



2023-1-TRO1-KA220-SCH-000160173
GREEN AGRIPRENEURS OF FUTURE

TEACHING SUSTAINABILITY IN A WORLD OF OVERCONSUMPTION

Teacher Training

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Sustainability - It's Everywhere!



Image source:

<https://www.corporateknights.com/leadership/key-to-combatting-greenwashimg-empowered-marketing-team-esg/>





Menti time!



Go to <https://www.menti.com/> and enter the code to join: **6828 7066**
or Scan QR code



What does sustainability mean to you?



Root of Sustainability

- ***Meeting our own needs today without taking away from future generations' ability to meet theirs.***

Definition from a UN in the late '80s

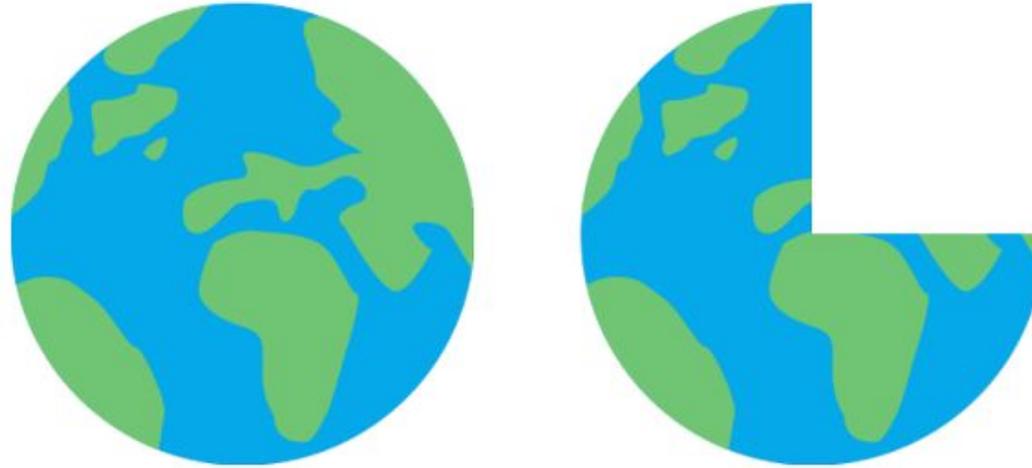


- Every choice we make - the products we buy, the food we eat, and the energy we consume - impacts the Earth.
- Living today with tomorrow in mind.
- It's about living within the Earth's limits!

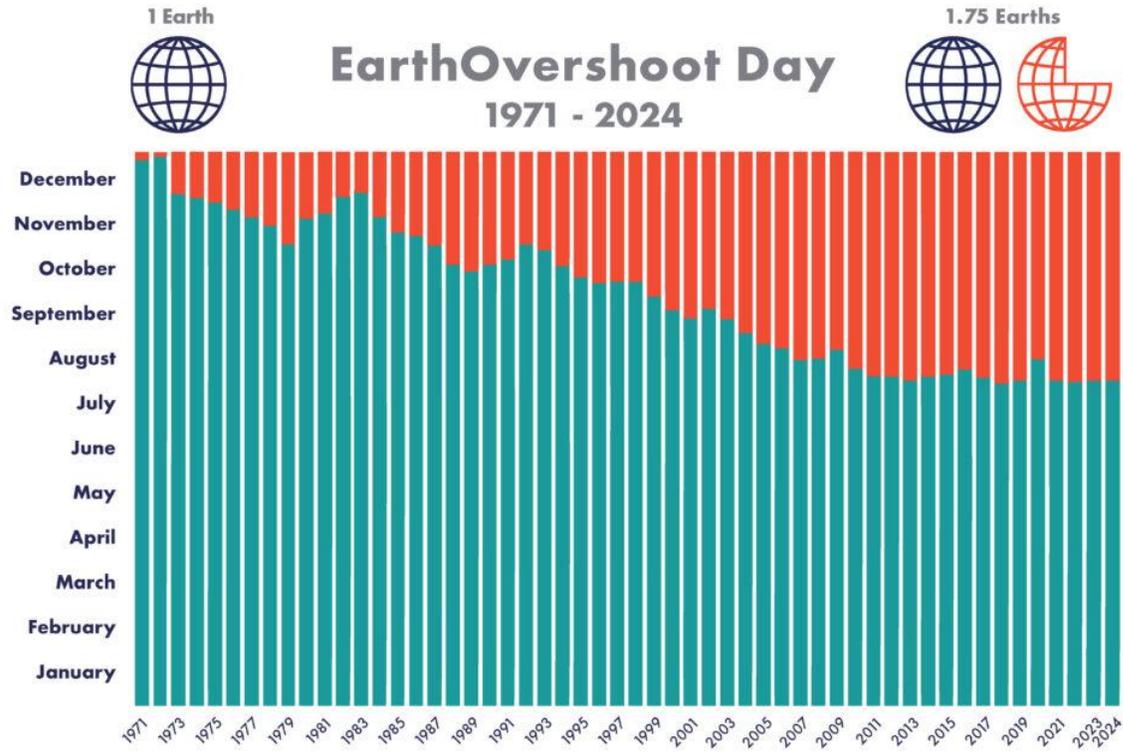


What does the below image mean?

