GLOBAL NERASSING NERASSING

31 country study, May-June 2023

Global summary

In partnership with:



Global Infrastructure Investor Association

GAME CHANGERS Ipsos

HEADLINES

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GLOBAL INFRASTRUCTURE INDEX 2023

- This year's survey was among 31 countries (during May-June 2023) and came after a gap of nearly 2 years in the Global Infrastructure Index series.
- The global country average level of satisfaction with infrastructure is higher than the average level of dissatisfaction, but many people are unsure – a third say they are neither satisfied nor dissatisfied or don't know.
- Citizens in Singapore, Indonesia and Netherlands tend to be among the most positive with Italy, Peru and South Africa among the most negative, but there is considerable variation according to sector. There has also been some change over time e.g. in Britain ratings of water supply/sewerage have deteriorated while those for EV charging infrastructure have improved.
- As in 2021, people prioritise environmental over economic impact although there has been a discernible movement towards economic considerations in the past two years.
- There is a widely held view that building infrastructure is not being done quickly enough, especially where dissatisfaction with infrastructure is highest. At the same time, most people do not want to compromise opportunities for local communities to shape plans.

- There is considerable cultural variation in sentiment for example, there is a gap of 65 percentage points in overall levels of satisfaction with infrastructure (but just 21 across the G7 countries, ranging from 22% in Italy to 43% in Japan).
- Underpinning this is considerable variation in ratings of individual infrastructure sectors – ranging from a global country average of 68% for airports to 30% for flood defences.
- Lower satisfaction tends to drive a sense of not enough being done. The view that infrastructure can provide economic stimulus remains strong, but not as strong as it was during the pandemic. In most countries, a majority think infrastructure can also make an important contribution to combating climate change.
- The public are more comfortable with increasing spending on infrastructure than they were pre-pandemic, but this is still preferred by a minority.
- As before, there is strong competition for the top investment priorities. Renewable energy features prominently as does water supply/sewerage, flood defences and new housing supply. There is variation here too -e.g. wind energy is top priority in Britain, local roads and motorways are comparatively more salient in the U.S.



METHODOLOGY

2023: 31 countries, 22,816 participants, 26 May–9 June 2023 (online): Argentina, Australia*, Belgium, Brazil*, Canada*, Chile, Colombia, France*, Germany*, Great Britain*, Hungary, India*, Indonesia, Ireland, Italy*, Japan*, Malaysia, Mexico, Netherlands, New Zealand*, Peru, Poland, Romania, Singapore, South Africa, South Korea, Spain*, Sweden, Thailand, Turkey and the U.S.A.* * denotes 1,000+ sample size

2021: 28 countries, 19,514 participants, 23 July–6 August 2021 (online): Argentina, Australia*, Belgium, Brazil*, Canada*, Chile, China*, Colombia, France*, Germany*, Great Britain*, Hungary, India, Italy*, Japan*, Malaysia, Mexico, Netherlands, Peru, Poland, Russia, Saudi Arabia, South Africa, South Korea, Spain*, Sweden, Turkey and the U.S.A.*

* denotes 1,000+ sample size

The "Global Country Average" reflects the average result for all the countries in the study. It has not been adjusted to the population size of each country and is not intended to suggest a total result. Please note: the 2016-2023 surveys used the same methodology, but **the profile of participating countries has changed**. This means that the global country average/trend does not always involve a exact like-for-like comparison. Similarly, Russia was excluded from fieldwork meaning that G8 in previous years is G7 this year.

The samples in some countries can be taken as representative of these countries' general adult population under the age of 75. In others, they are more urban, more educated, and/or more affluent than the general population. The survey results for these markets should be viewed as reflecting the views of the more "connected" segment of these populations. (A full list of countries can be supplied on request).

Weighting has been employed to balance demographics and ensure that the sample's composition reflects that of the adult population according to the most recent census data.

The precision of Ipsos online polls are calculated using a credibility interval with a poll of 1,000 accurate to \pm - 3.5 percentage points and of 500 accurate to \pm - 5.0 percentage points. More information on the Ipsos use of credibility intervals is available in request.

Where results do not sum to 100 or the 'difference' appears to be +/-1 more/less than the actual, this may be due to rounding, multiple responses, or the exclusion of don't knows or not stated responses



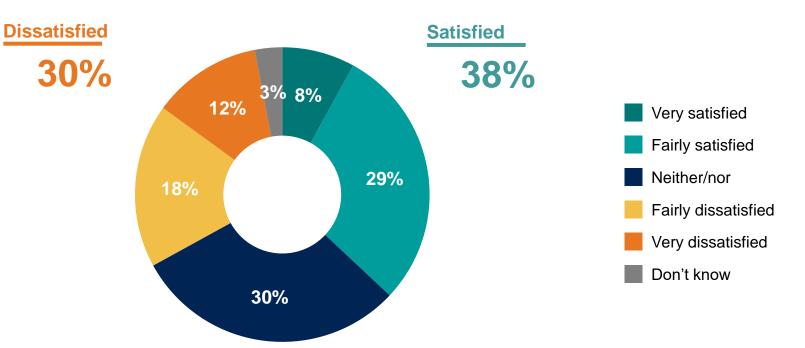
SATISFACTION & ATTITUDES

A HIGHER PROPORTION ARE SATISFIED WITH INFRASTRUCTURE THAN ARE NOT, BUT MANY ARE UNSURE

Q. We now want you to think about [COUNTRY'S] infrastructure.
By infrastructure we mean things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications.

Overall, how satisfied or dissatisfied are you with [COUNTRY'S] national infrastructure?

Global Country Average



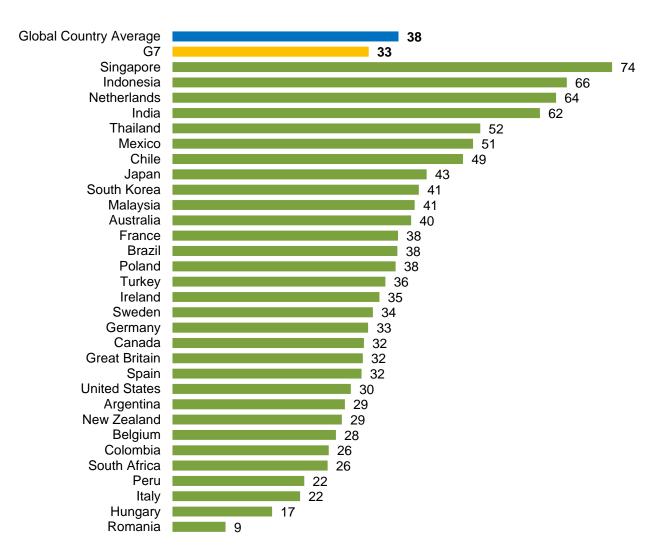


THERE IS CONSIDERABLE VARIATION IN SATISFACTION ACROSS THE 31 COUNTRIES

Q. We now want you to think about [COUNTRY'S] infrastructure.
By infrastructure we mean things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications.

Overall, how satisfied or dissatisfied are you with [COUNTRY'S] national infrastructure?

% very/fairly satisfied





SATISFACTION IS RELATIVELY HIGHER IN APAC BUT SIMILAR ELSEWHERE

% very/fairly dissatisfied % very/fairly satisfied **Global Country Average** 38 30 APAC (9) 50 21 LATAM (6) 36 32 ME Africa (2) 34 36 G7 33 31 European Union (11) 32 33 Europe (12) 32 33 North America (2) 31 29

Q. We now want you to think about [COUNTRY'S] infrastructure.

By infrastructure we mean things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications.

Overall, how satisfied or dissatisfied are you with [COUNTRY'S] national infrastructure?

See **Appendix** for note on regional classifications. Number of countries in each region shown in ().



LONGER-TERM TRENDS: SATISFACTION DIPPED IN 2018 BUT BOUNCED BACK DURING EARLY PANDEMIC PERIOD THEN FELL BACK TO 2019 LEVELS

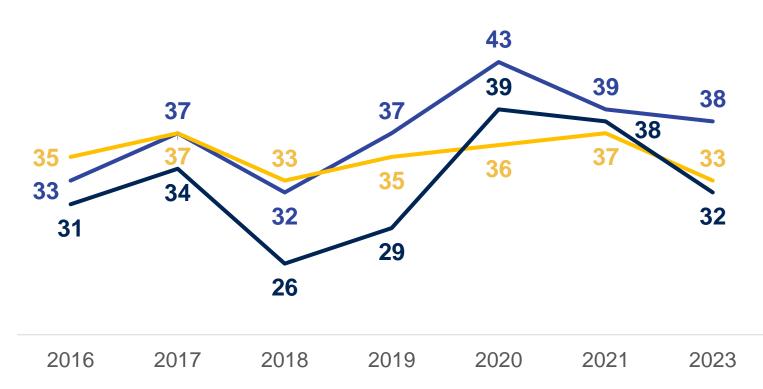
Q. We now want you to think about[COUNTRY'S] infrastructure.By infrastructure we mean things werely on like road, rail and air networks,utilities such as energy and water, andbroadband and other communications.

Overall, how satisfied or dissatisfied are you with [COUNTRY'S] national infrastructure?

