

2018 Edelman Trust Barometer

New Zealand Report





#TrustBarometer

2018 Edelman Trust Barometer

Methodology

Online Survey in 28 Countries

18 years of data

33,000+ respondents total

All fieldwork was conducted between

October 28 and November 20, 2017

Survey in New Zealand



3 years of data

1,000+ respondents total

New Zealand fieldwork was conducted in $11^{\text{th}}-21^{\text{st}}$ November, 2017

28-country global data margin of error: General population +/-0.6% (N=32,200), informed public +/- 1.2% (N=6,200), mass population +/- 0.6% (26,000+), half-sample global general online population +/- 0.8 (N=16,100).

Country-specific data margin of error: General population +/- 2.9 (N=1,150), informed public +/- 6.9% (N = min 200, varies by country), China and U.S. +/- 4.4% (N=500), mass population +/- 3.0 to 3.6 (N =min 740, varies by country), New Zealand +/- 4.4 (N=1,150).

General Online Population

7 years in 25+ countries

Ages 18+

1,150 respondents per country

1,150 respondents in New Zealand

All slides show general online population data unless otherwise noted

Informed Public



10 years in 20+ countries

Represents 15% of total global population

500 respondents in U.S. and China; 200 in all other global study countries

158 in New Zealand

Must meet 4 criteria:

Ages 25-64

College educated

In top 25% of household income per age group in each country

Report significant media consumption and engagement in business news

Mass Population

All population not including informed public Represents 85% of total global population 1,065 in New Zealand

Trust in Retrospect

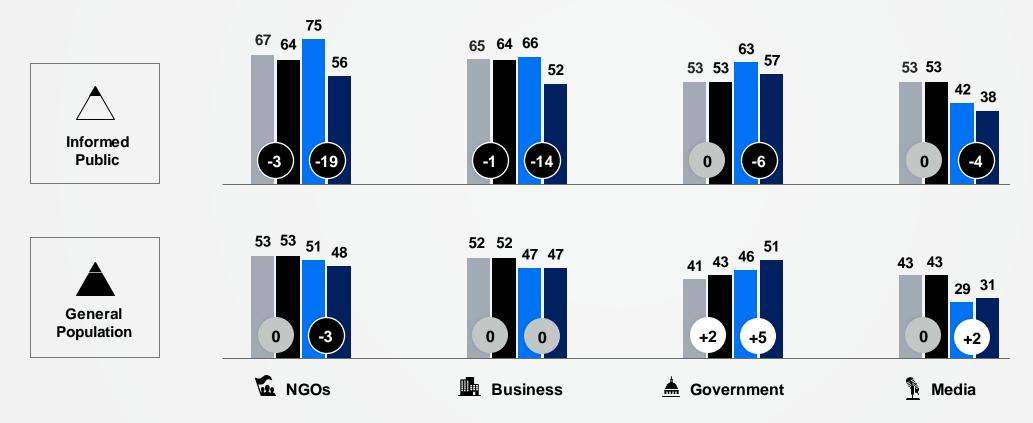
2001	2002	2003	2004	2005	2006	2007	2008	2009
Rising Influence of NGOs	Fall of the Celebrity CEO	Earned Media More Credible Than Advertising	U.S. Companies in Europe Suffer Trust Discount	Trust Shifts from "Authorities" to Peers	"A Person Like Me" Emerges as Credible Spokesperson	Business More Trusted Than Government and Media	Young Influencers Have More Trust in Business	Business Must Partner with Government to Regain Trust
2010	2011	2012	0040	2014	0045	0010	0017	204.0
2010	2011	2012	2013	2014	2015	2016	2017	2018
Trust is Now an Essential Line of Business	Rise of Authority Figures	Fall of Government	Crisis of Leadership	Business to Lead the Debate for Change	Trust is Essential to Innovation	Growing Inequality of Trust	Trust in Crisis	The Battle for Truth

A Polarization

No Recovery in Trust Globally, Increase in Government Trust in New Zealand



Percent trust in each institution, and change from 2017 to 2018



Source: 2018 Edelman Trust Barometer. TRU_INS. Below is a list of institutions. For each one, please indicate how much you trust that institution to do what is right using a nine-point scale, where one means that you "do not trust them at all" and nine means that you "trust them a great deal." (Top 4 Box, Trust) Informed Public and General Population, 28-country global total, New Zealand General Population (n=1,150).

Trust Index A World of Distrust

Average trust in institutions, general population, 2017 vs. 2018

Global Trust Index remains at distruster level

20 of 28 countries are distrusters, up 1 from 2017

Source: 2018 Edelman Trust Barometer.

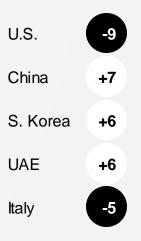
The Trust Index is an average of a country's trust in the institutions of government, business, media and NGOs. General population, 28-country global total, New Zealand General Population (n=1,150).

Global totals exclude New Zealand figures.

	2017 General Population		2018 General Population
47	Global	48	Global
72	India	74	China
69	Indonesia	71	Indonesia
67	China	68	India
60	Singapore	66	UAE
60	UAE	58	Singapore
53	The Netherlands	54	Mexico
52	Mexico	54	The Netherlands
52	U.S.	53	Malaysia
50	Colombia	49	Canada
49	Canada	47	Argentina
48	Brazil	47	Colombia
48	Italy	47	Spain
48	Malaysia	46	Turkey
45	Argentina	45	Hong Kong
44	Hong Kong	44	New Zealand
44	Spain	44	Brazil
43	New Zealand	44	S. Korea
43	Turkey	43	Italy
42	Australia	43	U.S.
42	S. Africa	41	Germany
41	Germany	41	Sweden
40	France	40	Australia
40	U.K.	40	France
38	S. Korea	39	Poland
37	Sweden	39	U.K.
36	Ireland	38	Ireland
35	Japan	38	S. Africa
35	Poland	37	Japan
34	Russia	36	Russia

Trust (60-100) Neutral (50-59) Distrust (1-49)

Biggest changes in



Trust decline in the U.S. is the steepest ever measured

Trust Index Informed Public Declines to Neutral

Average trust in institutions, informed public, 2017 vs. 2018

A 1-point decline in the Global Trust Index

Source: 2018 Edelman Trust Barometer.

The Trust Index is an average of a country's trust in the institutions of government, business, media and NGOs. General population, 28-country global total, New Zealand Informed Public (n=158).

Global totals exclude New Zealand figures.

\triangle	2017 Informed Public	2018 Informed Public				
60	Global	59	Global			
80	India	83	China			
79	China	81	Indonesia			
78	Indonesia	77	India			
77	UAE	76	UAE			
71	Singapore	70	Singapore			
68	U.S.	67	The Netherlands			
62	Canada	65	Malaysia			
62	New Zealand –	65	Mexico			
62	The Netherlands	62	Canada			
61	Italy	60	Argentina			
61	Mexico	57	Italy			
57	Malaysia	57	Turkey			
57	Spain	56	France			
56	France	56	Sweden			
56	U.K.	55	Australia			
55	Colombia	55	Spain			
54	Australia	54	Germany			
54	Germany	52	U.K.			
53	Hong Kong	51	Brazil			
51	Argentina	- 51	New Zealand			
51	Brazil	50	Colombia			
50	S. Korea	50	S. Korea			
50	Turkey	49	Hong Kong			
49	Japan	48	Ireland			
49	S. Africa	48	Poland			
47	Sweden	47	Russia			
45	Russia	46	Japan			
44	Ireland	45	S. Africa			
43	Poland	45	U.S.			

