# Environmental Education – Small Actions With Big Impacts



















# **Imperfect Environmentalists**

### The world needs millions of Imperfect Environmentalists!

"We don't need few Perfect Environmentalists, doing everything perfectly, we need millions doing small actions, millions of Imperfect Environmentalists"



"The biggest mistake of all is not doing anything because you think you're doing too little. Do everything you can!"



### **Imperfect Environmentalists**



We don't need to become the most perfect environmentalists in the world, it's not a matter of achieving perfection, of achieving zero waste, it's a matter of making better decisions.



The simple fact that we want to improve is the first steep!

"I can't do all the good the world needs, but the world needs all the good I can do."



# **Imperfect Environmentalists**

#### You don't have to



stop buying completely to reduce excessive consumption



use all food scraps to reduce food waste



Be vegan to reduce consumption of animal products



Stop using a car or plane to reduce your carbon footprint



eliminate all disposable plastic to reduce your trash



be an environmental activist to inspire people around you

# **Sustainable Development Goals**

# SUSTAINABLE GEALS DEVELOPMENT GEALS



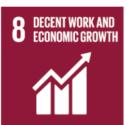




























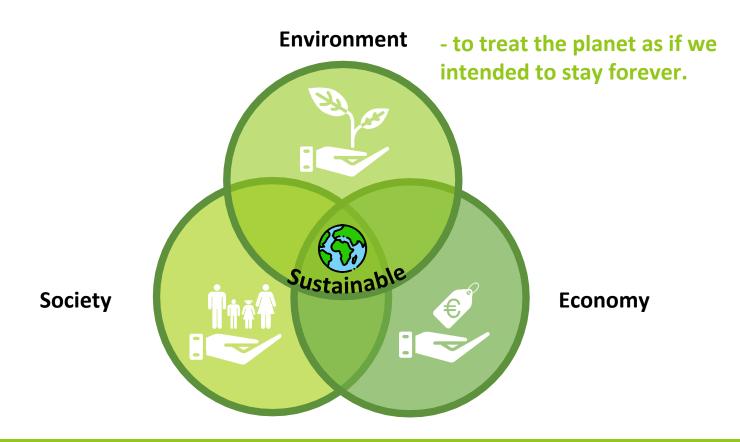






# **Sustainable Development**

Development that meets the needs of the present without compromising the ability of future generations to meet their own needs'. It seeks to reconcile economic development with the protection of social and environmental balance." Brundtland Report, 1987.





### There is no Planet B



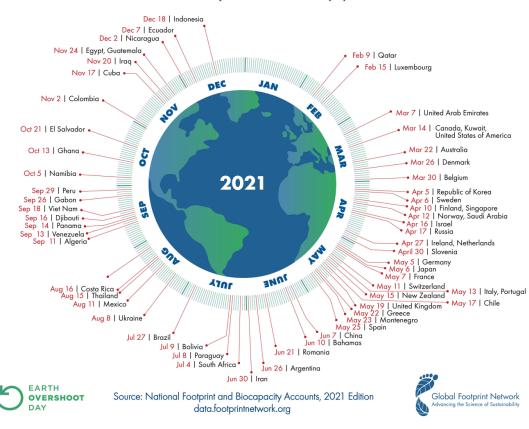
# **Earth Overshoot Day**

**Earth Overshoot Day** marks the date when humanity's demand for ecological resources and services in a given year exceeds what Earth can regenerate in that year.

In 2021, it fell on July 29.

### **Country Overshoot Days 2021**

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







### Move the date

#### The current trend is not our destiny: #MoveTheDate

The past does not necessarily determine our future. Our current choices do. Through wise, forward-looking decisions, we can turn around natural resource consumption trends while improving the quality of life for all people.

While our planet is finite, human possibilities are not. The transformation to a sustainable, carbon-neutral world will succeed if we apply humanity's greatest strengths: foresight, innovation, and care for each other. The good news is that this transformation is not only technologically possible, it is also economically beneficial and our best chance for a prosperous future.

In fact, facilitating this transformation is the best strategy for the long-term success of any organization, including and especially businesses. Learn more about the one-planet prosperity strategic framework in the new e-book by Global Footprint Network and Schneider Electric.

We have identified five key areas that are defining our long-term trends most forcefully. All of them are shaped by our individual and collective choices:

#### #MoveTheDate



#### PLANET

### How we help nature thrive

Humanity's quality of life is dependent on the health of our planet's biological resources including fertile soil, clean water, and clean air necessary for humanity to thrive. Learn More

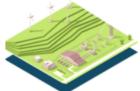
#### CITIES



### How we design and manage cities

Eighty percent of the world population is expected to live in cities by 2050. City planning and urban development strategies are instrumental to balancing the supply of natural capital and population's demand. Learn More

#### ENERGY



#### How we power ourselves

Decarbonizing the economy is our best possible chance to address climate change, and would improve the balance between our Ecological Footprint and the planet's renewable natural resources. Learn More

#### FOOD



#### How we produce, distribute, and consume food

How we meet one of our most basic needs-food-is a powerful way to influence sustainability. Sourcing food locally and avoiding highly processed foods can lower the Ecological Footprint, Learn More

#### POPULATION



#### How many of us there

#### are

Being committed to everyone living secure lives in a world of finite resources requires addressing population growth. Empowering women is essential for global sustainability. Learn More

Source: www.overshootday.org/

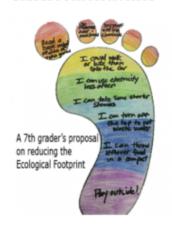


### Move the date



ABOUT BLOG SOLUTIONS 100 DAYS OF POSSIBILITY NEWSROOM FOR KIDS & TEACHERS SUBSCRIBE DONATE

#### Classroom Activities



Footprint Calculator: Measure your own Ecological Footprint with an online Footprint calculator (desktop computer required, available in several languages). The calculator tells you how many Earths would be required if everyone on the planet lived like you, and then suggests ways to reduce your Ecological Footprint. footprintcalculator.org

Footprint Drawing: Suggest ways to reduce your Ecological Footprint in a drawing like the one by the seventh grader at left.

Lesson Plan: What day is Earth Overshoot Day? (appropriate for 6th-12th Grades). The purpose of this activity is to understand the concepts and metrics of Ecological Footprint and biocapacity, and why addressing ecological resource constraints is essential to global sustainability.

Footprint Futures: Global Footprint Network's university-level curriculum, www.footprintnetwork.org/2016/05/01/footprint-futures

Population Conversation: Population is a particularly challenging and sensitive topic, yet its impact is underestimated. If presented well, discussing the population factor can be an empowering and engaging learning opportunity. We created materials for engaging classroom discussions, starting with voices from around the world addressing the question "should we even discuss population?" The voices are complemented with an in-depth essay, which strengthens teachers' background on the topic and

includes a list of questions to stimulate classroom conversations. For the more mathematically inclined, we produced a downloadable population cohort calculator sheet to project population change.

Tasty Leftovers: Create a sandwich with leftovers. If you are in Italy, take a picture and win: foodrightnow.it/la-tua-ricetta-contro-lo-spreco

Create your own activity: Email us at socialmedia@footprintnetwork.org to tell us what you will do about your Ecological Footprint.

#### Additional Resources

Footprint Futures, a university-level curriculum for exploring the sustainability challenge facing human economies, from Global Footprint Network.

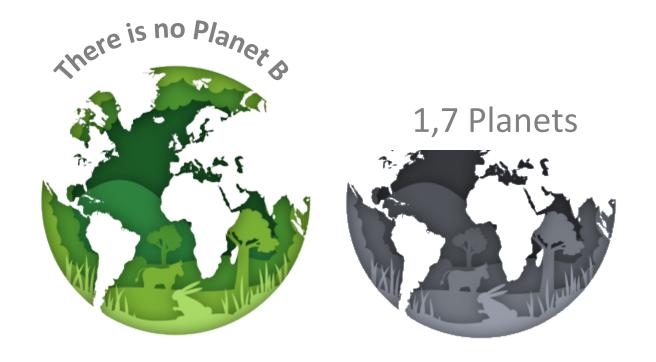
A hands-on, inquiry-based, curriculum for year 9 or year 10 students on global warming and renewable energy from the Australian Academy of Technological Sciences and Engineering.



### There is no Planet B

Worldwide, we use the equivalent resources of 1.7 planets.

If everyone lived like the Portuguese, 2.8 Earth planets would be needed.



