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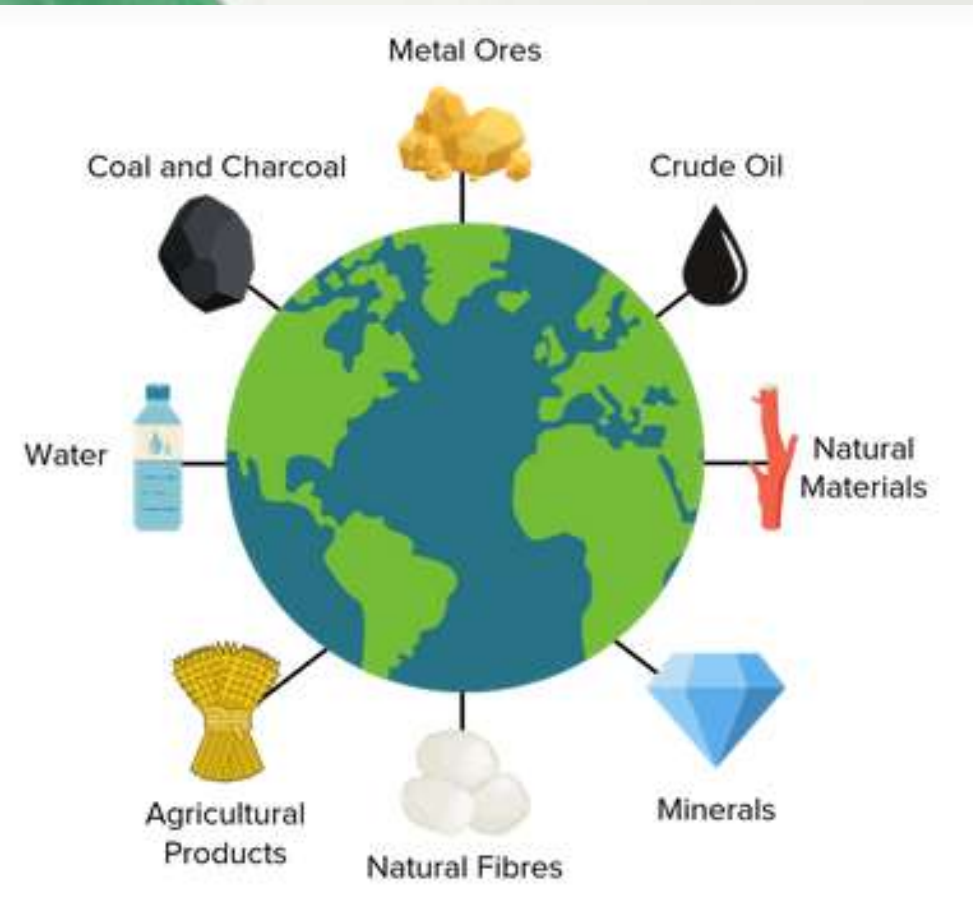


# EARTH OVERSHOOT DAY

2 August 2023 **2 August 2023**  
EARTH OVERSHOOT DAY

**We have officially  
exceeded our  
natural resource  
budget for 2023.**

UN   
environment  
programme



- **Human use up Earth's resources** within a certain time.
- However, **Earth** has the capacity to **regenerate resources**.
- But **human consumption** of the resources **exceeds that capacity**.
- **Earth Overshoot Day (EOD)** refers to a calculated illustrative **date of a year when human consumption exceeds Earth's capacity of regeneration**
- This **puts sustainability in question**, along with **making future generations vulnerable**.



- **August 2**, was observed as the **Earth Overshoot Day** for year **2023**.
- It is **measured by Global Footprint Network** (international research organization) each year **since 1971**.
- It is **calculated by dividing the planet's biocapacity** (the quantity of ecological resources Earth can generate each year) **by humanity's Ecological Footprint** (humanity's demand for that year).


$$\frac{\text{Global Biocapacity}}{\text{Global Ecological Footprint (humanity's demand)}} \times 365 = \text{Earth Overshoot Day}$$



- **Ecological Footprint** is defined as the area of productive land and water ecosystems required for the production of the resources that the population consumes and assimilate the wastes that the population produces
- **Idea of ecological Footprint** was given by William Rees in 1992.

