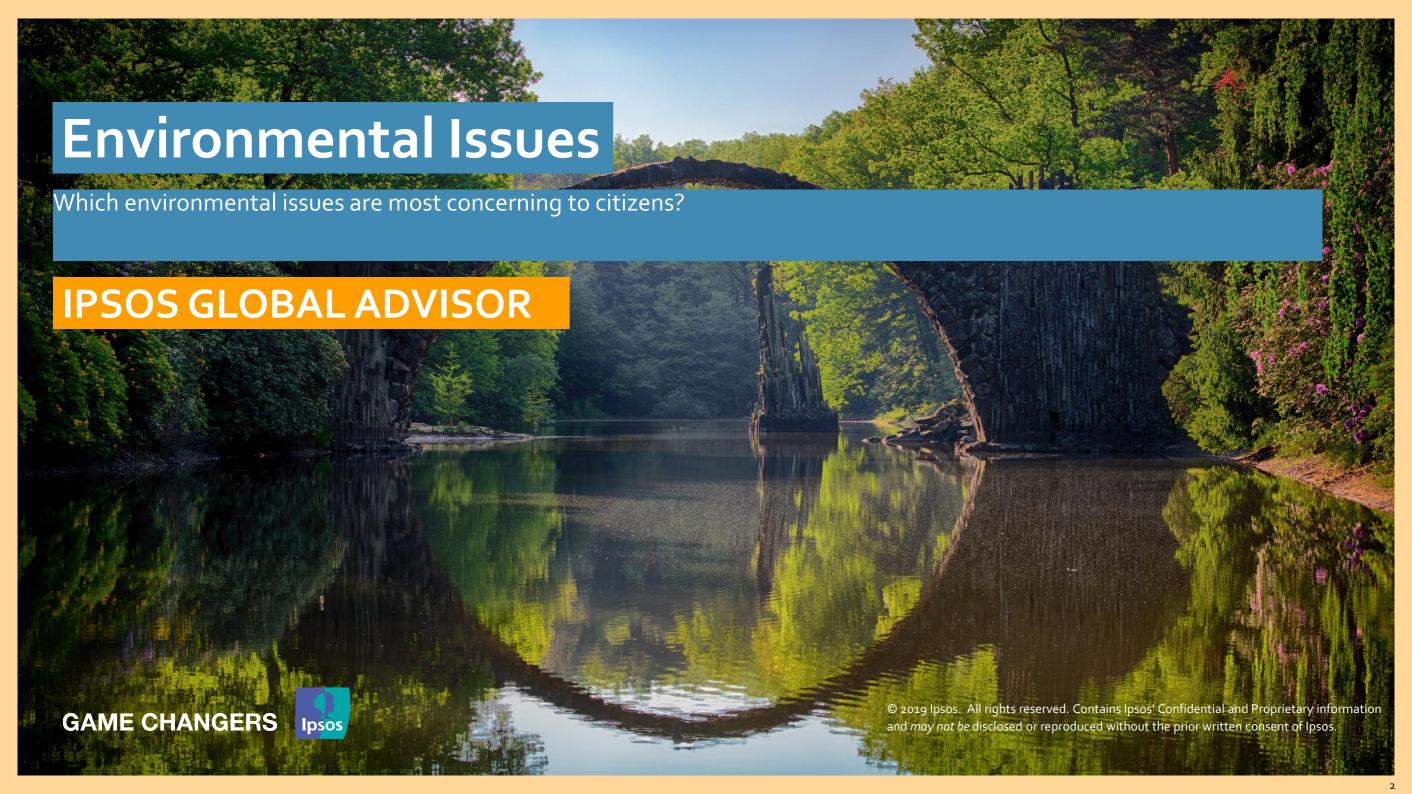
Earth Day 2019

How does the world perceive our changing environment?



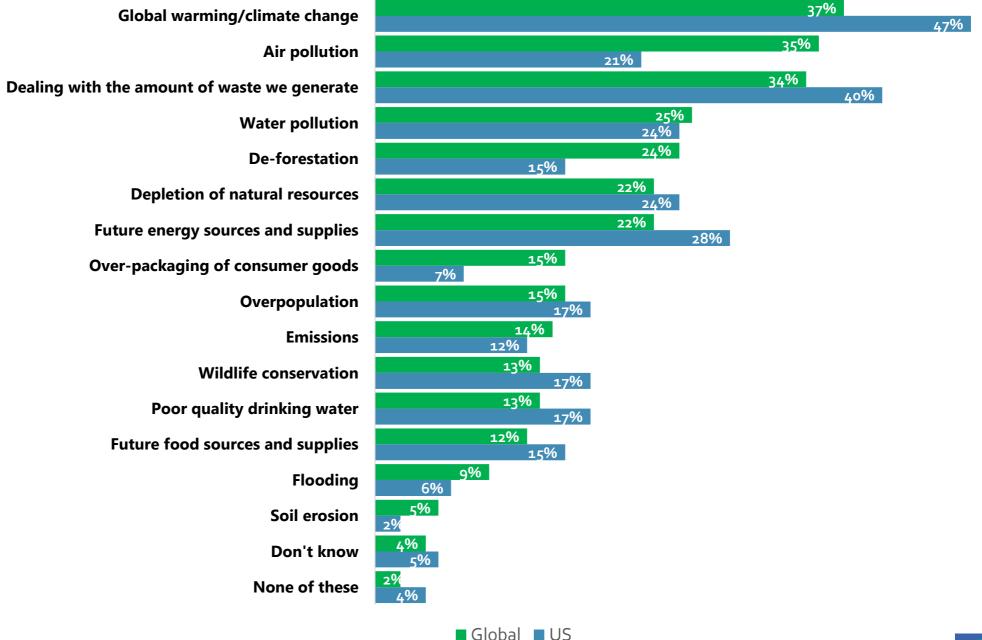


Top environmental issues around the world

- Across the world, global warming/climate change, air pollution, and dealing with waste are the top three environmental issues of concern.
- Meanwhile, soil erosion, flooding, future food sources and supplies, and poor quality drinking water are reported as less concerning issues.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders?

[TOPIC] is a top three environmental issue



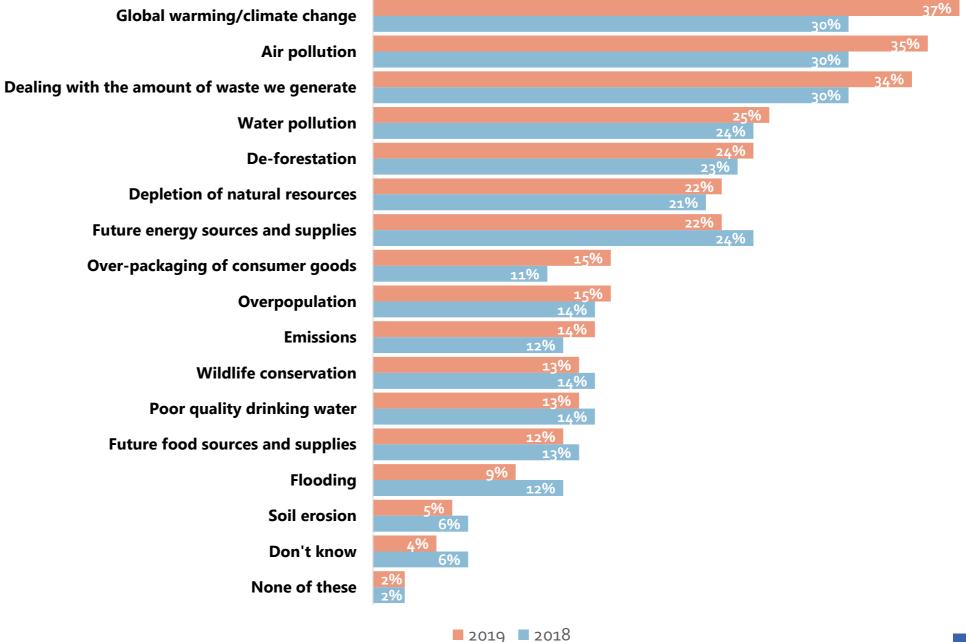


Top environmental issues around the world

2019 vs. 2018, Global data

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders?

[TOPIC] is a top three environmental issue

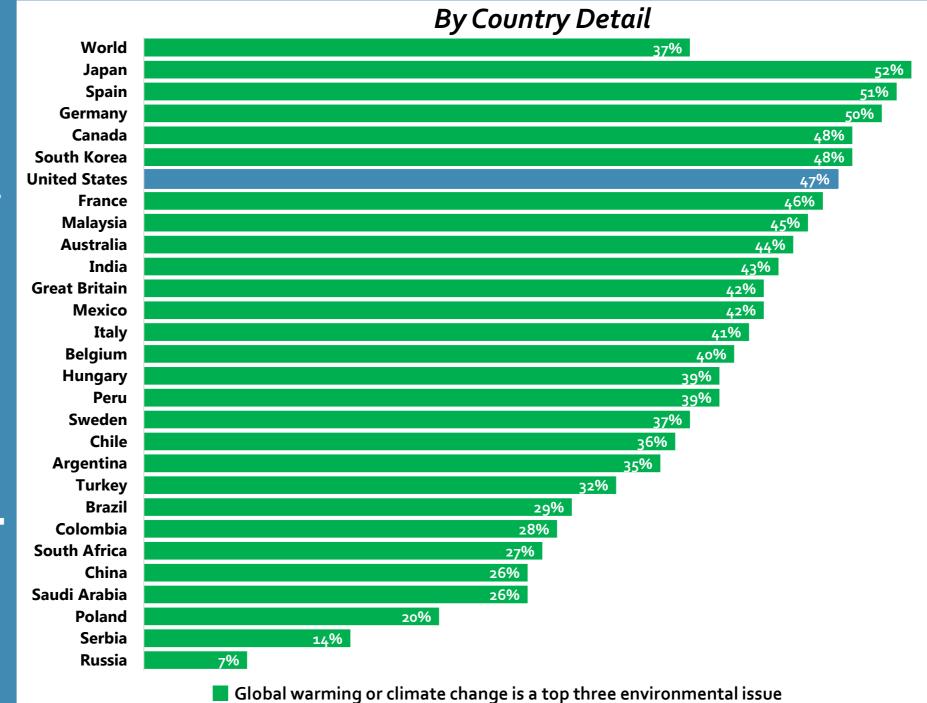




Global warming or climate change

- Global warming, or climate change, is the observation that the Earth has seen an average global temperature increase over recent centuries. Scientists expect these changes to have a corresponding effect on the weather and climate systems of the Earth.
- The US is the 6th most likely to consider global warming/climate change a top environmental issue.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Global warming

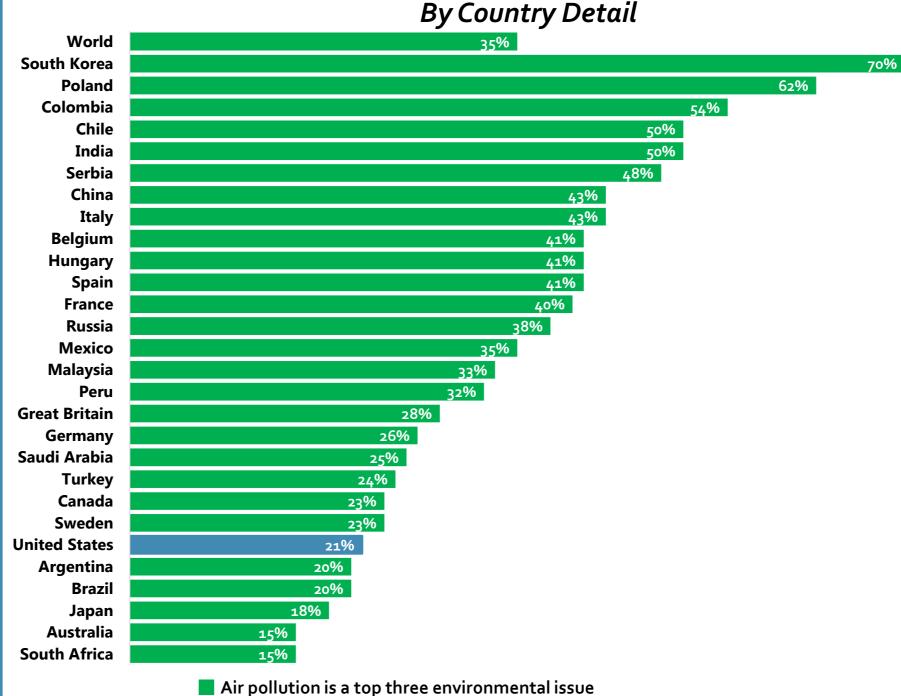




Air pollution

- Air pollution refers to the existence of harmful or excessive quantities of gases or particulates in the atmosphere.
- Americans are one of the least inclined to consider air pollution a top environmental issue.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Air pollution