1.75 Earths



Earth Overshoot Day

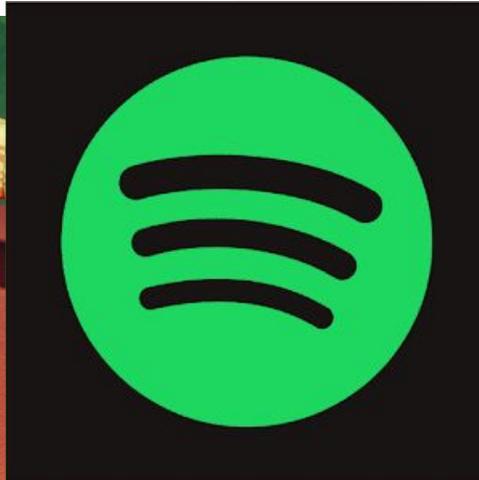


The last time we lived as if there was 1 world was in 1970!

As of 2024, on **1 August**, we consume all the resources the planet produces in a year.

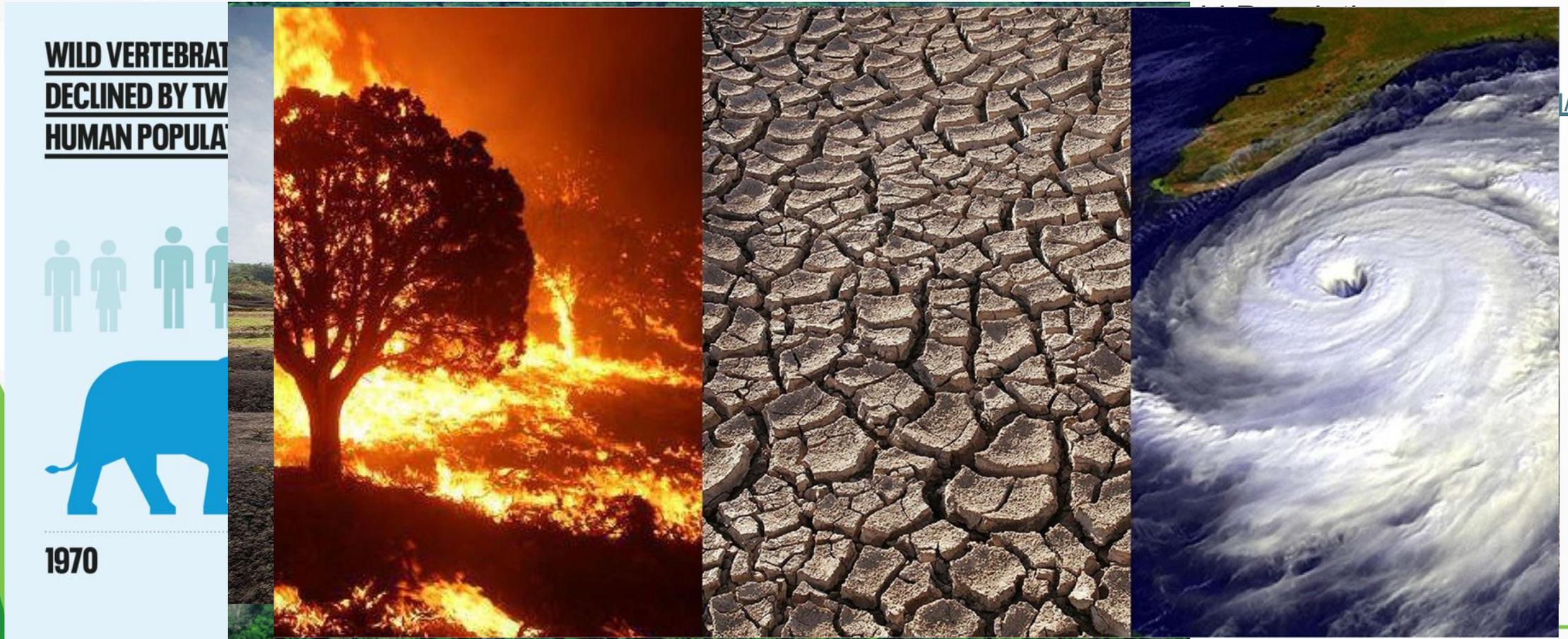


What changed since 1970?



