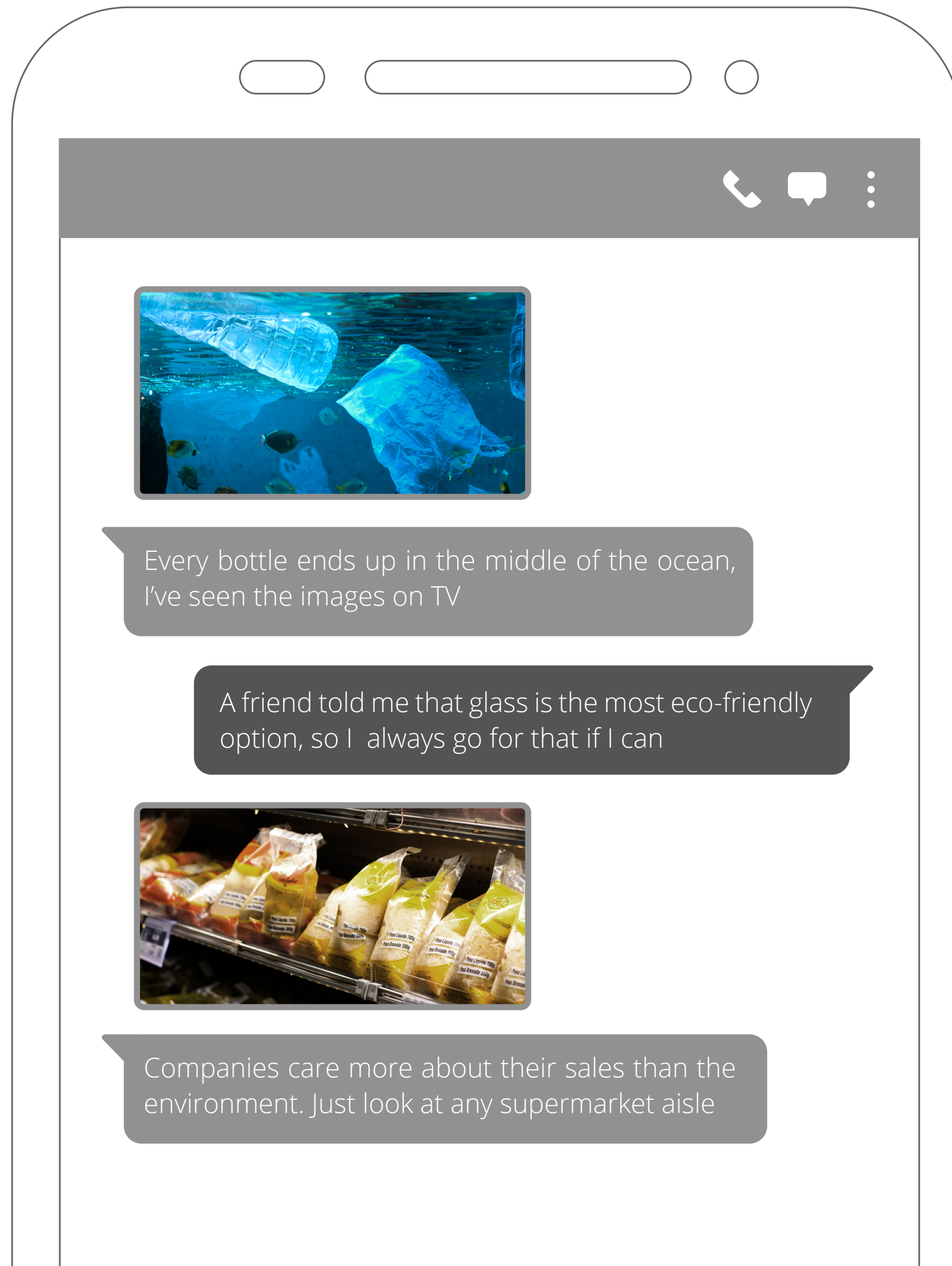




The Case for PET.

