ECOLOGICAL TRANSFORMATION:

« Are we ready? »

BAROMETER OF THE ECOLOGICAL TRANSFORMATION





ECOLOGICAL EMERGENCY

Are we ready?

1972

Stockholm Conference, first international conference of the United Nations on the environment and launch of the Earth Summits.



1985

Discovery of a hole in the ozone layer by scientists. To date, the only climate issue that has not deteriorated.

1951

First report on the state of the environment by the International Union for Conservation of Nature.

1997

Kyoto Protocol on climate change, **38 countries commit to reducing their greenhouse gas emissions** by an average of 5.2% within 15 years, compared to 1990 levels.

1978

The Amoco Cadiz, a Liberian supertanker sank and released 227,000 tons of oil off the coast of Brittany. **The worst oil spill of the 20th century** opened the way and became the first legal case to succeed in terms of oil pollution.

1990

First assessment report of the IPCC (Intergovernmental Panel on Climate Change)

2007

The former vice-president of the United States, Al Gore, was awarded the Nobel Peace Prize jointly with the IPCC, after having highlighted the dramatic consequences of global warming, notably in the documentary "An Inconvenient Truth".



1997

Discovery of the North Pacific waste vortex, also called 7th continent.

1992

First Earth Summit in Rio and signing of Agenda 21 by more than 170 countries, a program of actions to be transposed locally by governments and institutions, in all areas of human activity.

2021

Glasgow Conference on Climate Change (COP26), which resulted in the "Glasgow Climate Pact", thus completing the Paris agreement with notable advances concerning the exit from oil and gas and the 1.5°C ambition.



2015

The **Paris Agreement** was adopted at the Paris Climate Conference (COP 21). The signatory states commit to keeping the global temperature increase below 2°C, or even below 1.5°C by 2100.



2019/2020

"Black summer" in Australia: mega-fires ravage nearly 19M hectares of vegetation and thousands of homes...



2021

Warmest summer on record in Europe according to the European climate change monitoring service Copernicus.



1987

their needs."

Future" by the World

and Development (UN)

Brundtland Report "Our Common

Commission on Environment

establishes the definition of

pattern of development that meets the needs of the present without compromising the ability

of future generations to meet

sustainable development as "a

Record floods in Pakistan following intense drought, 10% of the country flooded since the beginning of the monsoon





WHY THE BAROMETER OF THE ECOLOGICAL TRANSFORMATION?

The debate around ecology has entered a new phase which is struggling to be structured on common grounds. If there is a consensus on the risks for the planet and all of humanity, the solutions to reduce our impact are still little debated and divide.

IPCC reports, climate strategies, Green New Deal, COP: the proposals to fight against climate change, biodiversity loss and pollution are numerous. But their adoption and large-scale deployment raises a major question: are the changes needed to lead the "battle of the century" socially, economically and culturally acceptable to human communities?

This question is at the heart of the Barometer of the ecological transformation carried out with a sample covering **more than half of the world's population** on the 5 continents.

This barometer aims to **make the public debate concrete** by working on **solutions**, and to understand **the obstacles and levers** of their **acceptability** to accelerate the transition.

3 thematic axes

Climate change

Pollution and resource scarcity

Threats to biodiversity and food security

A novel angle: the acceptability of ecological solutions

Are there **psychological**, **economic or cultural obstacles** to the transition?

Are we ready to bear or accept the cost of the ecological transformation?

How far are we ready to go? How **radical** should the **change** be?

What levers could improve the acceptability of ecological solutions?

How does the world public opinion project itself in a "transformed world"?





Methodology



Selection of target countries

A survey conducted in **25 countries** in **5 continents** with more than **25,000 individuals** (about **1,000 per country**).

Countries were chosen for their demographic weight, their weight in terms of GHG emissions and to ensure a diversity of political and cultural ecological histories. Overall, these countries represent nearly 60% of the world's population and 68% of global GHG emissions.

See details on the next page.



Collection method and field dates

A survey conducted online from August 24 to September 26, 2022.

Sample representativeness

For each of the 25 countries, a representative sample of residents aged 18 and over was selected. The representativeness was ensured according to the quota method applied to the following variables: gender, age, socio-professional category or income (depending on the country) and region of residence.

(i) Results "World Opinion"

To constitute the **results of the "world opinion"**, an **equivalence between countries was privileged** (each country counts for 1, no weighting according to the number of inhabitants). This choice was made to ensure that the diversity of countries is represented and thus avoid "world opinion" being only the average of the results of the most populous countries (China and India in particular).

