



Activity C4. **ECONOMIC IMPLICATIONS OF SAVING ENERGY.**
THE LANDSCAPE CREATED BY THE FORCES OF NATURE.
Porto Sant'Elpidio, Marche region, ITALY - February 2021



Erasmus+ The Global Footprint

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**Ecological Footprint
Calculator**

<https://www.footprintcalculator.org/>

ECONOMIC IMPLICATIONS OF SAVING ENERGY
Lifestyle and Overshoot day

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EARTH OVERSHOOT DAY: WHAT IS IT?

The **Earth Overshoot Day** indicates the day in which humanity consumes all the resources produced by the planet in the whole year.

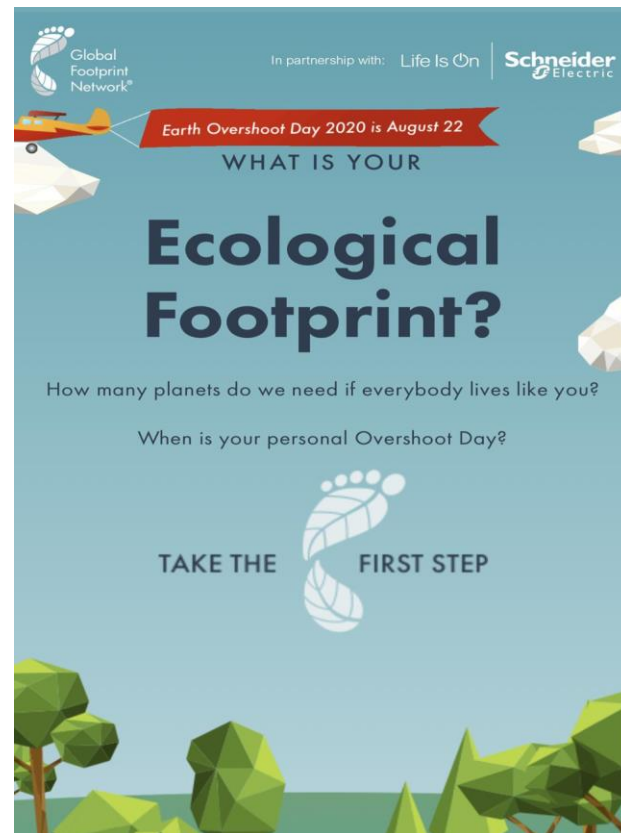




How to calculate the EARTH OVERSHOOT DAY

Global Footprint Network develops tools to promote sustainability including the ecological footprint and biocapacity <https://www.footprintcalculator.org/>, calculates the number of days of the year that terrestrial biocapacity is able to provide for the human ecological footprint. The remaining days are called overshoot.

In the next slide you can see how to calculate it





How to calculate the EARTH OVERSHOOT DAY



First we find the fraction of the year for which the generated resources are able to provide.

Finally, multiplying by the number of days in a year we obtain the date of the Earth Overshoot Day =EOD

Define the quantities:

BIO = annual biocapacity of the planet Earth;

HEF = humanity's annual ecological footprint.