Trust

(60-100)

Neutral (50-59) Distrust

(1-49)

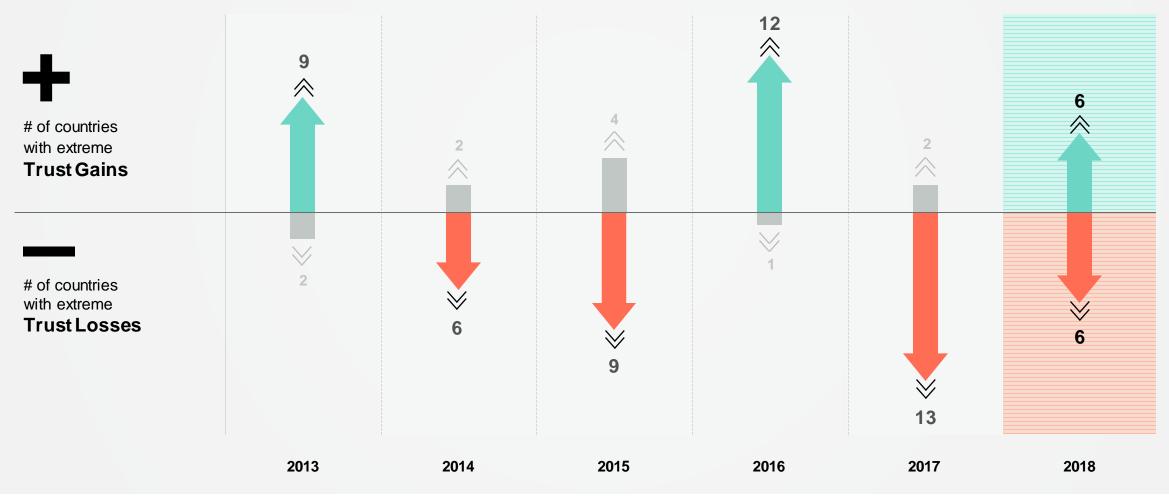
Biggest changes in

U.S.	-23
Argentina	+9
Sweden	+9
Malaysia	+8
Turkey	+7



A World Moving Apart

Number of countries with extreme changes in their aggregate trust in the four institutions, 2013 to 2018



Source: 2018 Edelman Trust Barometer. Trust Volatility Measure. The net year-over-year (2013-2018) percentage point change across the four institutions (TRU_INS). General population, 28-country global total. For more details on how the Trust Volatility Measure was calculated, please refer to the Technical Appendix.



The Polarization of Trust

Aggregate percentage point change in trust in the four institutions, and change from 2017 to 2018

6 (counti T i	ries w r ust (ne						Тур		count Char			rust						6 c	ountr		ith ea osse	ktrem es	ne Tr	rust
27	24	2 3	20	19	▲ 17	13	12		9	9	8	7	7	5	3		1											
																		-2	-3	-10	-10	-13 ▼	-13 ▼	-15 ▼	-17 ▼	-17 ▼	-21 ▼	-37
China	UAE	S. Korea	Sweden	Malaysia	Poland	Turkey	Spain	Russia	Ireland	Indonesia	Mexico	Japan	Argentina	Hong Kong	The Netherlands	Germany	New Zealand	U.K.	Canada	Singapore	Australia	Colombia	India	France	S. Africa	Brazil	Italy	U.S.

Source: 2018 Edelman Trust Barometer. Trust Volatility Measure. The net year-over-year (2017-2018) percentage point change across the four institutions (TRU_INS). General population, 28-country global total. For more details on how the Trust Volatility Measure was calculated, please refer to the Technical Appendix.

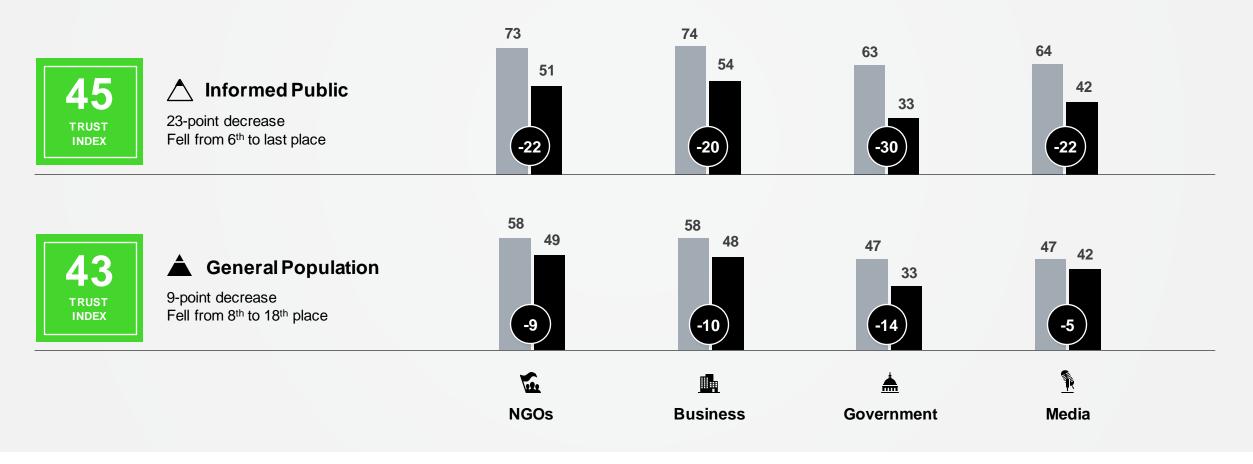
Global Leaders Poles Apart





Trust Crash in U.S.

Percent trust in each institution, and change from 2017 to 2018

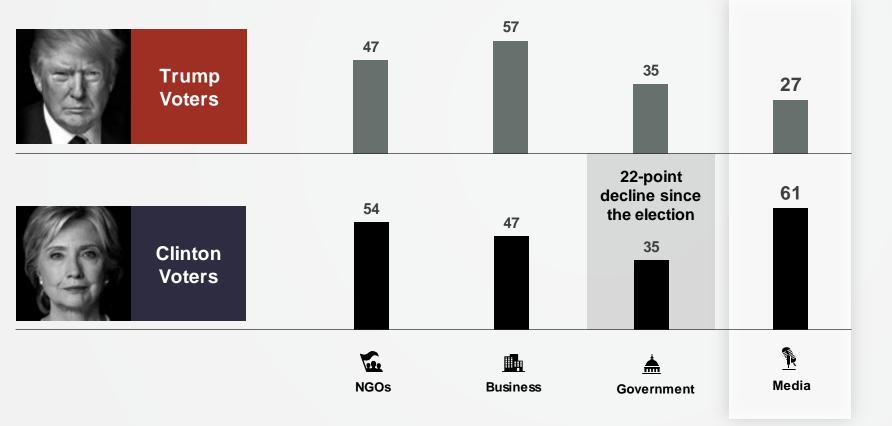


Source: 2018 Edelman Trust Barometer. TRU_INS. Below is a list of institutions. For each one, please indicate how much you trust that institution to do what is right using a nine-point scale, where one means that you "do not trust them at all" and nine means that you "trust them a great deal." (Top 4 Box, Trust) Informed Public and General Population, U.S. The Trust Index is an average of a country's trust in the institutions of government, business, media and NGOs. Informed Public and General Population,