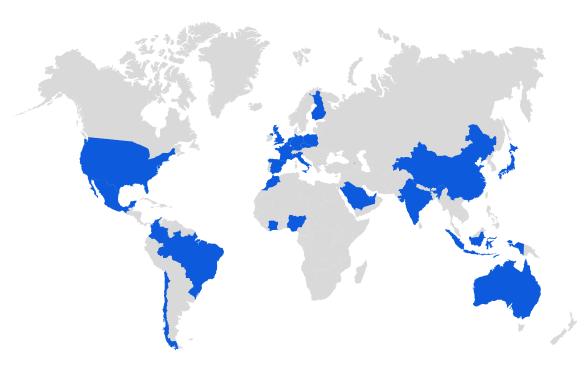
(1) Frequency of the barometer

Every 18 months (long period of evolution of representations, opinions and behaviour).





25 target countries



				Number of people interviewed	Pop. of the country on global pop.	Share of the country in global GHG emissions
			TOTAL	25 111	59,4%	67,7%
AFRI	CA					
1		CIV	Ivory Coast	1 005	0,3%	0,1%
2	*	MAR	Morocco	1 030	0,5%	0,2%
3		NGA	Nigeria	1 000	2,6%	0,7%
AME						
4	(S)	BRA	Brazil	1 006	2,7%	2,3%
5	4	CHL	Chile	1 006	0,2%	0,2%
6	_	COL	Colombia	1 005	0,6%	0,4%
7	#	USA	United States	1 002	4,2%	13,0%
8	(*)	MEX	Mexico	1 003	1,6%	1,4%
	ERN A			1.000	10.10	07.40
9	3	CHN	China	1 000	18,1%	27,4%
10	•	IND	India 	1 002	17,5%	7,3%
11		IDN	Indonesia	1 000	3,5%	2,2%
12 EUR)DE	JPN	Japan	1 004	1,6%	2,5%
13	JPE	DEU	Germany	1 006	1,1%	1,6%
14	7	BEL	Belgium	1 008	0,1%	0,2%
15	×	ESP	Spain	1 000	0,6%	0,2%
16	ŏ	FRA	France	1 001	0,8%	0,9%
17	¥	FIN	Finland	1 003	0,1%	0,1%
18	Ò	ITA	Italy	1 002	0,8%	0,8%
19	<u> </u>	NDL	Netherlands	1 002	0,2%	0,4%
20		POL	Poland	1 000	0,5%	0,8%
21		CZE	Czech Republic	1 005	0,1%	0,3%
22	ALE VID	GBR	United Kingdom	1 003	0,9%	1,0%
	OLE EA				3,2 .0	1,0.0
23	1999	SAU	Saudi Arabia	1 002	0,4%	1,6%
24	C	ARE	United Arab Emirates	1 011	0,1%	0,5%
OCE/						
25	6	AUS	Australia	1 005	0,3%	1,3%





Humanity facing the « wall »

Climate and ecological vulnerability



History is accelerating



11 000 disasters attributed to climate change between 1970 and 2019



3,3 to 3,6 billionpeople are considered **"highly vulnerable"** to climate change



The 7 last years are the warmest ever recorded on a global scale



9 million premature deaths related to pollution in 2019

216 million climate refugees could flee their homes due to famine, lack of water, or rising seas by 2050



1 billion inhabitants of coastal areas will be threatened by erosion and rising sea levels by 2050