% very/fairly satisfied

- **6**% G7 (*G8 2016-21)
- % Global Country Average

% Europe



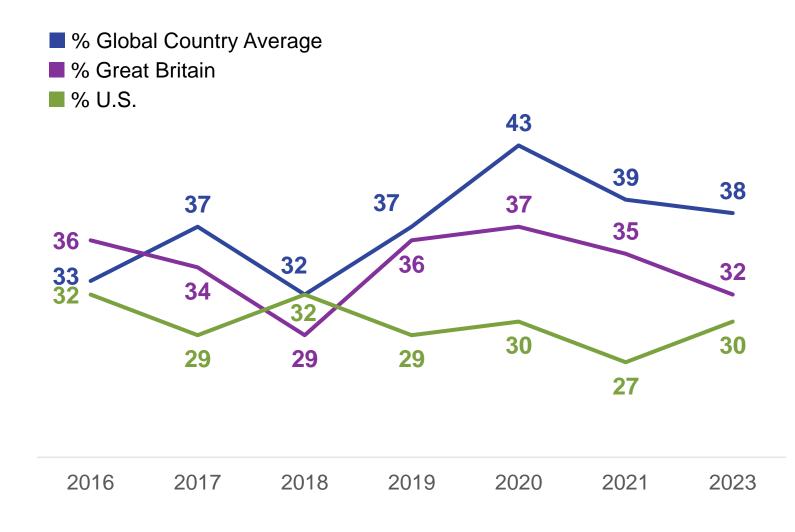


SATISFACTION IN BRITAIN HASN'T YET RETURNED TO 2019 LEVELS AND IT IS CATCHING UP IN THE U.S.

Q. We now want you to think about[COUNTRY'S] infrastructure.By infrastructure we mean things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications.

Overall, how satisfied or dissatisfied are you with [COUNTRY'S] national infrastructure?

% very/fairly satisfied



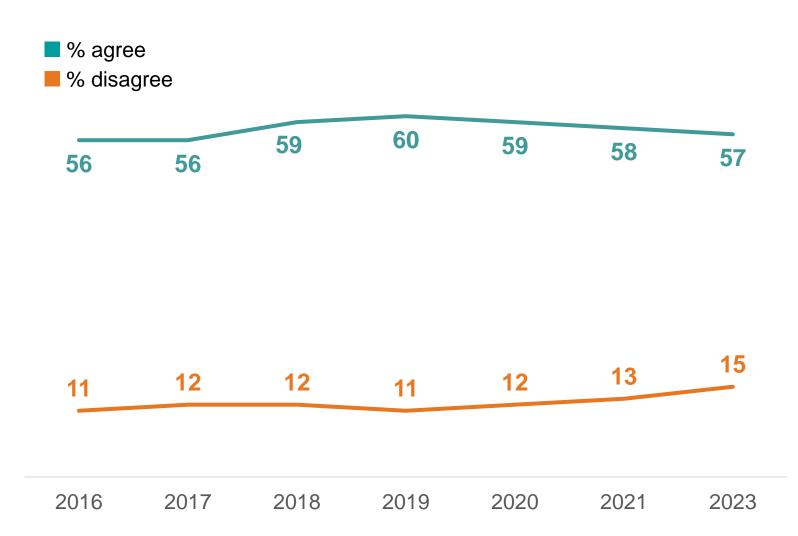


THE PUBLIC CONTINUE TO FEEL MORE CAN BE DONE

Q. To what extent do you agree or disagree...

"As a country we are not doing enough to meet our infrastructure needs"

Global Country Average



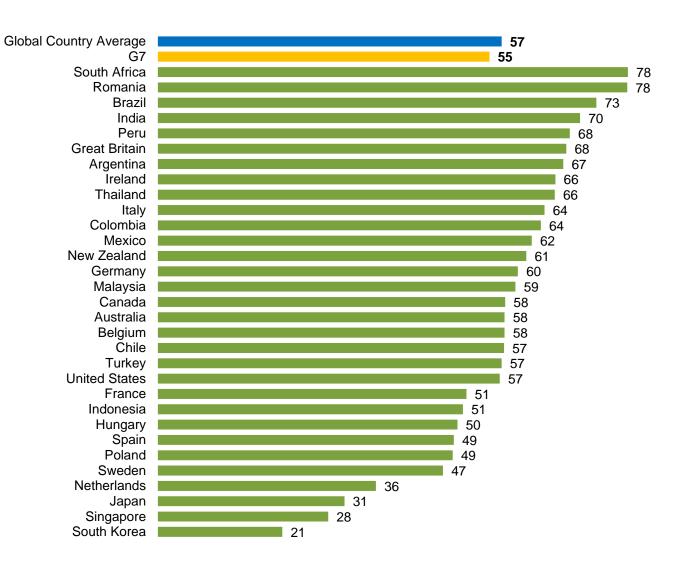


A MAJORITY IN MOST COUNTRIES AGREE

Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"As a country we are not doing enough to meet our infrastructure needs"

% strongly/tend to agree



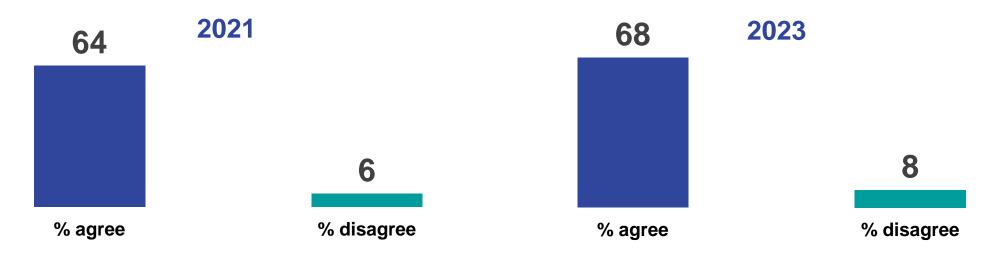


THERE HAS BEEN A SMALL INCREASE IN THE PROPORTION AGREEING IN BRITAIN...



Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"As a country we are not doing enough to meet our infrastructure needs"



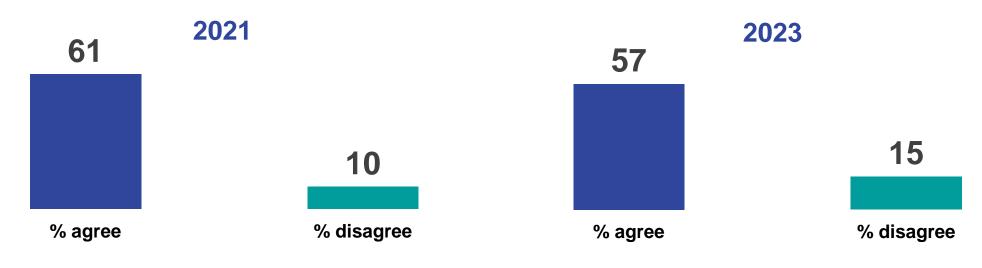


...WHILE THE MOVEMENT HAS BEEN THE OTHER WAY IN U.S.A.



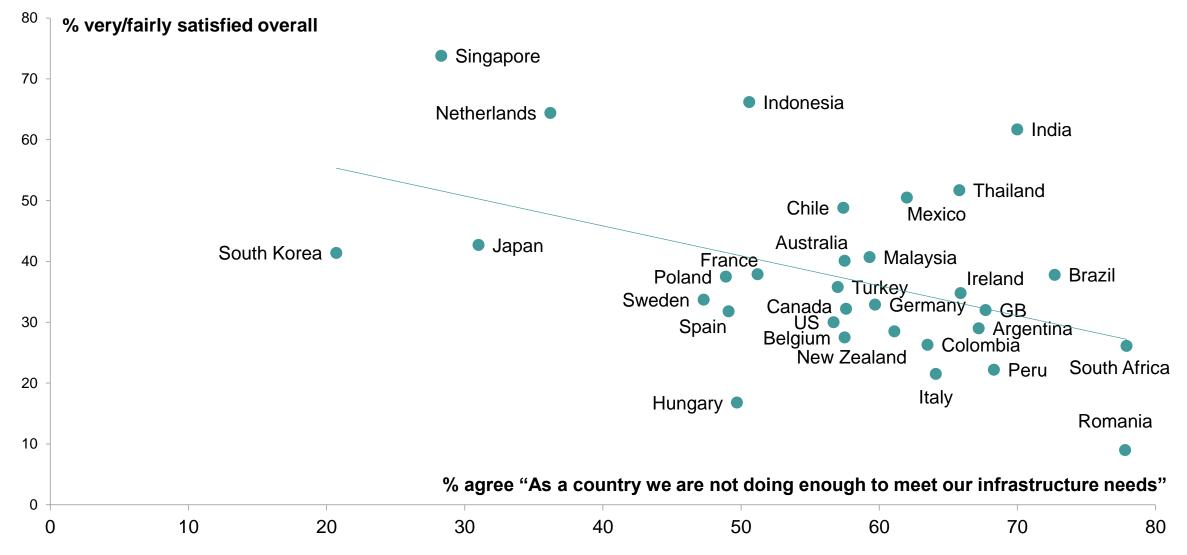
Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"As a country we are not doing enough to meet our infrastructure needs"