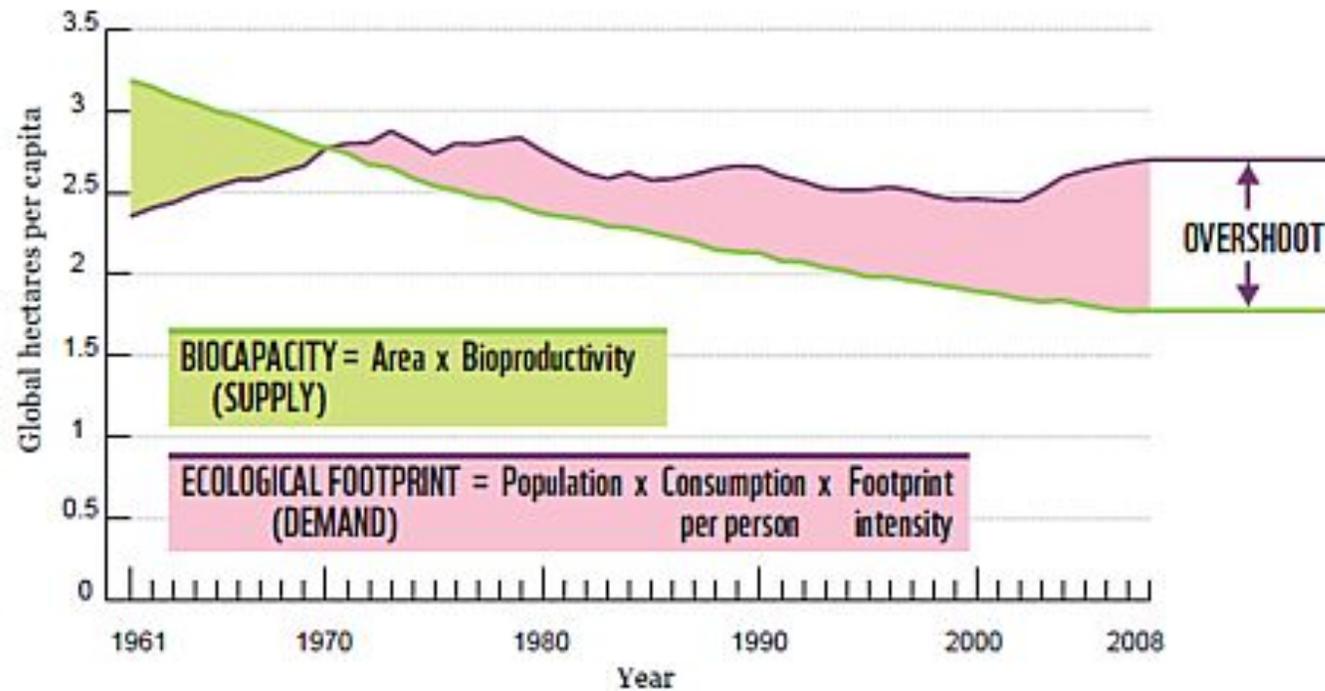


What changed since 1970?





Terms Defined - Overshoot

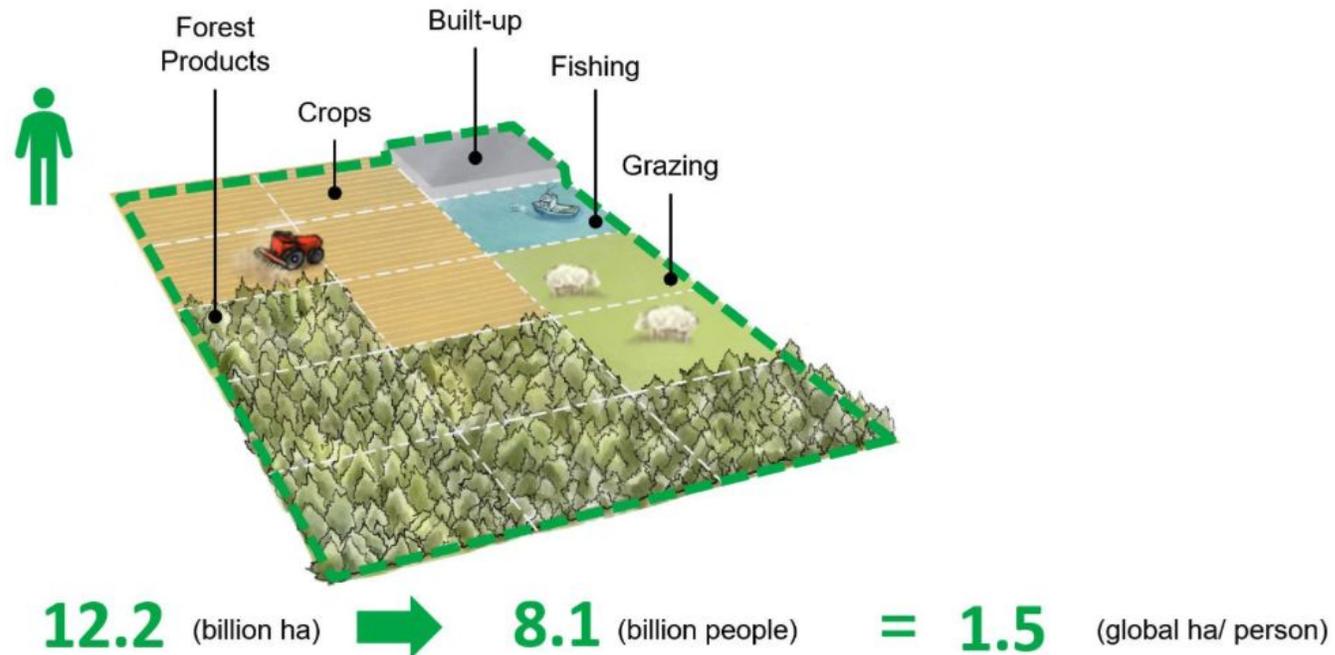


Biocapacity represents the abundance of nature.