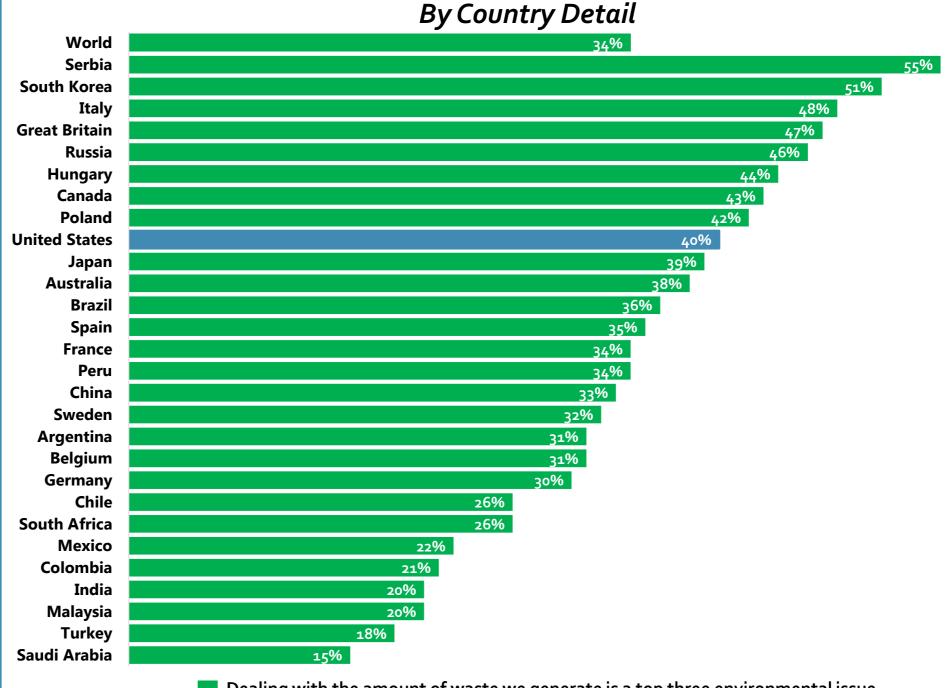


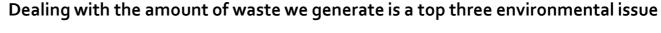


Dealing with waste

- As global income increases, so too will the demand for goods and the waste generated from the production and use.
- As a major waste producing country, the US falls just slightly above the world average in considering dealing with waste a top environmental issue

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Dealing with waste



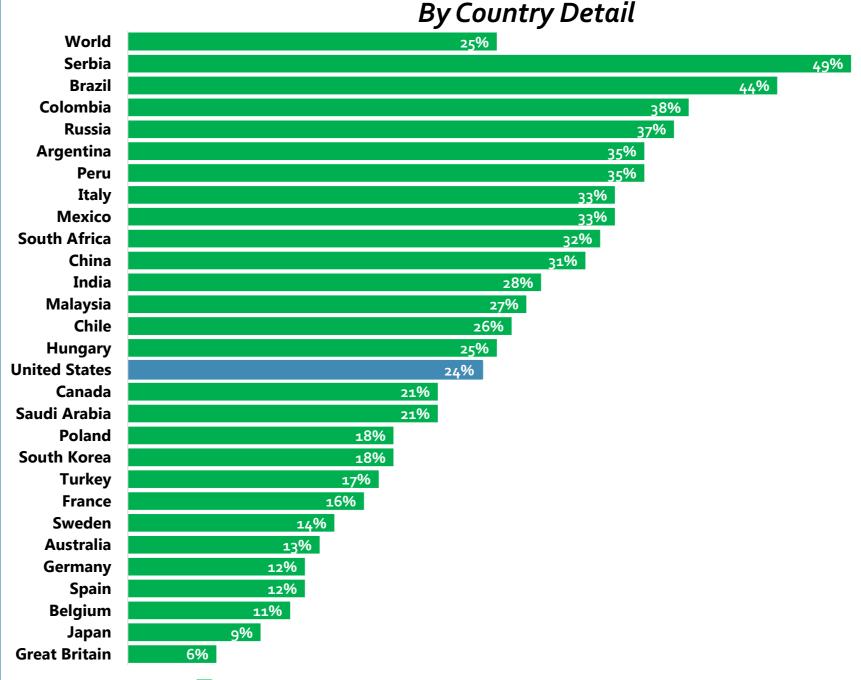


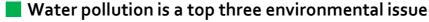


Water pollution

- Water pollution refers to the contamination of water bodies. Usually, contaminants are introduced by human activities such as farming or waste production.
- The US falls right at the global average in likeliness to consider water pollution a top concern, but is the most likely Western, developed nation to think so.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Water pollution



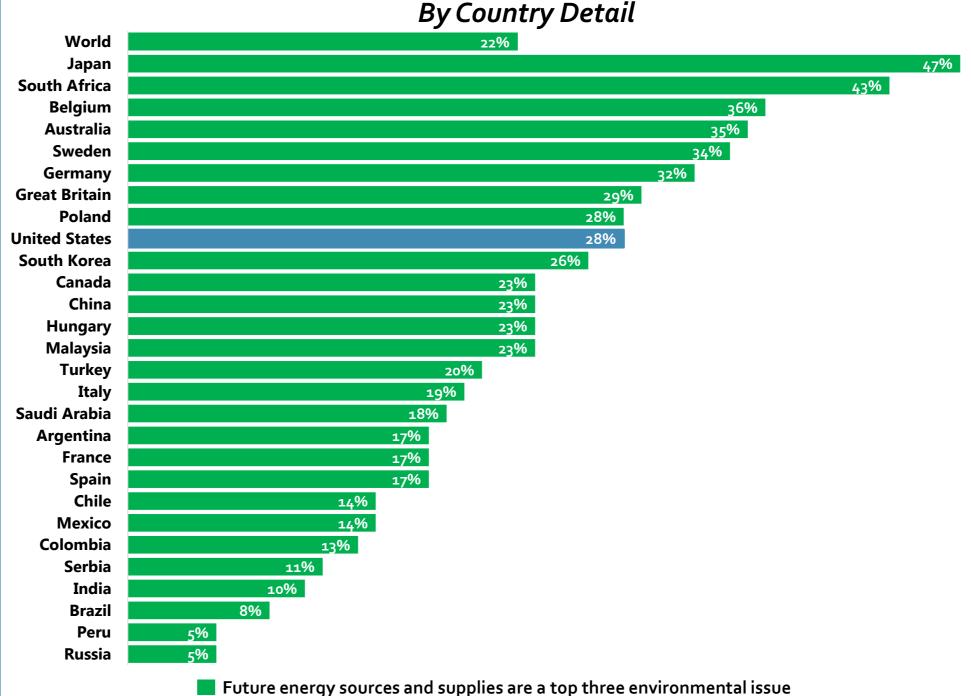




Future energy sources and supplies

- Some energy sources take millions of years to develop and are depleted after one use.
- Energy use of this form has a finite supply, whether it be in the short term or the long term.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Future energy sources and supplies

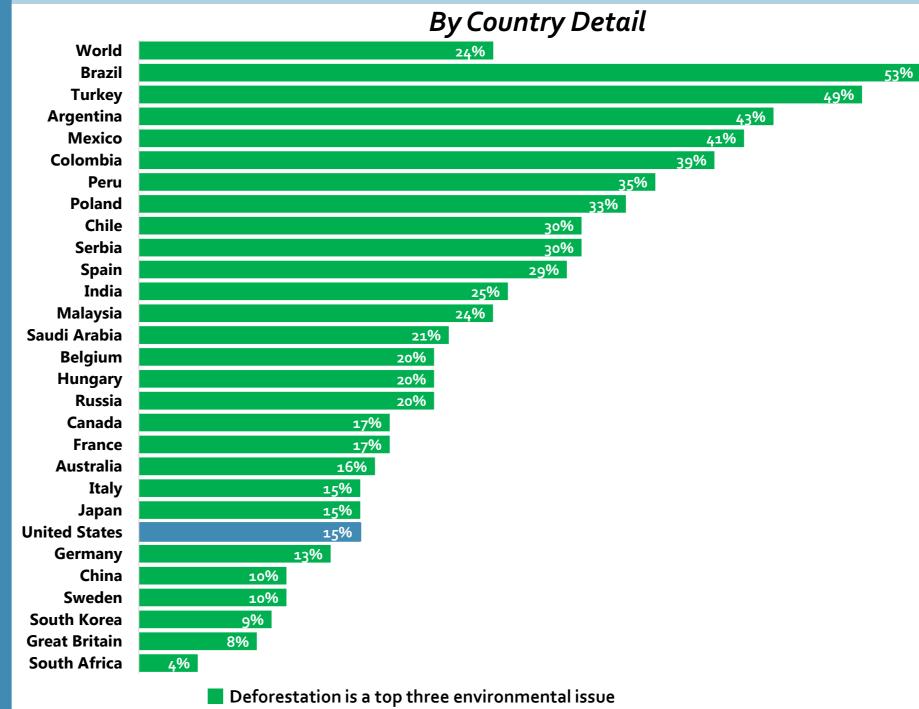




Deforestation

- Deforestation increases the amount of carbon dioxide in the atmosphere, leading to a stronger greenhouse effect.
- Developed countries, like the US, are less likely to see deforestation as top environmental issue.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Deforestation



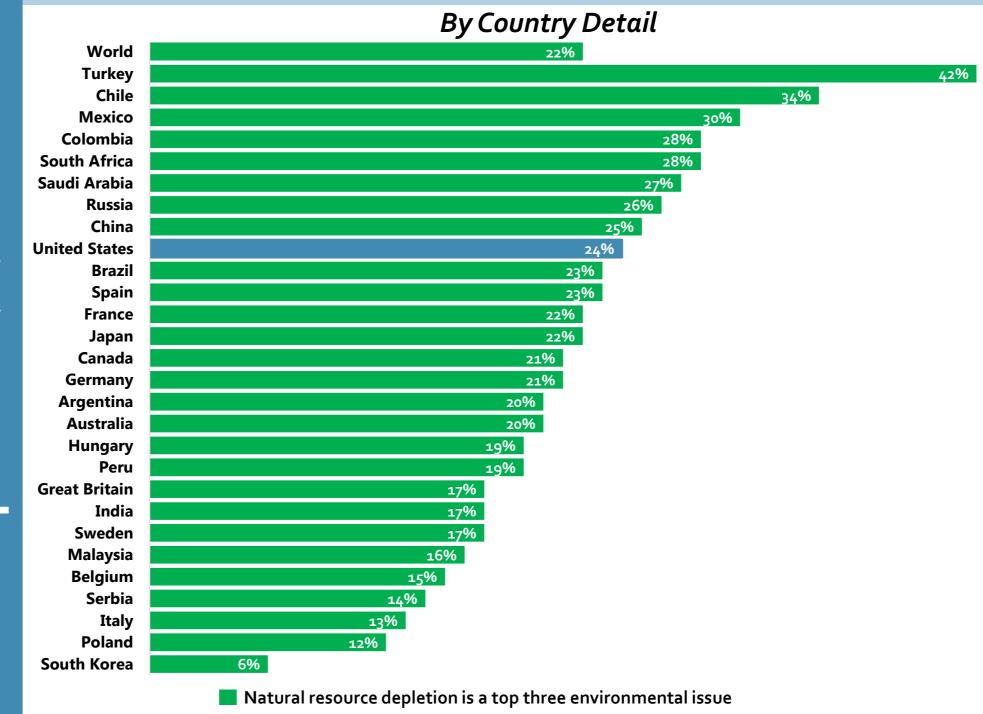




Natural resource depletion

- Natural resource depletion is a difficult discussion topic.
- On the one hand natural resources are finite.
- On the other hand, though, they are necessary to produce goods and services needed across the entire global population.
- The US is more likely to see this as a top concern than other Western countries.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Natural resource depletion

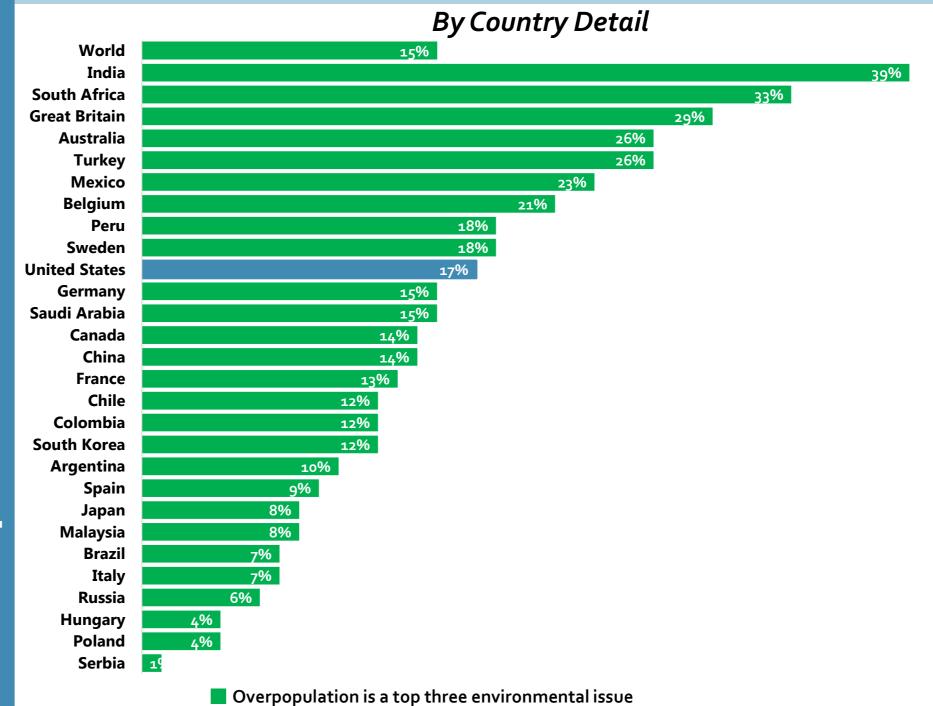




Overpopulation

- As the global population grows, so too will competition for space and resources.
- Americans are only marginally more likely to consider overpopulation a top concern than global average.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Overpopulation