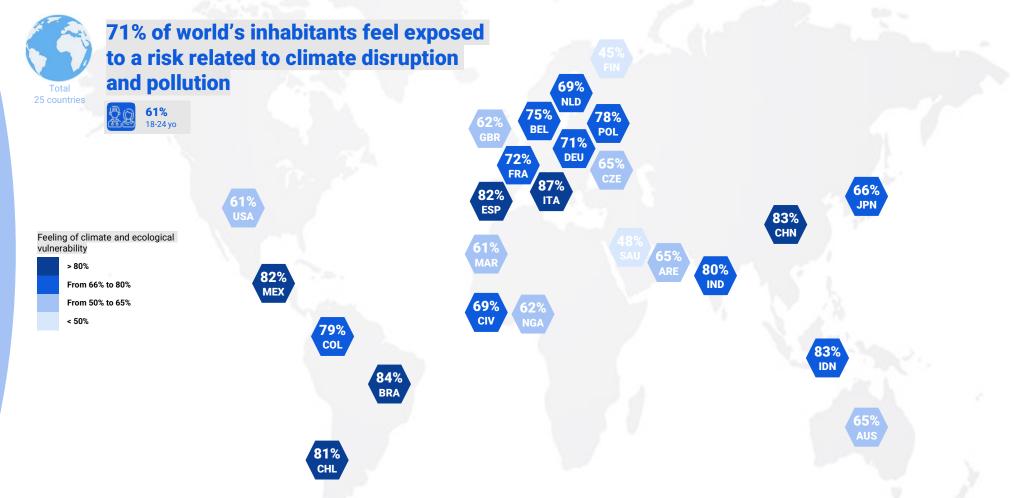


As much CO2 was emitted by the megafires of summer 2021 as Covid-related health restrictions had prevented





And humanity is now united by the same feeling of fragility



Question: When you think about the risks related to climate disruption and pollution (water, air, soil), do you... personally feel exposed and vulnerable to them? Feel that your country is exposed and vulnerable to them?





My body, my home, my country: all vulnerable to environmental and climate risks



71% of world's inhabitants feel exposed to a risk related to climate disruption and pollution

The degradation of the ecosystem, the biodiversity in my country

(disappearance of animals, flora, etc.)

Having increasingly harsh living conditions

(extreme temperatures, limiting water consumption in case of drought, etc.)

Migratory movements

(caused by pollution and the consequences of climate disruption: drought, famine, etc.)

Falling ill owing to pollution

(water, air, soil)

Property damage caused by natural disasters

(floods, droughts and severe weather events)

74%



64% 18-24 yo

74%



64% 18-24 yo **70%**



59% 18-24 yo 68%



61% 18-24 yo

68%



59% 18-24 yo

Question: When you think about the risks related to climate disruption and pollution (water, air, soil), do you... personally feel exposed and vulnerable to them? Feel that your country is exposed and vulnerable to them?





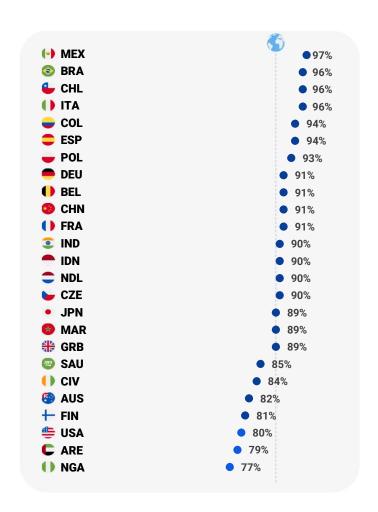
The certainty that climate disruption is underway

89%

of world's inhabitants share the certainty that

a **CLIMATE DISRUPTION** is **CURRENTLY HAPPENING**



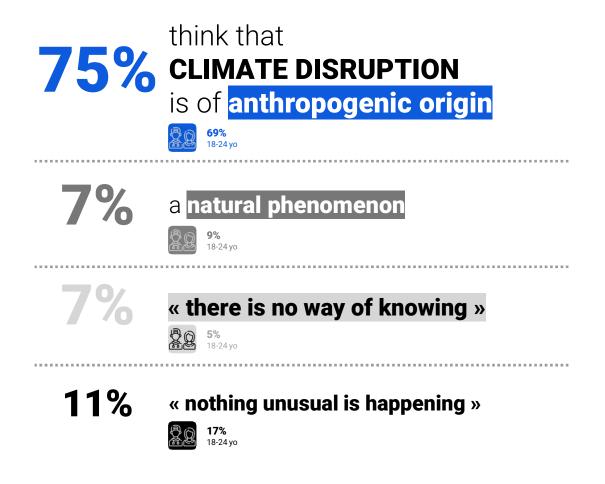


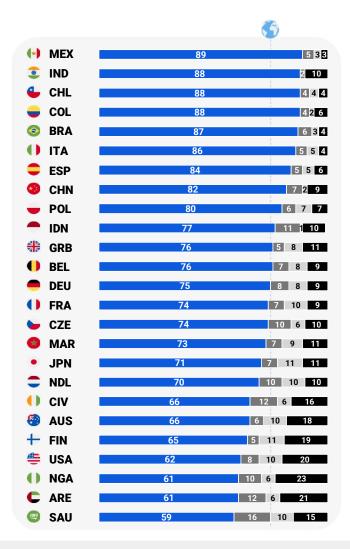
Question: Would you personally say that climate disruption is currently happening on our planet?