U.S. Trust in Media Diverges Along Voting Lines

Percent trust in each institution, Trump vs. Clinton voters





difference in trust in the media

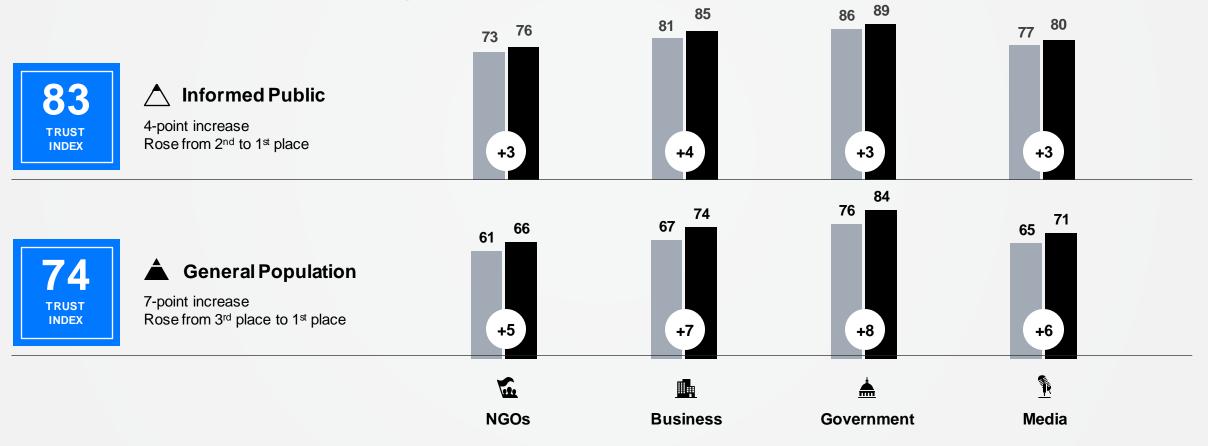
Source: 2018 Edelman Trust Barometer. TRU_INS. Below is a list of institutions. For each one, please indicate how much you trust that institution to do what is right using a nine-point scale, where one means that you "do not trust them at all" and nine means that you "trust them a great deal." (Top 4 Box, Trust) S11. For whom did you vote for in the last Presidential election? General population, U.S., among Trump (n=373) and Clinton (n=502) voters.





China Rising

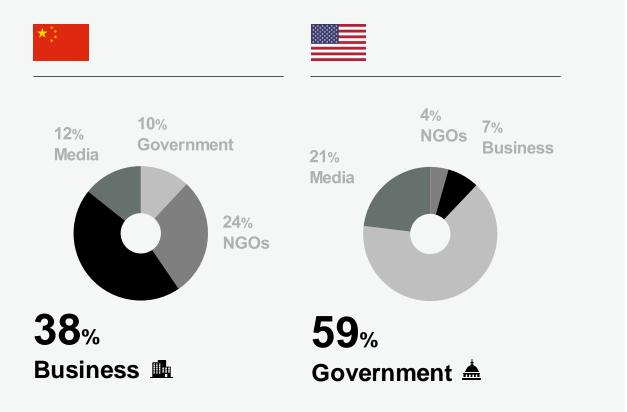
Percent trust in each institution, and change from 2017 to 2018



Source: 2018 Edelman Trust Barometer. TRU_INS. Below is a list of institutions. For each one, please indicate how much you trust that institution to do what is right using a nine-point scale, where one means that you "do not trust them at all" and nine means that you "trust them a great deal." (Top 4 Box, Trust) Informed Public and General Population, China. The Trust Index is an average of a country's trust in the institutions of government, business, media and NGOs. Informed Public and General Population, China.

Government Most Broken in the U.S.

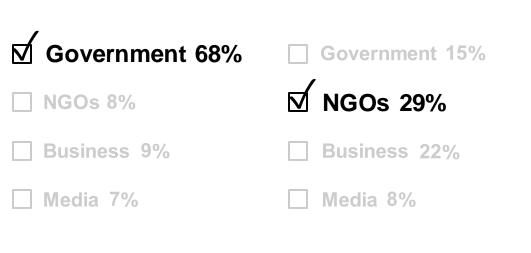
Which institution is the **most broken**?



Government Path to Better Future in China

Which institution is most likely to **lead to a better future**?

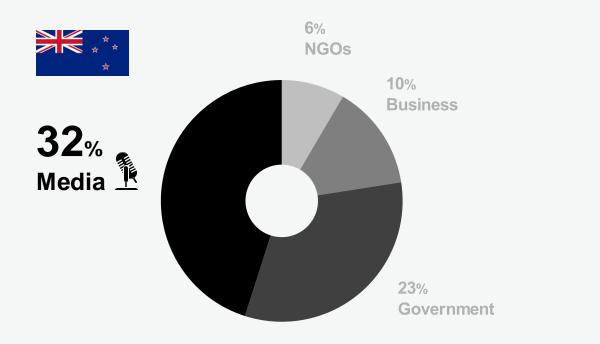




Source: 2018 Edelman Trust Barometer. ATT_STE. Please indicate which institution – Government, Media, Business or NGO's – is best described by each of the following statements? General population, U.S. and China.

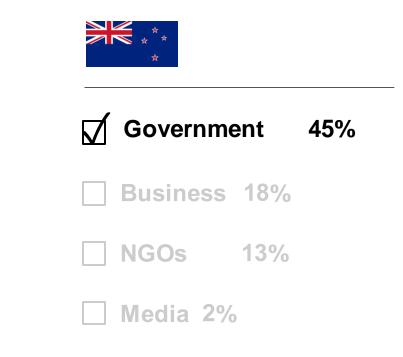
Media Most Broken in New Zealand

Which institution is the **most broken**?



Government Path to Better Future in New Zealand

Which institution is most likely to **lead to a better future**?



Source: 2018 Edelman Trust Barometer. ATT_STE. Please indicate which institution – Government, Media, Business or NGO's – is best described by each of the following statements? General population, U.S. and China, New Zealand General Population (n=1,150).

In Search of Truth

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World Worried About Fake News as a Weapon

Percent who worry about false information or fake news being used as a weapon

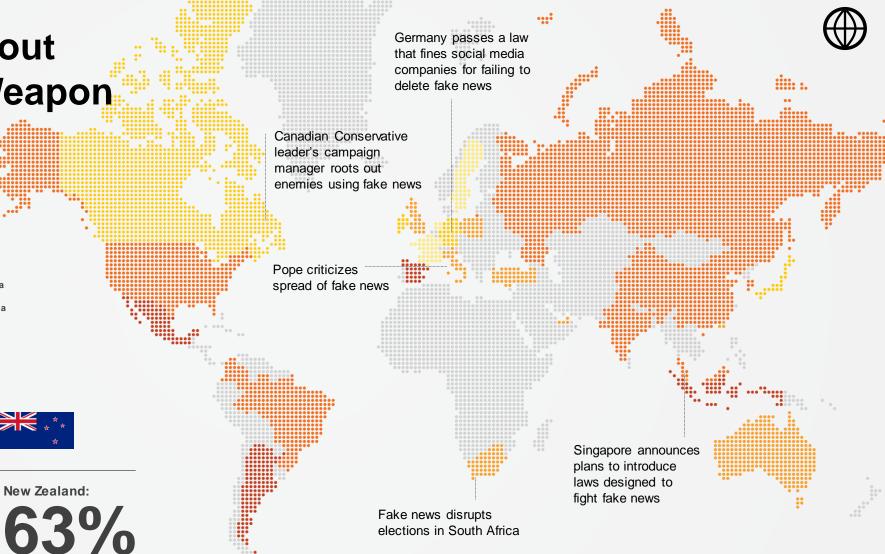
55-60	61-65	66-70	71-75	76-80
France Sweden Netherlands	Canada Ireland Japan Germany	Italy Singapore S. Africa UAE U.K. Australia Hong Kong Poland Turkey	Brazil India Colombia Malaysia S. Korea U.S. China Russia	Mexico Argentina Spain Indonesia