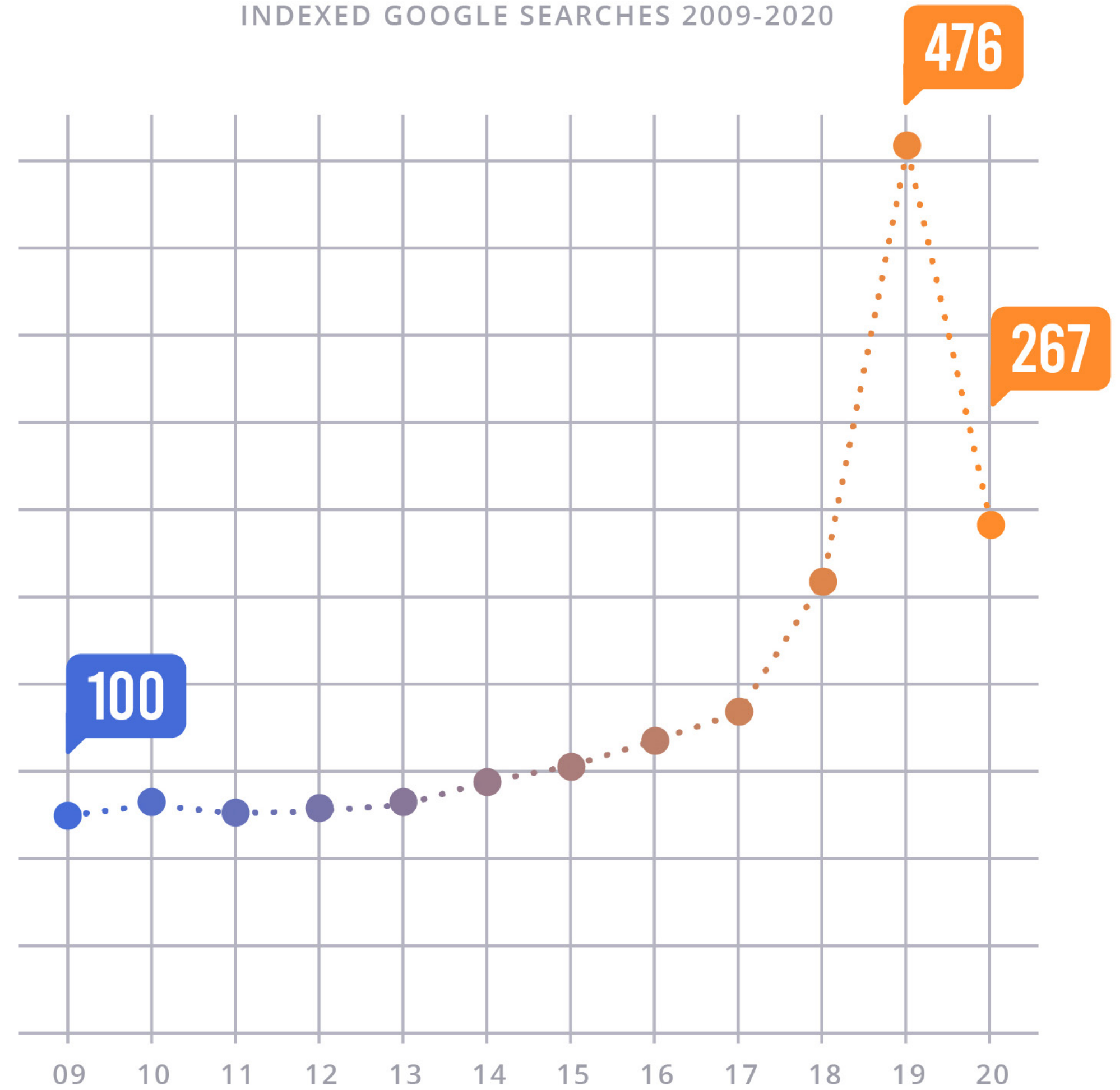
WHAT PET BRINGS TO THE TABLE

PEOPLE ARE TALKING ABOUT PLASTICS:



PLASTIC WASTE

INDEXED GOOGLE SEARCHES 2009-2020



IT'S IMPORTANT TO KNOW: NOT ALL PLASTICS ARE THE SAME.



PET is #1 for a reason

- 1 100% RECYCLABLE
- 2 RECYCLED AT HIGH RATES
- 3 ONLY PLASTIC THAT CAN BE REMADE BACK TO ITS ORIGINAL PURPOSE

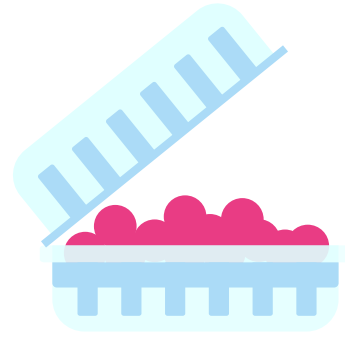
HOWEVER, THEY ALL GET BUNDLED TOGETHER,
SO LET'S BUILD THE CASE FOR PET!



Although Alpek plays an important role as the largest producer and recycler of PET in the Americas, we're not the only ones involved in its lifecycle.

So rather than hearing it from us, we'd like to introduce you to some people that can better explain ***The Case for PET*** based on how it touches their lives every day.

These are their stories.



«*PET is simply a better product*»

For a while now, we wanted to sell more of our berries in the local supermarkets, but packaging was a problem. We used carton but there were a lot of disadvantages, for example if the package got too wet, like from the humidity in the supermarket refrigerators, it would lose its resistance or leave our berries exposed to mold. Also, since it's not transparent, it was hard to highlight the quality of our product.

Last year though, we started working with PET packaging and things are looking up. The package is nice and resistant, but is also much cheaper! We are using the savings in other parts of the business to keep growing, but I'm not going to lie, I've also used it for other things like computers for my kids homeschool and kept a couple of dollars in my pocket at the end of the day.