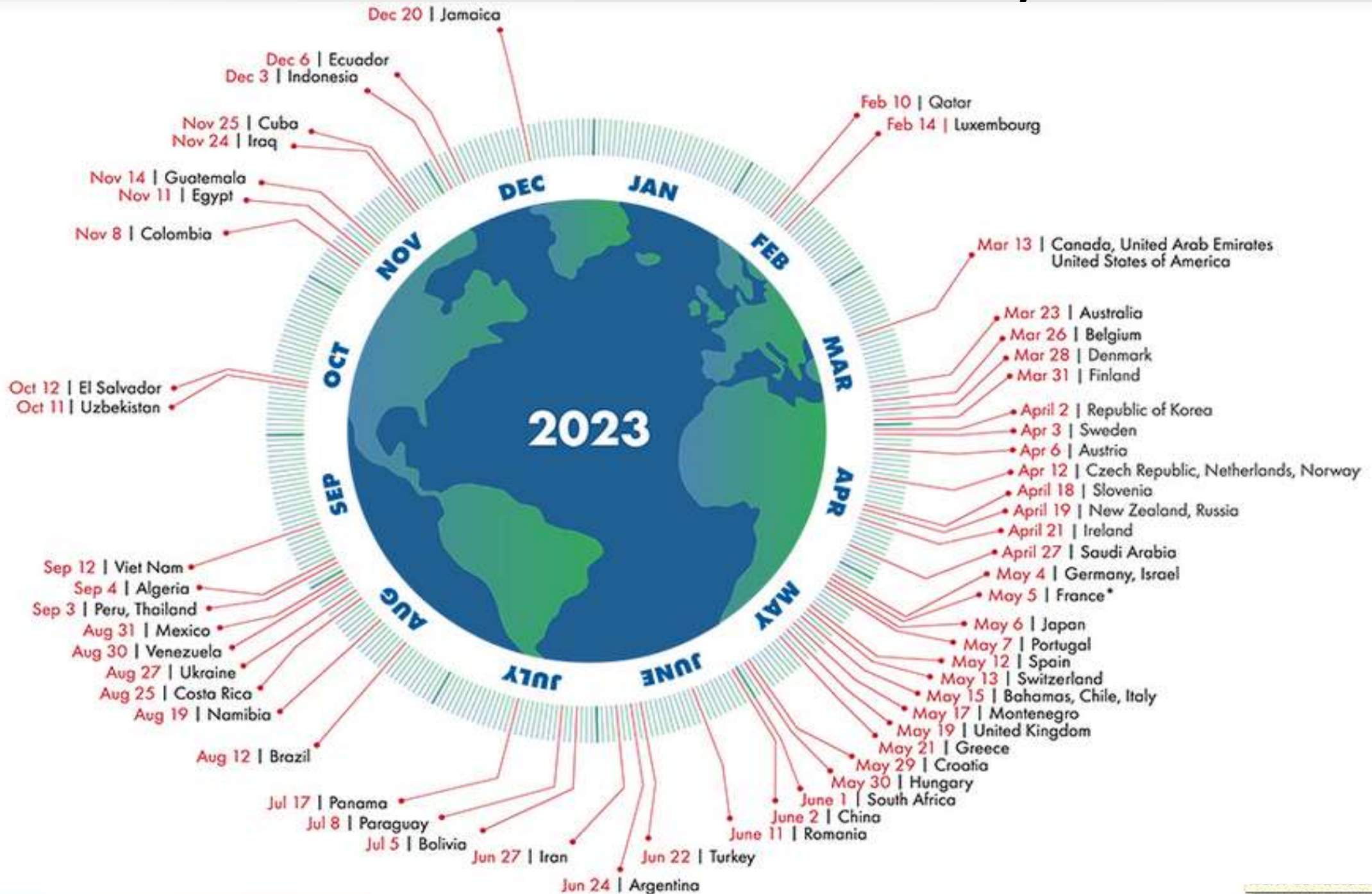


# Earth Overshoot Day


$$\frac{\text{Global Biocapacity}}{\text{Global Ecological Footprint}} \times 365 = \text{Earth Overshoot Day}$$