Cultivating Futures

# **Ecological Footprint**

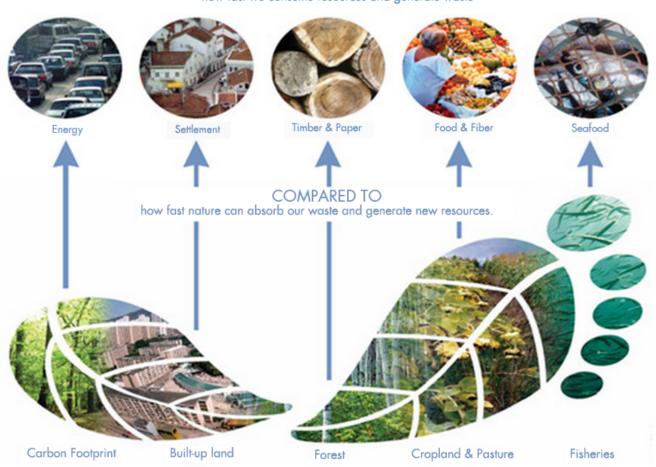


# **Ecological Footprint and Carbon Footprint**

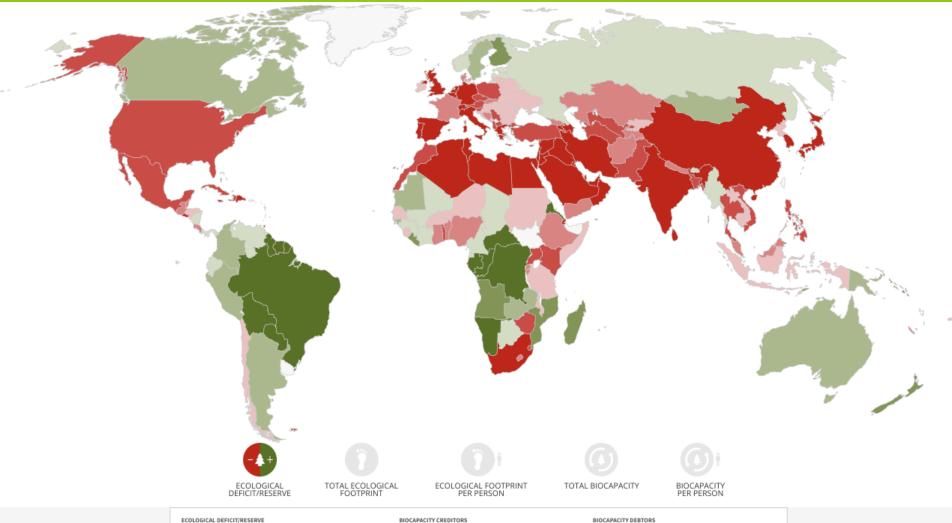
### The Ecological Footprint

MEASURES

how fast we consume resources and generate waste



# **Ecological Footprint**



#### ECOLOGICAL DEFICIT/RESERVE

An ecological deficit occurs when the <u>Ecological Footprint</u> of a population exceeds the <u>bicognactive</u> of the area available to that population. A national ecological deficit means that the nation is importing bicoapacity through trade, liquidating national ecological

#### BIOCAPACITY CREDITORS BIOCAPACITY GREATER THAN FOOTPRINT









#### FOOTPRINT GREATER THAN BIOCAPACITY



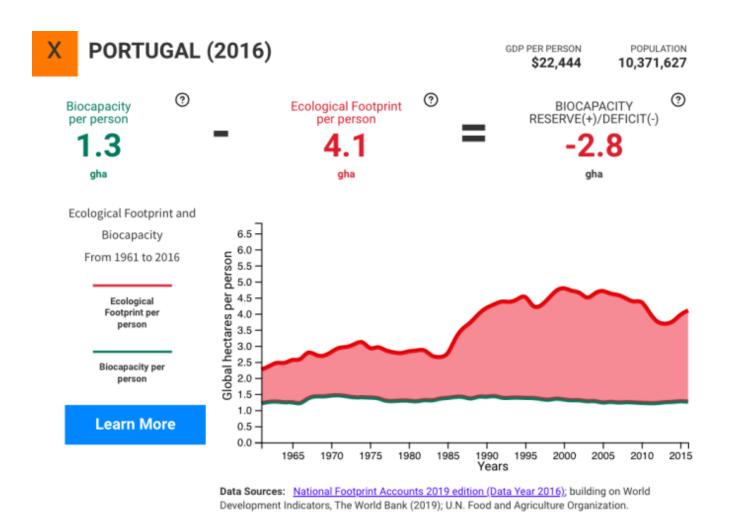








# **Ecological Footprint**



Global footprint network - <a href="http://data.footprintnetwork.org/#/">http://data.footprintnetwork.org/#/</a>

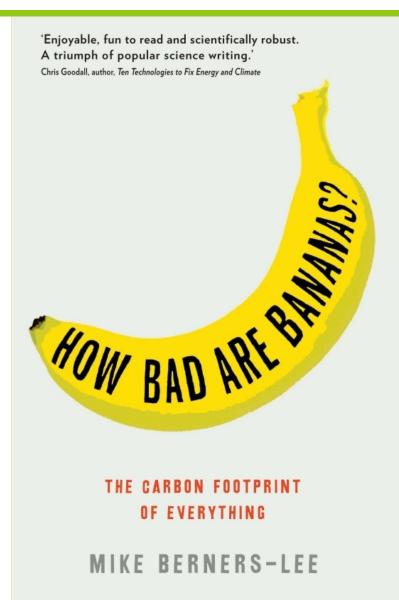


# **Ecological Footprint and Carbon Footprint**

The carbon footprint refers to the amount of carbon dioxide (CO<sup>2</sup>) emissions produced.

Book "How Bad Are Bananas?: The Carbon Footprint of Everything" by Mike Berners-Lee.







### There is no Planet B

If the global population reaches the expected 9.6 billion by 2050, it will take nearly 3 Earth planets to provide the natural resources needed to sustain current lifestyles. - **United Nations** 







# **Anthropocentrism**

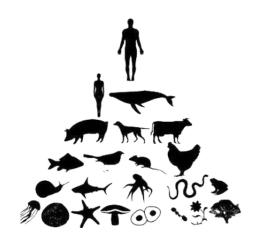


"Human beings are superior to all other creatures.

Nature was created for humanity to use and explore"

- "The Ecology Book"







**EGO** 

**ECO** 

### There is no Planet B

Something to think about!

The Earth is 4.6 billion years old. Let's scale that to 46 years.

We have been here 4 hours. Our industrial Revolution began 1 minute ago. In that time, we have destroyed more that 50% of the world's forests.

This isn't sustainable!





### **Linear Economy**







**Transport** 



Consumption



"Trash"











"Throw it away"

It does not exist!



**Climate Change** 

Carbon dioxide Methane Other GHG



**Incineration** 



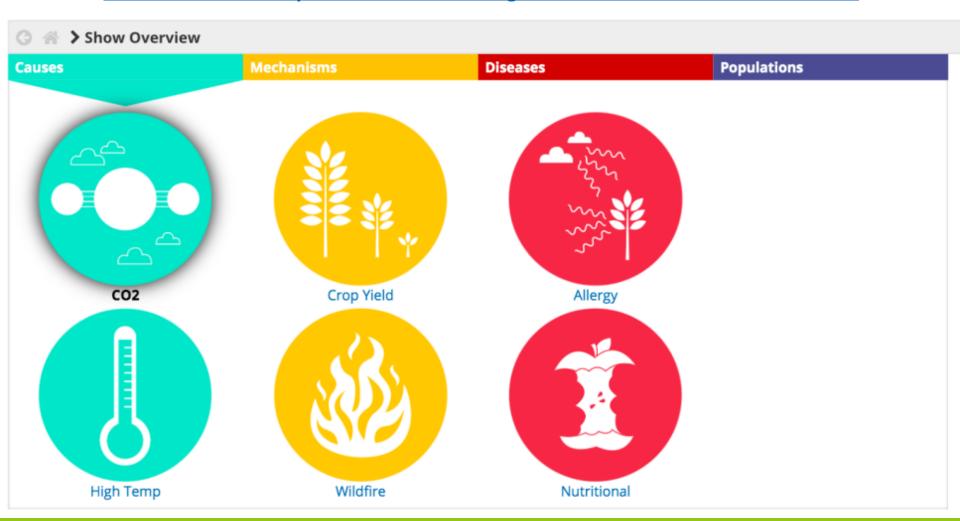
What causes Global Warming - <a href="https://climate.nasa.gov/causes/">https://climate.nasa.gov/causes/</a>





### What is the impact of climate change?

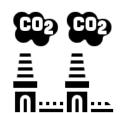
Simulator of the impacts of climate change and how is it all interconnected?