FRANCISCO MACÍAS

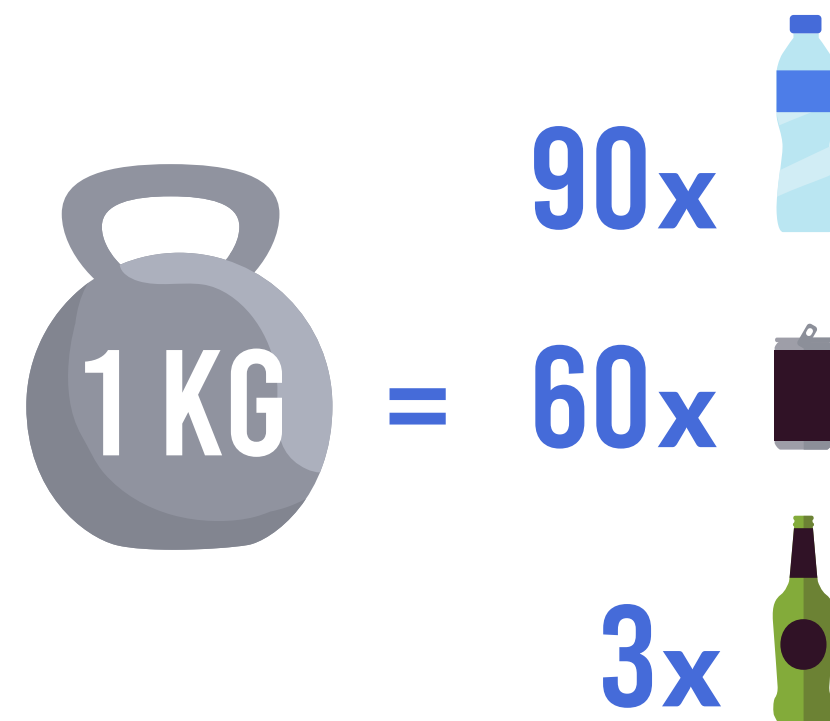
5th-generation berry farmer
California, USA



PET'S UNIQUE TRAITS MAKE IT A BETTER PRODUCT

USES LESS MATERIAL

With the same kilogram of material, you get:



MOST CONVENIENT AND HYGIENIC

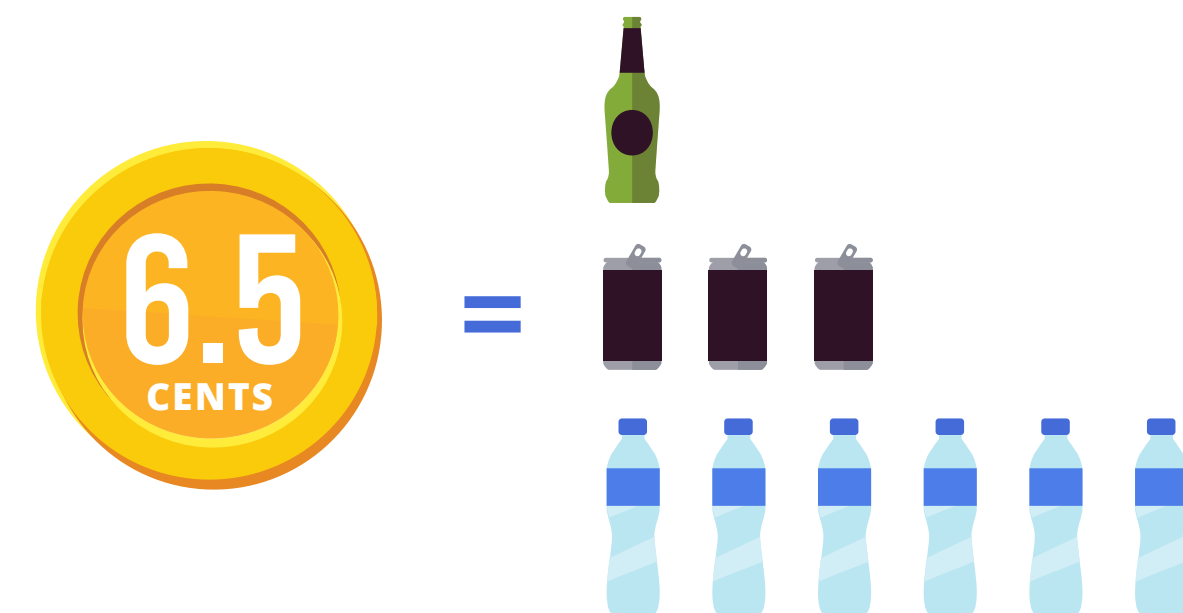
BPA & Phthalate free, as well as the only widely available individually packaged resealable option.



THIS IS WHAT
PET BRINGS TO
THE TABLE

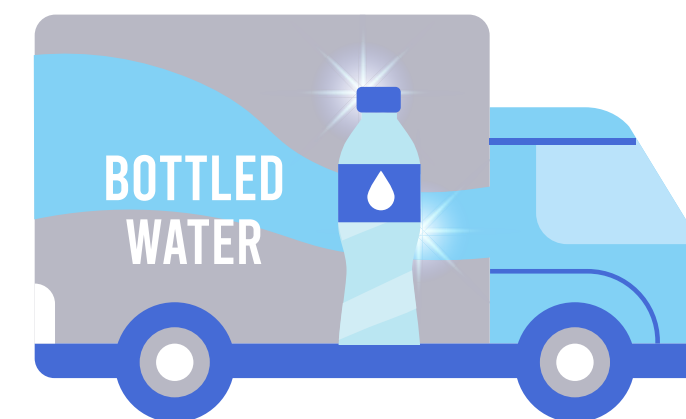
THE LOW COST OPTION

For the cost needed to produce 1 glass bottle, you can produce up to 6 PET bottles.



SHATTER RESISTANT

Unlike glass and aluminum, PET can be transported with minimal protection as it is more resistant to damage.