Ecological footprint shows how much we use nature.

Terms Defined - Biocapacity and Global Equity

Our biocapacity per person in the world (2023)



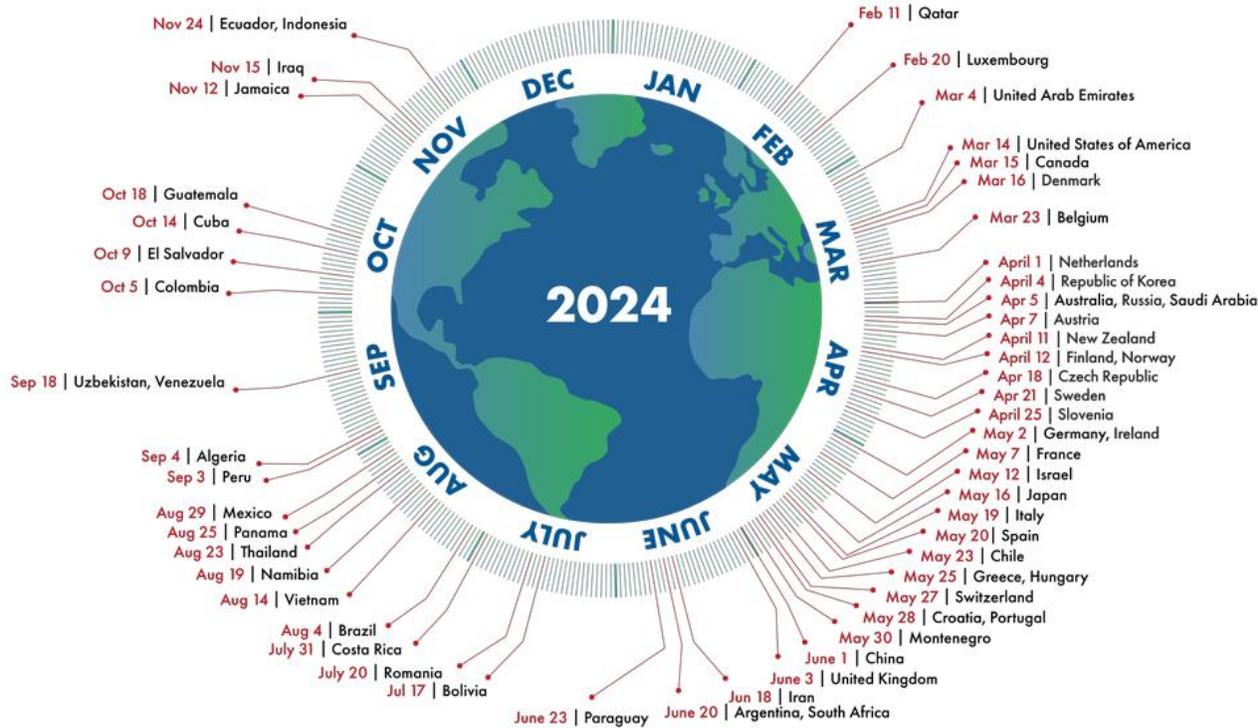
For more detailed info: check this map: <https://data.footprintnetwork.org/#/>

Image source: <https://www.footprintnetwork.org/what-biocapacity-measures/>



Country Overshoot Days 2024

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



Let's see your country:

<https://overshoot.footprintnetwork.org/how-many-earths-or-countries-do-we-need/>

For a full list of countries, visit overshootday.org/country-overshoot-days.



EARTH
OVERSHOOT
DAY

Source: National Footprint and Biocapacity Accounts, 2023 Edition
data.footprintnetwork.org



Global Footprint Network
Advancing the Science of Sustainability



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Quiz

CURRENT WORLD POPULATION

8,150,962,339

Our population has become so large that the Earth is struggling to cope. Our growth adds to climate change, biodiversity loss and resource depletion. But there are many things we can do to change course.

Are you ready to explore?

I'M READY!

<https://explore.populationmatters.org/>





Natural Resources



Natural resources are materials and components found within the environment.

Every man-made product is composed of natural resources.