And that human activity is responsible





Question: Do you think that human activity is responsible for climate disruption or not?





Eco-anxiety disrupts present and future

are worried and anxious about the future to the point of not being at peace, or even giving up long-term projects such as having children



34% 18-24 yo

are concerned about the situation, without stopping them from being at peace or making long-term plans

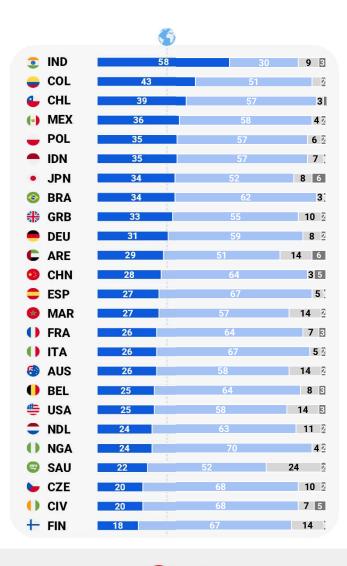


« there is really nothing to worry about »



2% don't know

Question: When you think about climate disruption and the environmental situation (pollution, quality of biodiversity), which phrase best describes how you feel?







The end of a world, but not the end of the world



Neither resignation nor impotence

think that the future is still in our hands

We can still limit climate disruption and pollution



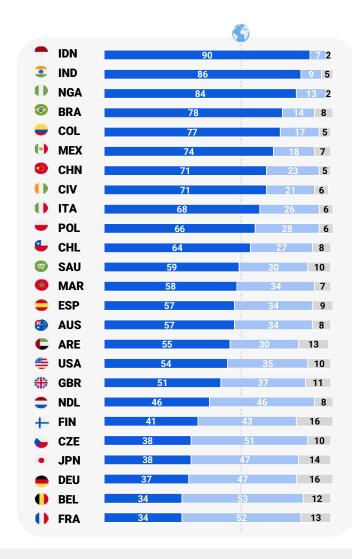
30% have a doubt



8% think it is too late



Question: And do you think we still have the future in our hands, that we can still limit climate disruption and pollution, or is it too late?







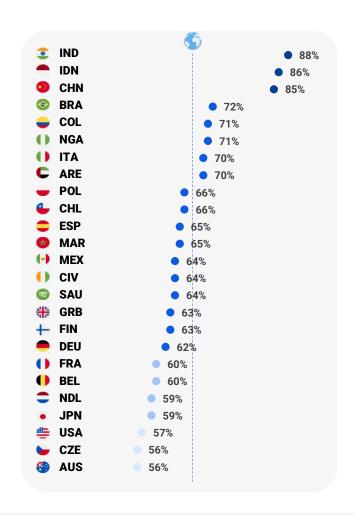
The belief that doing nothing will cost more than doing something

67%

are certain that the costs caused by climate disruption and pollution are going to be more important than the investments needed for the ecological transformation







Question: Experts say that the costs caused by the damage linked to climate disruption and pollution are going to be greater than the investments needed for the ecological transition of our societies. Do you personally feel that this fact is true or false?





Act collectively



3 useful actors to take action for the success of the ecological transformation (cited on average)



Citizens



States



Local authorities



Businesses



Charities, NGOs

66%

20

60% 18-24 yo 60%



50% 18-24 yo

58%



49% 18-24 yo

55%



43% 18-24 yo

39%



37% 18-24 yo



Question: In your opinion, who needs to take action for the success of the ecological transformation?





To reduce AND invent

55%

think we need to

CHANGE our ways of life, live for frugally

AND

PUT IN PLACE technological solutions

to reduce climate disruption



23%

think we need first to PUT IN

PLACE technological

solutions



21%

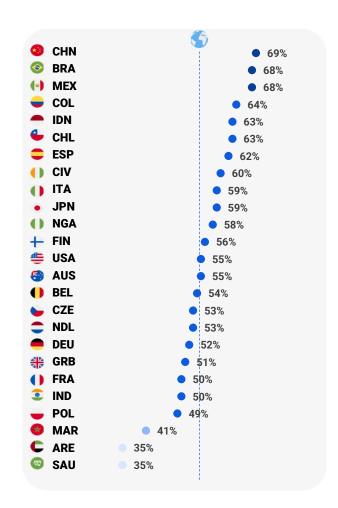
think we need first to

CHANGE our ways of life, live

more frugally



Question: Generally speaking, when you think about the changes to be implemented to limit climate disruption and pollution, do you think that first and foremost we need to ...?