Finally you find : $EOD = BIO / HEF * 365$

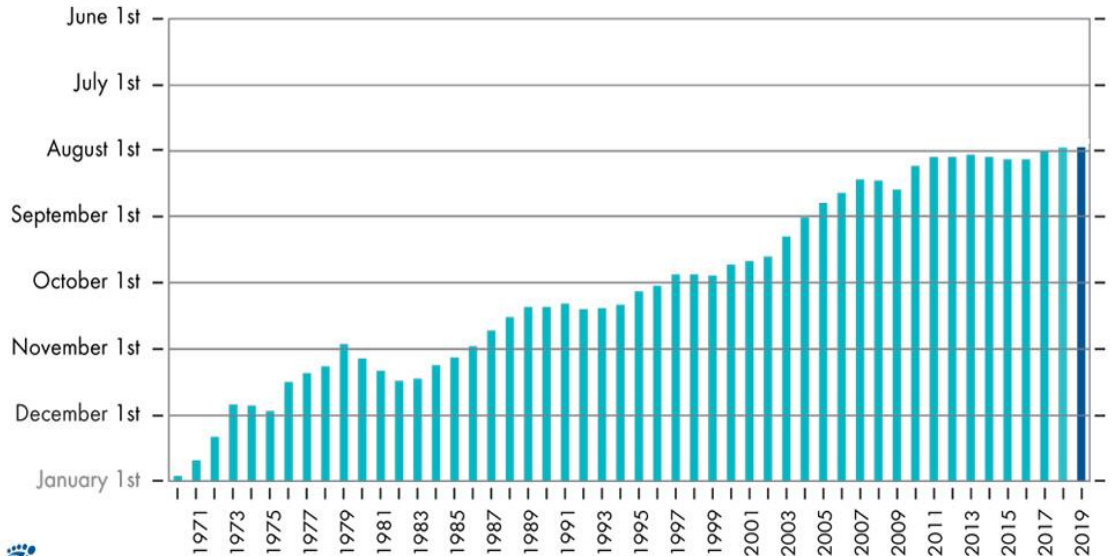


1 Earth

Earth Overshoot Day
1970-2019



1.75 Earths

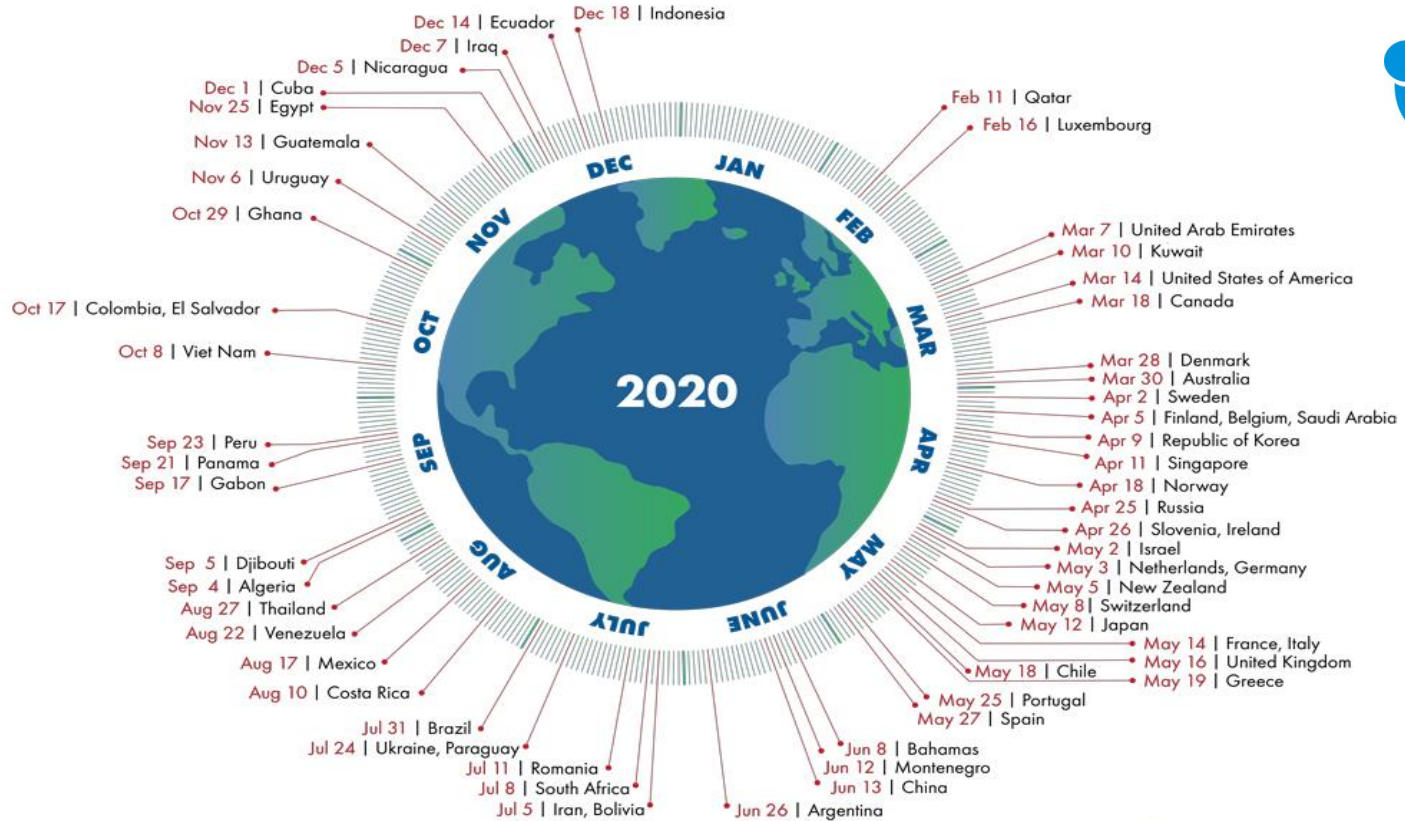


Source: Global Footprint Network National Footprint Accounts 2019



Country Overshoot Days 2020

When would Earth Overshoot Day land if the world's population lived like...