Renewable and Non-renewable resources

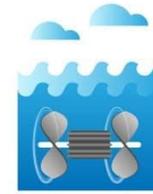


ENERGY SOURCES

RENEWABLE ENERGY



Wind



Hydropower



Solar



Geothermal



Biomass

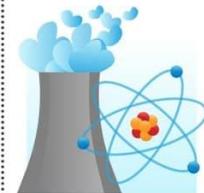
NON-RENEWABLE ENERGY



Oil



Coal



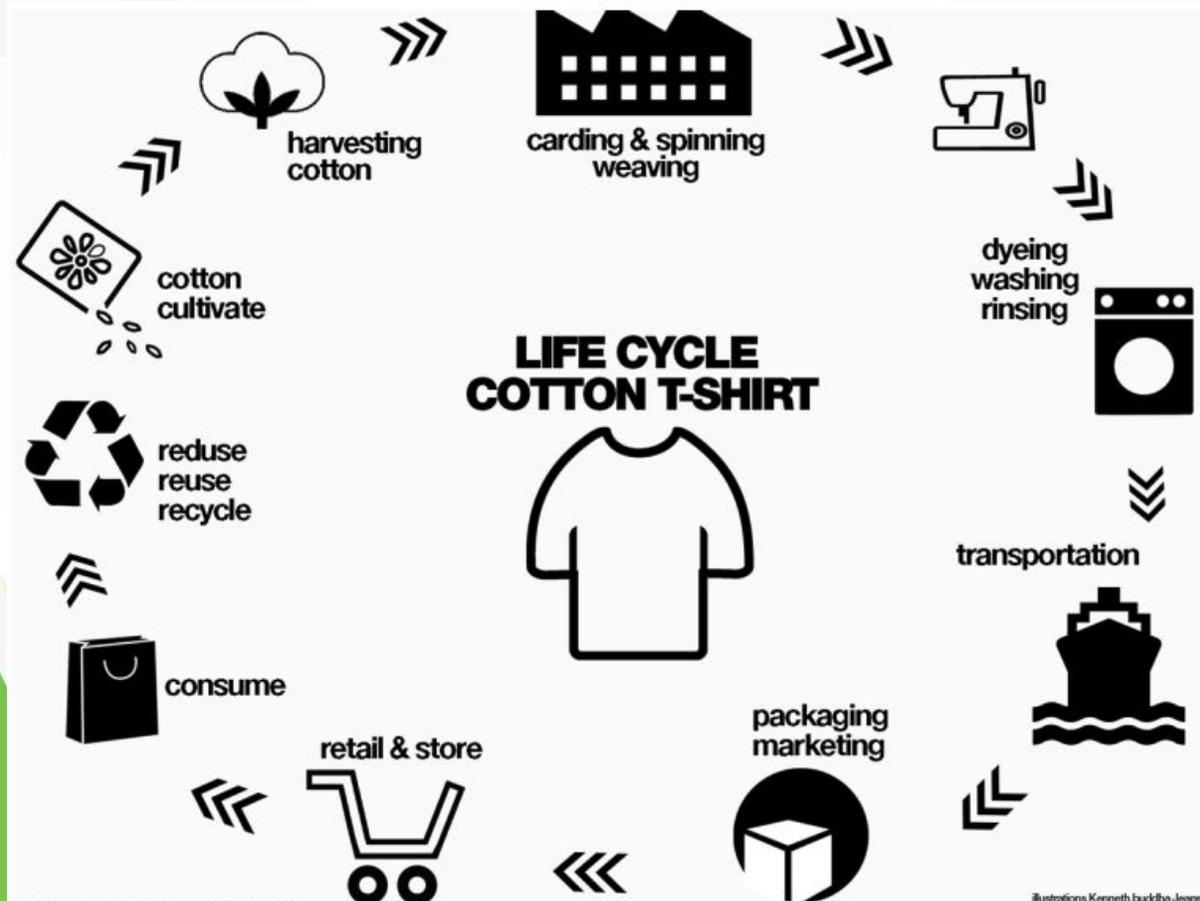
Nuclear



Natural Gas



The Journey of Everyday Items



Let's watch the video about the life cycle of a t-shirt:

https://www.youtube.com/watch?v=BiSYoeqb_VY



The Three Pillars of Sustainability



But sustainability isn't just about protecting the environment. It actually includes three main parts: environmental, social, and economic sustainability.

- **Environmental sustainability**
- **Social sustainability**
- **Economic sustainability**

True sustainability needs all three parts working together!





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Menti Time!

In your opinion, which area of sustainability is the most critical to address for creating a sustainable future?



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Menti Time!

In your opinion, which area of sustainability is the most critical to address for creating a sustainable future?





Quotes by environmental activists about economic growth



POPULATION
MATTERS

"It's absurd, really, to think that there can be unlimited economic development on a planet with finite natural resources."

"We are in the beginning of a mass extinction, and all you can talk about is money and fairy tales of eternal economic growth."