Nearly

worry about false

being used as a weapon

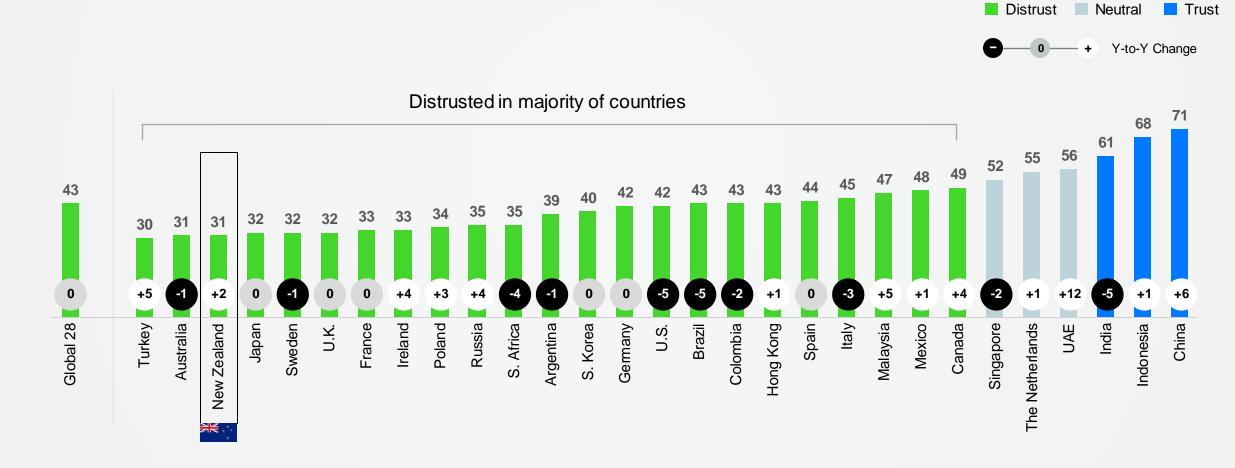
7 in 10 information or fake news



Source: 2018 Edelman Trust Barometer. ATT MED AGR. Below is a list of statements. For each one, please rate how much you agree or disagree with that statement using a nine-point scale where one means "strongly disagree" and nine means "strongly agree". (Top 4 Box, Agree), question asked of half of the sample. General population, 28-country global total, New Zealand General Population (n=575).

Media Now Least Trusted Institution

Percent trust in media, and change from 2017 to 2018



Source: 2018 Edelman Trust Barometer. TRU_INS. [MEDIA IN GENERAL] Below is a list of institutions. For each one, please indicate how much you trust that institution to do what is right using a nine-point scale where one means that you "do not trust them at all" and nine means that you "trust them a great deal." (Top 4 Box, Trust) General population, 28-country global total, New Zealand General Population (n=1,150).

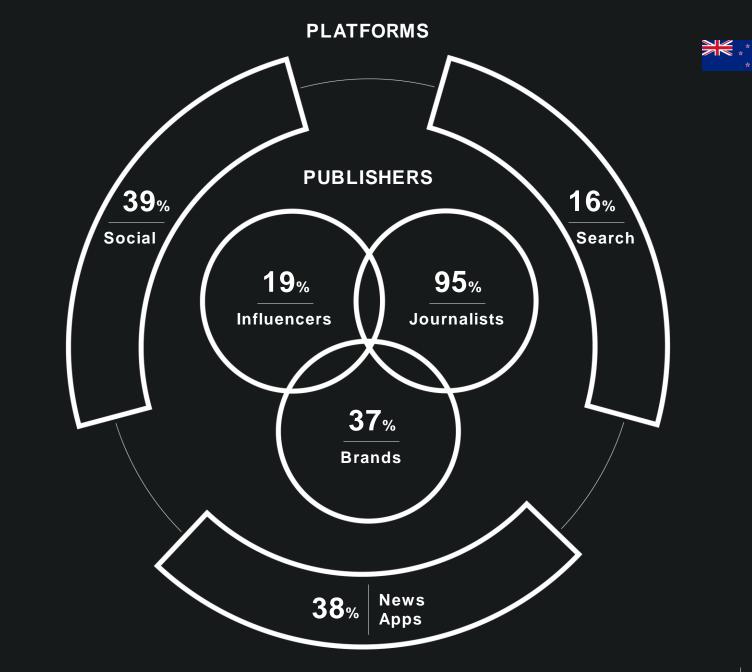
Global totals exclude New Zealand figures.



People in New Zealand Define "Media" As Both Content and Platforms

What did you assume was meant by the phrase "media in general"?

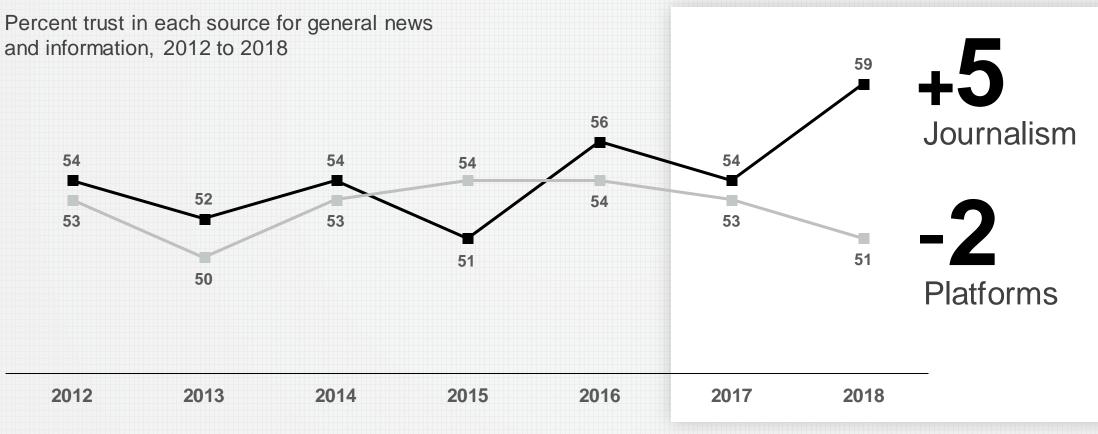
Source: 2018 Edelman Trust Barometer. TRU_MED. In the above question, what did you assume was meant by the phrase "media in general"? General population, 28-country global total, New Zealand General Population (n=1,150). Social is a net of TRU_MEDr3 and r12, Influencers is r5, Search is r7, Brands is a net of r10 and r11, Journalists is a net of r1 and r6, News Apps is r8.



Average trust in search engines and social media platforms



Globally, While Trust in Platforms Declines, Trust in Journalism Rebounds



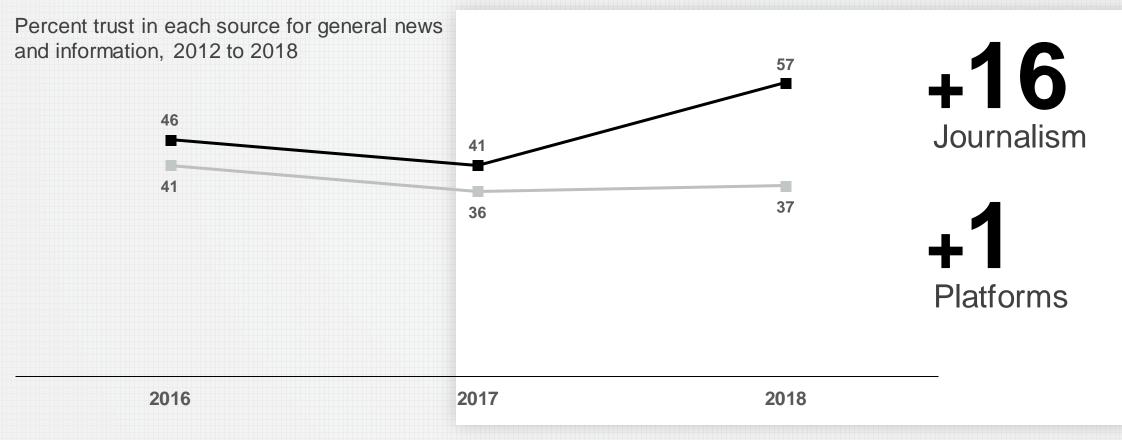
Source: 2018 Edelman Trust Barometer. COM_MCL. When looking for general news and information, how much would you trust each type of source for general news and information? Please use a nine-point scale where one means that you "do not trust it at all" and nine means that you "trust it a great deal." (Top 4 Box, Trust), question asked of half of the sample. General population, 25-country global total.