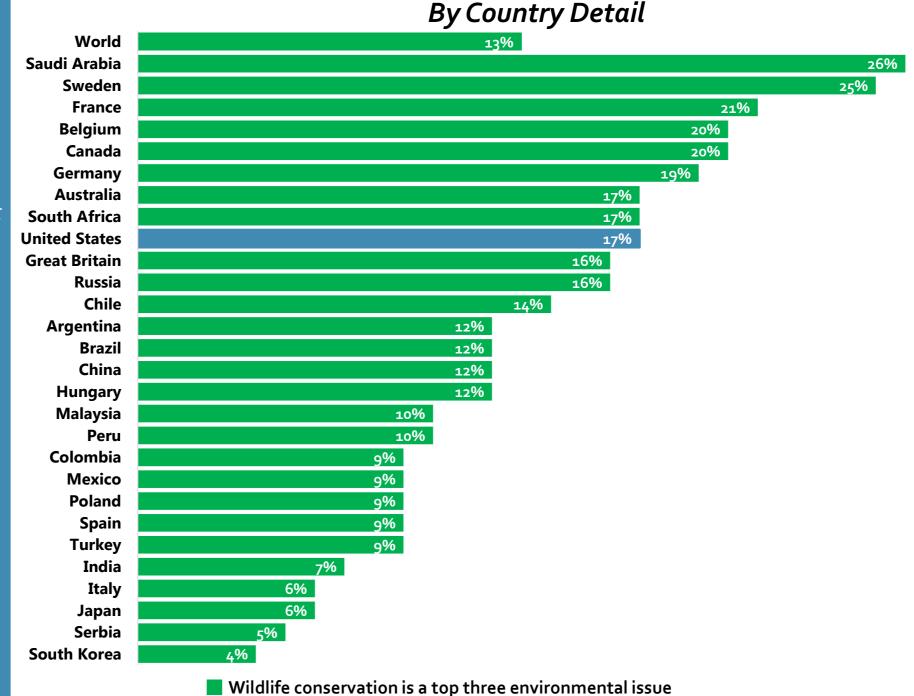


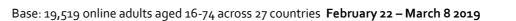


Wildlife conservation

- According to the World
 Wildlife Foundation, the
 number of wild animals on
 Earth has halved in the past
 40 years.
- The US falls near the uppermiddle in terms of considering wildlife conservation a top environmental issue.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Wildlife conservation

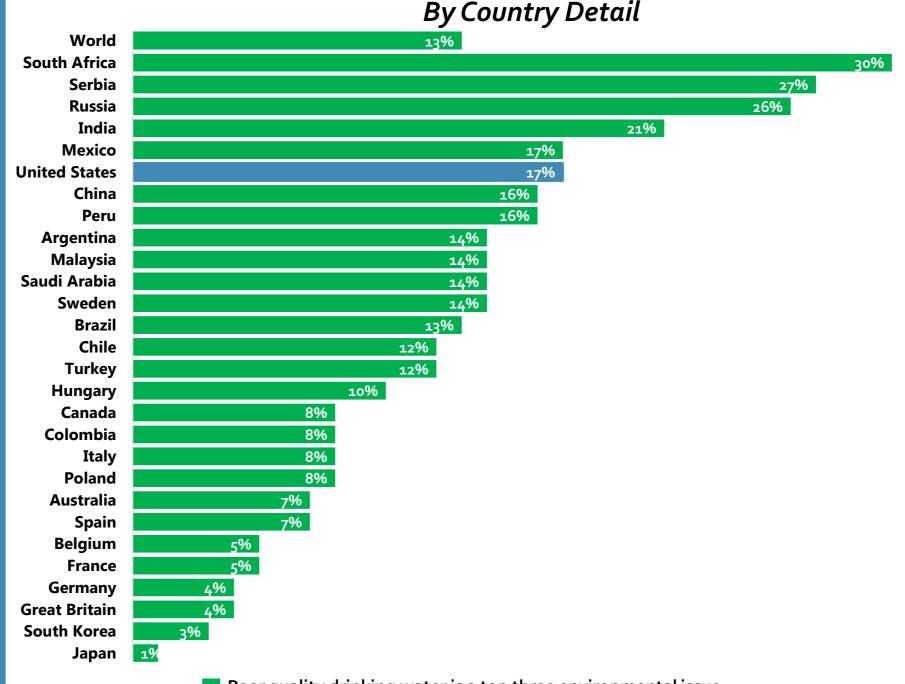




Poor quality drinking water

- Cape Town, South Africa's recent drought still affects how South Africans view the availability of clean water, as they lead all countries surveyed in thinking that poor quality drinking water is a major problem.
- The US is the only highly developed nation that considers poor quality drinking water a top environmental issue.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Poor quality drinking water

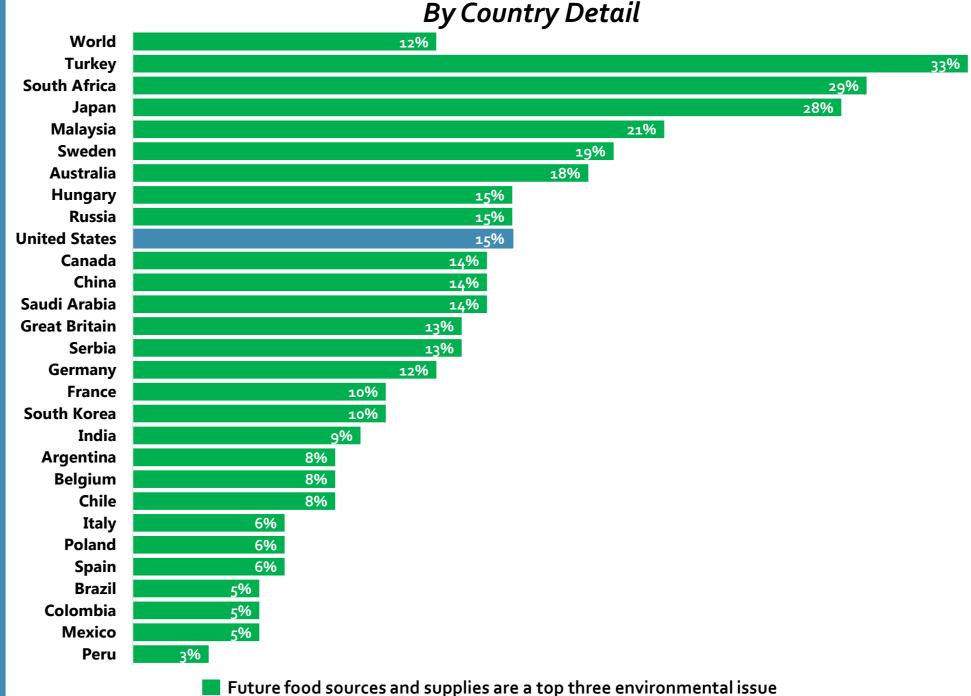




Future food sources and supplies

- The global population is expected to continue growing and to need to produce greater and greater quantities of food.
- Countries in Latin America are less likely to consider this a top issue compared to many Asian and European countries. The US falls in the upper middle half.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Future food sources and supplies



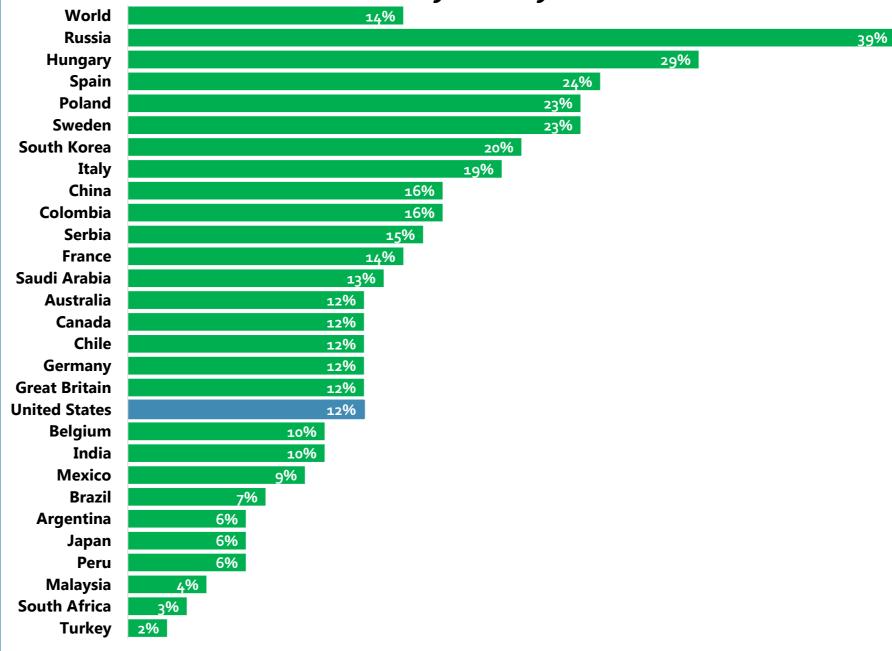


Emissions

- A common example of an emission can be seen in the gas discharged from a car's tailpipe.
- Only 12% of those in Western developed nations such as the US, Germany, and Great Britain, consider emissions a top environmental issue.
- Eastern European countries are the most likely to consider this a top issue.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Emissions







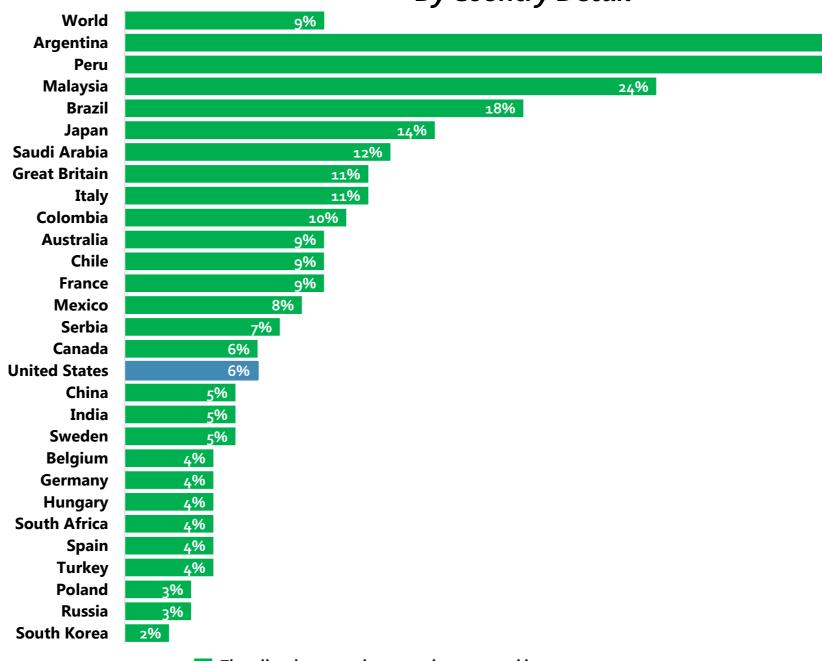


Flooding

- The World Resources
 Institute estimates that
 4.24% of the world's
 population is exposed to
 river flood risk.
- Only a small portion of Americans consider flooding a major issue.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Flooding