Draw me the transformed world ...

60%

find it difficult to imagine what daily life could be like if we achieved the global ecological transformation

incl. 36% have a vaque idea but it is still unclea

incl. 24%

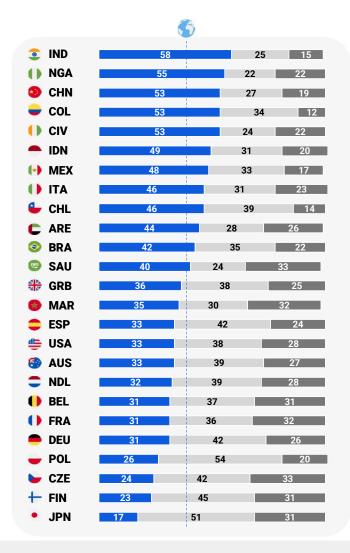
can't really see



find it quite easy to imagine what the world and our daily lives might look like after the ecological transformation



Question: When you hear that we need to change a number of things in society and in our lifestyles to limit climate disruption and reduce pollution, do you find it easy or difficult to imagine what daily life could be like if we achieved the ecological transformation?







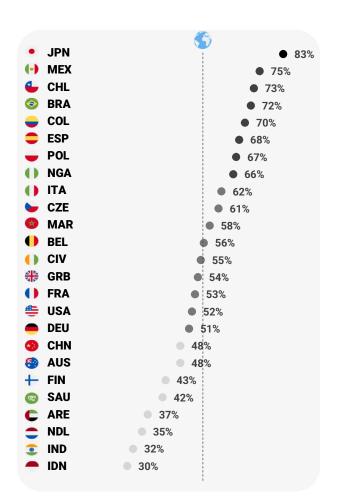
And tell me about the solutions

56%



believe we do **NOT TALK enough** about the **SOLUTIONS TO PUT IN PLACE** to mitigate pollution and climate disruption



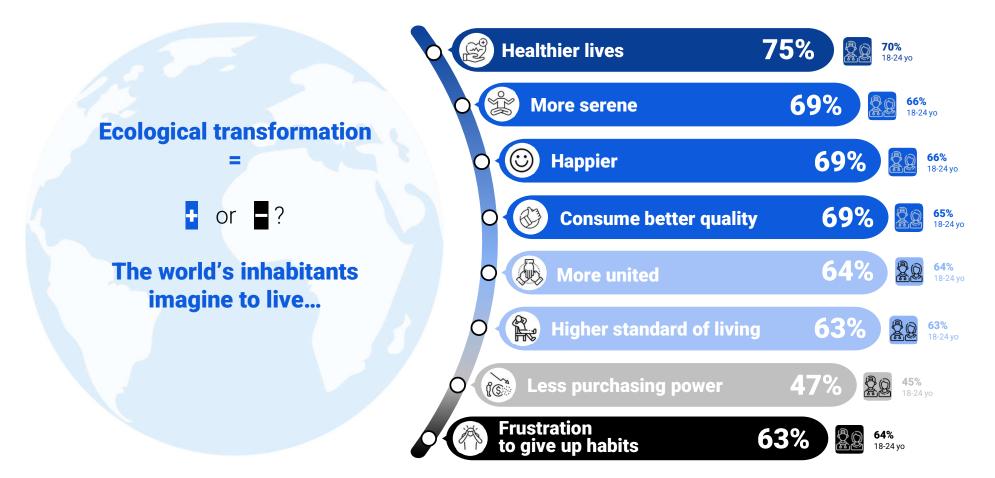


Question: In your country, would you say that there is enough or not enough talk about the solutions to be put in place (lifestyle changes, technological innovations, regulations, etc.) to mitigate pollution and climate disruption and adapt to the consequences thereof?





The choice of hope as a banner: the transformed world is imagined to be "better"



Question: If you imagine the world we would live in if we achieve the ecological transformation, in your opinion...?





Ecological transformation?

Ready!



6 world's
inhabitants out of 10
declare they are
ready to accept
90% of changes that
ecological solutions
would involve

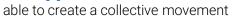
Question: Would you personally be willing to ...?





The path to acceptability

Share a real plan for the future of society that appeals and motivates.