Journalism is an average of traditional media and online-only media. Platforms is an average of search engines and social media.

Average trust in traditional and online-only media Average trust in search engines and social media platforms



Trust in Journalism Outpaces Trust in Platforms in New Zealand



Source: 2018 Edelman Trust Barometer. COM_MCL. When looking for general news and information, how much would you trust each type of source for general news and information? Please use a nine-point scale where one means that you "do not trust it at all" and nine means that you "trust it a great deal." (Top 4 Box, Trust), question asked of half of the sample. General population, 25-country global total, New Zealand General Population (n=1,150).

Average trust in traditional and online-only media

Average trust in search engines and social media platforms

Journalism More Trusted Than Platforms in Most Countries

Platforms Gap in trust in journalism vs. platforms Journalism More Trusted More Trusted % Trust in 59 57 52 61 53 66 61 66 62 61 Journalism 21 20 20 19 19 <u>18</u> 17 17 17 14 12 11 9 8 8 Gap 0 0 0 -1 -1 -13 % Trust in 51 40 33 37 33 47 43 35 36 68 62 64 58 68 55 53 54 42 40 54 46 53 49 5 73 62 Platforms Ireland Turkey France S. Africa Spain Poland UAE Brazil Mexico The Netherlands U.K. ltaly China Japan Russia S. Korea Germany Zealand Sweden Canada Australia Singapore U.S. Argentina Hong Kong India Colombia Indonesia Malaysia **Global 28** New

Source: 2018 Edelman Trust Barometer. COM_MCL. When looking for general news and information, how much would you trust each type of source for general news and information? Please use a nine-point scale where one means that you "do not trust it at all" and nine means that you "trust it a great deal." (Top 4 Box, Trust), question asked of half of the sample. General population, 28-country global total.

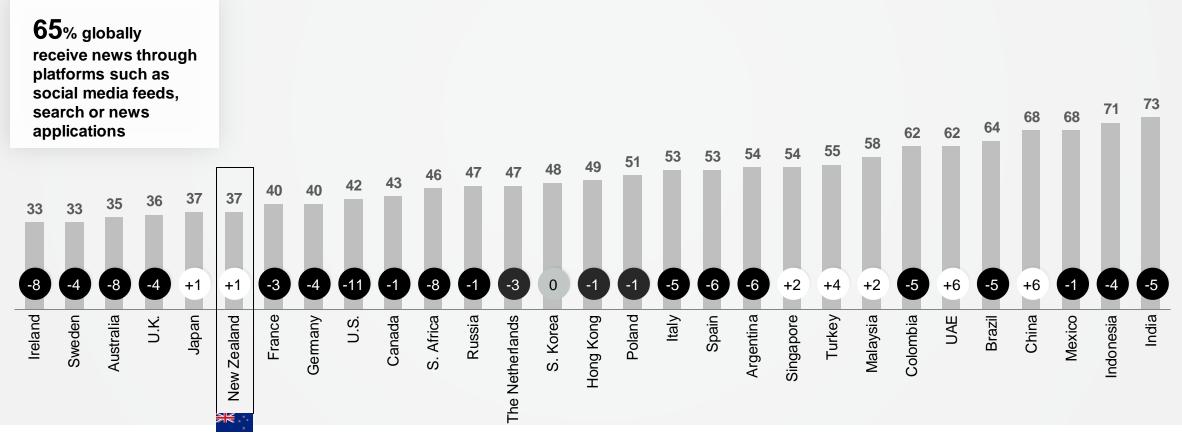
Journalism is an average of traditional media and online-only media. Platforms is an average of search engines and social media.



Trust in Platforms Decreased in Most Countries

Average trust in search engines and social media platforms, and change from 2017 to 2018





Source: 2018 Edelman Trust Barometer. COM_MCL. When looking for general news and information, how much would you trust each type of source for general news and information? Please use a nine-point scale where one means that you "do not trust it at all" and nine means that you "trust it a great deal." (Top 4 Box, Trust), question asked of half of the sample. MED_NEW_CSP. How do you normally get your news? (callout is net of codes 2, 5 and 7), question asked of half of the sample. General population, 28-country global total, New Zealand General Population (n=1,150).

Platforms is an average of search engines and social media. Global totals exclude New Zealand figures.

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Half Disengaged With the News

Consumption

How frequently do you consume news produced by major news organizations, either at the original source, shared by others or pushed to you in a feed?

Amplification

How often do you share or forward news items, or post opinions or other content?

Source: 2018 Edelman Trust Barometer. News Engagement Scale, built from MED_SEG_OFT. How often do you engage in the following activities related to news and information? Indicate your answer using the 7-point scale below. General population, 28-country global total. For details on how the News Engagement Scale was built, please refer to the Technical Appendix.

NB: Numbers for New Zealand do not sum to 100% due to rounding

\mathbf{D}	50% The Disengaged Consume news less than weekly	25% Consumers Consume news about weekly or more	25% Amplifiers Consume news about weekly or more AND share or post content several times a month or more
***	54%	32%	13%
*	The Disengaged	Consumers	Amplifiers

Skeptical About News Organizations

Percent who agree that news organizations are overly focused on ...

Attracting Large Audiences Breaking News Politics



are more concerned with attracting a big audience than reporting

New Zealand:

69%

New Zealand:

sacrifice accuracy to be

the first to break a story



65%

59%

support an ideology vs. informing the public

New Zealand:

Source: 2018 Edelman Trust Barometer. ATT_MED_AGR. Below is a list of statements. For each one, please rate how much you agree or disagree with that statement using a nine-point scale where one means "strongly disagree" and nine means "strongly agree". (Top 4 Box, Agree), question asked of half of the sample. General population, 28-country global total, New Zealand General Population (n=575).