LOWER SATISFACTION WITH INFRASTRUCTURE TENDS TO DRIVE A SENSE THAT NOT ENOUGH IS BEING DONE



Source: Ipsos/GIIA

Base: 22,816 adults (online), 31 countries, May-June 2023 Correlation = -0.46



SECTORS

BRAZIL

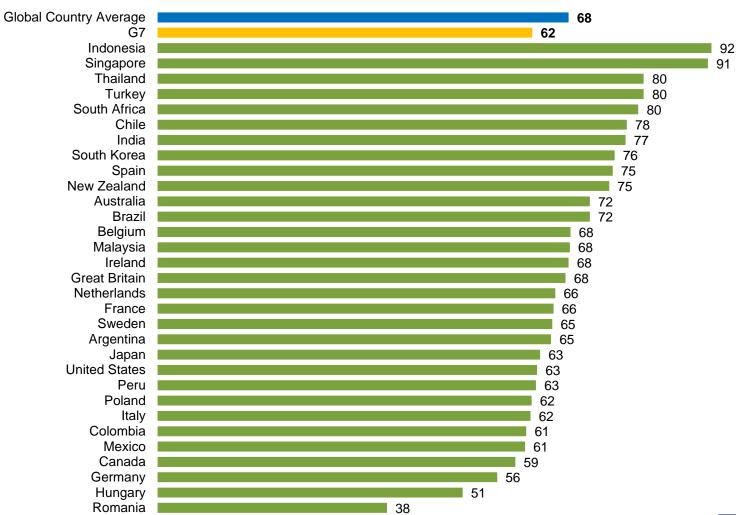
BOLIVIA

APACIFIC OCEAN

RATINGS - AIRPORTS

Q. These next questions are about different types of infrastructure. Please indicate how good or poor you rate the current quality of each one in [COUNTRY]...

Airports

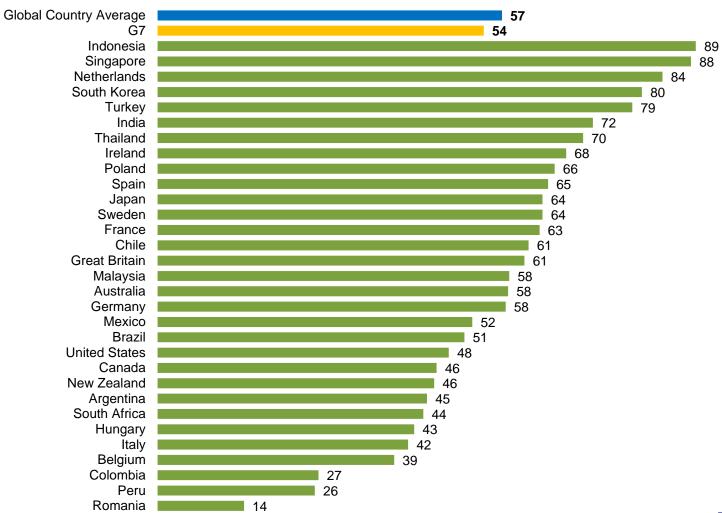




RATINGS - MOTORWAY/MAJOR ROAD NETWORK

Q. These next questions are about different types of infrastructure. Please indicate how good or poor you rate the current quality of each one in [COUNTRY]...

The motorway/major road network



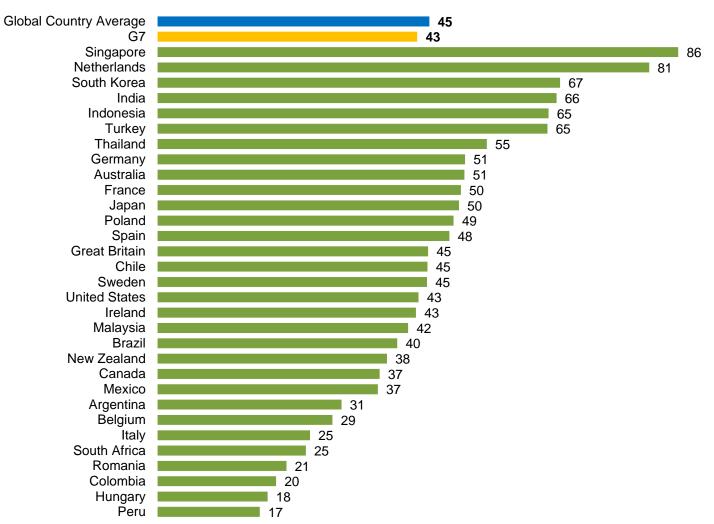


RATINGS - LOCAL ROAD NETWORK

Q. These next questions are about different types of infrastructure. Please indicate how good or poor you rate the current quality of each one in [COUNTRY]...

The local road network

% very/fairly good



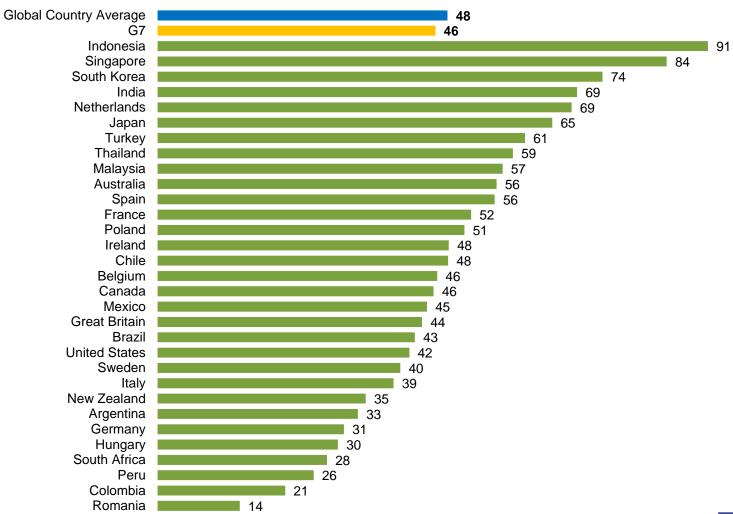


RATINGS - RAIL INFRASTRUCTURE

Q. These next questions are about different types of infrastructure. Please indicate how good or poor you rate the current quality of each one in [COUNTRY]...

Rail infrastructure - track/stations

% very/fairly good



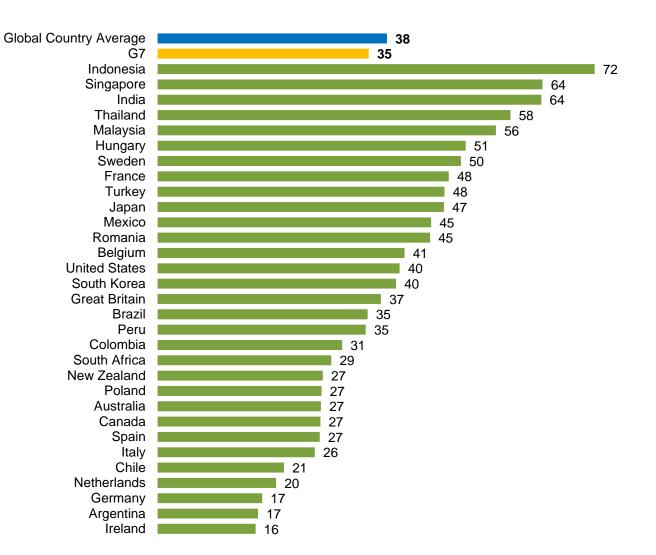


RATINGS - NEW HOUSING SUPPLY

Q. These next questions are about different types of infrastructure. Please indicate how good or poor you rate the current quality of each one in [COUNTRY]...

New housing supply

% very/fairly good



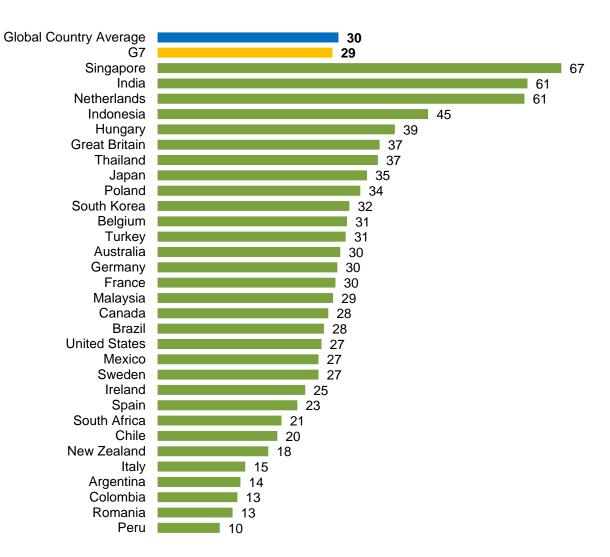


RATINGS - FLOOD DEFENCES

Q. These next questions are about different types of infrastructure. Please indicate how good or poor you rate the current quality of each one in [COUNTRY]...