Guarantee that the solution does not present a health risk,

or that it contributes to protecting or improving health and quality of life





Certainty that the solution is really useful (demonstration of the contribution to the fight - reduction of emissions, depollution, food sovereignty, energy ...)



Bearable economic and cultural

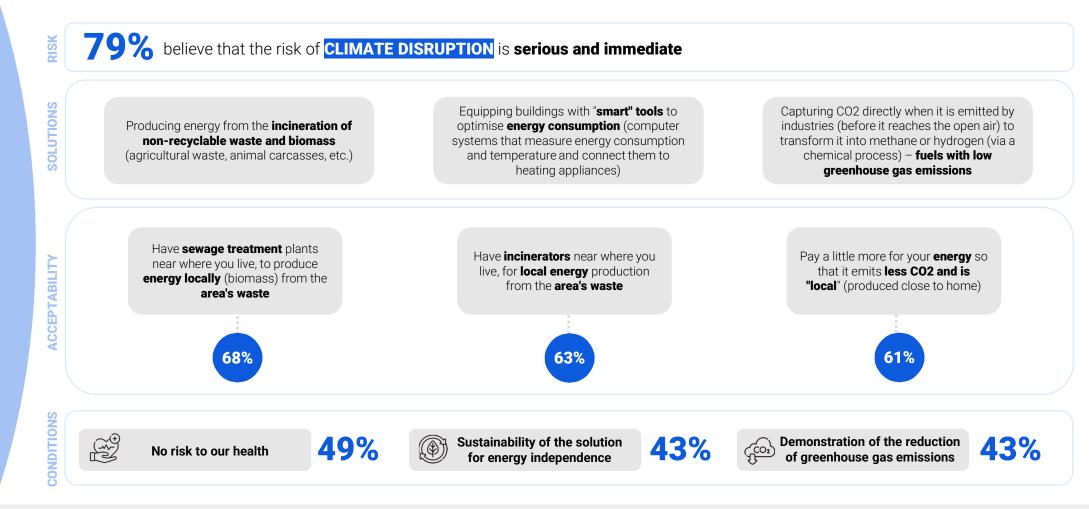
costs: progressive changes, equitable distribution of the additional financial cost (social justice) and majority adoption of the practice

Question: What might make you more willing to accept changes to our behaviour and our ways of living?

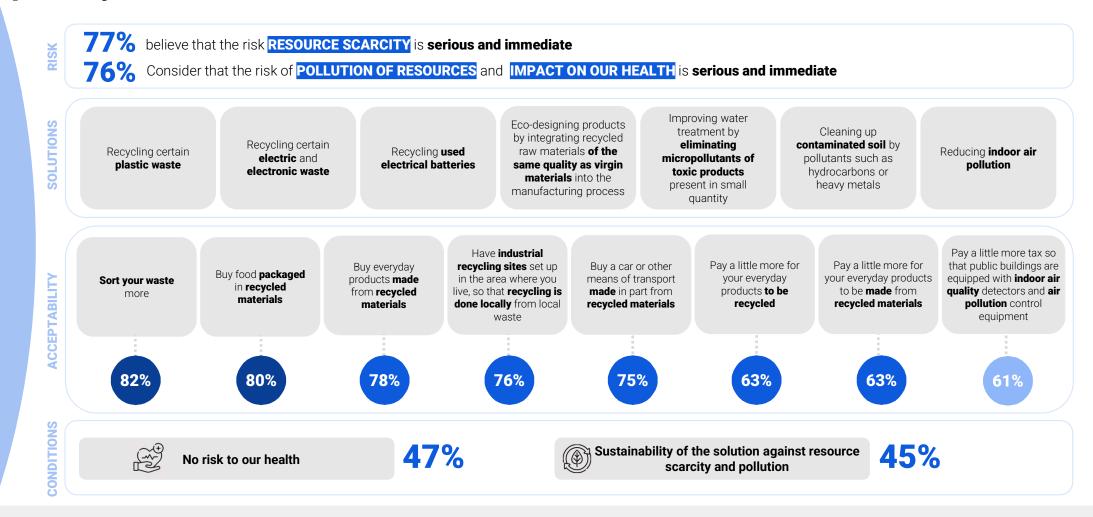




Climate disruption: an absolute emergency, acceptable solutions on condition of sanitary guarantee and demonstrated usefulness



Resource scarcity and pollution: a certain and immediate risk, desirable and already partially "familiar" solutions







Threats to biodiversity and food security: a real risk, partially acceptable solutions provided there are solid health guarantees