*

Uncertainty Over Real vs. Fake News mono

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Percent who agree that



63%

The average person does not know how to tell good journalism from rumor or falsehoods

unexpected time p

Doha

New Zealand:

59%

encore

cette

It is becoming harder to tell if a piece of news was produced by a respected media organization

New Zealand:



Source: 2018 Edelman Trust Barometer. ATT MED AGR. Below is a list of statements. For each one, please rate how much you agree or disagree with that statement using a nine-point scale where one means "strongly disagree" and nine means "strongly agree". (Top 4 Box, Agree), question asked of half of the sample. General population, 28-countryglobal total, New Zealand General Population (n=575)

Media Failing to Meet Expectations in New Zealand

Top three trust-building mandates for media, and percent who say the media is performing well or very well against them

Trust-Building Mandate	Performance Score					
Guard information quality	26%					
Educate people on important issues	46%					
Investigate corruption and						

44%

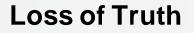
Source: 2018 Edelman Trust Barometer. Trust-building mandates Analysis. The most effective trust building mandates for each institution. INS EXP MED. Below is a list of potential expectations or responsibilities that a social institution might have. Thinking about the media in general, how would you characterize each using the following three-point scale. INS_PER_MED. How well do you feel the media is currently meeting this obligation to society? Please indicate your answer using the 5point scale below. (Top 2 Box, Performing well), guestion only asked of those codes 2 or 3 at the expectation guestion with data displayed only among code 3. New Zealand General Population (n=1,150). For more details on the Trust-building mandates Analysis, please refer to the Technical Appendix.

wrongdoing



Lack of Confidence in Media Undermining Trust and Truth

Percent of respondents who feel they are experiencing these consequences as a result of media not fulfilling its responsibilities



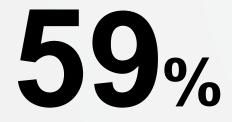
I am not sure what is true and what is not

Loss of Trust in Government Leaders

I do not know which politicians to trust

Loss of Trust in Business

I don't know which companies or brands to trust













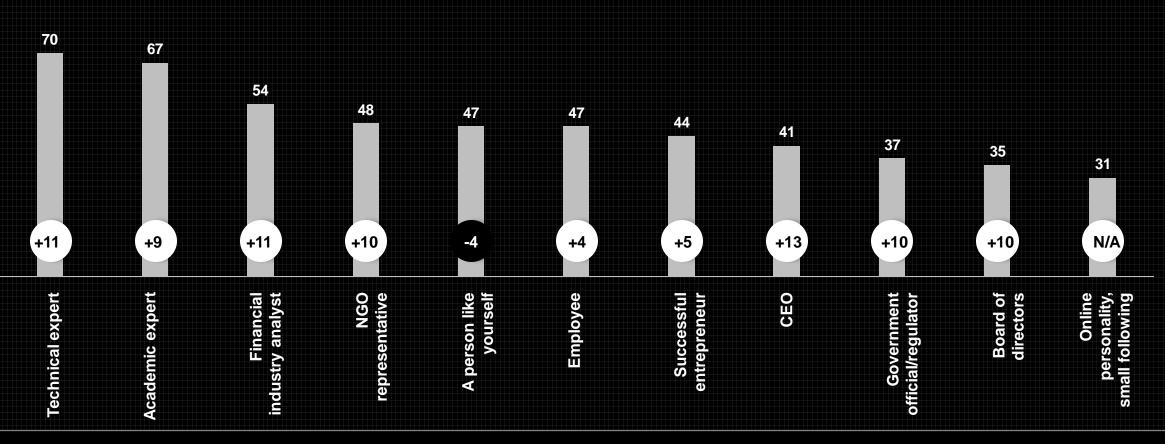
Source: 2018 Edelman Trust Barometer. MED_CON. What consequences are you experiencing as a direct result of the media not doing a good job fulfilling its responsibilities? Question asked of those who answered codes 1-3 at MED_RSP. General population, 28-country global total, New Zealand General Population (n=365).

Navigating a Polarized World

Experts Further Strengthen Credibility

Percent who rate each spokesperson as very/extremely credible, and change from 2017 to 2018





Source: 2018 Edelman Trust Barometer. CRE_PPL. Below is a list of people. In general, when forming an opinion of a company, if you heard information about a company from each person, how credible would the information be—extremely credible, very credible, somewhat credible, or not credible at all? (Top 2 Box, Very/Extremely Credible), question asked of half of the sample. New Zealand General Population (n=575).

Business Is Expected to Lead

Percent who agree and percent who say each is one of the most important expectations they have for a CEO

Percent who say that CEOs should take the lead on change rather than waiting for government to impose it

60%

For CEOs, reflecting company values is job one

Ensure their company is trusted	74
Business decisions reflect company values	74
Their products and services are high quality	72
Set high ethical standards	70

Source: 2018 Edelman Trust Barometer. CEO_AGR. Thinking about CEOs, how strongly do you agree or disagree with the following statements? (Top 4 Box, Agree), question asked of half of the sample. CEO_EXP. Below is a list of potential expectations that you might have for a company CEO. Thinking about CEOs in general, whether they are global CEOs or a CEO who oversees a particular country, how would you characterize each using the following three-point scale? (Most important responsibility, code 3), question asked of half of the sample. New Zealand General Population (n=575).



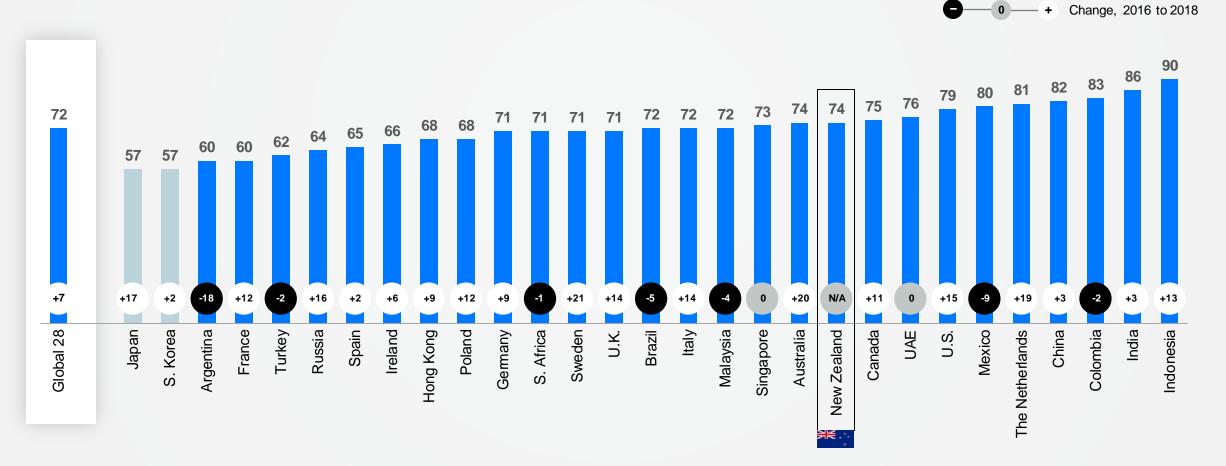
Employers Trusted Around the World



Trust

Distrust Neutral

Percent trust in employer, and change from 2016 to 2018



Source: 2018 Edelman Trust Barometer. TRU_INS. [YOUR EMPLOYER] Below is a list of institutions. For each one, please indicate how much you trust that institution to do what is right using a nine-point scale where one means that you "do not trust them at all" and nine means that you "trust them a great deal." (Top 4 Box, Trust) General population, 28-country global total. New Zealand General Population (n=575).

Note: 2016 data w as taken from Q525-526. Thinking about your own company and other companies in your industry, please indicate how much you trust each to do w hat is right using a 9-point scale w here one means that you "do not trust them at all" and nine means that you "trust them a great deal". (Top 4 Box, Trust), question asked of half of the sample. General population, 28-country global total. Global total excludes New Zealand figures.

Business Must Show Commitment to Long-Term

Percent who agree that ...



56%

Companies that only think about themselves and their profits are bound to fail

New Zealand:



60% CEOs are driven more by greed than a desire to make a positive difference in the world

New Zealand:

59%

Source: 2018 Edelman Trust Barometer. TMA_SIE_SHV. Please indicate how much you agree or disagree with the following statements. (Top 4 Box, Agree), question asked of half of the sample. CEO_AGR. Thinking about CEOs, how strongly do you agree or disagree with the following statements? (Top 4 Box, Agree), question asked of half of the sample. General population, 28-country global total, New Zealand General Population (n=575).