Climate change with Bill Nye
 https://www.youtube.com/watch?v=e0u-mespWnQ

Our planet, our future - Fighting climate change together (in English and other languages)

https://op.europa.eu/en/publication-detail/-/publication/6af369ed-6221-11e8-ab9c-01aa75ed71a1/language-en



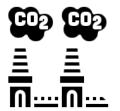
• Bringing Climate Topics into your Classroom <a href="https://cleanet.org/clean/literacy/climate/index.html">https://cleanet.org/clean/literacy/climate/index.html</a>



• Facts and myths about climate change, WWF <a href="https://www.wwf.org.uk/updates/10-myths-about-climate-change">https://www.wwf.org.uk/updates/10-myths-about-climate-change</a>



- Lesson Plans: <u>Air | Climate</u>
   <u>Change | Ecosystems | Energy | Health | Waste | Water</u>
- <a href="https://www.epa.gov/students/lesson-plans-teacher-guides-and-online-environmental-resources-educators">https://www.epa.gov/students/lesson-plans-teacher-guides-and-online-environmental-resources-educators</a>



- Environmental literacy teacher guides
- https://www.nationalgeographic.org/education/programs/environment al-literacy-guides/





# **Everything is Transformed**



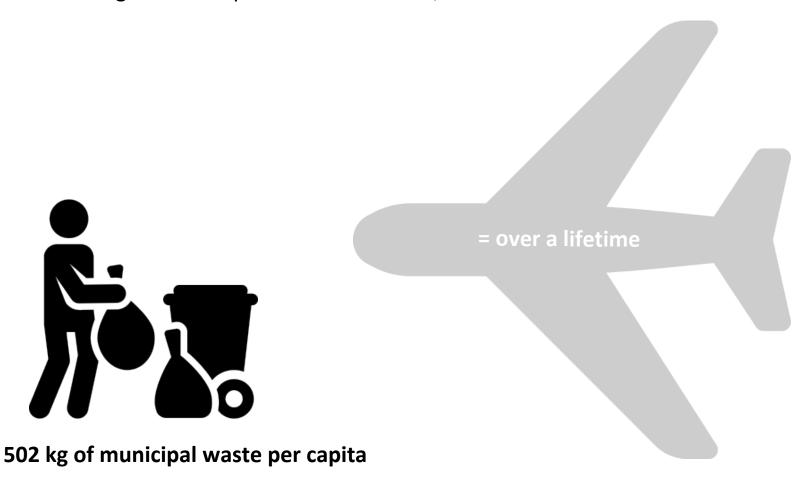
"In Nature nothing is lost, nothing is created, everything is transformed" - Antoine Lavoisier





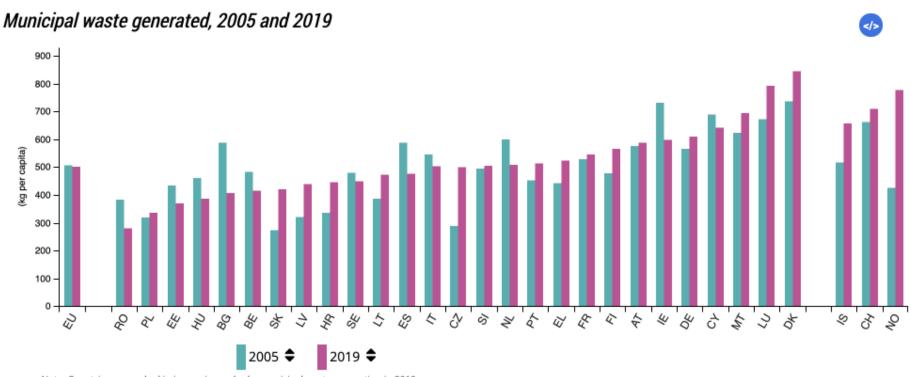
### **Waste Produced**

• 502 kg of municipal waste per capita were generated in the EU in 2019 - equivalent to the weight of an airplane over a lifetime;



**Source:** Eurostat

### **Waste Produced**



Note: Countries are ranked in increasing order by municipal waste generation in 2019.

EU-27 estimated.

Bulgaria, Ireland, United Kingdom - 2018 data; Iceland - 2017 data.

Source: Eurostat (online data code: env\_wasmun)

eurostat O

**Source:** Eurostat

### **Linear Economy vs Circular**



Source: European Parlament



# Circular Economy – resources

"The story of stuff" <a href="https://storyofstuff.org/movies/">https://storyofstuff.org/movies/</a>

Circular Classroom <a href="https://circularclassroom.com/">https://circularclassroom.com/</a>

Ellen Macarthur Foundation -

https://www.ellenmacarthurfoundation.org/circular-economy/concept



# The R's of Sustainability



For a more Sustainable Planet



### Rethink

### **Rethink - consumption habits and attitudes**

Being here already means a lot ©



### Some common habits that are dangerous for the Environment:

- Cigarette butts on the floor;
- Cotton Swabs flushed down the toilet;
- Are part of the objects most found in our beaches.



### Respect



"We must only demand that which each individual can give" - The little prince



"Be the change you wish to see in the world."

Mahatma Gandhi



**Nature** 



Community

in ecological transition

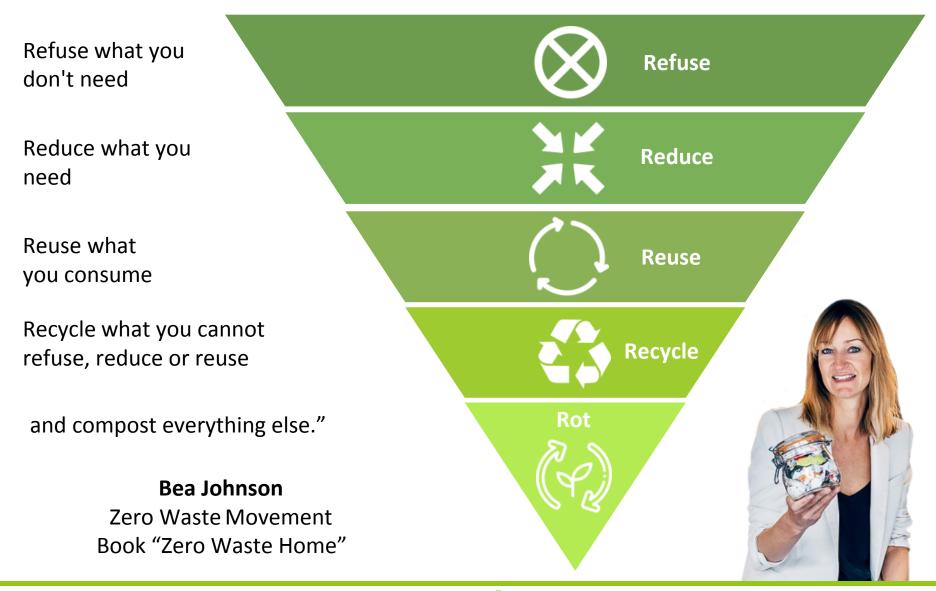
Each person does what they can and each action counts!



Do not impose, judge or criticize!
Inform and inspire ©

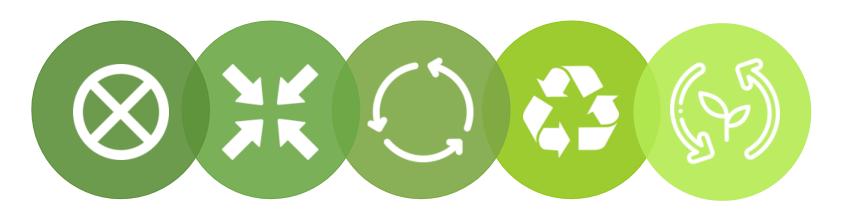


# The R's of Sustainability





# The R's of Sustainability



### Refuse

what is not essential and has an environmental impact

#### Reduce

consumption (of Resources) and the waste;

### Reuse

(Or repair) everything that is possible

### Recycle

what is no longer useful

#### Rot

(composting), a natural way of recycle

**Towards a More Sustainable Planet** 

Each person does what they can. Every action counts!



# Methodology

**Failed methodology, frequent in the media** – based on terror and without providing practical solutions;

Successful methodology we should apply – based on practical solutions, less theory and more action. Not to impose but to inform.



Why humans are so bad at thinking about climate change



### Reinform



All together fighting for a common house! Our home, our future!



# The Teachers Key Role

"Young people are the future of our planet. We must equip them with the information, insight and practical skills to understand the importance of biodiversity - both intrinsically and for the survival of humanity. Educators have a key role to play in preparing young people for the challenges that lie ahead. There can be no greater legacy than giving young people the tools they need to save our planet."



- Sir David Attenborough



#### **Documentaries:**

- Blue Planet II
- Our Planet
- Planet Earth



## There is no Planet B

"We don't inherit the Earth from our parents, we borrow it from our children."
- Lakota



"Not only leave a better planet for my children, but better children for the planet." - Ecologic Poem



#### There is no Planet B

"No one will protect what **they** don't care about; and no one will care about what they have never experienced." People are the key to nature's recovery. We need nature yet we are increasingly disconnected from our natural environment.

- David Attenborough

"In the end, we will conserve only what we love; we will love only what we understand and we will understand only what we are taught"

- Baba Dioum

"The world changes with your example, not your opinion."

- Paulo Coelho





#### Revolutionize

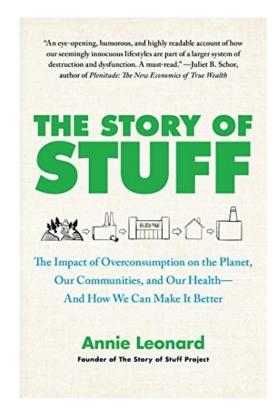


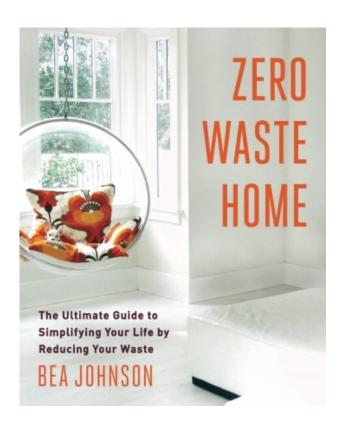
Let's fight for a better planet, always setting an example and inspiring others to do better too.