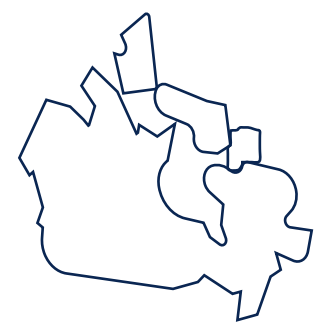




«PET keeps me safe»

The current health emergency caused by the Coronavirus has taught us many things about our life and ourselves in a very short period of time. Something I didn't expect to learn was the importance of PET for us, as doctors and patients. To me PET was just the water bottle I used when running, but it turns out that it's also present in many other things, starting with the safety goggles and facemask I must wear at work.

It's odd how something like a virus we can't even see showed us how vulnerable we really are. Today I trust the PET in those goggles and facemask to get home safely and be with my two daughters and husband. Obviously, we were not expecting this pandemic, but PET helped us face it head-on.



DR. KRISTEN GIORDANO

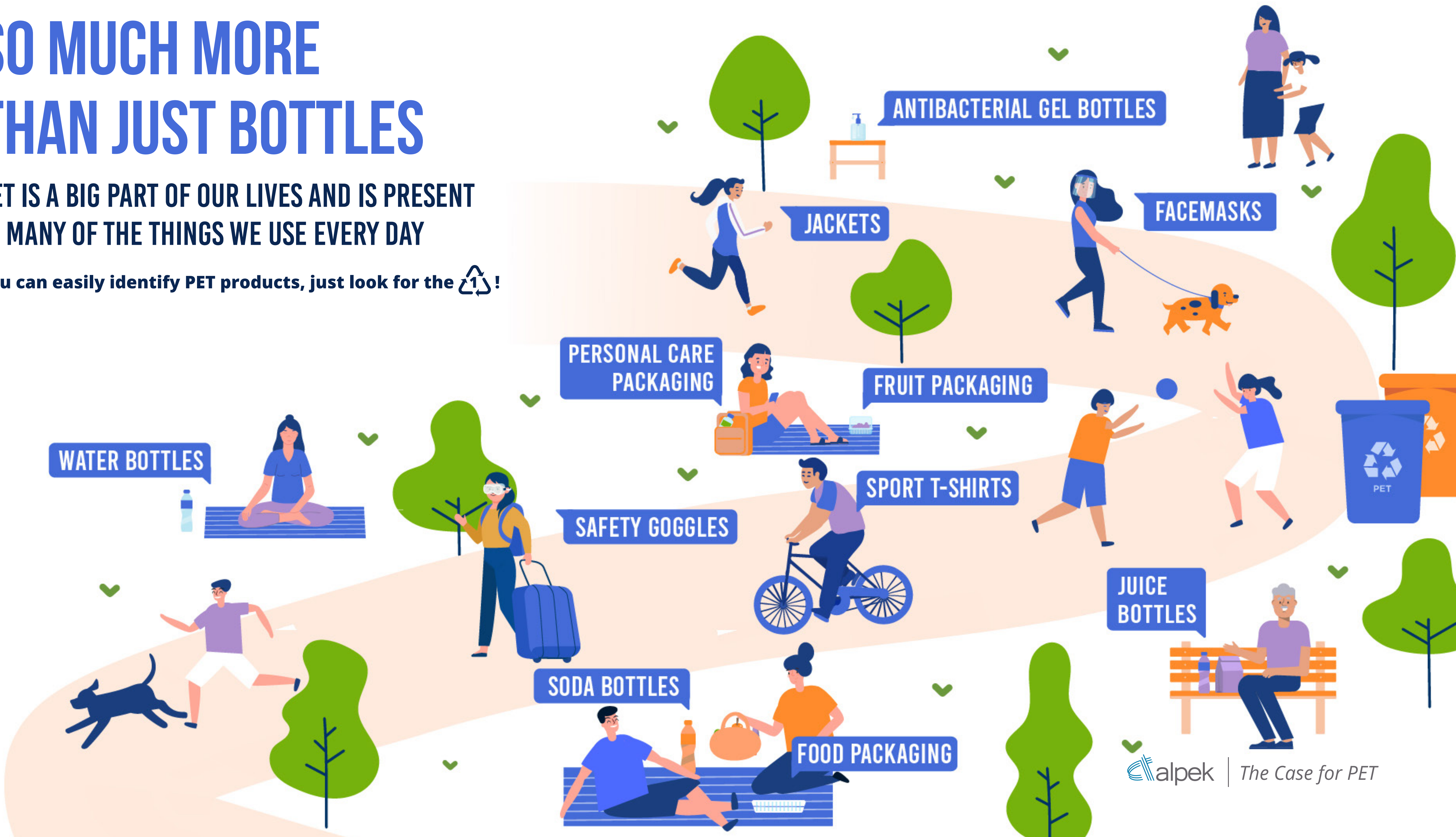
Currently fighting COVID-19
Toronto, CAN



SO MUCH MORE THAN JUST BOTTLES

PET IS A BIG PART OF OUR LIVES AND IS PRESENT
IN MANY OF THE THINGS WE USE EVERY DAY

You can easily identify PET products, just look for the !





«*Educating towards smarter choices*»

From my perspective there have never been more options in terms of the products we consume every day. I go to the supermarket and for just one thing, let's say orange juice, there are like 3 different packaging options: PET, glass and cardboard.

My job is to encourage my students by exploring the current problems we face. After doing a ton of research, I've found that the general misconceptions around PET's sustainability are wrong. It is fully recyclable and recycled at the same rates as its alternatives and made without hazardous materials. More importantly, I have the responsibility to teach my kids to dispose whichever juice bottle they choose, to ensure it gets back to them another day.