Flood defences

% very/fairly good

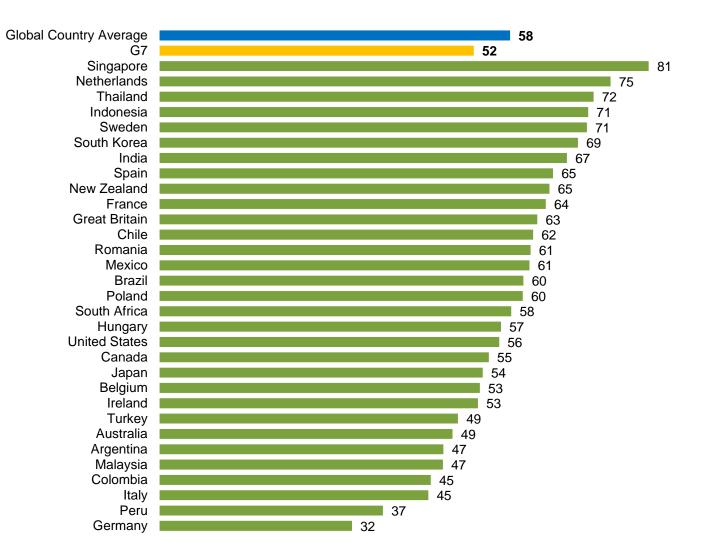




RATINGS - DIGITAL INFRASTRUCTURE

Q. These next questions are about different types of infrastructure. Please indicate how good or poor you rate the current quality of each one in [COUNTRY]...

Digital infrastructure such as high speed broadband, full fibre networks (FTTP), 5G



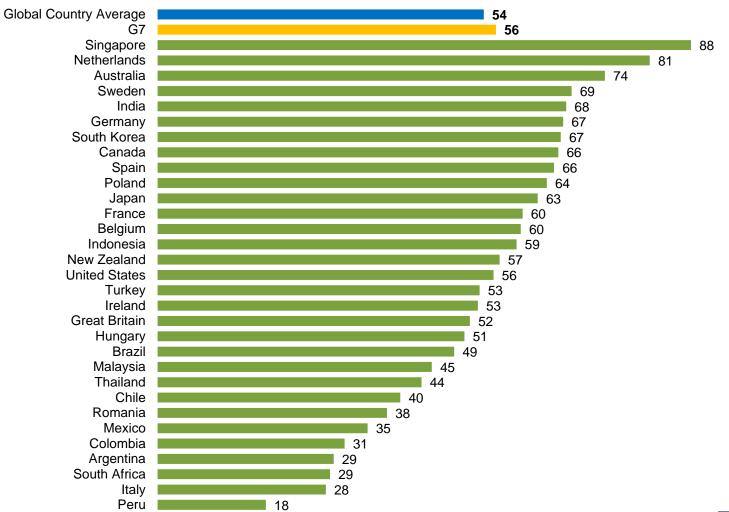




RATINGS - WATER SUPPLY/SEWERAGE

Q. These next questions are about different types of infrastructure. Please indicate how good or poor you rate the current quality of each one in [COUNTRY]...

Water supply and sewerage

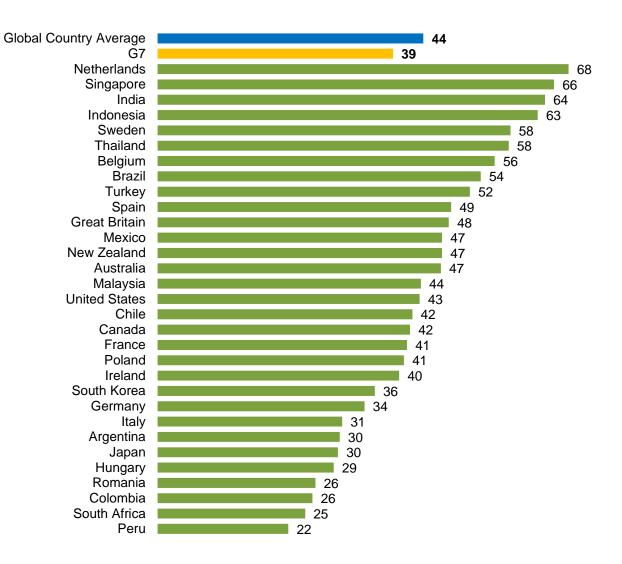




RATINGS - RENEWABLE ENERGY INFRASTRUCTURE

Q. These next questions are about different types of infrastructure. Please indicate how good or poor you rate the current quality of each one in [COUNTRY]...

Renewable energy infrastructure e.g. solar and wind energy





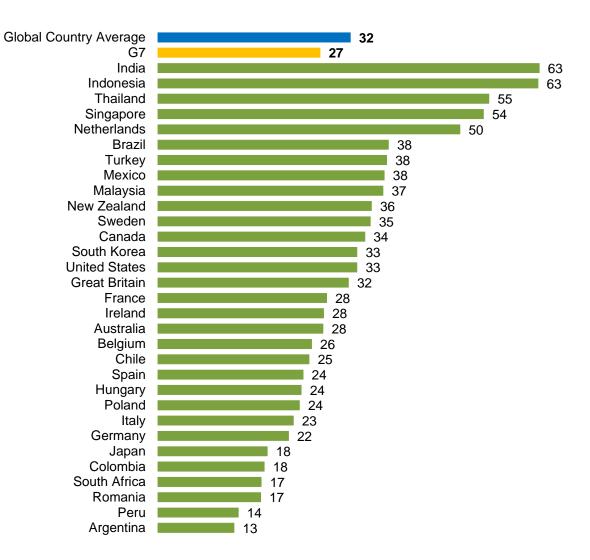


RATINGS - ELECTRIC VEHICLE CHARGING INFRASTRUCTURE

Q. These next questions are about different types of infrastructure. Please indicate how good or poor you rate the current quality of each one in [COUNTRY]...