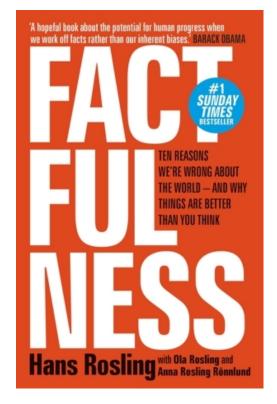
Ask companies and competent authorities to improve environmental practices and policies in favor of a more sustainable Planet. Don't forget the 1st R – Respect, make constructive criticisms with a problem-solution approach.



#### **Books Recommendation**









# The R's of Sustainability



**Towards a More Sustainable Planet** 



# How much trash we produce?



## Refuse

#### We must learn to say "no thank you", always with kindness ©

Printed invoices → by email

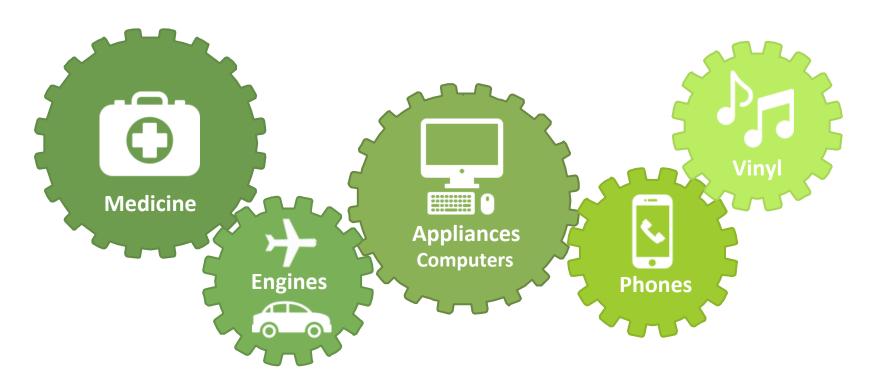


Cultivating Futures

# Life in Plastic, it's Fantastic?

Plastic is not our biggest enemy. The real problem is how quickly we consume and dispose of such a durable material that crosses space and time.

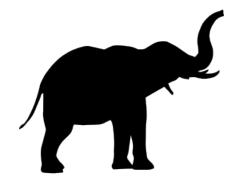
Plastic allowed great advances:



lighter components = savings on fossil fuels



# **History of Plastic**



Plastic emerged for a noble cause, replacing materials of animal origin in personal and decorative utensils.

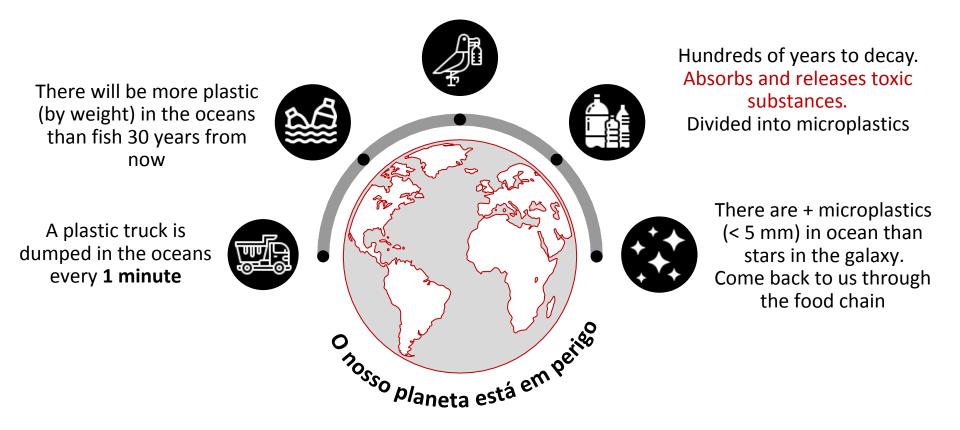


The first plastic bag was invented to save the planet, not destroy it! Since they were made of a strong material, unlike paper bags, in theory they could be used over and over again. However, the story took a different direction, the disposable...

#### The Platic Problem



1 million birds and 100000 marine animals die from plastic consumption every year



Source: Ellen Macarthur, Ocean Crusaders, X-ray da poluição por plástico, Plasticus Maritimus.

# Plasticus Maritimus: An Invasive Species



Book "Plasticus maritimus, an Invasive Species"



# **Plastic Islands**



Source: <u>5gyres institute</u>, <u>Iberdrola</u>

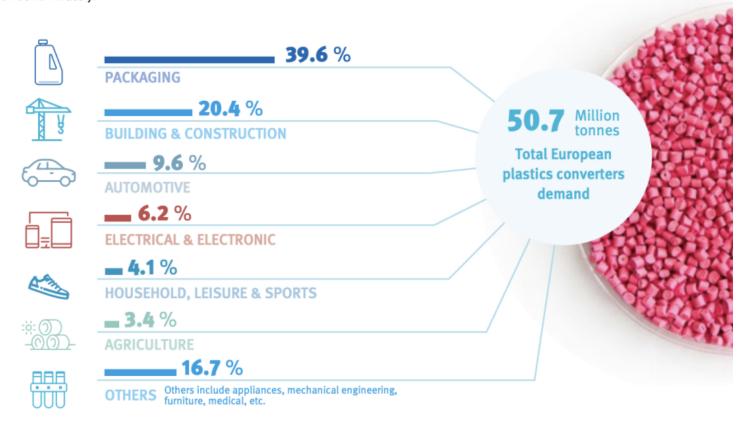
Cultivating Futures

## Where do we use so much Plastic?

#### PLASTICS DEMAND BY SEGMENT 2019

Distribution of European (EU28+NO/CH) plastics converters demand by segment in 2019. Packaging and building & construction by far represent the largest end-use markets. The third biggest end-use market is the automotive industry.

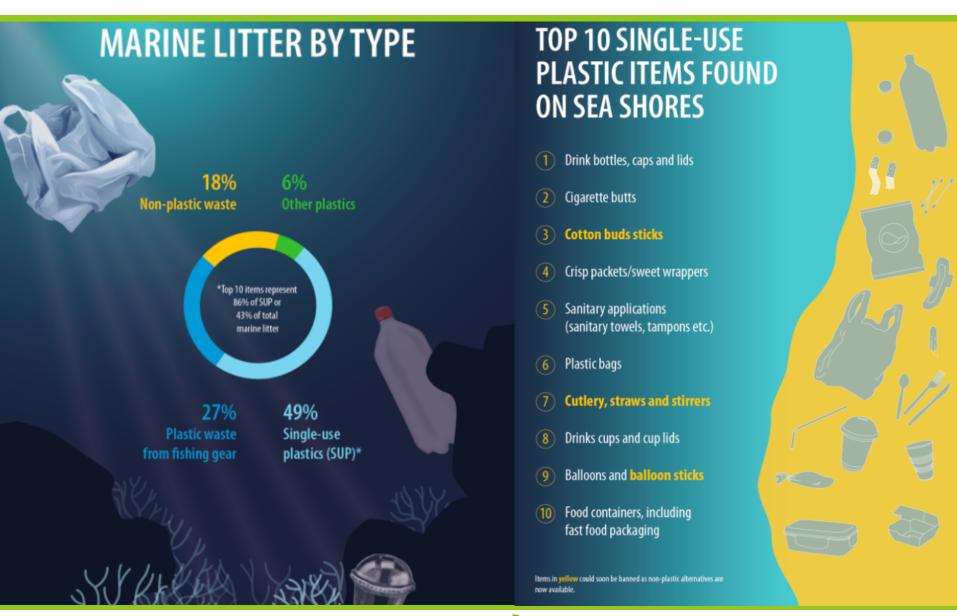
SOURCE: PlasticsEurope Market Research Group (PEMRG) and Conversio Market & Strategy GmbH





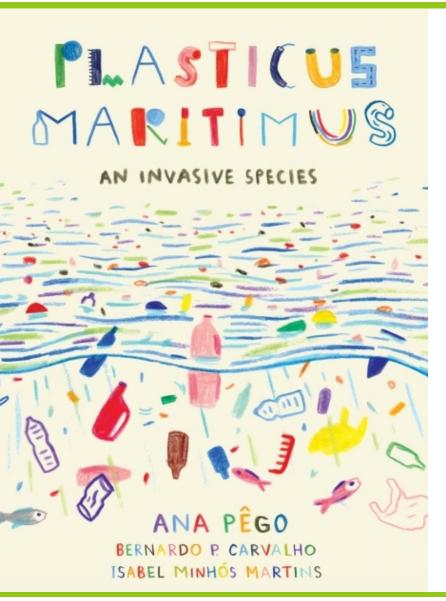
**Source:** Plastic Europe

## Where does so much litter come from?



Source: Parlamento Europeu Cultivating Futures

# Plasticus Maritimus: An Invasive Species



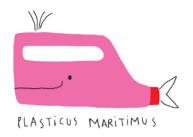


#### **Book Recommendation**

#### **Plasticus maritimus**: Na Invasive Species

- Ana Pêgo (Marine biologist).