PETER EVANS
Elementary school teacher
Manchester, UK

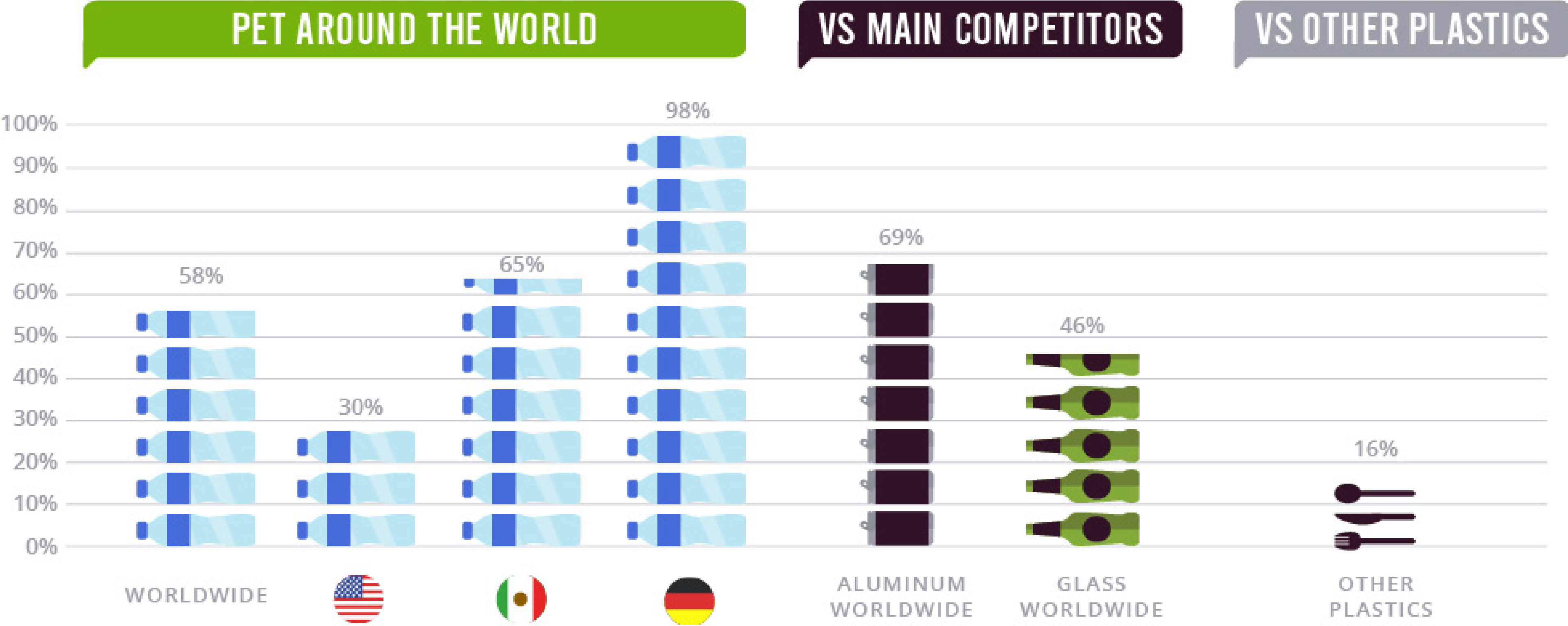


PET HAS BECOME THE MOST WIDELY USED BEVERAGE PACKAGING MATERIAL

BEVERAGE PACKAGING INDUSTRY UNITS BY SUBSTRATE (B UNITS) 2000- 2019



PET IS HIGHLY RECYCLED AND STILL HAS ROOM TO GROW



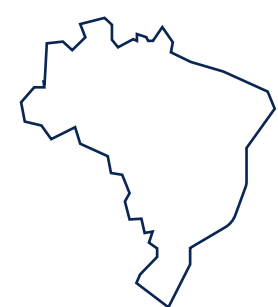
BUT CAN'T DO IT WITHOUT OUR HELP!



«We should think about the big picture»

I think society has focused on solving the waste problem, and we definitely need to solve that, but we shouldn't lose sight of the real problem facing our generation: climate change. Said differently, if all we do is recycle more, does that mean we are doing less harm to the environment?

More and more people are doing their part, choosing fully recyclable materials, putting garbage in the right place, and starting action in their communities, but I think that we should also start questioning corporations about everything that happens before and after we as consumers make our choice. Fixing the amount of carbon emissions generated to make the green glass bottle my sparkling water comes in, and how much more will be released when it's recycled, now that's big picture stuff.



OLIVIA TURELLA
College student
Sao Paulo, BR



PET'S CARBON FOOTPRINT IS 80% LOWER THAN GLASS OR ALUMINUM

WHICH MAKES IT THE RIGHT CHOICE FOR THE ENVIRONMENT (YES, REALLY)