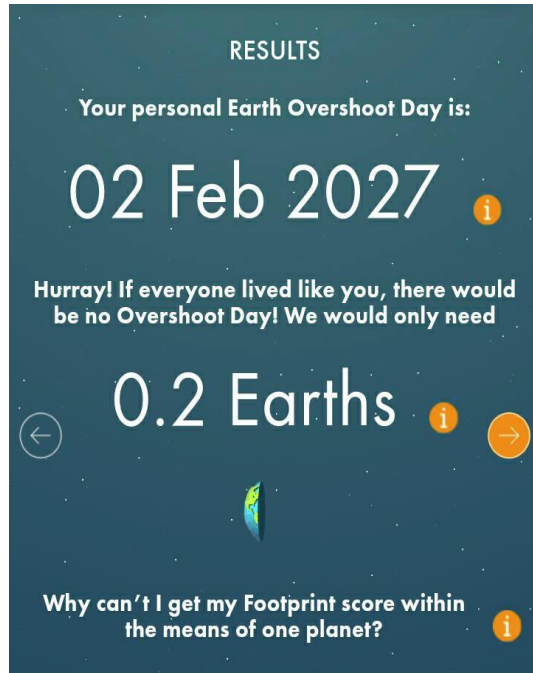
Minimal exploitation of the planet Earth



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Here are some values of the Ecological Footprint Calculator website, maintaining an ecological and, at the same time, sustainable lifestyle.



Having this lifestyle, there are pros and cons.

pros:

- life in favour of the environment and the planet Earth;
- vegan diet;
- the minimum of individual emissions;

cons:

- living in primitive conditions, i.e. in a small thatched house without running water, inhabited by more than 10 people.

Maximum exploitation of the planet Earth



Instead, here we present a lifestyle that is completely unsustainable and that makes the most of the Earth's resources.



Having this lifestyle, we can see pros and cons.

pros:

- you have a life to the fullest and you don't miss anything;
- do not think about waste;

cons:

- lifestyle harmful to the environment;
- the environment will soon run out of resources if we all adopt this lifestyle.

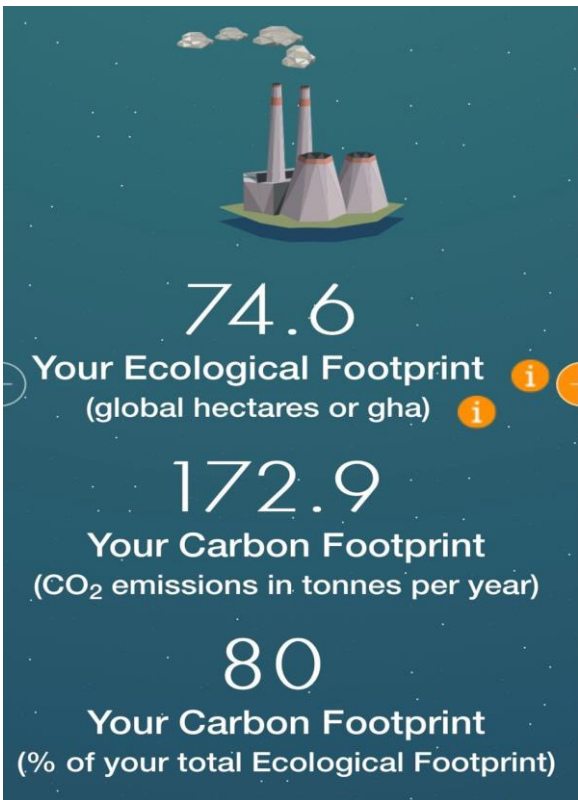


Emissions comparison



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the emissions of an
unregulated life



the emissions of an
eco-sustainable life



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Thanks
for your
attention



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