"Plasticus maritimus is the "scientific name" of an "exotic marine species" that has proliferated in all the oceans and beaches of the world. It is an "invasive species", well adapted to all environments, which represents a great threat to native biological communities and, consequently, to Man."



Logótipo do projeto Plasticus maritimus



# **Challenge – Seeds of Change**



## The Butt Hike



A project created by the German Andreas, also known as The Trash Traveler. With a community of 600 people and 70 initiatives, they collected 1.1 million cigarette butts in 2 months along the Portuguese coast.





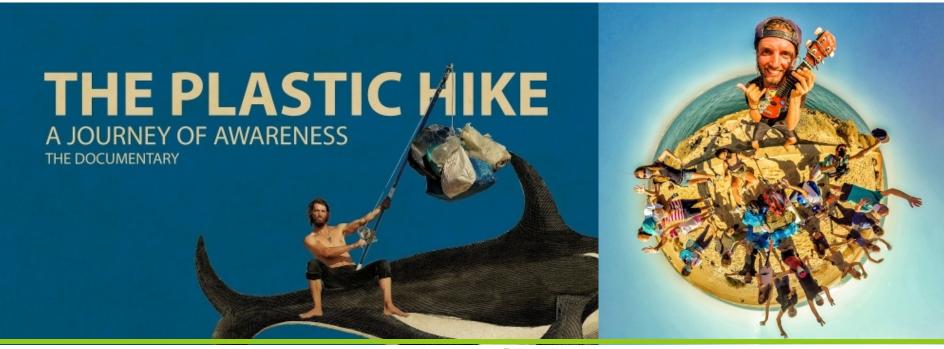
# **The Butt Hike**



## The Plastic Hike

In 2020, The Trash Traveler traveled the Portuguese coast in 58 days to raise awareness about plastic pollution. 1.6 tons of plastic were collected. It's not just about cleaning but a movement to raise awareness. It resulted in a documentary (from Camera With No Name) and several pieces of art were developed with the collected plastic.

# THE PLASTIC HIKE DOCUMENTARY



Cultivating Futures

# **Autonomous Activity - Seeds of Change**

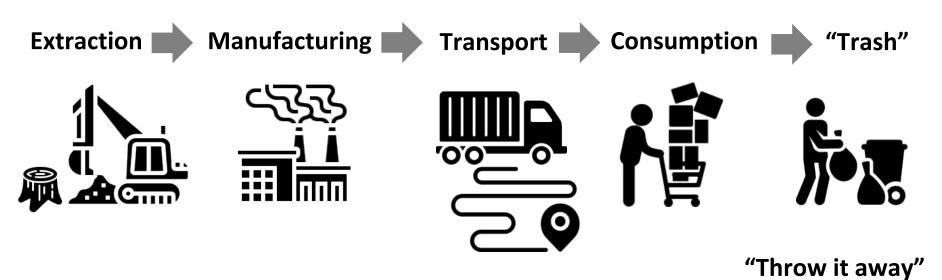
☐ Leave the place better than you found it ⑤

During the afternoon you should do a small action and spread seeds of change to leave the place better than you found it!

- Take a photo "Before" and "After" the small action with big impact!
- What can we do to prevent the problem identified in "before"?
- Share it in the WhatsApp Group <sup>(2)</sup>
- Let's spread seeds of change!



# **Disposable Society**



It does not exist!

It does not exist!



Half of the plastic manufactured to date was generated in the last 15 years;

406 million tons of plastic are produced per year;

40% of the plastic is used only once and then thrown away.

# Is recycling the solution?



"We can have an idea that a plastic package placed in the recycling bin will transform, as if by magic, into a new plastic package, without any environmental cost. But that's not quite the case: recycling is not melting plastic out of a package and making a new package out of it. First, recycling always involves the consumption of some water and energy; second, plastic is not recyclable to infinity, as it loses properties each time it is recycled."



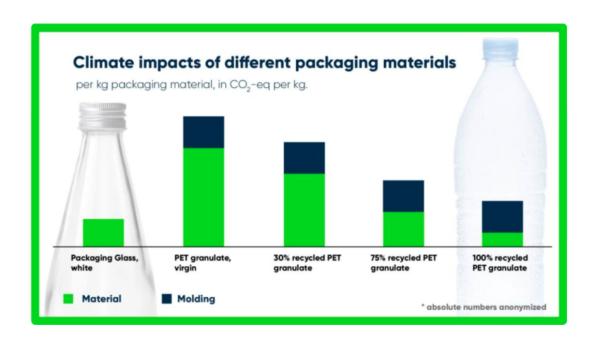
- Plasticus maritimus, Ana Pêgo

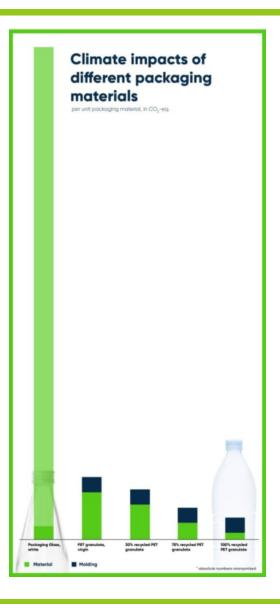


# Is replacing plastic the solution?

Plastic vs Glass - considering recycling rates, initially we can conclude that glass has less impact but glass packaging can weigh up to 40x more than plastic packaging → impact on transport and consequent emissions.

Taking into account CO<sub>2</sub> equivalent for global warming



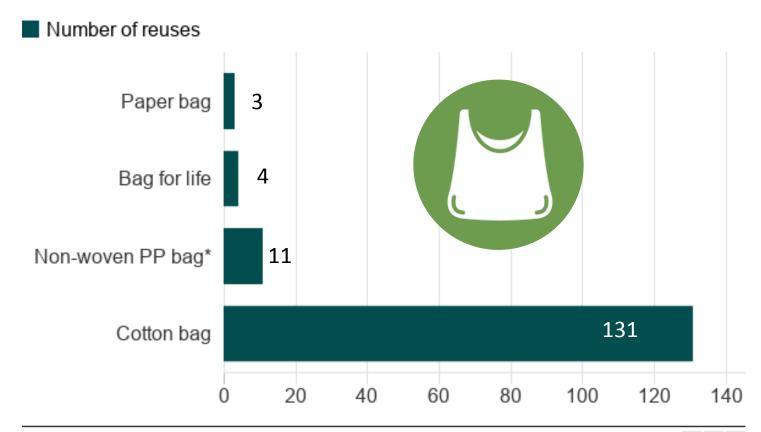




Source: Ecochain

# Is replacing plastic the solution?

How many times is it necessary to reuse each type of bag to make it more environmentally sustainable than a plastic bag?



Source: Environment Agency (\* Non-woven PP is described as a heavier more durable bag made from polypropylene)



Source: BBC e Environment Agency

# Is replacing plastic the solution?

How many times is it necessary to reuse each type of bag to make it more environmentally sustainable than a plastic bag?

Type of carrier	HDPE bag (No secondary reuse)	HDPE bag (40.3% reused as bin liners)	HDPE bag (100% reused as bin liners)	HDPE bag (Used 3 times)
Paper bag	3	4	7	9
LDPE bag	4	5	9	12
Non-woven PP bag	11	14	26	33
Cotton bag	131	173	327	393

If we reuse the plastic bag for "the garbage can" these values are even higher!

But it's also important to consider the impact if you end up in nature!

If forests are managed in a sustainable way, with correct FSC or PEFC certification, it is a positive factor for paper bags.