Let's put it into perspective



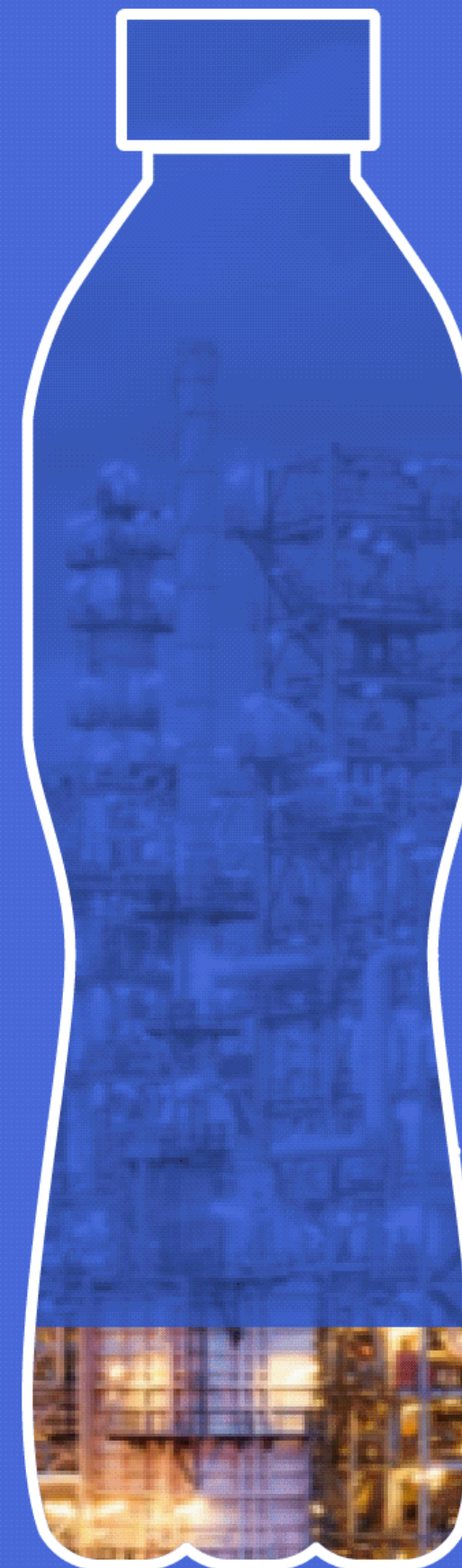
PET'S CARBON FOOTPRINT IS 80% LOWER THAN GLASS OR ALUMINUM

WHICH MAKES IT THE RIGHT CHOICE FOR THE ENVIRONMENT (YES, REALLY)

Let's put it into perspective



37 gr. CO₂
1.0x



182 gr. CO₂
4.9x



187 gr. CO₂
5.1x



THERE'S A BIG DIFFERENCE WHEN LOOKING AT A NEW BOTTLE...

CARBON FOOTPRINT OVER LIFECYCLE, PER 355 ML. BOTTLE.

PET'S CARBON FOOTPRINT IS 80% LOWER THAN GLASS OR ALUMINUM

WHICH MAKES IT THE RIGHT CHOICE FOR THE ENVIRONMENT (YES, REALLY)