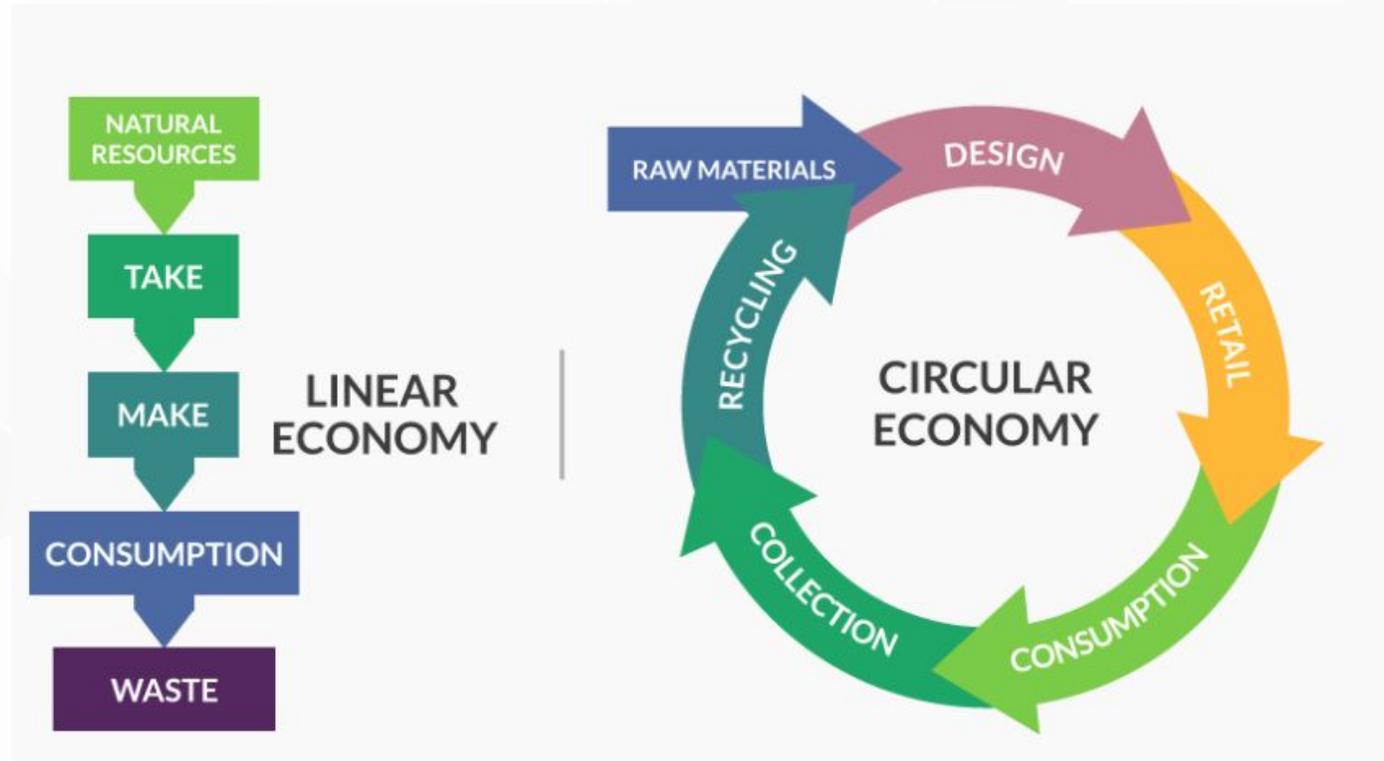


"Anyone who thinks that you can have infinite growth in a finite environment is either a madman or an economist."

Screenshot



Linear Economy vs Circular Economy





Menti Time!



How familiar are you with the Sustainable Development Goals (SDGs)?