Source: BBC e Environment Agency



# **Refuse Disposables** → **Reuse**

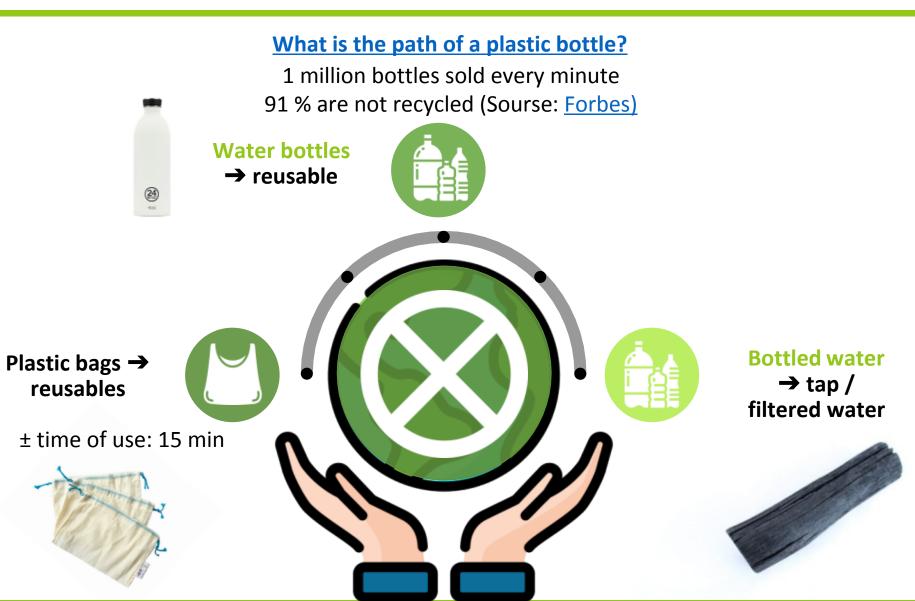
#### Replace with reusables - Next R (Reuse)



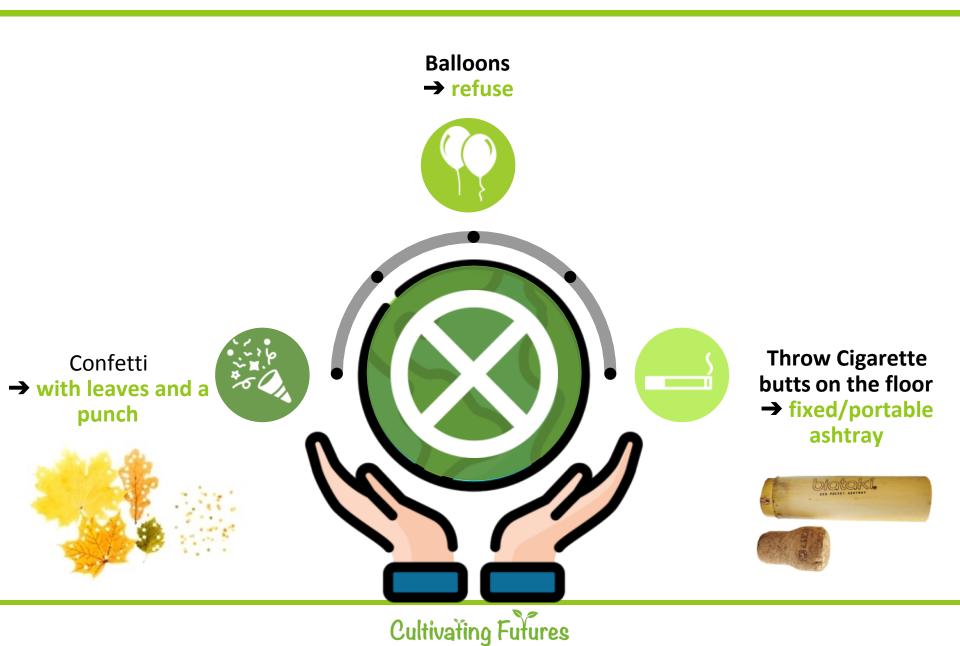
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#### **Products unnecessarily wrapped in plastic**

**Vegetables and Fruits wrapped** 

→ without packaging

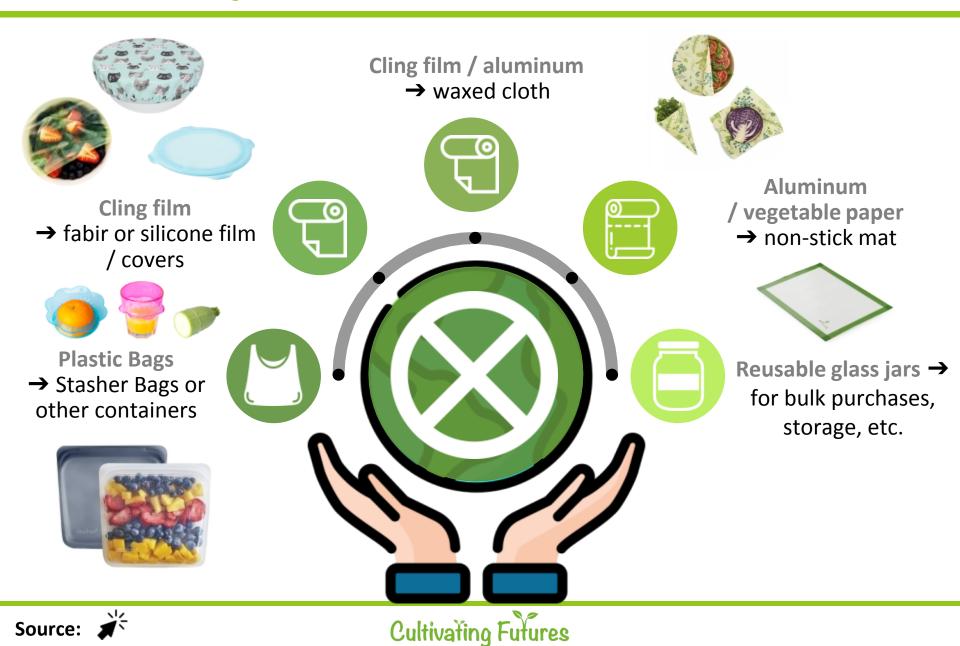




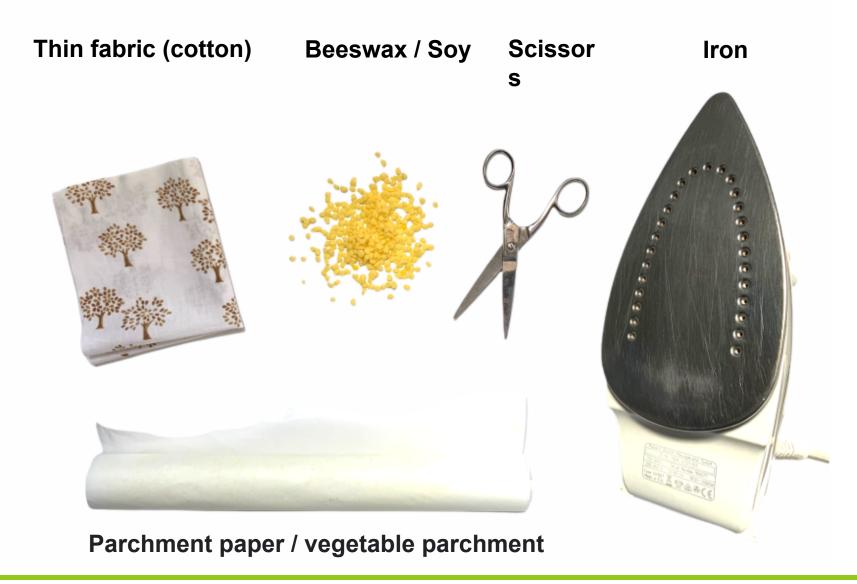


Source:

Cultivating Futures



## Waxed Cloth - We will Need...



## Waxed cloth - How to make?

Cut the thin fabric (cotton) to the desired size



#### Waxed cloth - How to make?

Place the cloth on a sheet of parchment paper.

Cover the cloth with wax (or grate a natural wax candle)



# Waxed cloth - How to make?

Cover with another sheet of parchment paper.



"Iron it"



After letting it dry, it's ready to use :)



After letting it dry, it's ready to use :)



After letting it dry, it's ready to use :)



After letting it dry, it's ready to use :)



Other options: They can also be placed in the oven for the wax to melt and spread it with a brush;



## **Ecological Utensils**



## **Ecological Utensils**



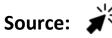


Plastic dish brush
→ compostable at home

### Plastic dish brush

→ compostable at home



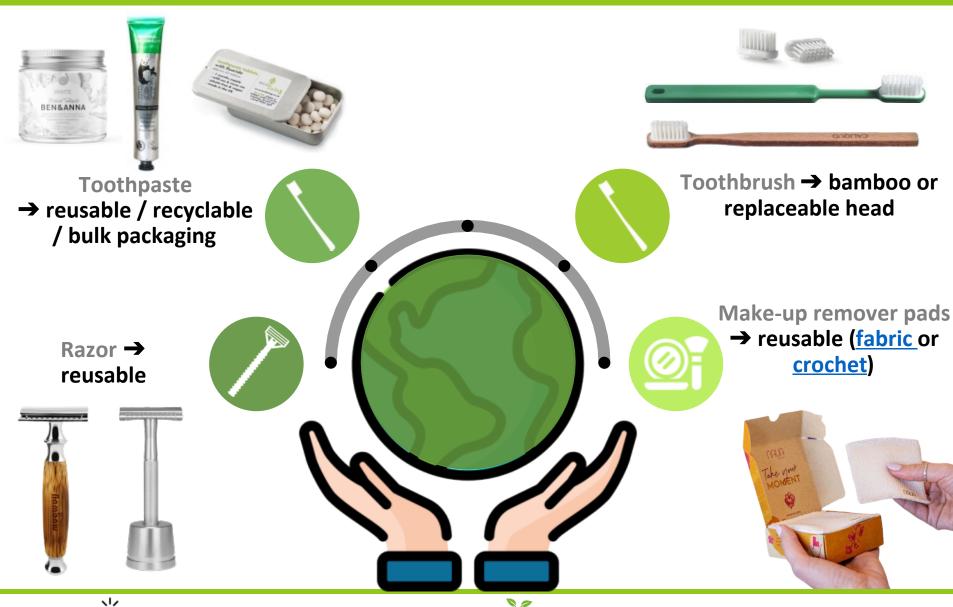




## **Bathroom**



## **Bathroom**



Source:

Cultivating Futures

### **Bathroom**



### **Menstrual Products**

In 2017, in Europe, around 49 billion disposable menstrual products were used, generating 590,000 tons of waste.