Let's put it into perspective



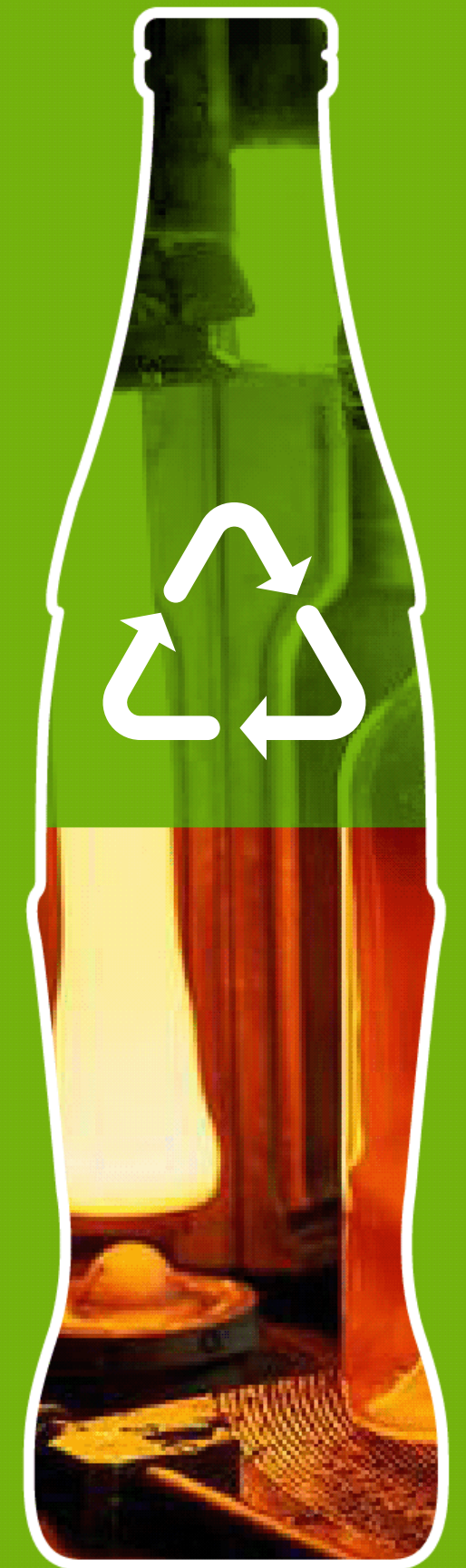
10 gr. CO₂
1.0x



31 gr. CO₂
3.1x



90 gr. CO₂
9.0x



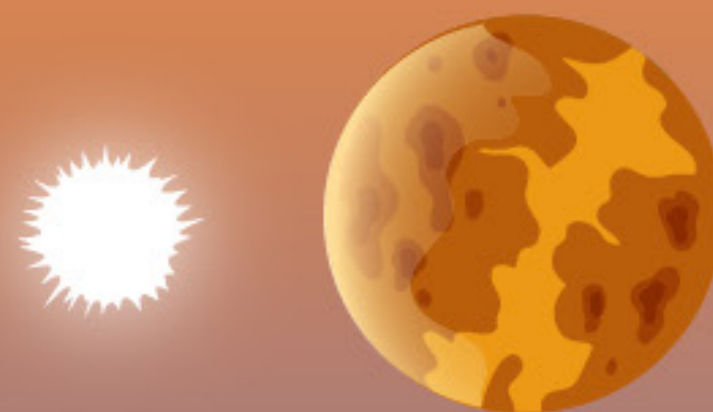
...THAT GETS EVEN BIGGER WHEN USING RECYCLED MATERIALS!

CARBON FOOTPRINT OVER LIFECYCLE, PER 355 ML. BOTTLE.

JUST THINK ABOUT THE TEMPERATURE NEEDED TO PRODUCE PET VS. ALUMINUM OR GLASS:

GLASS IS MADE AT TEMPERATURES HOTTER THAN LAVA.

2,800°F



ALUMINUM IS MADE AT A TEMPERATURE HOTTER THAN THE SURFACE OF VENUS.

1,200°F



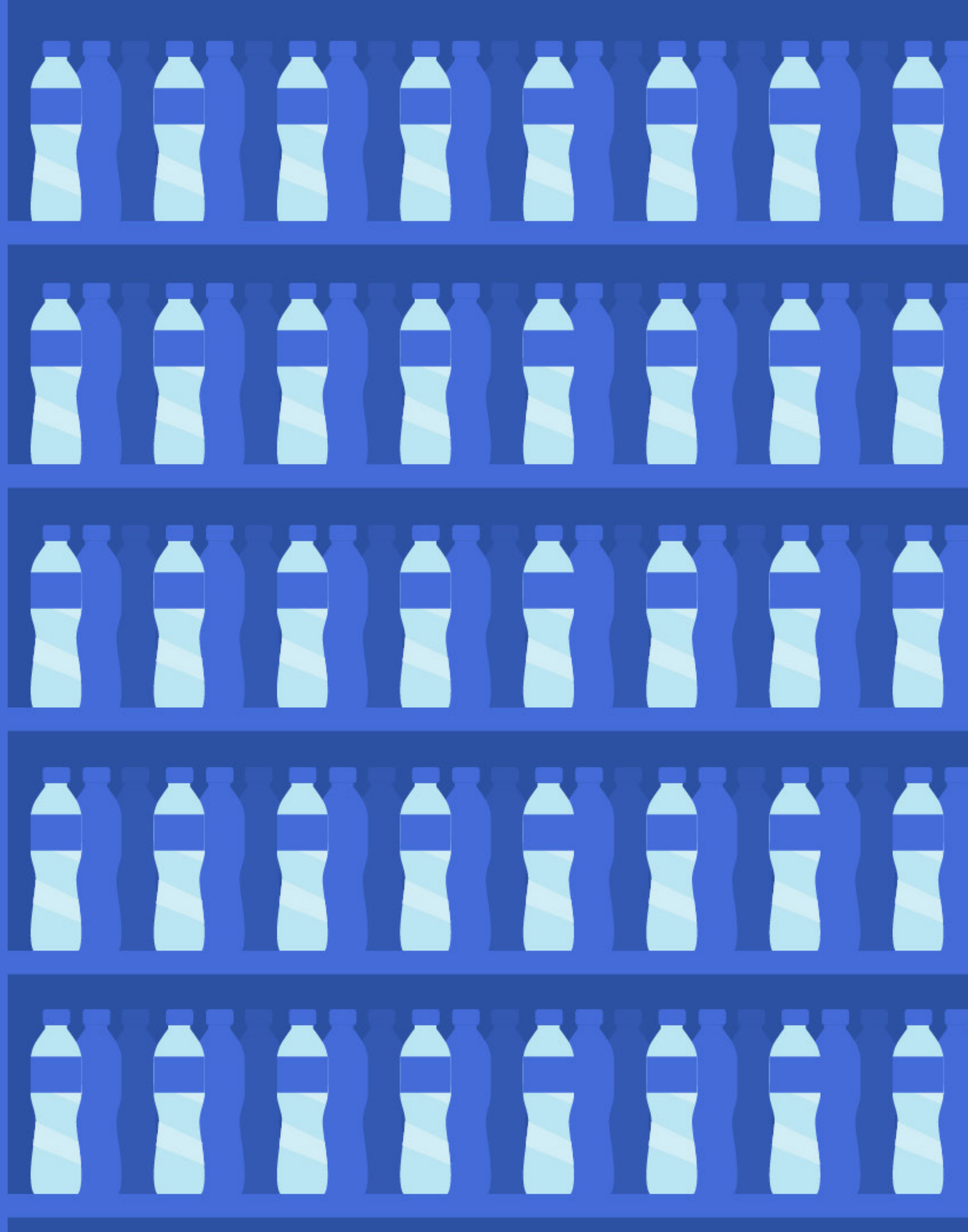
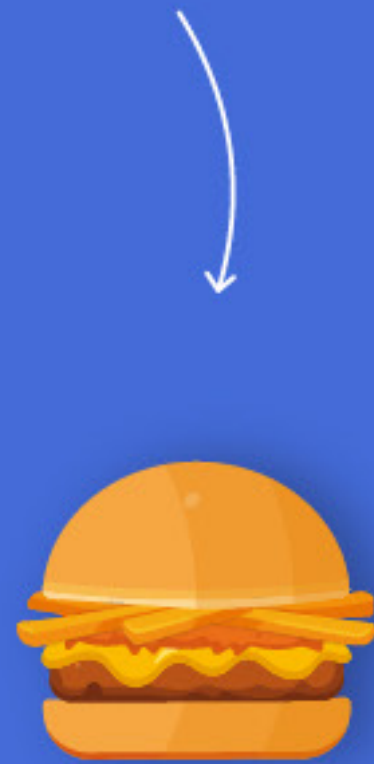
PET IS MADE AT THE SAME TEMPERATURE NEEDED TO MAKE A NICE SLICE OF PIZZA.