Flooding is a top three environmental issue



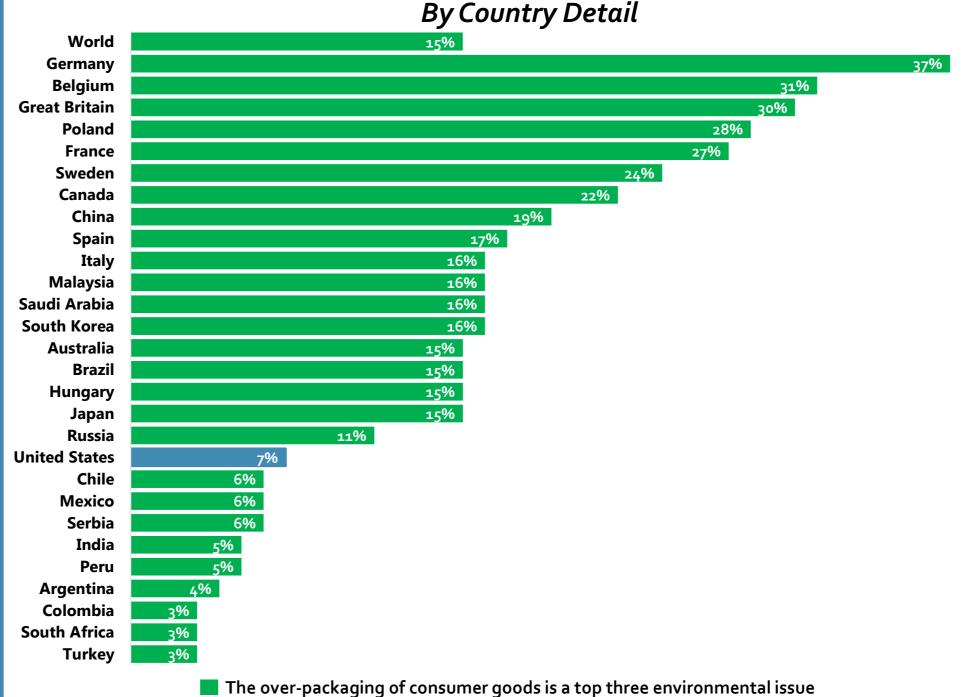
36%

35%

Over-packaging of consumer goods

- In a world that is increasingly reliant on ecommerce and shipping, overpackaged goods run the risk of creating unnecessary waste.
- Despite having the largest consumer market in the world, the US falls way below the global average in amount of those who consider over-packaging a major issue.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Over-packaging of consumer goods

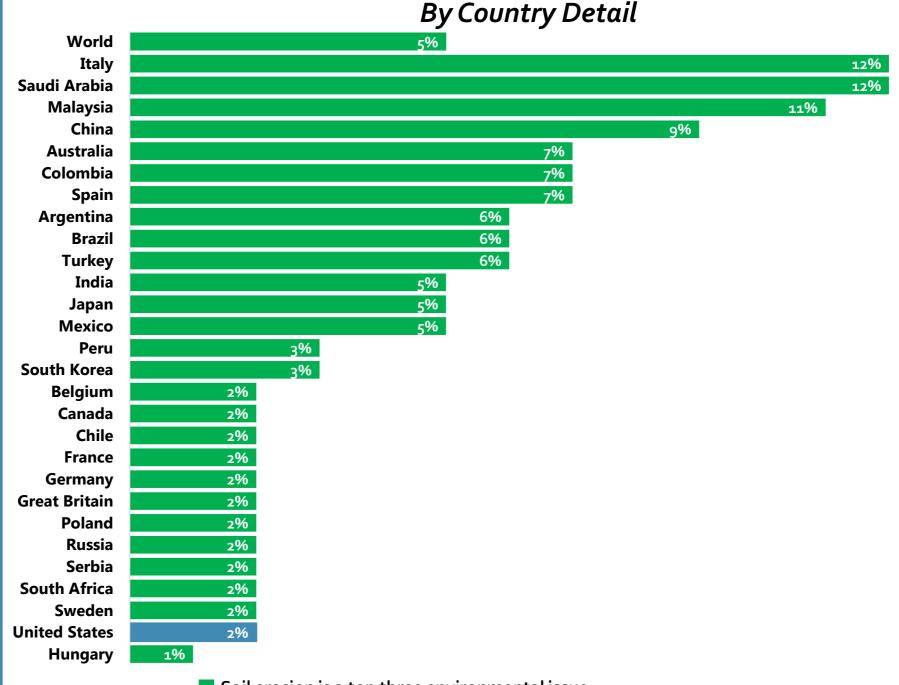




Soil erosion

- Soil erosion refers to the removal of the Earth's topsoil, the most fertile, uppermost layer of the ground.
- The US is the second least likely, by just 1-point, to consider soil erosion a top environmental issue.

Q. In your view, what are the three most important environmental issues facing [COUNTRY] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders? – Soil erosion



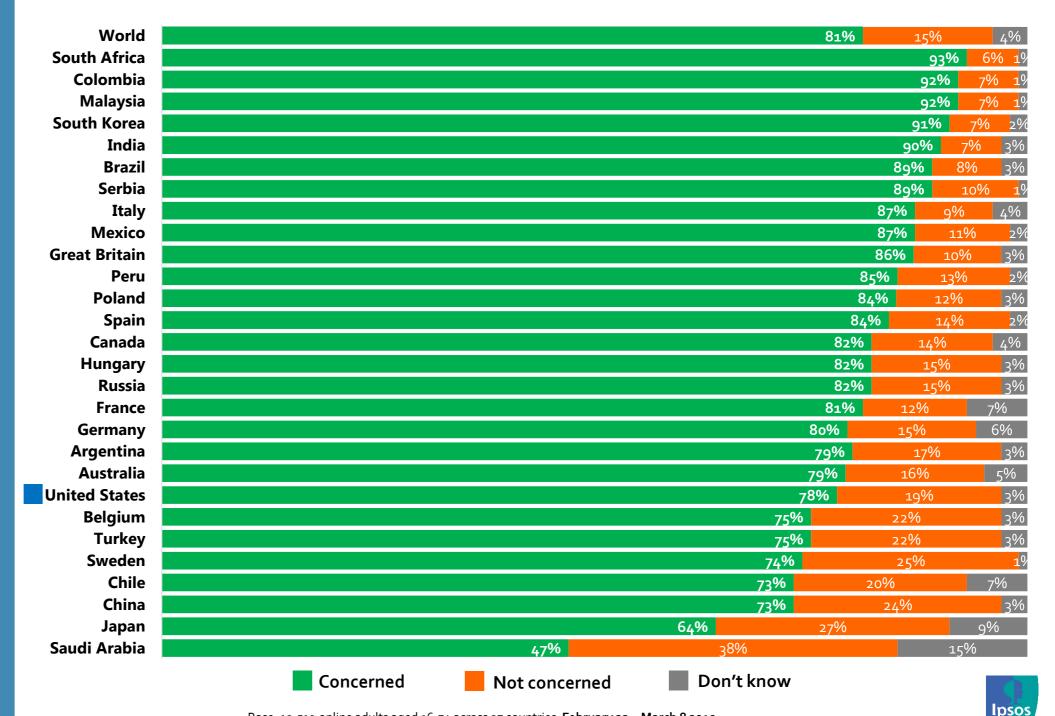


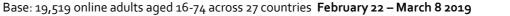




Concern with the use of disposable, non-recyclable products

- Plastic straws, for example, are given by default in nearly every drink purchased at a restaurant, then thrown away.
- These straws are nonrecyclable and take 200 years to degrade.
- In general, citizens across the world are at least somewhat concerned with the overuse of disposable, non-recyclable products.
- O. Some people have recently been discussing the effects on the environment of plastic packaging, plastic bags, and other disposable objects which cannot be recycled. How concerned, if at all, would you say you are about this issue?



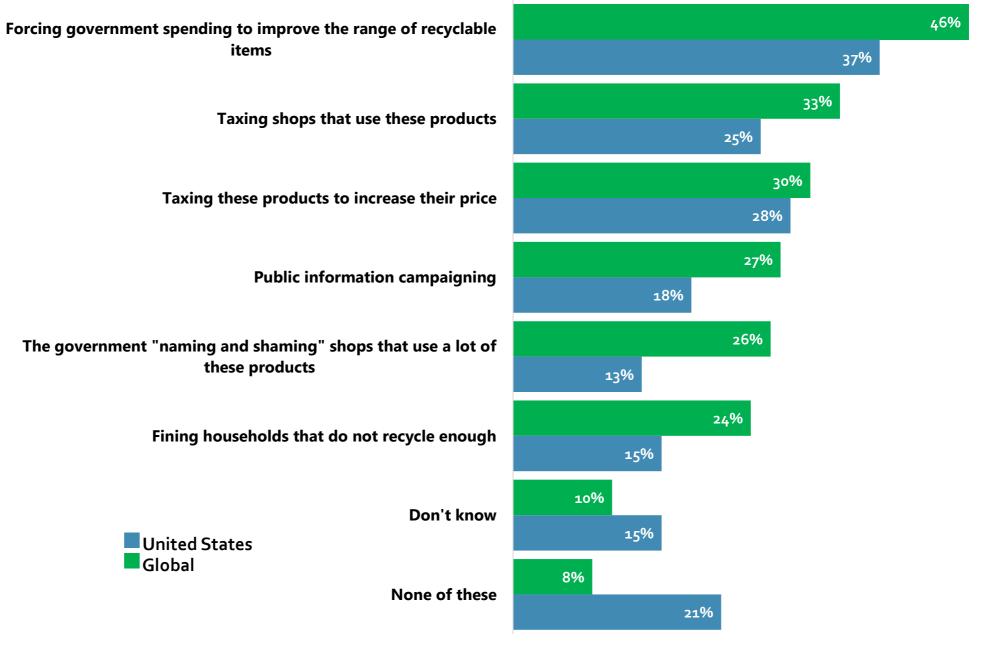




Potential policy actions

 A plurality of global respondents believe increased government spending would help reduce the use of non-recyclable products.

Q. Which if any of the following do you think would be effective at reducing the problems caused by unnecessary use of plastic and packaging that cannot be recycled?

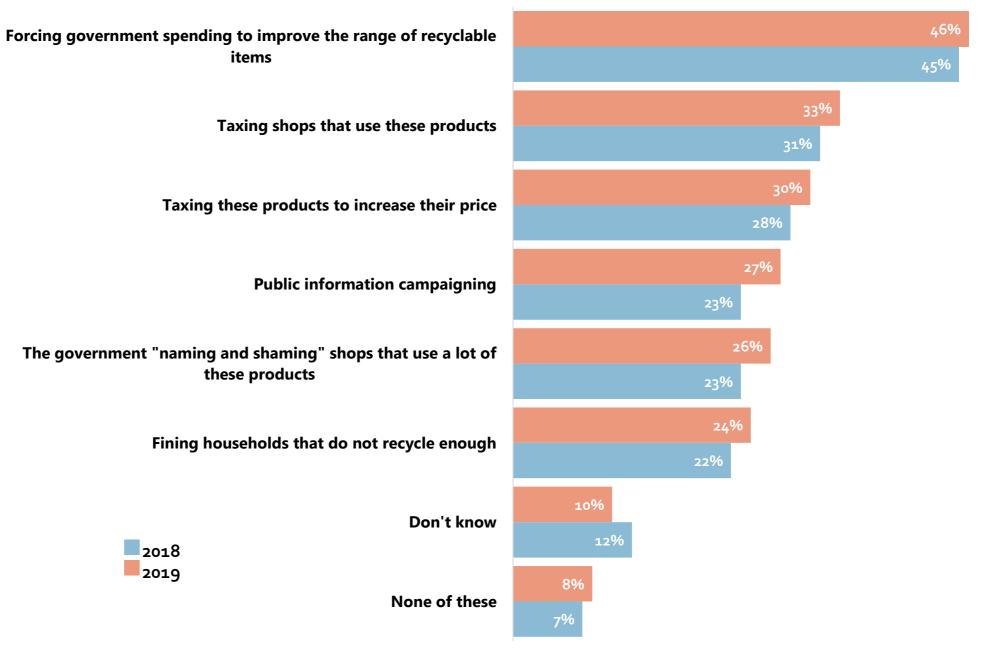




Potential policy actions

2019 vs. 2018, Global data

Q. Which if any of the following do you think would be effective at reducing the problems caused by unnecessary use of plastic and packaging that cannot be recycled?

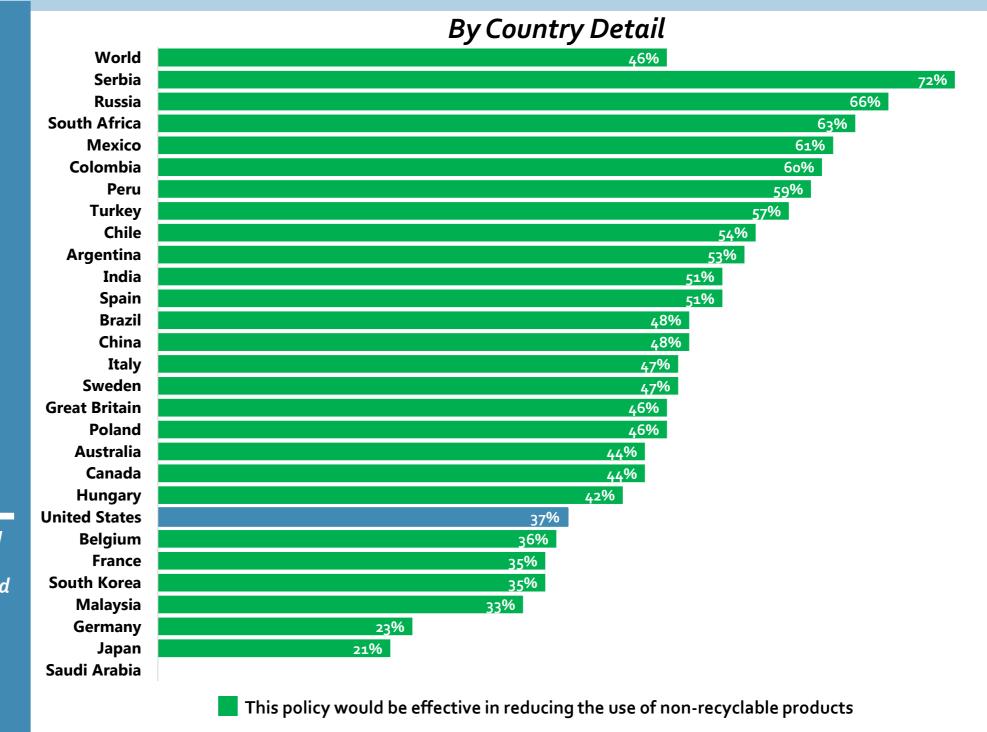




Government investment to improve recycling

• Increasing government investment in recycling would require a tax increase, or a decrease in funding for another sector.