Electric vehicle charging infrastructure

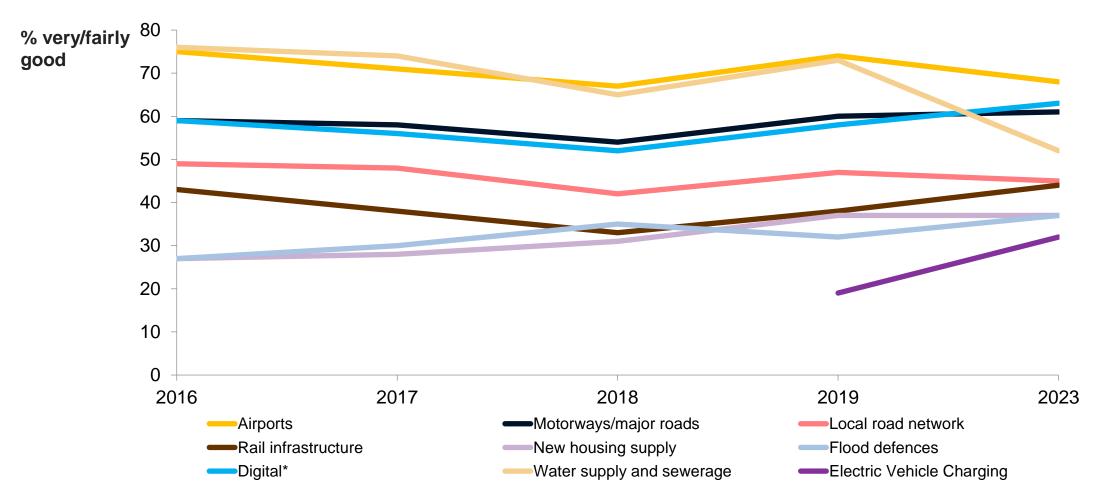
% very/fairly good





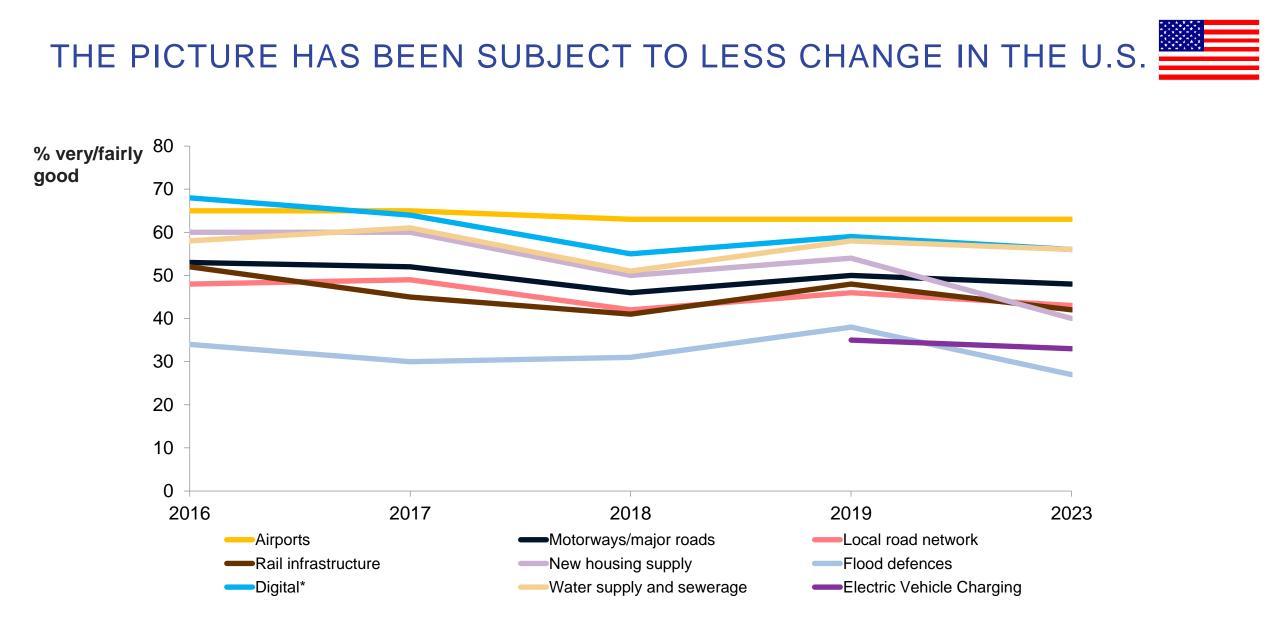
RATINGS HAVE IMPROVED FOR EV CHARGING IN BRITAIN, BUT GOT WORSE FOR WATER





* Digital: This option was asked as "High Speed Broadband" in 2016



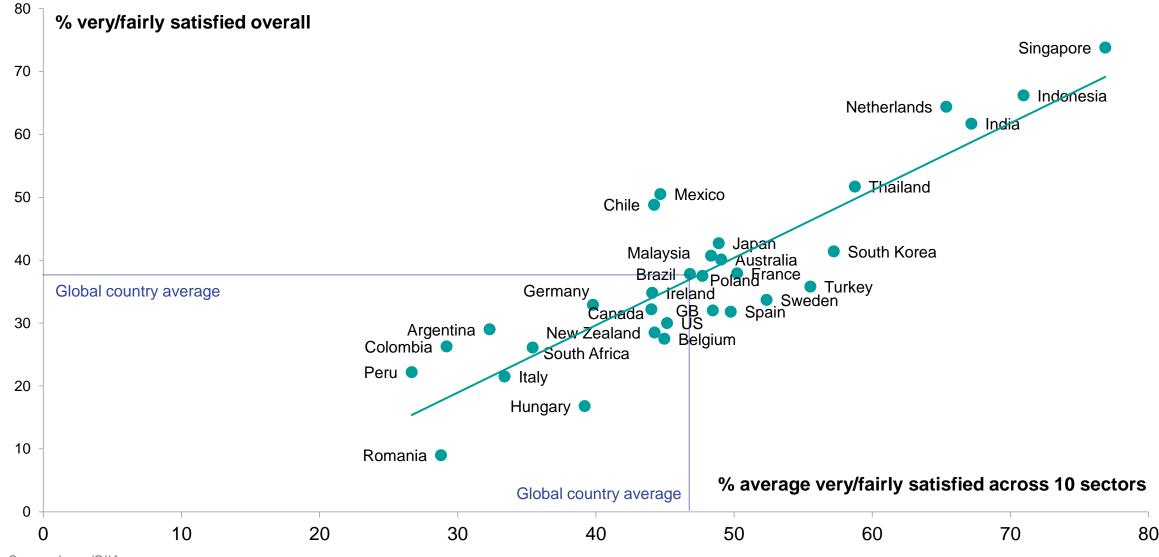


* Digital: This option was asked as "High Speed Broadband" in 2016

Source: Ipsos/GIIA Base: 22,816 adults (online), 31 countries, May-June 2023 – 1,005 US



AVERAGE SATISFACTION ACROSS THE SECTORS IS HIGHER - BUT STRONGLY CORRELATED WITH - OVERALL SATISFACTION



Source: Ipsos/GIIA

29

Base: 22,816 adults (online), 31 countries, May-June 2023 Correlation = 0.88

lpsos

PRIORITIES AND PREFERENCES

COTARGA AND COTARG

PACIFIC OCEAN

AS BEFORE, THERE IS STRONG COMPETITION FOR THE TOP INFRASTRUCTURE INVESTMENT PRIORITIES

Q. Which of these types of infrastructure, if any, do you think should be made a priority for	Solar energy infrastructure Water supply and sewerage	42 41
investment for… [COUNTRY]?	Flood defences	41
	New housing supply	39
% selecting	The local road network	35
	Rail infrastructure - track/stations	34
Global Country Average	Wind energy	33
	Pavements, footpaths & pedestrian areas	33
	Motorway/major road network	33
	Digital infrastructure such as high speed broadband*	28
	Electric vehicle charging infrastructure	26
Nuclear not asked in Australia, Chile, Italy, Malaysia, Peru, Poland, Turkey - % shown based on all countries where asked	Cycle route/lanes/facilities	24
	Nuclear infrastructure to generate energy	16
	Airports	16





THE TOP 4 PRIORITIES WERE AS THEY WERE IN 2021

2021

2023

Water supply and sowerage		42 Solar energy infrastructure	42
Water supply and sewerage		42 Solar energy infrastructure	42
Solar energy infrastructure	3	39 Water supply and sewerage	41
Flood defences	30	6 Flood defences	41
New housing supply	34	New housing supply	39
Pavements, footpaths & pedestrian areas	33	The local road network	35
The local road network	32	Rail infrastructure - track/stations	34
Digital infrastructure such as high speed broadband*	32	Wind energy	33
Rail infrastructure - track/stations	31	Pavements, footpaths & pedestrian areas	33
Wind energy	31	Motorway/major road network	33
Motorway/major road network	30	Digital infrastructure such as high speed broadband*	28
Cycle route/lanes/facilities	25	Electric vehicle charging infrastructure	26
Electric vehicle charging infrastructure	24	Cycle route/lanes/facilities	24
Nuclear infrastructure to generate energy	11	Nuclear infrastructure to generate energy	16
Airports	11	Airports	16



IN BRITAIN, RENEWABLE ENERGY IS JOINED IN THE TOP 3 BY WATER SUPPLY/ SEWERAGE THIS YEAR



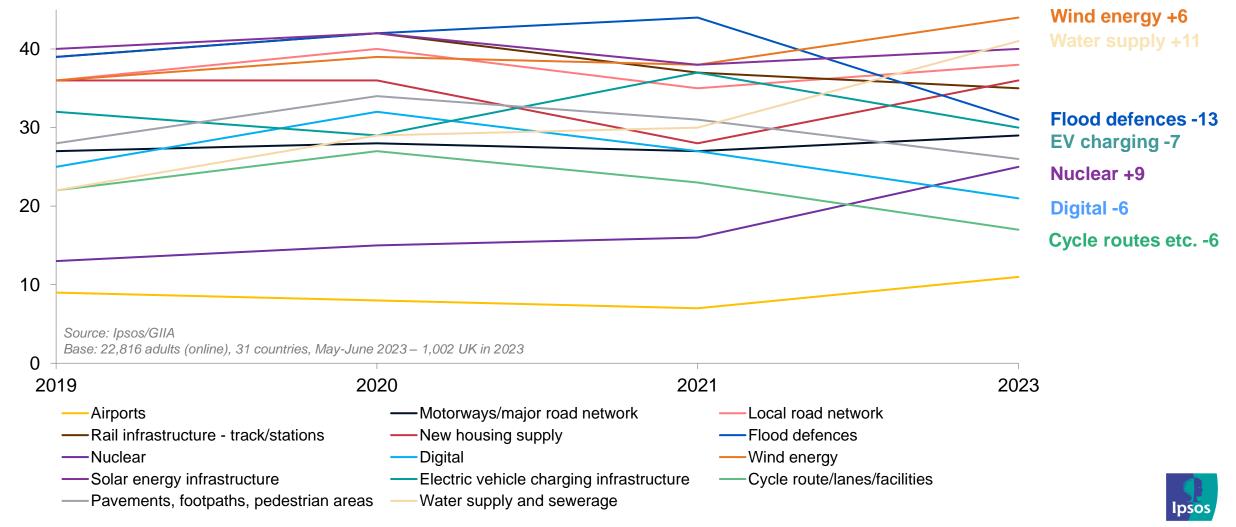
Q. Which of these types of		
infrastructure, if any, do you think	Wind energy	44
should be made a priority for	Water supply and sewerage	41
investment for	Solar energy infrastructure	40
[COUNTRY]?	The local road network	38
% selecting	New housing supply	36
	Rail infrastructure - track/stations	35
2023	Flood defences	31
	Electric vehicle charging infrastructure	30
	Motorway/major road network	29
	Pavements, footpaths & pedestrian areas	26
	Nuclear infrastructure to generate energy	25
	Digital infrastructure such as high speed broadband*	21
	Cycle route/lanes/facilities	17
	Airports	11





THE SALIENCE OF FLOOD DEFENCES AND EV CHARGING AS AN INVESTMENT PRIORITY FELL BACK. IT INCREASED FOR WATER, NUCLEAR AND WIND ENERGY

Q. Which of these types of infrastructure, if any, do you think should be made a priority for investment for... [COUNTRY]? **% selecting**