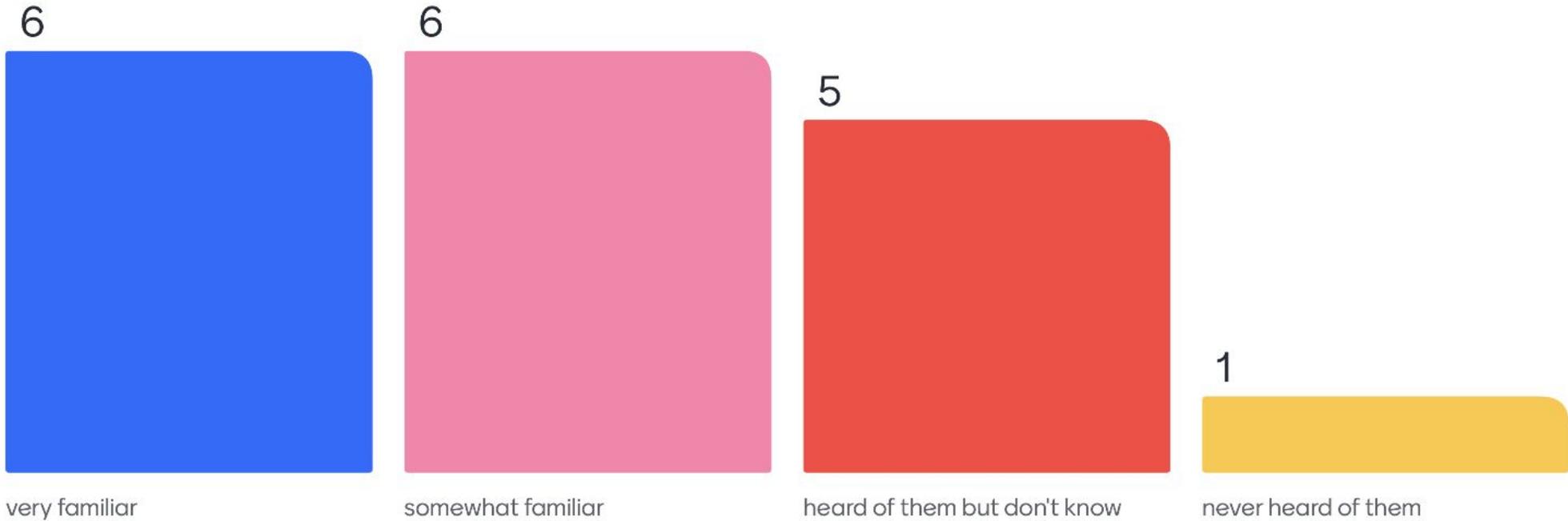




Menti Time!



How familiar are you with the Sustainable Development Goals (SDGs)?





Sustainable Development Goals (SDGs)



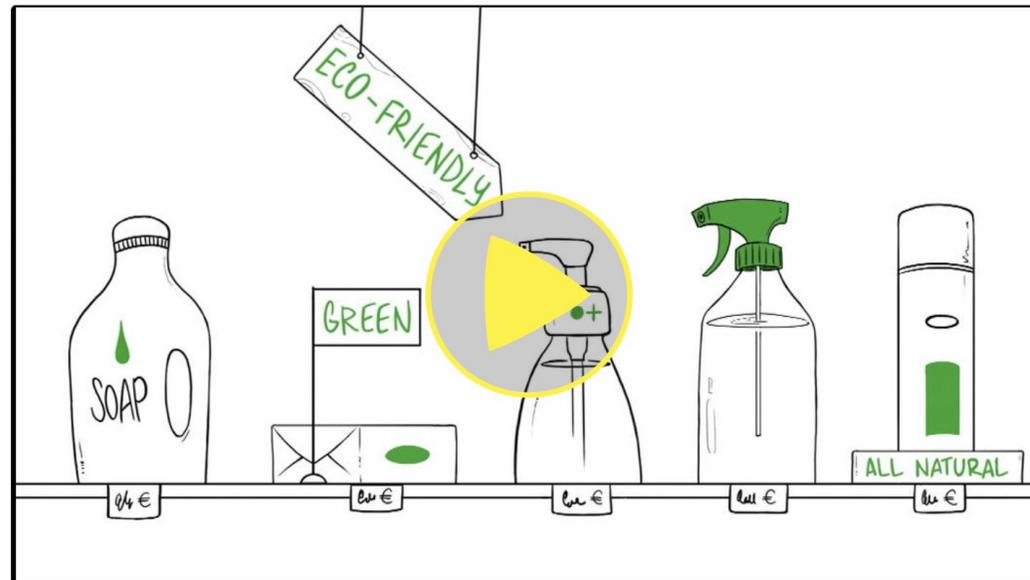
<https://sdgs.un.org/goals>



Sustainability or Greenwashing?

Some companies use “sustainability” as a marketing tactic, making themselves seem eco-friendly when they really aren’t. This is known as “greenwashing.”

EU measures to tackle greenwashing



Let's watch video:

<https://audiovisual.ec.europa.eu/en/video/I-239279?language=EN>



Short break





Ecological Footprint

The Ecological Footprint

MEASURES

how fast we consume resources and generate waste



Ecological Footprint Calculator:

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

- Food
- Housing
- Transportation

WWF Footprint Calculator:

<https://footprint.wwf.org.uk/>

How to reduce ecological footprint



Use Energy Efficiently: Switch to LED lights and energy-efficient appliances.	Choose Reusable Over Disposable: Use reusable bags, bottles, and containers to minimize single-use plastics.
Unplug Devices: Unplug chargers and devices when not in use to save electricity.	Recycle and Upcycle: Sort waste correctly and give a second life to old items through upcycling.
Opt for Renewable Energy: Install solar panels or choose a green energy provider if possible.	Buy Fewer, Better Products: Opt for durable, eco-friendly, and ethically made products.
Reduce Water Usage: Take shorter showers, fix leaks, and use water-saving fixtures.	Support Sustainable Brands: Choose companies committed to environmentally and socially responsible practices.
Drive Less: Walk, bike, carpool, or use public transportation whenever possible.	Reduce Paper Use: Go digital whenever possible and opt for recycled paper.
Switch to an Electric or Hybrid Vehicle: Reduce your carbon footprint by driving a fuel-efficient car.	Plant Trees and Gardens: Trees absorb CO2 and provide habitats for wildlife.
Limit Air Travel: Choose alternatives like trains or buses for shorter distances, and offset carbon emissions for unavoidable flights.	Save Energy While Cooking: Use lids on pots, batch cook meals, and turn off the oven early to use residual heat.
Eat a Plant-Based Diet: Reduce meat and dairy consumption, as they have a high environmental impact.	Support Circular Economy: Buy second-hand, rent or repair items instead of always buying new.
Buy Local and Seasonal Produce: Support local farmers and reduce the carbon footprint of food transportation.	Conserve Resources at Home: Insulate your home to reduce heating and cooling energy use.
Avoid Food Waste: Plan meals, store food properly, and compost scraps.	Educate and Inspire Others: Share your sustainability practices and encourage others to adopt eco-friendly habits.