Q. Which if any of the following do you think would be effective at reducing the problems caused by unnecessary use of plastic and packaging that cannot be recycled? – Forcing local government to spend more on recycling so that a wider range of items can be recycled

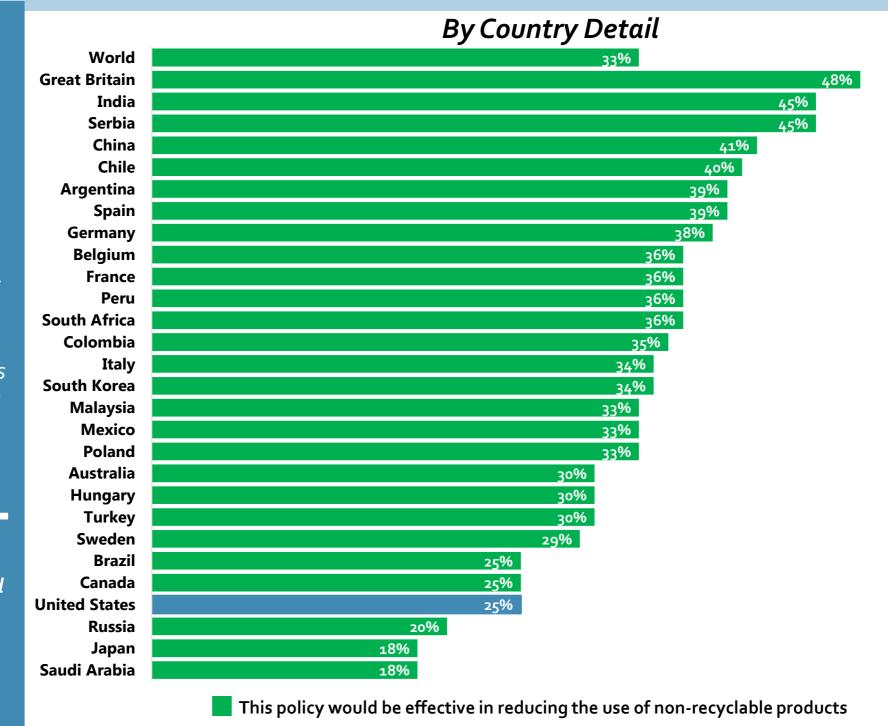




Higher taxes on supermarkets and shops using a lot of non-recyclable packaging

 Increasing taxes on supermarkets or shops that use a lot of this kind of packaging would incentivize these businesses to find alternative products or to raise their prices

Q. Which if any of the following do you think would be effective at reducing the problems caused by unnecessary use of plastic and packaging that cannot be recycled? – Higher taxes on supermarkets and shops which use a lot of packaging that cannot be recycled

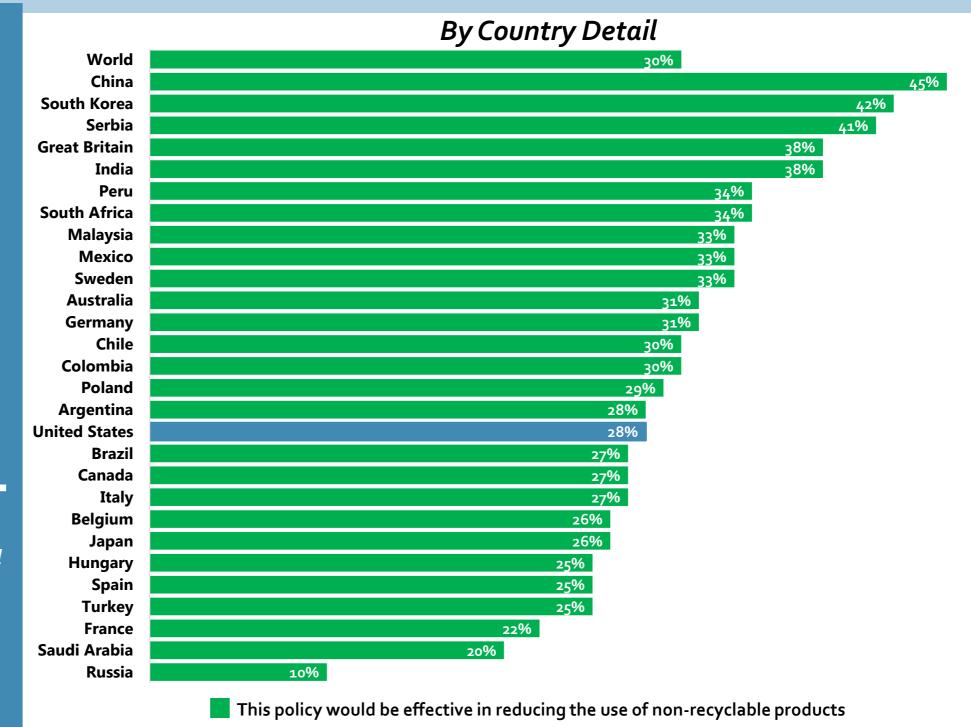




Taxing non-recyclables

 Taxing non-recyclable containers would put the onus of reduction on the consumers of these goods.

O. Which if any of the following do you think would be effective at reducing the problems caused by unnecessary use of plastic and packaging that cannot be recycled? – A tax on containers such as plastic drinks, bottles, and disposable coffee cups that cannot be recycled to increase their price

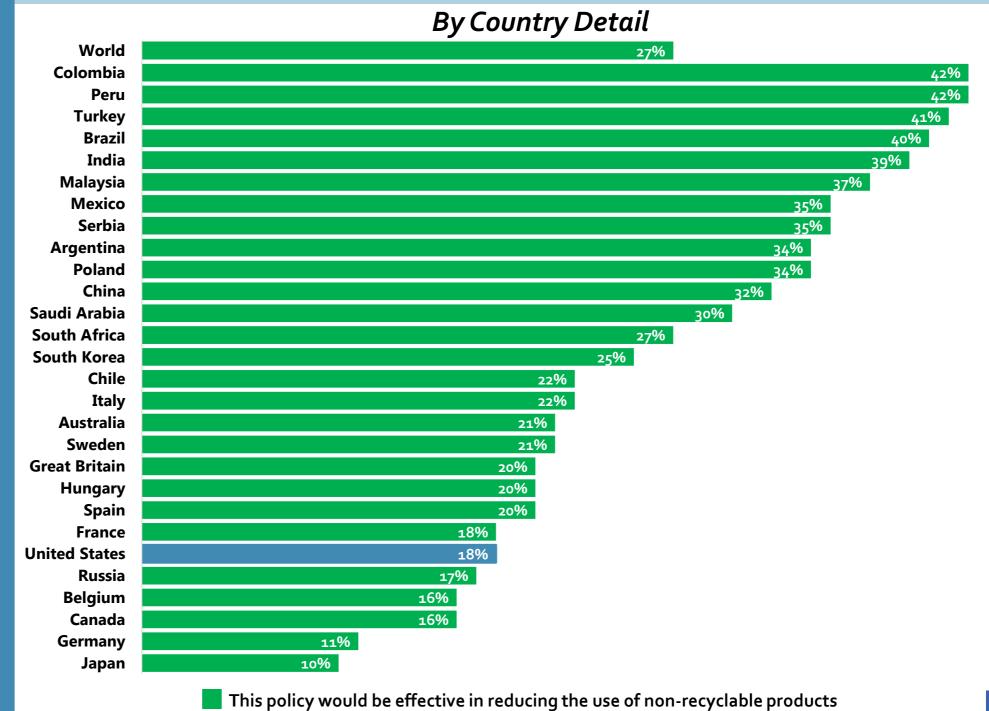




Public info campaign

 A public information campaign seeks to educate consumers and producers about the consequences of their actions in the hope of changing behaviour without a financial incentive

O. Which if any of the following do you think would be effective at reducing the problems caused by unnecessary use of plastic and packaging that cannot be recycled? – A public information campaign funded by taxpayers' money to tell people about the issue

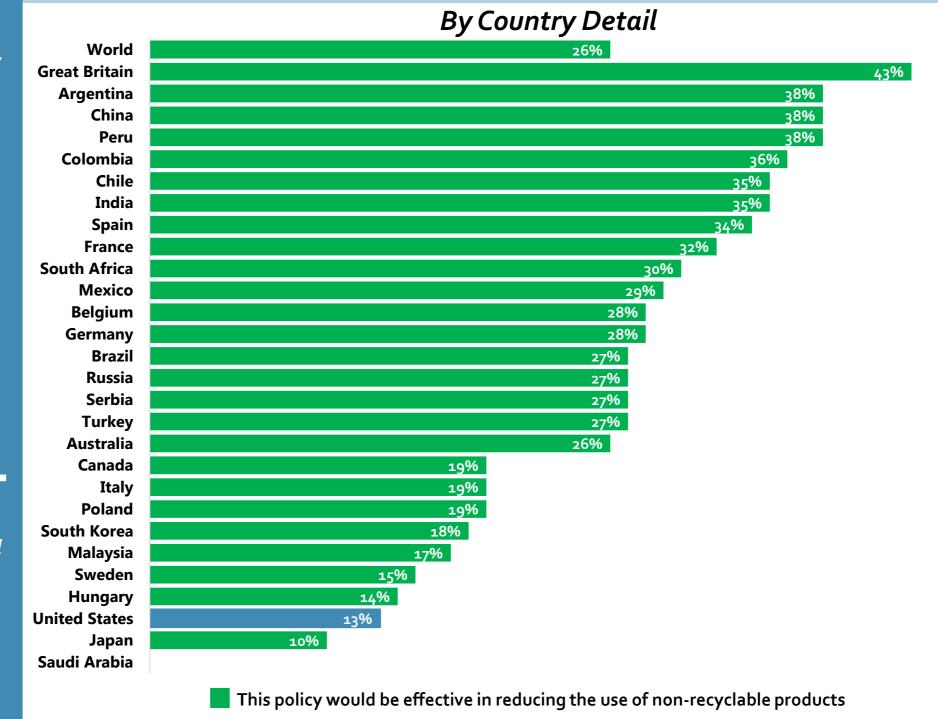




The government "naming and shaming" bad businesses

 "Naming and shaming" culpable businesses could incentivize decreased use if the negative publicity begins to have an effect on sales.

Q. Which if any of the following do you think would be effective at reducing the problems caused by unnecessary use of plastic and packaging that cannot be recycled? – The government "naming and shaming" supermarkets and shops which use a lot of packaging that cannot be recycled