Sector and Home Country Provide Context for Business Leadership

Percent trust in companies by industry sector and by their country of origin, and change from 2017 to 2018

Sectors - Global



Most Trusted

Technology	75%
Education	70%
Professional Services	68%

Sectors – New Zealand

Most Trusted							
Education	71%						
Healthcare	70%						
Professional services	67%						
Transportation	67%						

Least Trusted

Financial Services	54%
CPG	60%
Automotive	62%

Least Trusted

Fashion	43%
Financial Services	45%
Consumer Packaged Goods	49%
Entertainmment	49%



Biggest Y-to-Y Changes

Food and Beverage				
Automotive				
CPG				



Biggest Y-to-Y Changes – New Zealand

Consumer	Packaged G	Goods	7
Entertainme	ent	÷	6
Professiona	I Services	+	5

Source: 2018 Edelman Trust Barometer. TRU_IND. Please indicate how much you trust businesses in each of the following industries to do what is right. Again, please use the same 9-point scale where one means that you "do not trust them at all" and nine means that you "trust them a great deal". (Top 4 Box, Trust), industries asked of half of the sample. TRU_NAT. Now we would like to focus on global companies headquartered in specific countries. Please indicate how much you trust global companies headquartered in the following countries to do what is right. Use the same nine-point scale, where one means that you "do not trust them at all" and nine means that you "trust them at all" and nine means that you "trust them at great deal." (Top 4 Box, Trust), countries asked of half of the sample. General Population, 28-country global total, New Zealand General Population (n=575).



Business Must Address Market Dynamics

Trust-building mandates for business in countries with extreme or typical trust changes

Countries with extreme Trust Gains Countries include China, UAE, South Korea	Countries with Typical Changes in Trust Countries include Russia, Mexico, U.K., Japan	Countries with extreme Trust Losses Countries include U.S., India, Colombia, Brazil
Invest in Jobs	Invest in Jobs	Guard Information Quality
Consumer Safety	Ensure Equal Opportunity	Consumer Safety
Improve Quality of Life	Safeguard Privacy	Safeguard Privacy
Ensure Competitive Workforce	Drive Economic Prosperity	Drive Economic Prosperity
Innovate	Provide for Future Generations	Innovate

Source: 2018 Edelman Trust Barometer. Trust Volatility Measure. The net year-over-year (2017-2018) percentage point change across the four institutions (TRU_INS). General population, 28-country global total. Trust-building mandates Analysis. The most effective trust building mandates for each institution. Mandates not shown in rank order. INS_EXP_BUS. Below is a list of potential expectations or responsibilities that a social in stitution might have. Thinking about business in general, how would you characterize each using the following three-point scale. General population, 28-country global total. For more details on the Trust Volatility Measure and Trust Mandates Analysis, please refer to the Technical Appendix.



Each Institution Must Play its Role

Top trust-building mandates for each institution

Business

Safeguard privacy Drive economic prosperity Provide jobs and training

🛣 NGOs

Support the poor Call out abuses of power Create a sense of community

1 Media

Guard information quality Educate, inform and entertain Safeguard privacy

📥 Government

Drive economic prosperity Investigate corruption Support the poor

Source: 2018 Edelman Trust Barometer. Trust-Building Mandates Analysis. The most effective trust building mandates for each institution. INS_EXP_GOV; INS_EXP_MED; INS_EXP_BUS; and INS_EXP_NGO. Below is a list of potential expectations or responsibilities that a social institution might have. Thinking about [insert institution] in general, how would you characterize each using the following three -point scale. General population, 28-country global total. For more details on the Trust Mandates Analysis, please refer to the Technical Appendix.

2018 Edelman Trust Barometer Supplementary Data

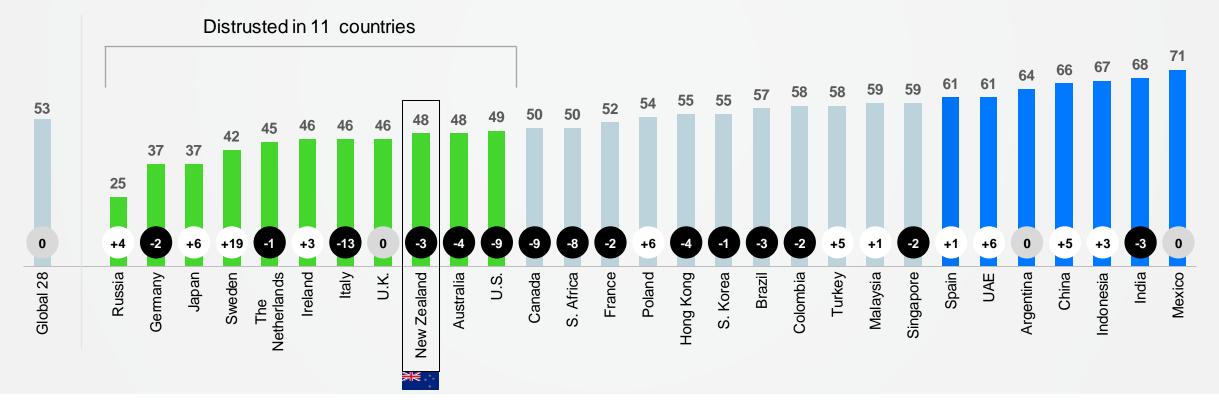
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Supplementary Data

- 1. Trust in institutions, 2018 and change from 2017
- 2. Trust in institutions, 2012 to 2018
- 3. Trust in industry sectors, 2018 and trends from 2012 to 2018
- 4. Trust in countries of origin, 2018 and change from 2017

Trust in NGOs Declines in 15 Countries

Percent trust in NGOs, and change from 2017 to 2018



Source: 2018 Edelman Trust Barometer. TRU_INS. [NGOs IN GENERAL] Below is a list of institutions. For each one, please indicate how much you trust that institution to do what is right using a nine-point scale where one means that you "do not trust them at all" and nine means that you "trust them a great deal." (Top 4 Box, Trust) General Population, 28-country global total, New Zealand General Population (n=1,150).

Global total excludes New Zealand figures.





Trust in Business Increases in 14 Countries

Percent trust in business, and change from 2017 to 2018

Distrusted in 17 countries 78 74 74 70 68 64 60 60 57 56 54 53 52 49 49 48 47 47 46 45 36 36 -3 +3 -1 +2 -8 -2 -1 +3 0 -10 -3 -2 -4 +4 0 0 +4 +3 +7 +2 0 +2 +1 +1 +1 -1 +3 -1 0 Poland Argentina France The Netherlands Ireland Russia Japan Turkey Zealand Sweden Canada Malaysia Mexico India Spain Africa Italy UAE China Global 28 Hong Kong S. Korea U.K. Germany Australia U.S. Singapore Brazil Colombia Indonesia ഗ് New

Source: 2018 Edelman Trust Barometer. TRU_INS. [BUSINESS IN GENERAL] Below is a list of institutions. For each one, please in dicate how much you trust that institution to do what is right using a nine-point scale where one means that you "do not trust them at all" and nine means that you "trust them a great deal." (Top 4 Box, Trust) General Population, 28-country global total, New Zealand General Population (n=1,150).

Global total excludes New Zealand figures.

40







Trust in Government Increases in 17 Countries

Percent trust in government, and change from 2017 to 2018

33

28

France Poland Africa Italy Mexico Global 28 Brazil Colombia ഗ് Source: 2018 Edelman Trust Barometer. TRU_INS. [GOVERNMENT IN GENERAL] Below is a list of institutions. For each one, please indicate how much you trust that institution to do what is right using a nine-point scale where one means that you "do not trust them at all" and nine means that you "trust them a great deal." (Top 4 Box, Trust) General

Population, 28-country global total, New Zealand General Population (n=1,150).