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How do we bring sustainability into our classrooms?

Zero Waste Practices: Teach students waste management using the “5 R’s” (Refuse, Reduce, Reuse, Recycle, Rot). **Example:** Encourage students to bring reusable water bottles and avoid single-use plastics.

Ecological Footprint Calculators: Have students calculate their ecological footprint to assess their resource consumption and identify areas for improvement.

Life cycle of a Material: Explore the journey of a product from raw materials to disposal. Discuss ways to reduce waste and improve sustainability at each stage of the cycle.

Energy and Water Conservation: Promote simple yet impactful actions like turning off lights, unplugging devices, and taking shorter showers to conserve energy and water.





An engaging game about sustainability

TAG YOUR HABITAT

🌱 First, find a safe area for the game. An open field with an even surface will be good for the game. If you select a small area, the game will end in a short time.

🌱 Then, make the following explanation to the children: "The birds are trying to survive in this habitat. They have 5 minutes to find all their needs in the habitat which are food, water, cover and space."

🌱 There are five different roles in the game: Bird and four different habitat elements: food, water, cover and space. Give one of these roles to each child. If there are less than 10 children, choose 2 as birds, if there are children between 10-20, choose 3 as birds and if there are more than 20 children, choose 4 birds. Assign the remaining children with food, water, cover and space roles.

🌱 The birds will try to tag others. They will try to catch the habitat elements. The habitat element children will do certain moves while running so that the birds can understand which element they are.

- **Food:** These children will imitate eating by bringing their hands to their mouths.

- **Water:** These children will do wave movement with their arms.

- **Cover:** These children will hold their arms above their heads.

- **Space:** These children will keep their arms open.

🌱 The purpose of the game is that the bird will collect four different habitat elements by tagging them. When the child that is bird catches the habitat element, s/he will connect their arms and continue to follow other elements together.

🌱 When a group collects all four elements, this group must sit outside the playing field.

🌱 At the end of the first round, the birds that can collect all four elements will survive. If you want to make the game longer, you can add the following details:

- The bird that collects four habitat elements will start reproducing. One of the four habitat elements will go back

Healthy habitat

- Birds
- Habitat elements: Food, water, cover, space





Useful Resources

- Sustainability in 4 minutes: https://www.youtube.com/watch?v=t69P9_v7jrU
- Sustainability: Definition with Simple Natural Science: <https://www.youtube.com/watch?v=eec0UYGleo4>
- Earth Overshoot Day Infographics: <https://www.youtube.com/watch?v=C7W53I9XNgc>
- T-shirt Life Cycle: https://www.youtube.com/watch?v=BiSYoeqb_VY
- The Life Cycle of a Plastic Bottle: <https://ed.ted.com/lessons/what-really-happens-to-the-plastic-you-throw-away-emma-bryce>
- Calculate Your Ecological Footprint: <https://www.footprintcalculator.org/>
- WWF Ecological Footprint Calculator: <https://footprint.wwf.org.uk/>
- The 17 Sustainable Development Goals: <https://sdgs.un.org/goals>
- Ecological Footprint Interactive Map - Detailed Data on Nations' Ecological Resource Use and Biocapacity: <https://data.footprintnetwork.org/#/>
- Population Matters - Current World Population: <https://explore.populationmatters.org/>





Menti Time!



What is an important takeaway you have learned after today's presentation?



Menti Time!



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What is an important takeaway you have learned after today's presentation?

19 responses

School implementations about sustainability

sürdürülebilirlik

About amount of earth people would need if they lived as other countries

Öğrencilerime sürdürülebilirliğin önemiyle ilgili etkinlik hazırlayacağım.

We should change our approach to consumption!

Greenwashing

Biocapacity

Circular economy

Hızlı tüketim hızlı çöküş

Yaşam tarzımıza göre ne kadar dünyaya ihtiyacımız olduğu

Kaynakları bu kadar hızla tükenen dünya için hemen harekete geçmeli

The first time I heard the word greenwash

Öğrencilerime yeşil okul yeşil çevre kavramını kavratmak

karbon ayak izi

We must be aware

European countries consume much

Okullarımızda atıl durumda ki alanları kullanarak veya fiziksel materyaller bulup çocuklarla sağlıklı yiyeceklere kendilerinin ulaşmasını sağlayabiliriz

Kaynakları akıllıca kullanmak zorundayız

Sağlıklı okul projeleri geliştirmek



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Thank You!