Considering that 1 year produces, on average, 5.3 Kg of CO2eq. The annual average of 46 billion menstrual products in Europe is equivalent to 245,000 tons of CO2eq.

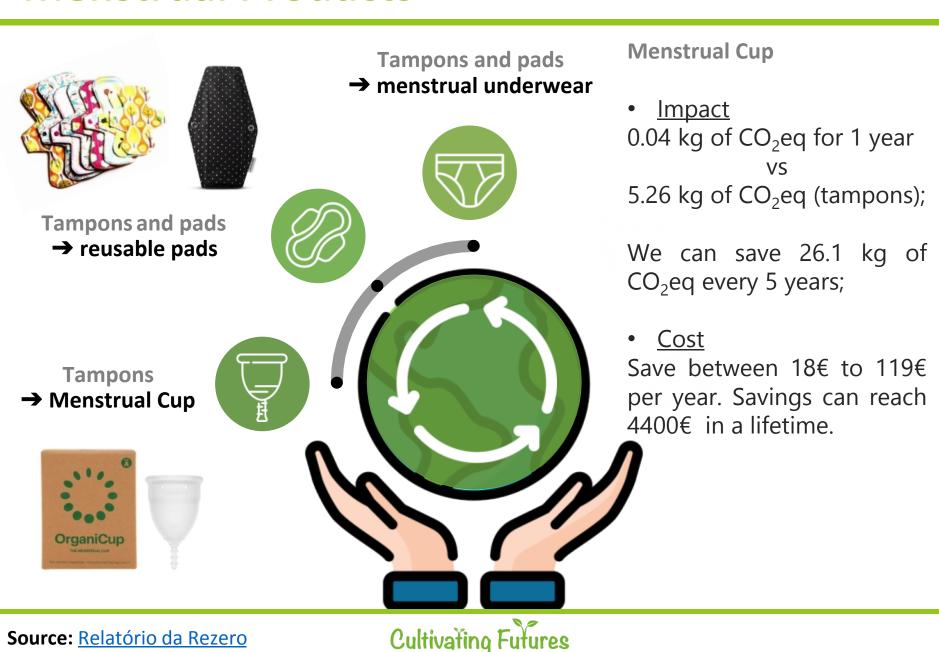
- Rezero



Source: Rezero



### **Menstrual Products**



## **Disposable Diapers and Wipes**

In 2017, in Europe, around:

- 33 billion disposable diapers, resulting in 673,100 tons of garbage;
- 68 billion disposable wipes, equivalent to 511,000 tons of garbage;

Can represent a savings of €200 to €2000 per family (This value increases if it is more than one child or purchased second hand).







Landfill

- Rezero



Source: Rezero Cultivating Futures

## **Disposable Diapers and Wipes**

Disposable diapers → reusable

Portuguese article about reusable diapers





**Baby wipes** 

→ reusable







**Bordalo II** - Nature portraits made with what destroys it the most.

He turns "trash" into art, making large animals installations across city walls with ecological and social messages, an alert to what we are doing to our planet!

https://www.rtp.pt/play/p55/e359017/minuto-verde

https://www.youtube.com/watch?v=2hrli0Pvbjg



**Xico Gaivota** - transforms plastics and other materials from remote beaches into works of art.

Let's make Art with plastic we usually throw away or we find it in the garbage / nature?

https://www.xicogaivota.com/

https://www.youtube.com/watch?time\_continue=1&v=Ou3vG7Dy3w8&feature=emb\_logo





**Extraordinary garbage** - documentary that tells how the artist Vik Muniz found inspiration in the largest garbage dump in the world – the gramacho garden, in Rio de Janeiro.

https://www.youtube.com/watch?v=\_pyR9qCd2F8&





Source: Plasticus maritimus, <a href="https://www.facebook.com/plasticusmaritimus/">https://www.facebook.com/plasticusmaritimus/</a> Cultivating Futures

### The sea starts here!





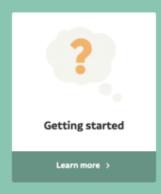
Tve got 583 billion outside'

**Source:** <u>1</u> e <u>2</u>

# **Plastic Free July**

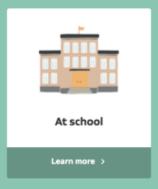
#### What are you here for?

Plastic Free July is full of ideas - click here to reveal the options that suit you

















Plastic Free July - <a href="https://www.plasticfreejuly.org/">https://www.plasticfreejuly.org/</a>





Can we make Art with plastic that we usually throw away or find in a cleanup?

Let's explain why animals eat plastic?

To a turtle, a plastic bag looks like a jellyfish, its food.

Source: schools.stopwaste.org, @Zerowasteclassroom





# Can we identify what is good or bad for the Earth?

Choose some impactful data and let your students' imagination run wild by making creative posters to share this information with the rest of the educational community.

Also mention what people can do to change the situation. We don't just want to talk about the problems that exist, we want to share solutions and inspire a more sustainable future ©

Source: <a href="https://alunoon.com.br/infantil/">https://alunoon.com.br/infantil/</a>

In a math class, students counted the number of disposable plastics they had in their lunch boxes. Teachers demonstrated ways to reduce this plastic.

They counted again a few months later and found a 26% reduction in disposable plastics across the school.

**Source:** Plastic Free July

https://www.plasticfreejuly.or g/get-involved/what-you-cando/for-teachers/

## 9 WAYS TO REDUCE PLASTIC IN YOUR SCHOOL



Hold an educational film screening or talk



Organise school, park, river and beach cleans



Stop selling plastic bottles, encourage reusables instead



Encourage less plastic in packed lunches



Choose reusables for the canteen and school events



Request that supplier deliveries are plastic-free



Rethink catering options to eliminate single-use plastic



Ditch the laminator, choose plastic-free displays



Share your successes, to inspire other schools too

#LessPlastic













MARLISCO the educational material "Know Feel Act! To Stop Marine Litter" <a href="https://www.marlisco.eu/education.en.html">https://www.marlisco.eu/education.en.html</a>

"Plastic Pollution curriculum and Activity Guide" <a href="https://seagrant.psu.edu/section/curriculum">https://seagrant.psu.edu/section/curriculum</a>

Waste-free activity ideas for schools <a href="https://www.ukonserve.com/Articles.asp?ID=251">https://www.ukonserve.com/Articles.asp?ID=251</a>

"Doing the 4Rs A Classroom Activity Guide to Teach Reduce, Reuse, Recycle and Rot" (Inglês) - <a href="http://www.stopwaste.org/resource/doing-4rs-classroom-activity-guide-teach-reduce-reuse-recycle-and-rot">http://www.stopwaste.org/resource/doing-4rs-classroom-activity-guide-teach-reduce-reuse-recycle-and-rot</a>



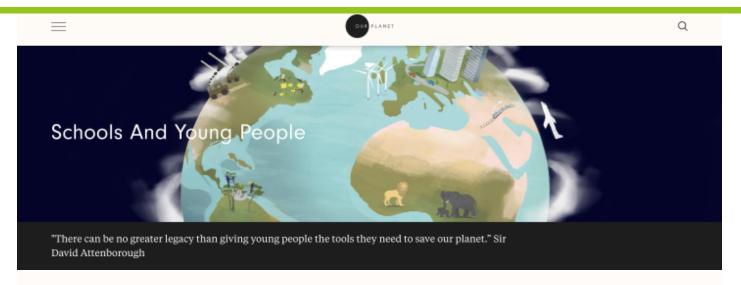








## **Resources For Schools And Young People**

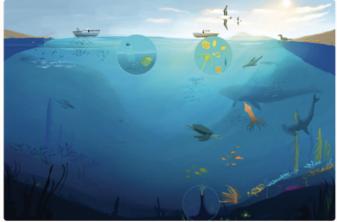


#### Resources For Schools And Young People



Our Planet, Their Future

A guide for educators, youth workers and parents.



**Classroom Resources** 

Free Primary and Secondary WWF resources for your region.



## **Resources For Schools And Young People**



#### Youth Voices for Our Planet

Inspiring perspectives from young global changemakers.



#### Wild Wisdom Quiz

Exploring Our Planet - India's only national-level wildlife guiz goes global.



#### **Our Planet Live**

Connect live to experts and classrooms worldwide via Skype in the Classroom.



#### Seek for Our Planet

Discover nature all around with our free wildlife ID app created by iNaturalist.



## **Resources For Schools And Young People**



A Toolkit for Local Action on Biodiversity



**Educational Screening Pack** 



**Our Planet Children's Book** 

The official children's companion to the series, written by Matt Whyman and Printable worksheets and visual resources for schools and families. WWF, with a foreword by David Attenborough and illustrations by Richard Jones.