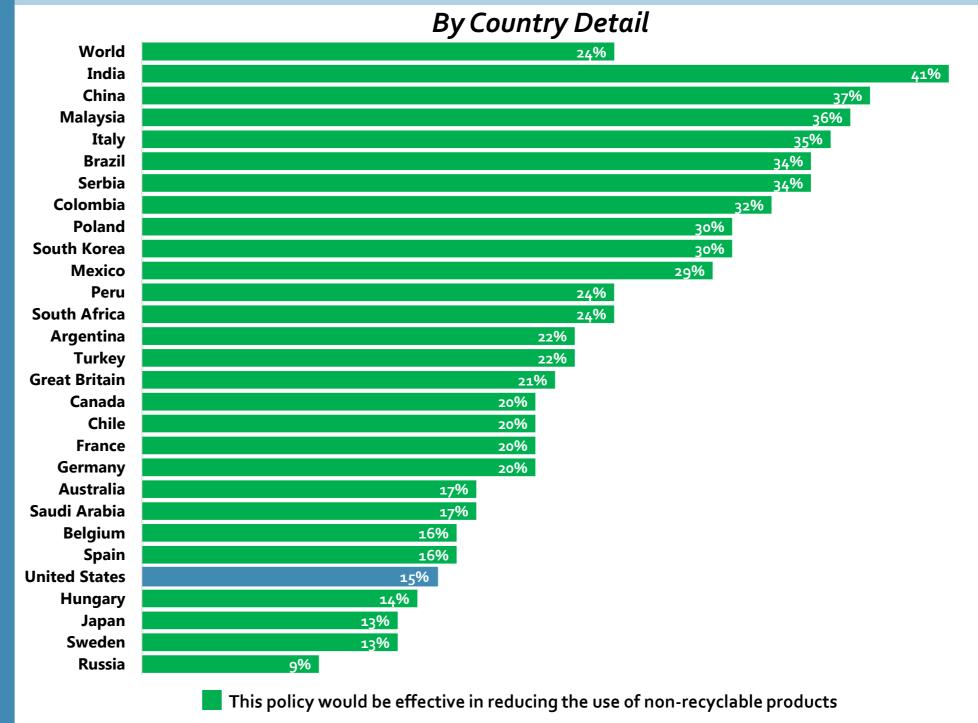




Fines for households that do not recycle enough

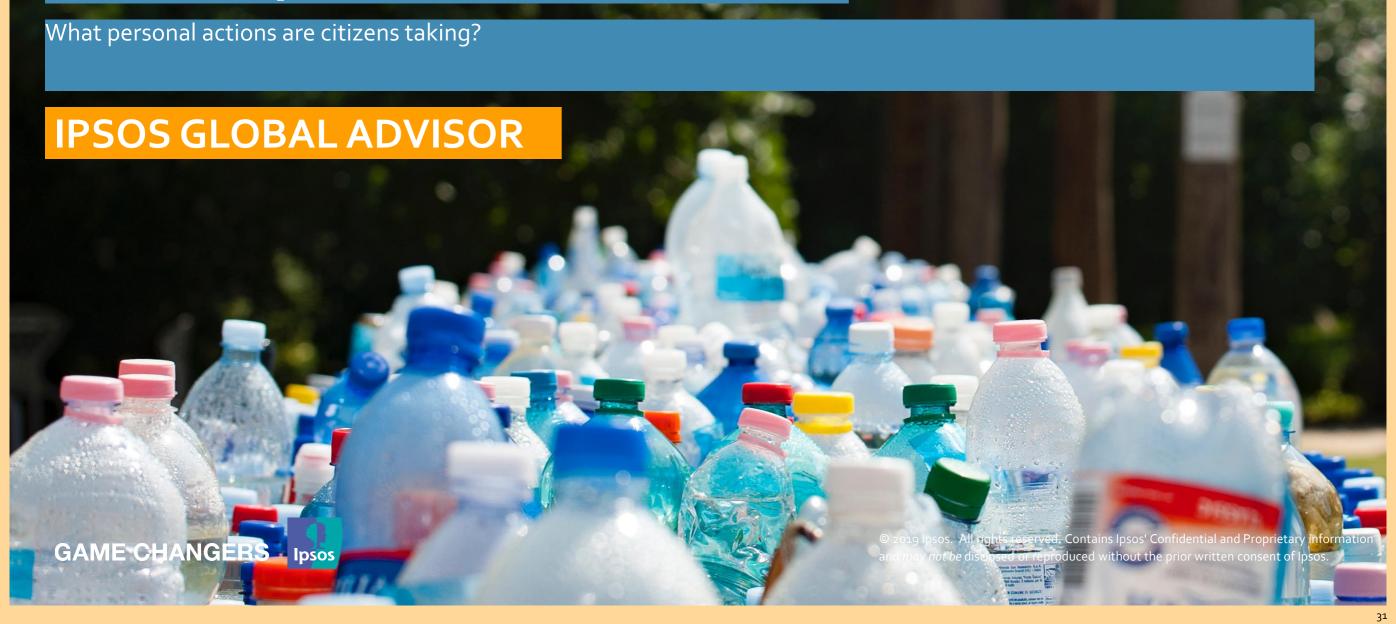
• A fine policy would require investment in the infrastructure that provides households the opportunity to recycle.

Q. Which if any of the following do you think would be effective at reducing the problems caused by unnecessary use of plastic and packaging that cannot be recycled? – Big fines for householders who do not recycle enough of their rubbish





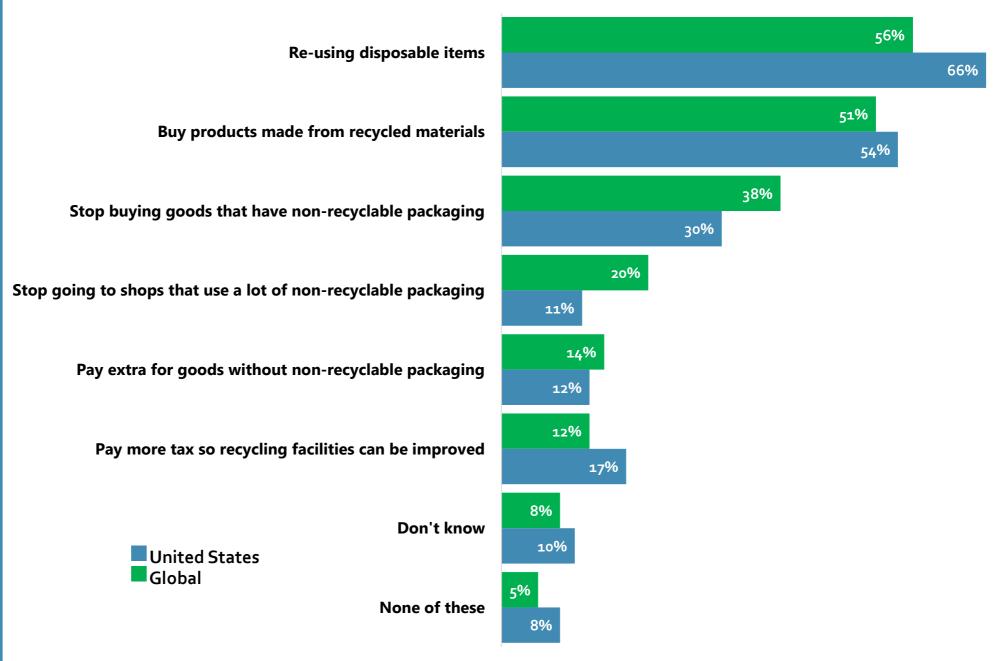
Non-Recyclable Product Waste



Personal actions around the world

 More than half of global respondents are re-using their disposable items to help cut down on waste.

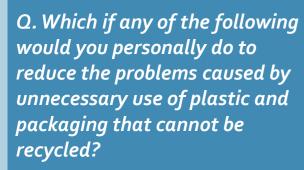
Q. Which if any of the following would you personally do to reduce the problems caused by unnecessary use of plastic and packaging that cannot be recycled?

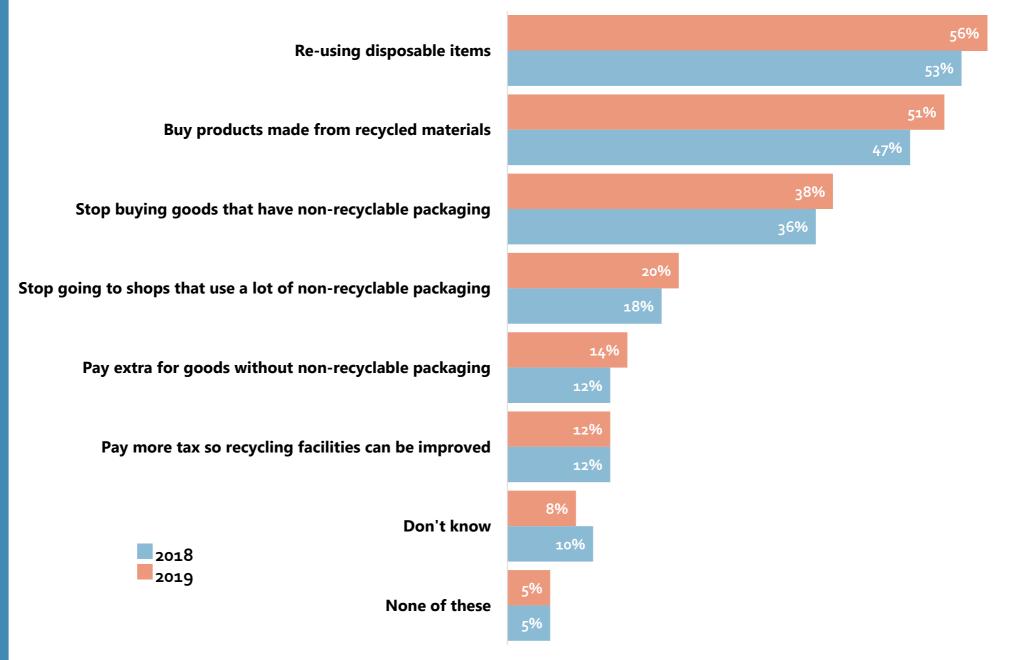




Personal actions around the world

2019 vs. 2018, Global data



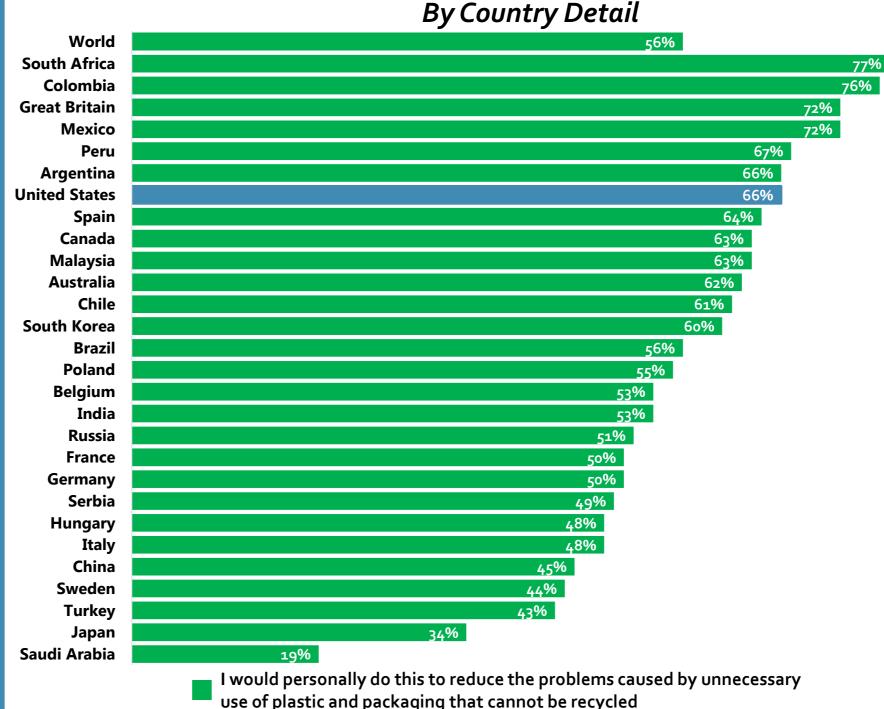


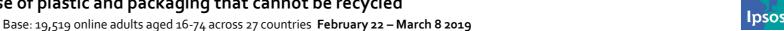


Re-using disposable items

 National Geographic estimates that 40 percent of plastic produced is used once and then discarded.

Q. Which if any of the following would you personally do to reduce the problems caused by unnecessary use of plastic and packaging that cannot be recycled? - Re-use disposable items such as plastic bags and plastic bottles

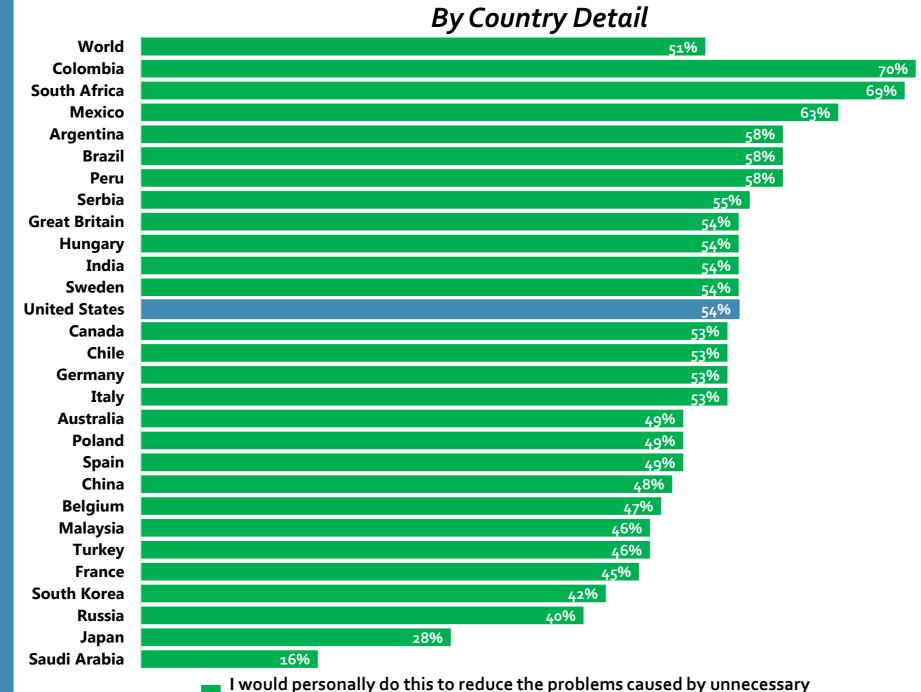




Buy products made from recycled materials

 Every ton of recycled plastic bottles saves 3.8 barrels of oil resources.