Change vs 2021 >+5

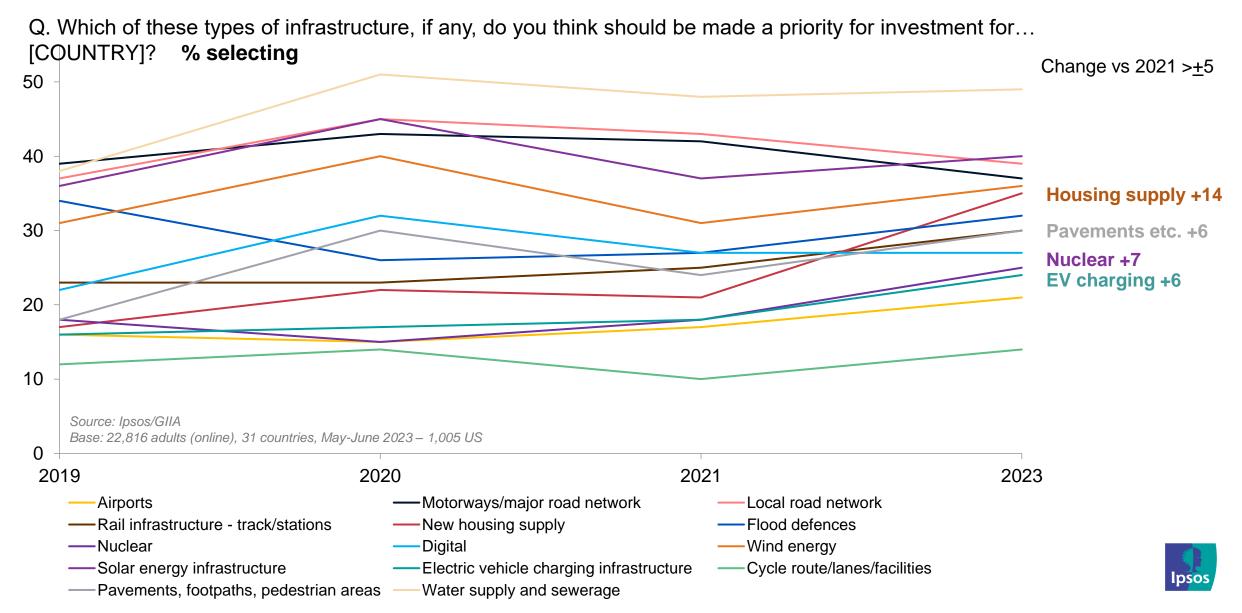
WATER SUPPLY/SEWERAGE HAS BEEN MORE SALIENT AS A PRIORITY IN THE U.S. THAN ELSEWHERE IN THE PAST, AND ROADS ARE ALSO PRIORITISED

Water supply and sewerage	49
Solar energy infrastructure	40
The local road network	39
Motorway/major road network	37
Wind energy	36
New housing supply	35
Flood defences	32
Pavements, footpaths & pedestrian areas	30
Rail infrastructure - track/stations	30
Digital infrastructure such as high speed broadband*	27
Nuclear infrastructure to generate energy	25
Electric vehicle charging infrastructure	24
Airports	21
Cycle route/lanes/facilities	14
	Solar energy infrastructure The local road network Motorway/major road network Wind energy New housing supply Flood defences Pavements, footpaths & pedestrian areas Rail infrastructure - track/stations Digital infrastructure such as high speed broadband* Nuclear infrastructure to generate energy Electric vehicle charging infrastructure Airports



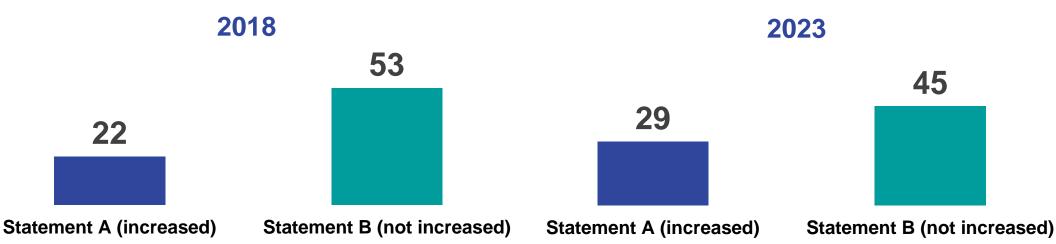
HOUSING SUPPLY HAS BEEN THE BIGGEST CHANGE YEAR ON YEAR WITH NUCLEAR, EV CHARGING AND PAVEMENTS ALSO INCREASING





THE PUBLIC ARE MORE COMFORTABLE WITH INCREASING SPENDING THAN THEY WERE PRE-PANDEMIC, BUT THIS IS STILL PREFERRED BY A MINORITY

Statement A: "Spending on improving infrastructure in [COUNTRY] should be increased, even if that means higher taxes or more government borrowing" Statement B: "Public spending in [COUNTRY] is already high and taxes and government borrowing should not be increased any more to spend more on improving infrastructure"



Global Country Average

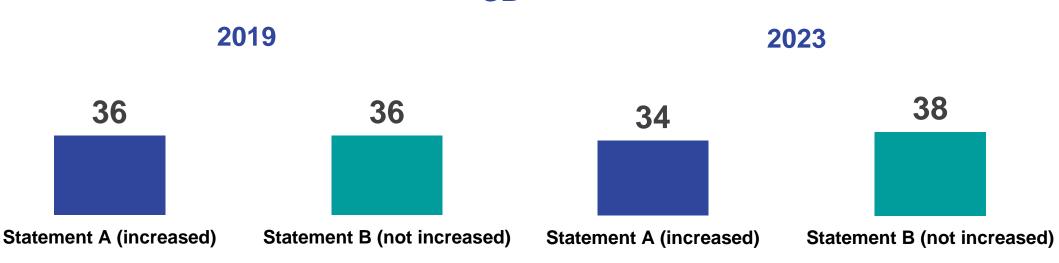
Source: Ipsos/GIIA Base: 22,816 adults (online), 31 countries, May-June 2023





Statement A: "Spending on improving infrastructure in [COUNTRY] should be increased, even if that means higher taxes or more government borrowing" Statement B: "Public spending in [COUNTRY] is already high and taxes and government borrowing should not be increased any more to spend more on improving infrastructure"

GB





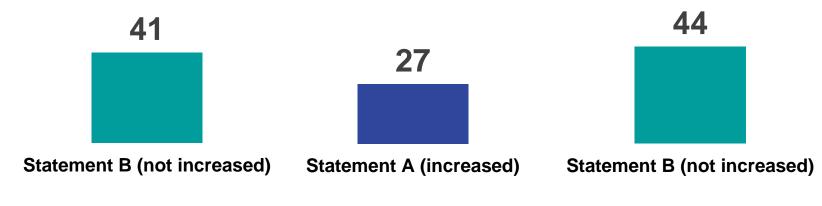
Statement B: "Public spending in [COUNTRY] is Statement A: "Spending on improving already high and taxes and government infrastructure in [COUNTRY] should be increased, even if that means higher taxes or more government borrowing"

2019

IN THE U.S., THERE HAS BEEN A DROP IN THE PROPORTION FAVOURING INCREASED SPENDING

Statement A (increased)

35





borrowing should not be increased any more to spend more on improving infrastructure"

2023

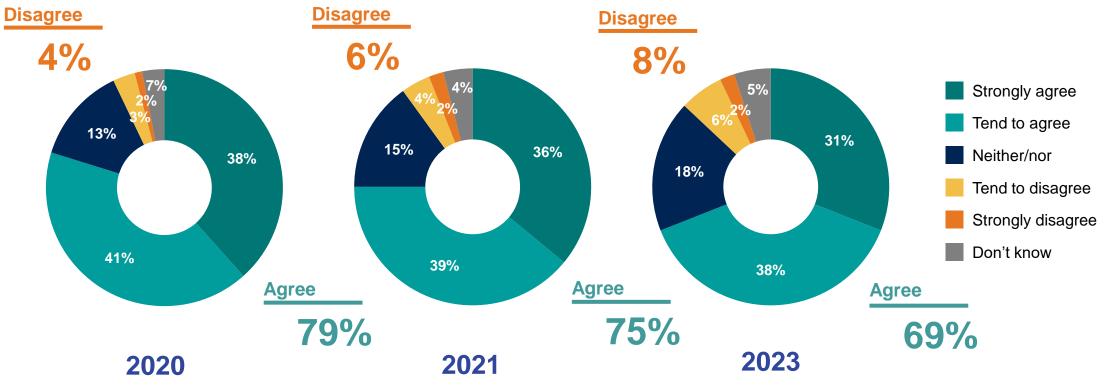
US

THE SENSE THAT INFRASTRUCTURE CAN PROVIDE ECONOMIC STIMULUS REMAINS STRONG, BUT NOT AS STRONG AS IT WAS DURING THE PANDEMIC

Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"Investing in infrastructure will create new jobs and boost the economy"

Global Country Average



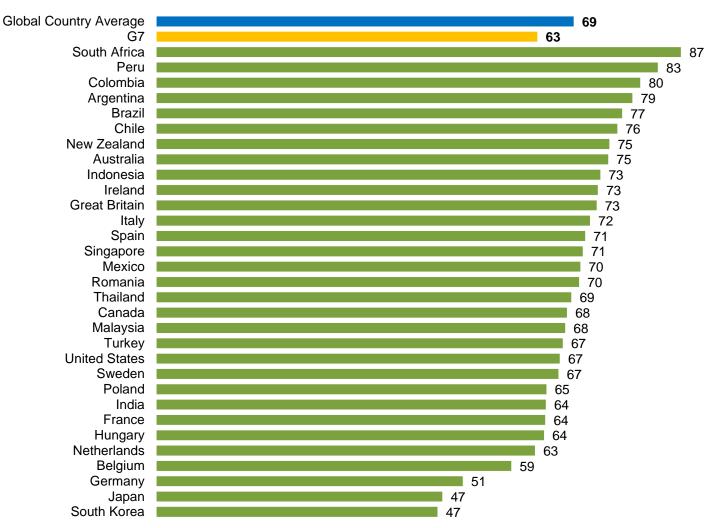
Source: Ipsos/GIIA Base: 22,816 adults (online), 31 countries, May-June 2023



A MAJORITY IN MOST COUNTRIES AGREE THAT INFRASTRUCTURE CAN PROVIDE AN ECONOMIC BOOST...

Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"Investing in infrastructure will create new jobs and boost the economy"

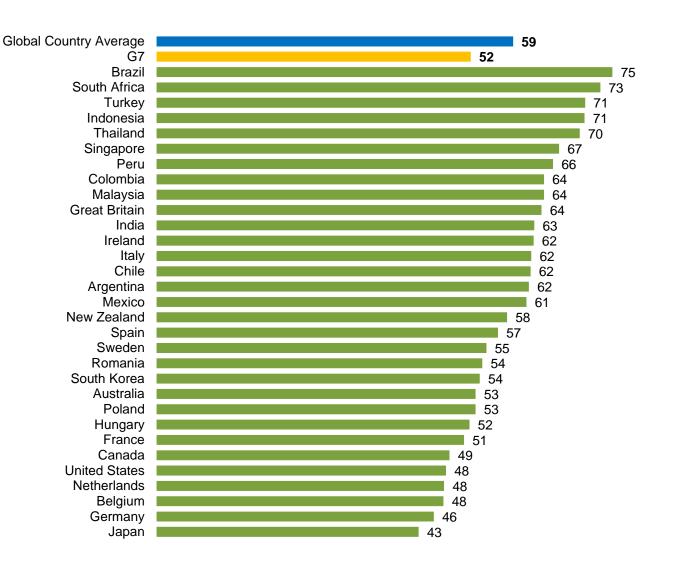




...AND THAT IT CAN MAKE AN IMPORTANT CONTRIBUTION TO COMBATING CLIMATE CHANGE

Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"Investing in infrastructure will make an important contribution to combating climate change"

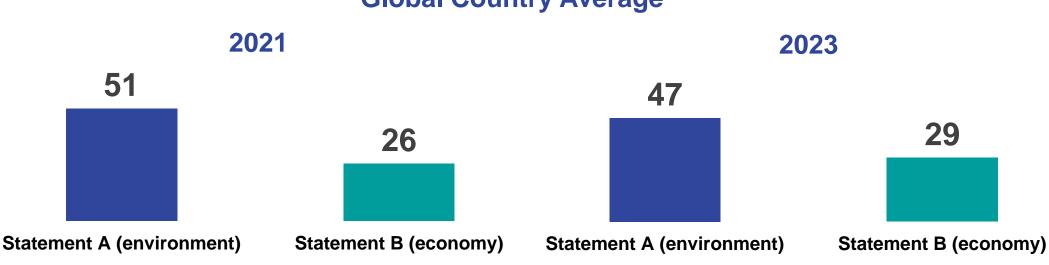




AS IN 2021, PEOPLE PRIORITISE ENVIRONMENTAL OVER ECONOMIC IMPACT, ALTHOUGH THERE HAS BEEN MOVEMENT TOWARDS ECONOMIC CONSIDERATIONS

Statement A: "When making decisions about how to improve infrastructure in [COUNTRY], we should give higher priority to the impact it has on the environment."

Statement B: "When making decisions about how to invest in infrastructure in [COUNTRY], we should give higher priority to the impact it has on the economy."

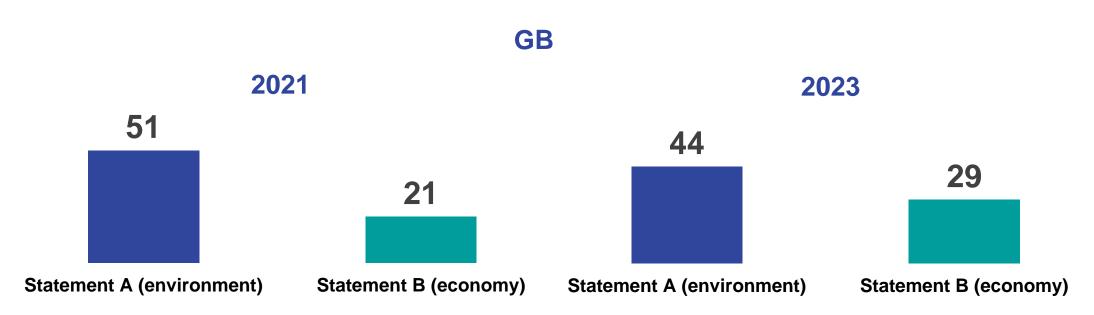


Global Country Average





Statement A: "When making decisions about how to improve infrastructure in [COUNTRY], we should give higher priority to the impact it has on <u>the environment</u>." Statement B: "When making decisions about how to invest in infrastructure in [COUNTRY], we should give higher priority to the impact it has on <u>the economy</u>."





WHILE OPINION IN THE U.S. HAS SHIFTED SLIGHTLY THE OTHER WAY



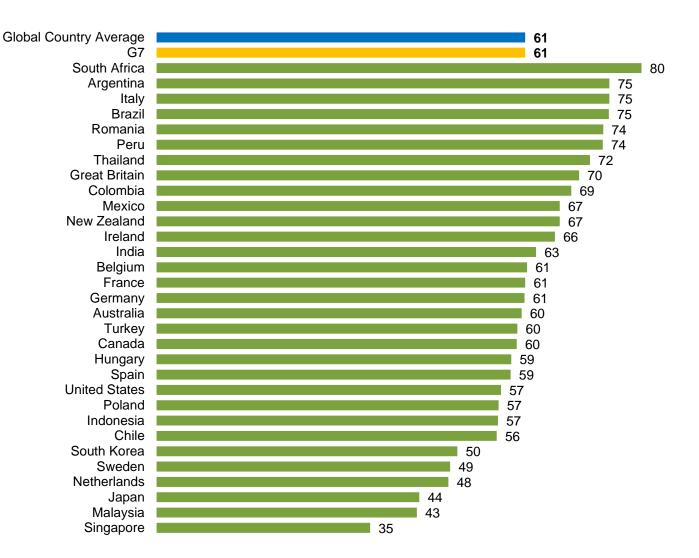
Statement B: "When making decisions about Statement A: "When making decisions about how to invest in infrastructure in [COUNTRY], how to improve infrastructure in [COUNTRY], we we should give higher priority to the impact it should give higher priority to the impact it has has on the economy." on the environment." US 2021 2023 41 37 34 34 Statement A (environment) Statement B (economy) Statement A (environment) Statement B (economy)



MOST PEOPLE DOUBT INFRASTRUCTURE HAS BEEN ADAPTED FOR FUTURE CHANGES IN THE CLIMATE

Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"I don'ethink infrastructure in [COUNTRY]...has been adapted enough to cope with future changes in the climate"

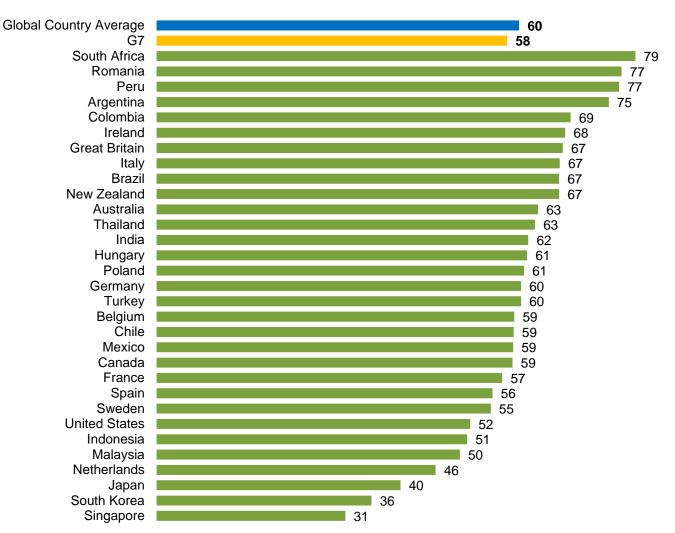




THERE IS A WIDELY HELD VIEW THAT BUILDING IS NOT QUICK ENOUGH, ESPECIALLY WHERE DISSATISFACTION WITH INFRASTRUCTURE IS HIGHEST...

Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"We are not building the infrastructure we need quickly enough"



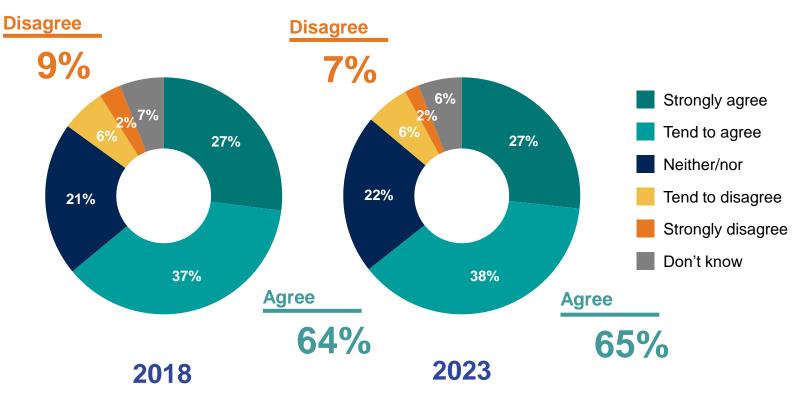


...BUT MOST DO NOT WANT TO COMPROMISE OPPORTUNITIES FOR LOCAL COMMUNITIES TO SHAPE PLANS

Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"Local communities' views on plans for infrastructure should be heard properly, even if it means delays"

Global Country Average

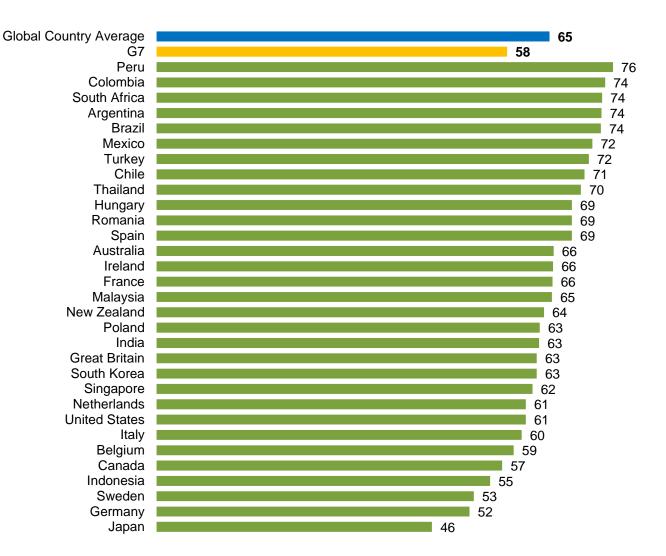




G7 COUNTRIES AND COUNTRIES WHERE THERE IS HIGHER SATISFACTION WITH INFRASTRUCTURE ARE *RELATIVELY* COOLER ON ENGAGEMENT

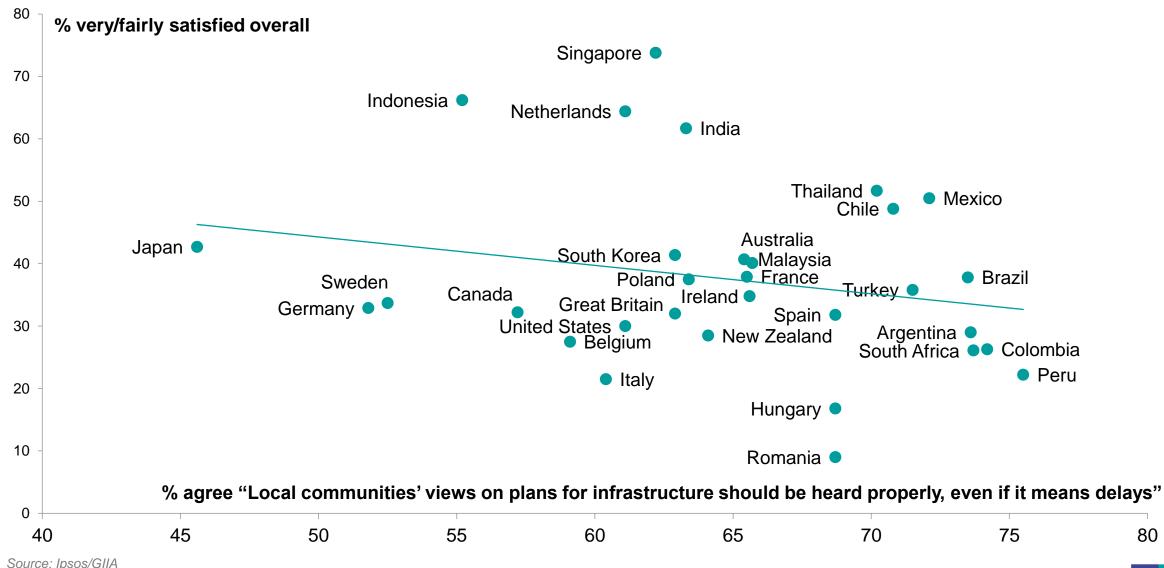
Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"Local communities' views on plans for infrastructure should be heard properly, even if it means delays"





BUT THERE IS A WEAK RELATIONSHIP BETWEEN SATISFACTION WITH INFRASTRUCTURE AND SUPPORT FOR LOCAL ENGAGEMENT



pso

Base: 22,816 adults (online), 31 countries, May-June 2023 Correlation = -0.23

50

THERE'S BEEN LITTLE CHANGE IN THIS IN BRITAIN AND THE U.S.A. SINCE 2018



2016



2016

Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"Local communities' views on plans for infrastructure should be heard properly, even if it means delays"

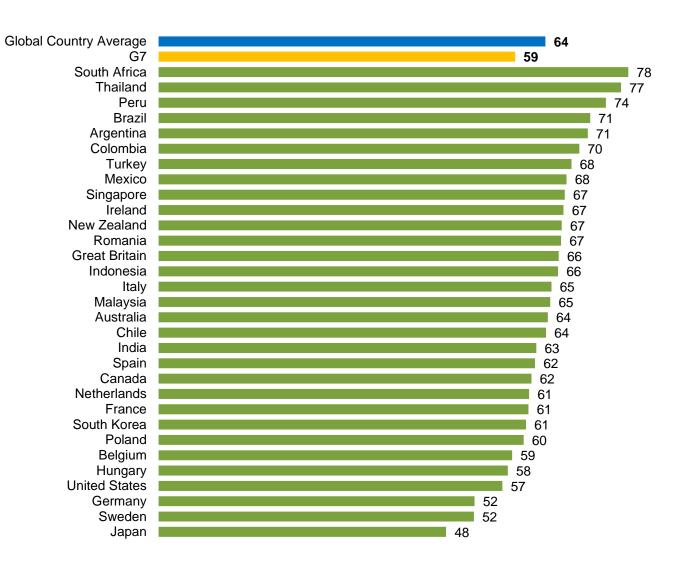
Agree	Disagree	Agree	Disagree
67%	6%	68%	4%
2018		2018	
Agree	Disagree	Agree	Disagree
63%	6%	61%	5%
2023		2023	
Agree	Disagree	Agree	Disagree
63%	6%	61%	6%



ANOTHER CONSIDERATION IS INTERGENERATIONAL EQUITY

Q. Still thinking about infrastructure – the things we rely on like road, rail and air networks, utilities such as energy and water, and broadband and other communications – to what extent do you agree or disagree...?

"When making decisions about investing in infrastructure in [COUNTRY], we should make sure that the cost of paying for it is spread evenly between current and future taxpayers and customers or generations...."





THE OUTLOOK IN THE U.S. IS RELATIVELY MORE LONG-TERM

Statement A: "When making decisions about infrastructure in [COUNTRY], we should give higher priority to minimising the cost to consumers and taxpayers in the short-term than improving infrastructure in the long-term"

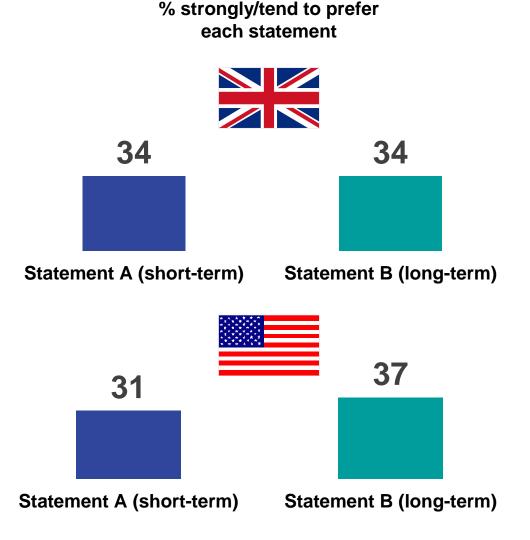
Statement B: "When making decisions about infrastructure in [COUNTRY], we should give higher priority to improving infrastructure in the long-term than minimising the cost to consumers and taxpayers in the short-term"

Global Country Average



Statement A (short-term) Statement B (long-term)

Source: Ipsos/GIIA Base: 22,816 adults (online), 31 countries, May-June 2023 - 1,002 UK and 1,005 US n 2023





APPENDIX



REGIONS

Regions and *unweighted sample sizes*

Europe	N. America	LATAM
8,510	2,007	3,506
Belgium France Germany Great Britain Hungary Ireland Italy Netherlands Poland Romania Spain Sweden	Canada U.S.A.	Argentina Brazil Chile Colombia Mexico Peru

Asia-Pacific (APAC)
7,792
Australia India Indonesia Japan Malaysia New Zealand Singapore South Korea Thailand



Canada, France, Germany, Great Britain, Italy, Japan, U.S.A. **G7** 7,010 (Russia excluded)



FURTHER INFORMATION





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