Children's Book Resource Pack



### **Documentaries**

A plastic Ocean

https://www.youtube.com/watch?v=yG-2HZNtdR8&feature=emb\_title

The story of plastic <a href="https://www.storyofplastic.org/">https://www.storyofplastic.org/</a>

Trashed - Where does our trash go

https://www.youtube.com/watch?v=5z2s\_klZkFg











### **Videos**

"Sources and Impacts of Marine Litter" <a href="https://www.youtube.com/watch?v=017bBeXhYz4">https://www.youtube.com/watch?v=017bBeXhYz4</a>

"What really happens to the plastic you throw away?" <a href="https://www.youtube.com/watch?v=\_6xlNyWPpB8">https://www.youtube.com/watch?v=\_6xlNyWPpB8</a>

"Plastic Pollution: How Humans are Turning the World to Plastic?" <a href="https://www.youtube.com/watch?v=RS7IzU2VJIQ&t=263s">https://www.youtube.com/watch?v=RS7IzU2VJIQ&t=263s</a>

"Break-up with disposable Plastics" https://www.youtube.com/watch?v=ps5GcHkQNeQ











## **Books and Infographics**

Infographics - <a href="https://www.lessplastic.org.uk/infographics/">https://www.lessplastic.org.uk/infographics/</a>

Plastic Atlas Facts and figures about the world of synthetic polymers (free) <a href="https://www.boell.de/en/2019/11/05/plasticatlas?dimension1=ds">https://www.boell.de/en/2019/11/05/plasticatlas?dimension1=ds</a> plastic atlas

Activities Book - Plastic in the Ocean (Jigajoga Edições) - (Portuguese and English)

Plasticus maritimus: An Invasive Species, Ana Pêgo











## Reports

SINGLE-USE PLASTICS A Roadmap for Sustainability – United Nations <a href="https://wedocs.unep.org/bitstream/handle/20.500.11822/25496/singleUsePlastic\_sustainability.pdf">https://wedocs.unep.org/bitstream/handle/20.500.11822/25496/singleUsePlastic\_sustainability.pdf</a>

Our world in data plastic pollution - <a href="https://ourworldindata.org/plastic-pollution">https://ourworldindata.org/plastic-pollution</a>

"Single use plastics and the marine environment" - Seas At Risk <a href="https://seas-at-risk.org/17-marine-litter/801-how-to-cut-ocean-plastic-pollution-start-with-these-billions-of-bottles-straws-and-coffee-cups.html">https://seas-at-risk.org/17-marine-litter/801-how-to-cut-ocean-plastic-pollution-start-with-these-billions-of-bottles-straws-and-coffee-cups.html</a>







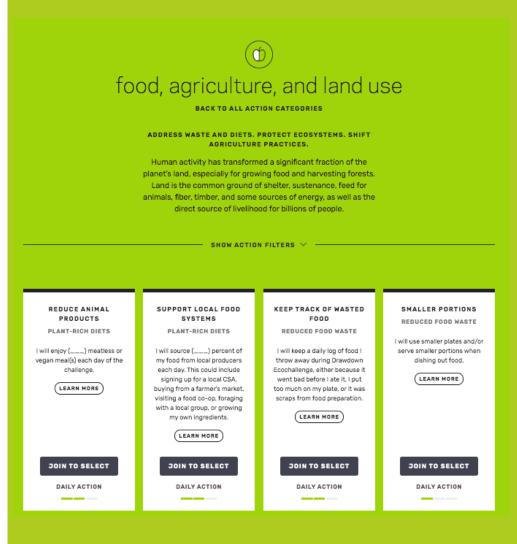




## **Drawdown Ecochallenge**

drawdown ecochallenge

TEAMS V PARTICIPANTS ABOUT V action categories (0) action track: justice for the food, agriculture, and land electricity whole community 921 PARTICIPANTS 709 PARTICIPANTS transportation industry buildings 242 PARTICIPANTS

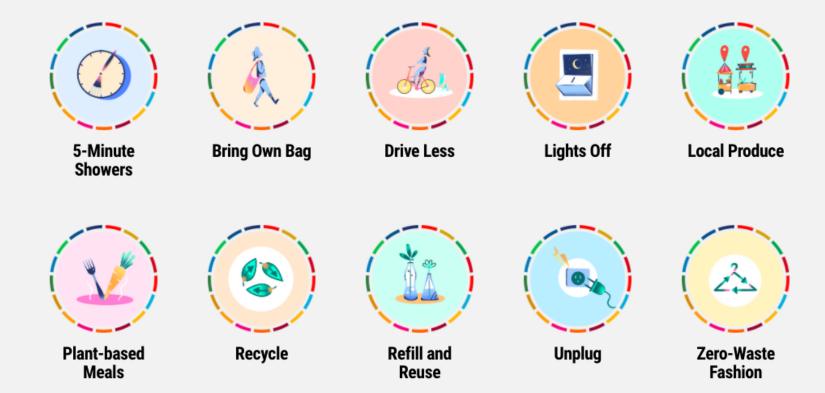


**Source:** <a href="https://drawdown.ecochallenge.org/challenges">https://drawdown.ecochallenge.org/challenges</a>

### **Act Now - United Nations**

### Start with ten simple actions!

We can all live sustainably and help build a better world for everyone. But this means taking a look at how we live and understanding how our lifestyle choices impact the world around us. We make hundreds of thousands of decisions during the course of our lives. The choices we make and the lifestyles we live have a profound impact on our planet.



Source: <a href="https://www.un.org/en/actnow/">https://www.un.org/en/actnow/</a>

### **Act Now - United Nations**

### **Mobile App**



#### Learn more, track your habits and see your impact

Make the shift to a more sustainable lifestyle. The mobile app by AWorld – because there is no planet B – allows you to choose and track a set of sustainable habits, and see the impact you are making in terms of CO2, water and electricity saved. You can also take educational journeys, engage in group challenges, get tips and take quizzes, all geared toward living more sustainably.

DOWNLOAD FROM THE APP STORE!

### **Chat Bot**



#### Looking for just ten simple actions you can take every day?

Ask the ActNow chat bot on the bottom right corner of this page. The bot recommends daily actions to reduce our carbon footprints – like traveling more sustainably, saving energy or eating more plant-based meals. By logging your personal actions on the bot, you contribute to the global count above, adding to the power of collective action. The more people act, the bigger the impact. #ActNow.

Source: <a href="https://www.un.org/en/actnow/">https://www.un.org/en/actnow/</a>

□ Audit to our garbage can – what do we throw "away"?;
 □ Refuse - "Don't need, thank you © " always with kindness;
 □ Stick a "No publicity here" sticker to your mailbox;
 □ Choose electronic bills;
 □ Take photos of business cards;
 □ Before buying, think "Do I really need this? Is there any way that I can get this product in a more sustainable way?";
 □ Buy in bulk only the amount you need / with the least amount of packaging possible;
 □ Buy unpacked fresh products;
 □ Buy local, seasonal (and organic);
 □ Don't throw cigarette butts on the floor and educate others about the importance of this gesture;











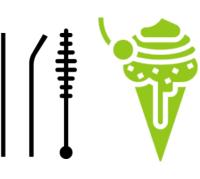


□ Try to avoid disposables as much as possible;
 □ Choose reusable take-away packaging;
 □ Use reusable tableware;
 □ Refuse straws (or use reusable ones);
 □ Opt for reusable coffee cups;
 □ Use a reusable bottle;
 □ Filter the water instead of buying water bottles and jugs;











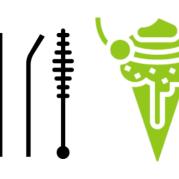


□ Use big reusable bags when shopping;
 □ Use small reusable bags for products like fruits and vegetables;
 □ Replace cling wrap, aluminum foil and parchment paper with reusable alternatives;
 □ Swap plastic bags with reusable options to store food;
 □ Take snacks from home in reusable containers;
 □ Use reusable ice cube trays to make ice;
 □ Eat ice cream on cone and without a plastic spoon;
 □ Make tea with loose leaves;
 □ Make coffee without capsules (or use reusable capsules);













□ Choose detergents in bulk / solid form / with ecological packages;
 □ Use reusable / compostable cleaning tools;
 □ Opt for reusable make-up removal pads;
 □ Use bamboo / card / reusable cotton swabs;
 □ Choose reusable feminine hygiene products;
 □ Swap hygiene products (shampoo, conditioner, shower gel, etc.) with solid option or in bulk/refill form;



□ Use deodorant in eco-friendly containers;
 □ Prefer toothpaste in bulk / reusable containers;
 □ Choose a bamboo / with replaceable head toothbrush;
 □ Use compostable dental floss;
 □ Prefer natural exfoliants;
 □ Opt for an inox reusable razor;
 □ Choose reusable diapers and baby wipes;
 □ Take a travel kit with you, every time you travel;



## A Common Cause! Our planet!



"We may never reach Zero in "Zero Waste", but that is no reason to take Zero action."



@zerowastechef