Q. Which if any of the following would you personally do to reduce the problems caused by unnecessary use of plastic and packaging that cannot be recycled? - Buy more products made from recycled materials



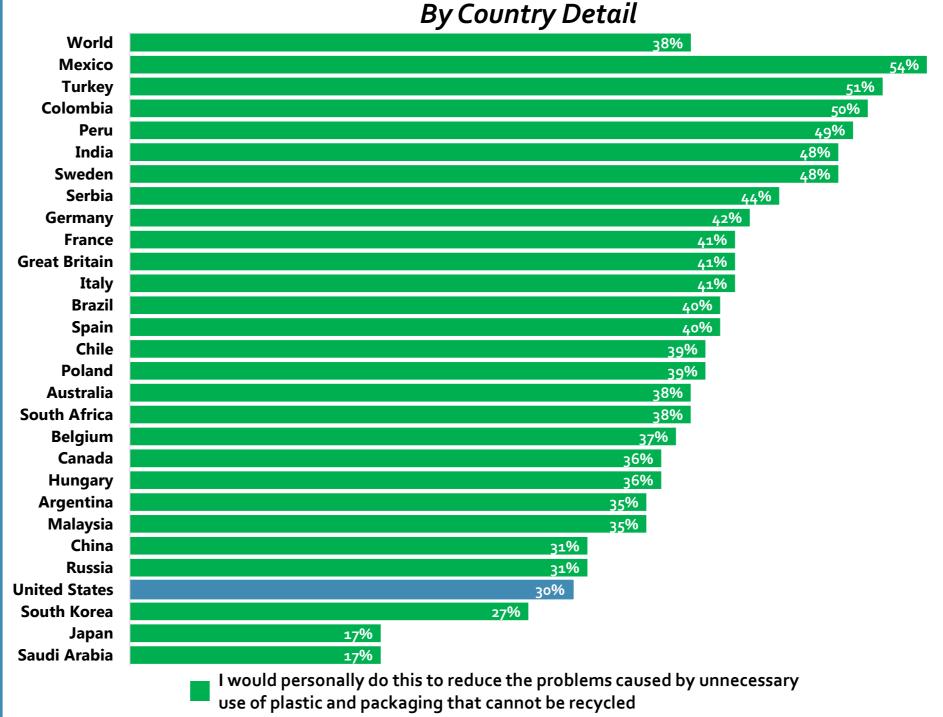


use of plastic and packaging that cannot be recycled

Stop buying goods that have non-recyclable packaging

 Styrofoam is an example of a product commonly used in packaging that is also very difficult to recycle.

Q. Which if any of the following would you personally do to reduce the problems caused by unnecessary use of plastic and packaging that cannot be recycled? - Stop buying goods that have packaging that cannot be recycled

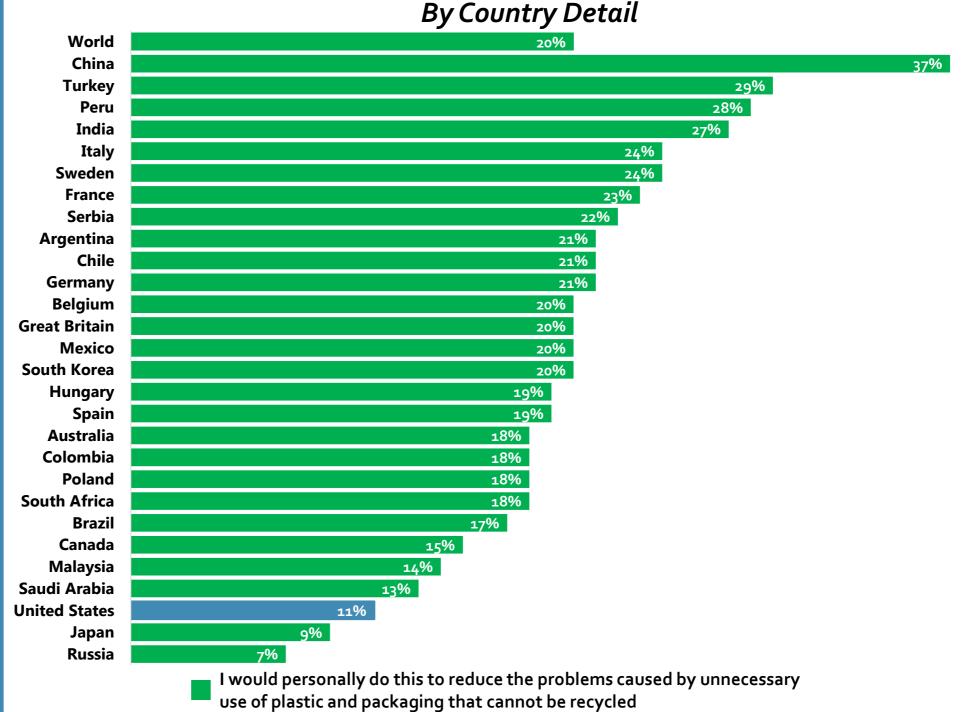




Stop going to supermarkets and shops that use a lot of non-recyclable packaging

 This is one of the actions that information campaigns rely on to make change.

Q. Which if any of the following would you personally do to reduce the problems caused by unnecessary use of plastic and packaging that cannot be recycled? - Stop going to supermarkets and shops which use a lot of packaging that cannot be recycled



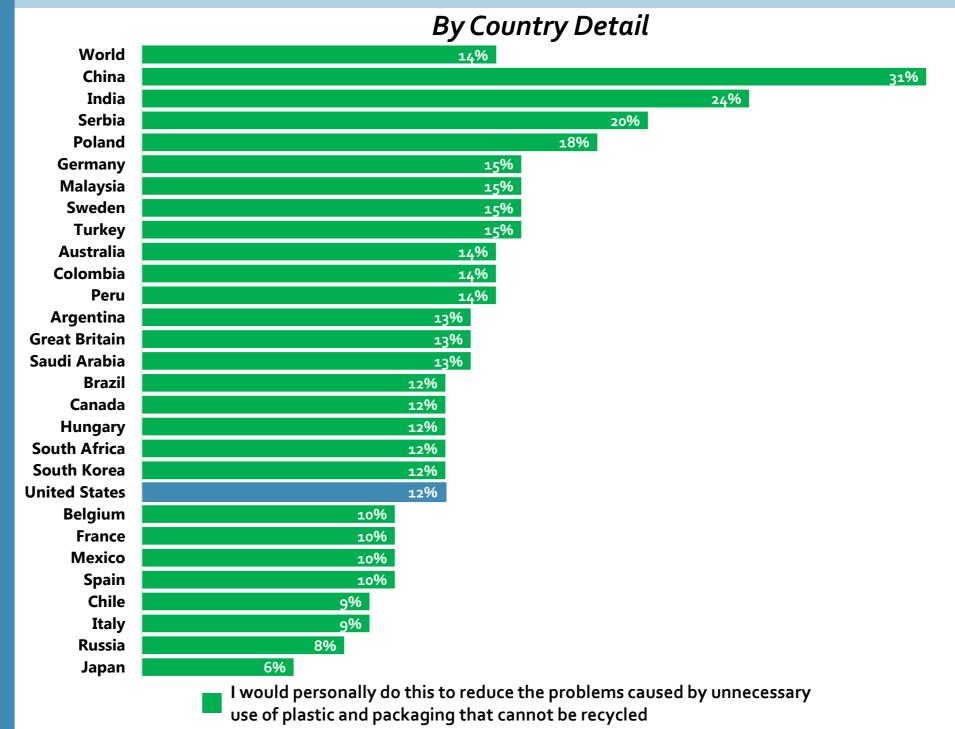
Base: 19,519 online adults aged 16-74 across 27 countries February 22 - March 8 2019

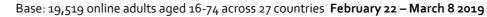


Pay extra for goods without non-recyclable packaging

 Those who pay extra for goods without nonrecyclable packaging are said to be purchasing "utility" in the form of the feeling of environmental responsibility.

Q. Which if any of the following would you personally do to reduce the problems caused by unnecessary use of plastic and packaging that cannot be recycled? - Pay extra for goods that have no packaging that cannot be recycled



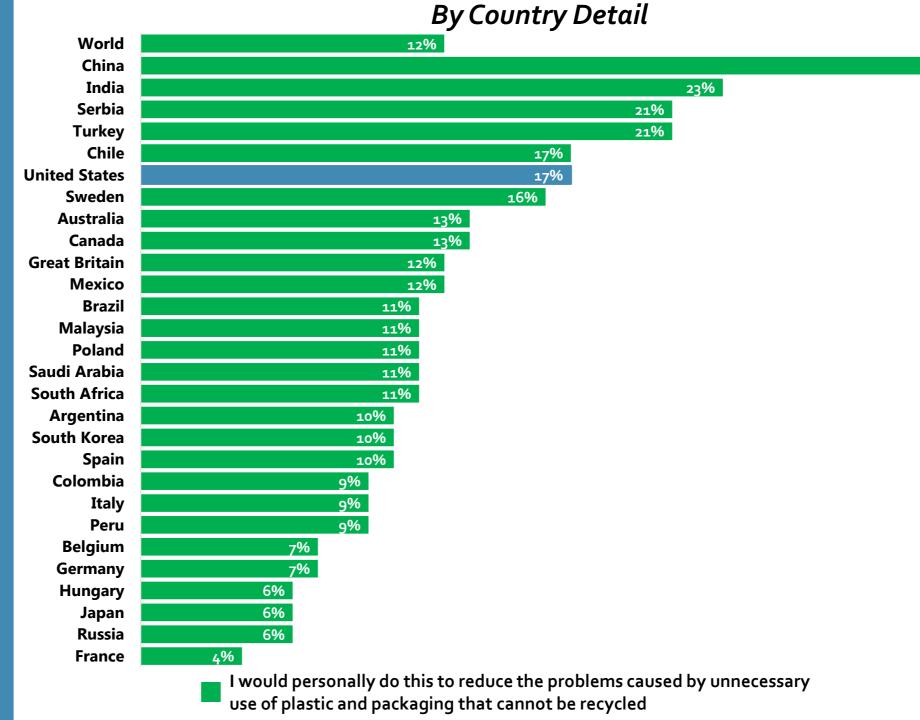


lpsos

Pay higher taxes

 Paying higher taxes would aid the government in recycling facility investment.

Q. Which if any of the following would you personally do to reduce the problems caused by unnecessary use of plastic and packaging that cannot be recycled? - Pay more tax so recycling facilities can be improved, allowing a wider range of items to be recycled





33%

Unrecyclable Product Waste

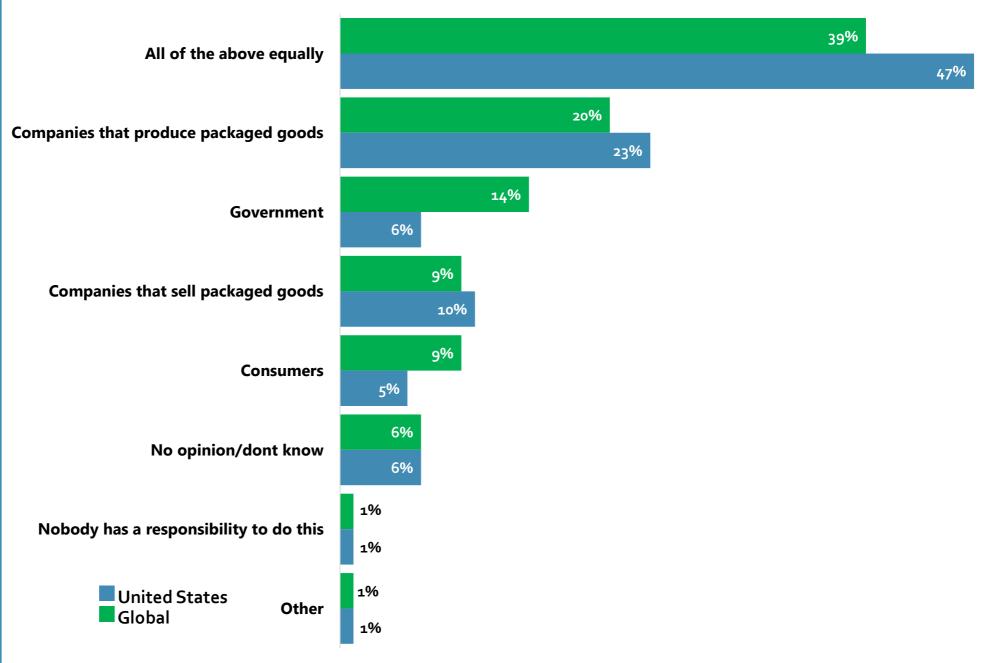
Who should lead efforts to reduce unrecyclable product waste?



Who's responsible?

 A majority of people worldwide believe somebody has the responsibility for reducing unnecessary packaging.

Q. Who if anybody do you believe should take most responsibility for finding a way to reduce the amount of unnecessary packaging which is sold?





Who's responsible? 2019 vs. 2018, Global data

Consumers Companies that sell packaged goods 10% No opinion/don't know Nobody has a responsibility 2018 2019 Other

All of the above equally

Government

Companies that produce packaged goods

Q. Who if anybody do you believe should take most responsibility for finding a way to reduce the amount of unnecessary packaging which is sold?