480°F



Think back to the last time you had a burger...

What if I told you, you could wash it down with 300 BOTTLES OF WATER and still NOT MATCH THE CO₂ USED TO MAKE THAT BURGER?





The CO₂ emissions generated by
1 PERSON flying from NYC to San Francisco

is equal to that from recycling **29,600 PET bottles**

ENOUGH TO ENJOY A DRINK WITH EVERY ONE
OF YOUR MEALS FOR **THE NEXT 30 YEARS**



«PET is my livelihood»

I know it might not sound very attractive, but my job is to find and separate PET from the rest of your garbage. Why? Because certain people are willing to pay me good money for it. There are collection points all around my city, they buy the PET from me, and then they sell that material to a recycling plant. I guess it's good business for them too, because they never stop coming for more and more PET.

I tend to focus on PET because contrary to glass and aluminum, I can find it easily, separate it without much risk, and carry it since it's so light and compactable. I definitely don't miss getting tetanus shots.

My work allows me to put food on the table for my family and send my children to school, so I'm very proud of it. It also gives me great pleasure to see the streets clean, knowing that in some way, my effort contributed to achieving that.



EULALIO RAMÍREZ
Garbage collector for 17 years
Ciudad de México, MX



EVERYONE HAS A ROLE TO PLAY



- Increase Recycled PET production
- Meet bottlers' needs
- Improve Recycled PET technology



RPET FLAKE

RPET PELLET

VIRGIN PET

SINGLE PELLET TECHNOLOGY®

PET BALES

TRASH SEPARATION BY TYPE

DRINKS AT POINT OF SALE



GOVERNMENT

- Promote recycling
- Promote use of lower CO₂ products



WASTE MANAGEMENT

- Grow gathering network
- Improve PET separation
- Improve bale quality

BOTTLERS

- Use higher Recycled PET content
- Design for higher recyclability
- Willingness to source Recycled PET



RETAILERS

- Promote and offer recyclable products.
- Offer recycle solutions at their locations



CONSUMERS

- Consume responsibly
- Recycle everything
- Separate trash properly





«We have a clear goal»

I have proudly been part of Alpek for the last 4 years. Sometimes I'm questioned by my family about my work because they've heard negative stories surrounding plastics. But I know that PET is unlike any other plastic. I'm convinced that for us to achieve a true change in our society, the first thing we need is real information, so I actually see these discussions and questions as opportunities to share the data I have.

I recently had the chance to log-in to a Webcast where Pepe Valdez, Alpek's CEO, talked about the company's five-year strategy. It was very focused on increasing the amount of rPET we make, and helping meet our customers' goals. These type of things make me proud to be part of the Alpek family.



DEBORA ESPECHE

Lab analyst at Ecopek (Alpek rPET)
Pacheco, ARG






Alpek is leading the way

Today we already recycle

5 BILLION BOTTLES
each year

And we're aiming to reach

15 BILLION BOTTLES
BY 2025!

To get there, among other initiatives, Alpek has joined associations such as the  to develop more trash gathering infrastructure in major US Cities.

SO YOU'RE NOT CARBON NEUTRAL? DON'T WORRY. EVERY LITTLE CHOICE MATTERS.



- 1. Recycle!** As much as you can, and not just PET, but every product you come across.
- 2. Promote the use of fully recyclable materials in any place:** your home, your work and even in your favorite coffee shop.
- 3. Share your newfound knowledge about PET and recycling,** to speed up our progress towards a truly sustainable future.

REFERENCES

SLIDE 6 • PET'S UNIQUE TRAITS

Notes: Material figures per 355ml bottle:
PET 11g; aluminum 15g; glass 283g.
Cost figures per 355ml bottle: PET 1.5¢,
aluminum 3.1¢, glass 6.5¢
Sources: International Monetary Fund,
CCFGroup , Bloomberg, SBACci

SLIDE 10 • BEVERAGE PACKAGING MATERIALS

Source: SBACci

SLIDE 11 • PET'S RECYCLING RATES

Sources: Wood Mackenzie, Ball
Corporation, Aluminum.org

SLIDES 13-15 • PET'S CARBON FOOTPRINT

Note: Carbon footprint (gr. CO₂) over
lifecycle per 355ml bottle
Sources: Environmental Protection
Agency, Franklin Associates

SLIDE 17 • BURGER CO₂

Note: All figures per 355ml bottle

SLIDE 18 • FLIGHT CO₂

Note: All figures per 355ml bottle
Sources: International Civil Aviation
Organization