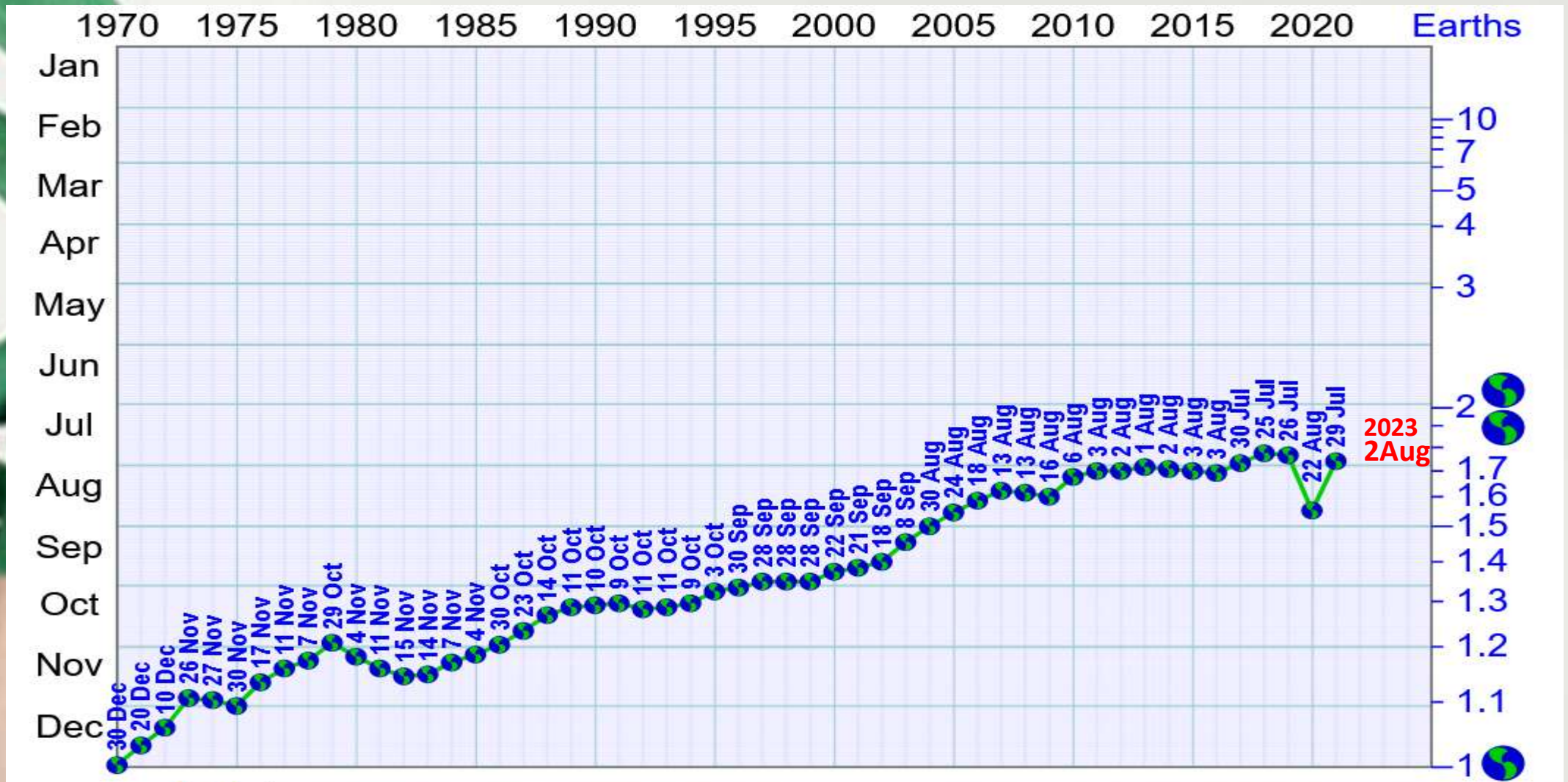
**Earth Overshoot Day** is **comparison of total** amount of **natural resources** that are **generated** by the planet Earth in that particular year **to the total** amount of **natural resources consumed** by human beings in that particular year.

# Different nation's Earth overshoot days





# Earth overshoot day is coming sooner and sooner







## Earth Overshoot Day India

- The data pertaining from the recent years have highlighted **India as a role model in the context of consumption of resources.**
- While **major countries have been major exploiters** of the Earth's natural resources, the **Indian lifestyle provides** for a **possible solution to the problem.**
- Some of the **frontline countries consuming resources** are **Qatar, Luxembourg, the UAE, France, the UK, Germany, China, and Indonesia.**
- It has been found that **if the entire world starts living like the Qataris, an entire year's global natural resources will be exhausted by the 11th of February.**

## How many Earths do we need

if the world's population lived like...



 **World** 1.75 

Source: Global Footprint Network National Footprint Accounts 2019

- **According to the GFN (Global Footprint Network), in a hypothetical situation where every citizen of the world lives like a citizen of the United States, sustainability would call for a total of 5 Earth.**
- **but, if people of the world living like Indians would actually call for only 0.7 of the planet Earth to reach sustainability.**
- **The above figures put India in a place where it can certainly be a role model for other nations to follow in the context of resource consumption.**

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