37%

20%

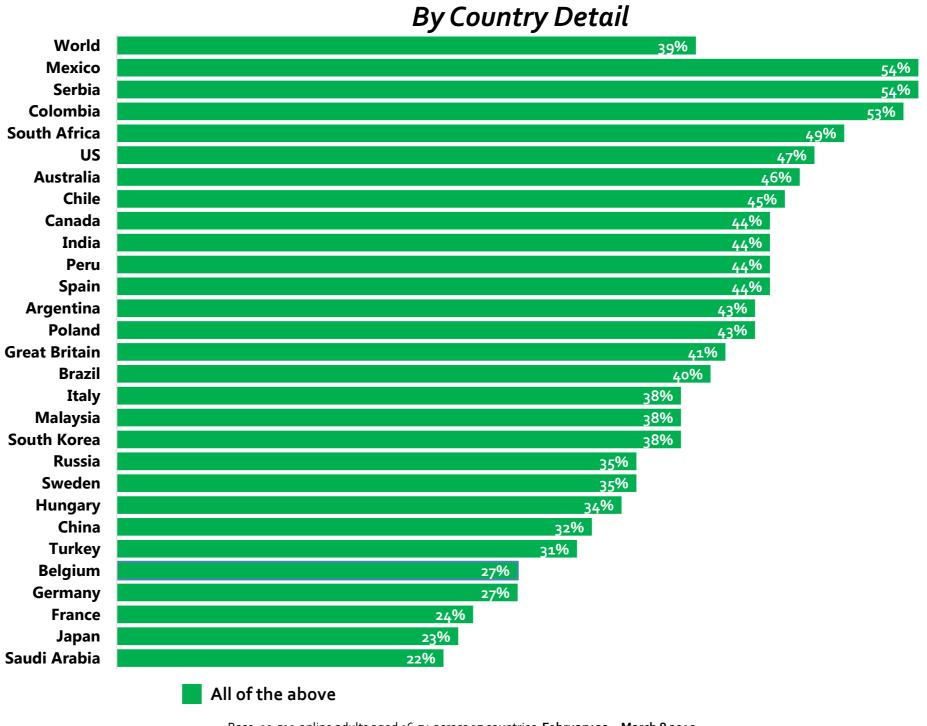
14%

16%

All of the above

 Some people believe that all parties should be held responsible for recycling

Q. Who if anybody do you believe should take most responsibility for finding a way to reduce the amount of unnecessary packaging which is sold? - All of the above equally

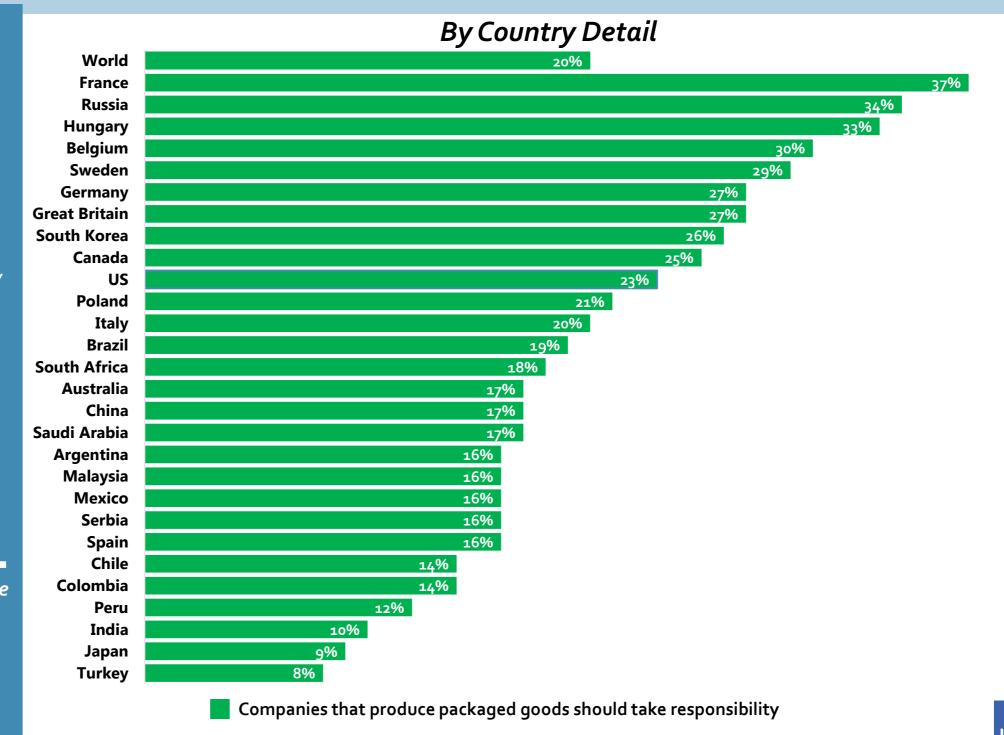




Packaged good producers

• If packaged good producers took the responsibility, they would need to reduce their production, which would harm profits, or find alternative methods of packaging.

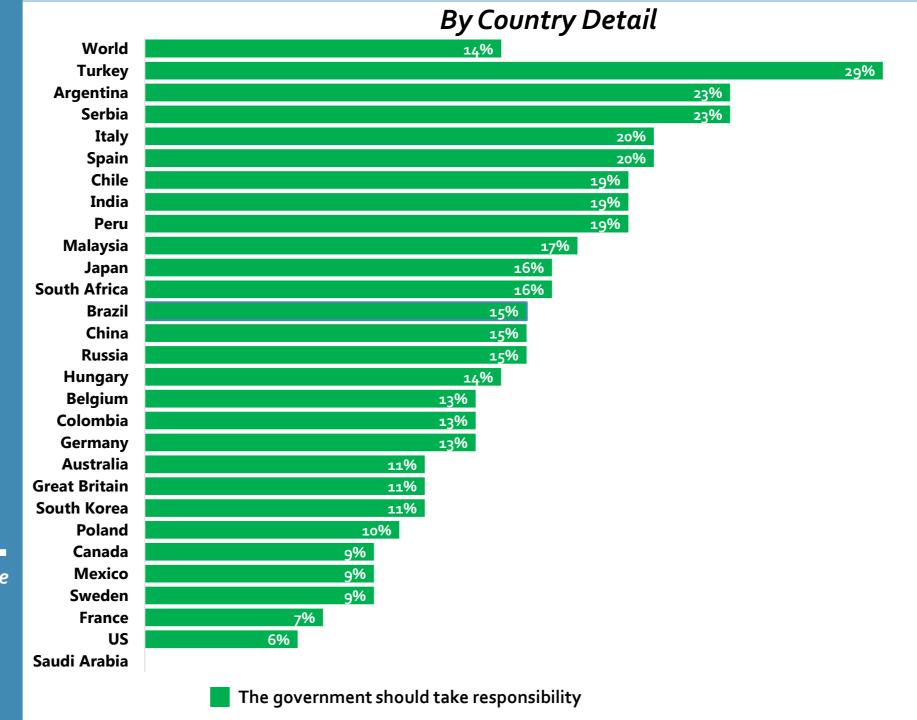
Q. Who if anybody do you believe should take most responsibility for finding a way to reduce the amount of unnecessary packaging which is sold? - Companies that produce packaged goods



The government

• If the government takes responsibility for the issue, they would need to either invest in infrastructure to reduce unnecessary packaging or create policy to incentivize producers, sellers, or consumers to purchase less of these items.

Q. Who if anybody do you believe should take most responsibility for finding a way to reduce the amount of unnecessary packaging which is sold? - The government

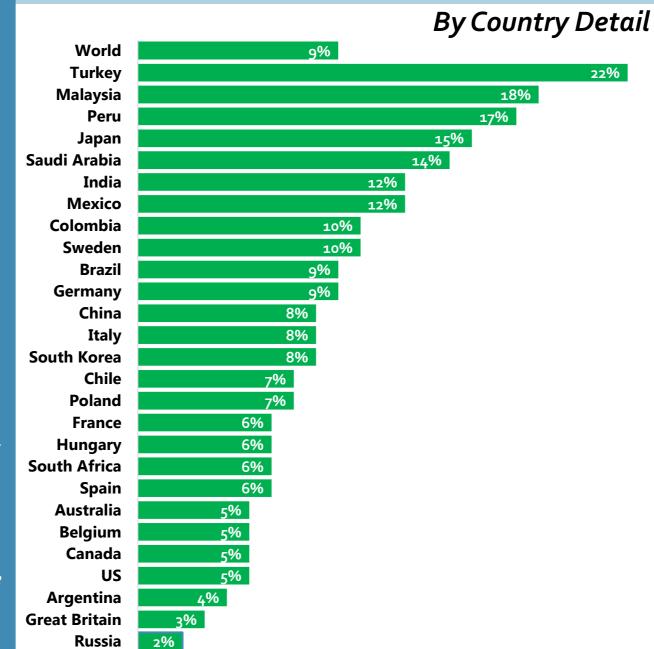


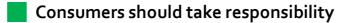


Consumers of packaged goods

- If consumers bear the responsibility for the issue, they would have to choose to buy from responsible sellers.
- This would then incentivize sellers to become responsible, in turn incentivizing producers to decrease their production of unnecessary packaging.

Q. Who if anybody do you believe should take most responsibility for finding a way to reduce the amount of unnecessary packaging which is sold? - Consumers





2%

Serbia

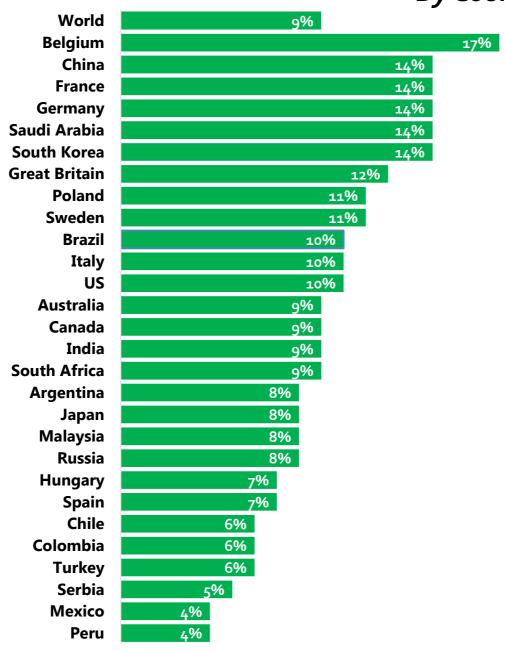


Sellers of packaged goods

- Sellers of packaged goods are the middlemen, buying from those who produce packaged goods in order to sell to individual consumers.
- If they take responsibility, they would need to find alternative goods to sell to consumers.

Q. Who if anybody do you believe should take most responsibility for finding a way to reduce the amount of unnecessary packaging which is sold? - Companies that sell packaged goods

By Country Detail



Companies that sell packaged goods should take responsibility



- These are the findings of the Global Advisor, an Ipsos survey conducted between February 22 to March 8, 2019.
- The survey was conducted in 28 countries around the world, via the Ipsos Online Panel system in Argentina, Australia, Belgium, Brazil, Canada, Chile, China, Colombia, France, Germany, Great Britain, Hungary, India, Italy, Japan, Malaysia, Mexico, Peru, Poland, Russia, Saudi Arabia, Serbia, South Africa, South Korea, Spain, Sweden, Turkey, and the USA.
- For the results of the survey presented herein, an international sample of 19,519 adults ages 19-74 in South Korea, 18-74 in the US, Canada, China, Malaysia, South Africa and Turkey, and ages 16-74 in all other countries, were interviewed. Approximately 1000+ individuals participated on a country by country basis via the Ipsos Online Panel, with the exception of Argentina, Belgium, Chile, Colombia, Hungary, India, Malaysia, Mexico, Peru, Poland, Russia, Saudi Arabia, South Africa, South Korea, Sweden and Turkey, where each have a sample approximately 500+.

- 15 of the 28 countries surveyed online generate nationally representative samples in their countries (Argentina, Australia, Belgium, Canada, France, Germany, Great Britain, Hungary, Italy, Japan, Poland, South Korea, Spain, Sweden, and United States).
- Brazil, China, Colombia, Chile, India, Malaysia, Mexico, Peru, Russia, Saudi Arabia, South Africa and Turkey produce a national sample that is more urban & educated, and with higher incomes than their fellow citizens. We refer to these respondents as "Upper Deck Consumer Citizens". They are not nationally representative of their country.
- Weighting was then employed to balance demographics and ensure that the sample's composition reflects that of the adult population according to the most recent country Census data, and to provide results intended to approximate the sample universe. A survey with an unweighted probability sample of this size and a 100% response rate would have an estimated margin of error of +/-3.1 percentage points for a sample of 1,000 and an estimated margin of error of +/- 4.5 percentage points 19 times out of 20 per country of what the results would have been had the entire population of adults in that country had been polled. All sample surveys and polls may be subject to other sources of error, including, but not limited to coverage error, and measurement error.



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