinal/other biochemical resources
- ☐ Ornamental resources
- ☐ Energy





# **Regulating Services:**

Natural processes regulated by ecosystems

- ☐ Air purification
- ☐ Climate regulation
  - Global (CO2 sequestration)
  - Regional and local
- ☐ Moderation of extreme events
- ☐ Water purification and waste treatment

- ☐ Maintenance of soil fertility
- ☐ Erosion prevention
- ☐Biological control
- □ Pollination





### **Cultural Services:**

Cultural and social benefits obtained from ecosystems

- □ Recreation
- **D**Ecotourism
- ☐ Spiritual and religious experiences
- ☐ Inspiration for culture, art and design
- ☐ Information for cognitive development





# **Supporting Services:**

Functions that maintain all other services

- ☐ Nutrient cycling
- ☐ Primary production
- ☐ Photosynthesis
- ☐ Water cycling
- ☐ Maintenance of biodiversity







https://www.youtube.com/watch?v=A-QpKiU-NHo



# Responding to natures Invisibilities; A Recap so far

The value of biodiversity and ecosystem services is <b>not being fully reflected</b> in the markets, price signals and policies
Decision making (at company, policy & citizen level) often <b>fails to take into account</b> the local to global benefits of biodiversity and ecosystem services
Assessing ecosystem service benefits is critical
There is a <b>need to improve the economic signals</b> to help take the values of nature into account
There is a growing recognition of the need to improve and <b>invest political capital in natural capital accounts</b> and integrated environmental and economic accounts