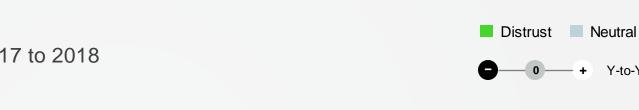
25

24

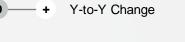
Global total excludes New Zealand figures.

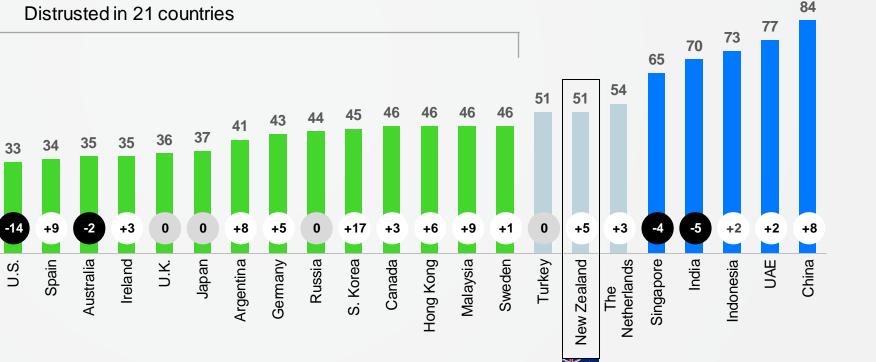
43

+2



Trust

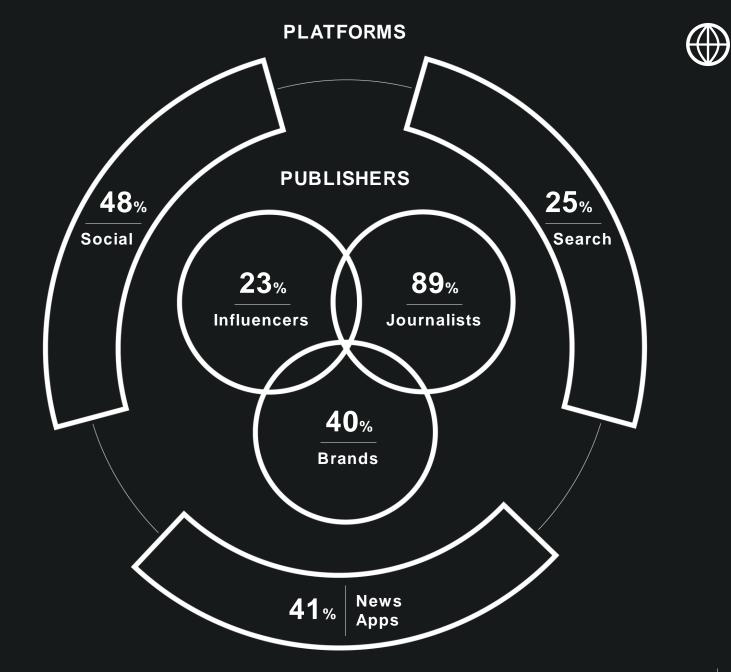




People Define "Media" As Both Content and Platforms

What did you assume was meant by the phrase "media in general"?

Source: 2018 Edelman Trust Barometer. TRU_MED. In the above question, what did you assume was meant by the phrase "media in general"? General population, 28-country global total. Social is a net of TRU_MEDr3 and r12, Influencers is r5, Search is r7, Brands is a net of r10 and r11, Journalists is a net of r1 and r6, News Apps is r8.



Media Failing to Meet Expectations

Top three trust-building mandates for media, and percent who say the media is performing well or very well against them

Trust-Building Mandate	Performance Score
Guard information quality	36%
Educate people on important issues	50%
Inform good life decisions	45%

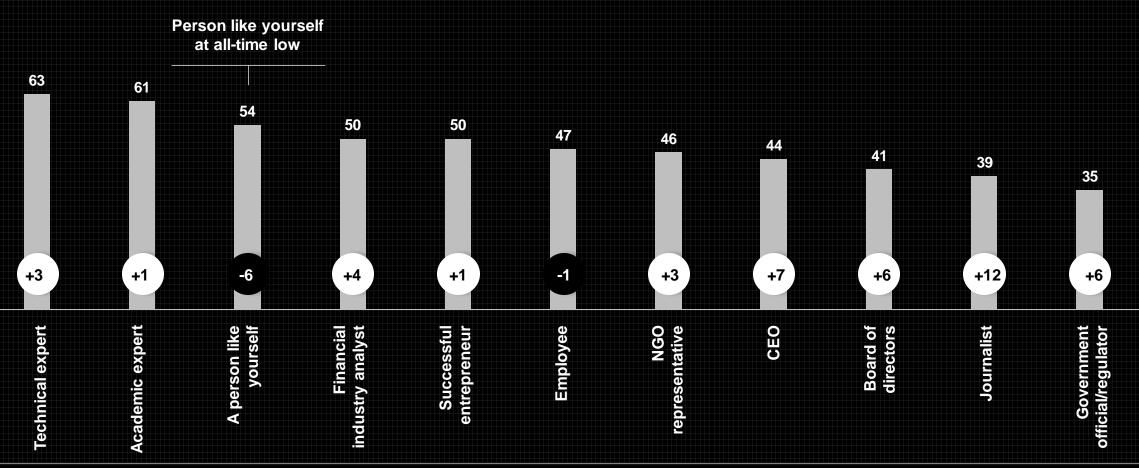
Source: 2018 Edelman Trust Barometer. Trust-building mandates Analysis. The most effective trust building mandates for each institution. INS_EXP_MED. Below is a list of potential expectations or responsibilities that a social institution might have. Thinking about the media in general, how would you characterize each using the following three-point scale. INS_PER_MED. How well do you feel the media is currently meeting this obligation to society? Please indicate your answer using the 5-point scale below. (Top 2 Box, Performing well), question only asked of those codes 2 or 3 at the expectation question with d at a displayed only among code 3. General population, 28-country global total. For more details on the Trust-building mandates Analysis, please refer to the Technical Appendix.

Voices of Authority Regain Credibility

Percent who rate each spokesperson as very/extremely credible, and change from 2017 to 2018







Source: 2018 Edelman Trust Barometer. CRE_PPL. Below is a list of people. In general, when forming an opinion of a company, if you heard information about a company from each person, how credible would the information be—extremely credible, very credible, somewhat credible, or not credible at all? (Top 2 Box, Very/Extremely Credible), question asked of half of the sample. General population, 28-country global total.



Business Is Expected to Lead

Percent who agree and percent who say each is one of the most important expectations they have for a CEO

Percent who say that CEOs should take the lead on change rather than waiting for government to impose it



For CEOs, building trust is job one

Their company is trusted	69	
Their products and services are high quality	68	
Business decisions reflect company values	64	
Profits and stock price increase	60	

Source: 2018 Edelman Trust Barometer. CEO_AGR. Thinking about CEOs, how strongly do you agree or disagree with the following statements? (Top 4 Box, Agree), question asked of half of the sample. CEO_EXP. Below is a list of potential expectations that you might have for a company CEO. Thinking about CEOs in general, whether they are global CEOs or a CEO who oversees a particular country, how would you characterize each using the following three-point scale? (Most important responsibility, code 3), question asked of half of the sample. General population, 28-country global total.



Trust Declines in 10 of 15 Sectors

Percent who trust each sector, and change from 2017 to 2018

62

Automotive

60

-3

СРG

54

Financial services

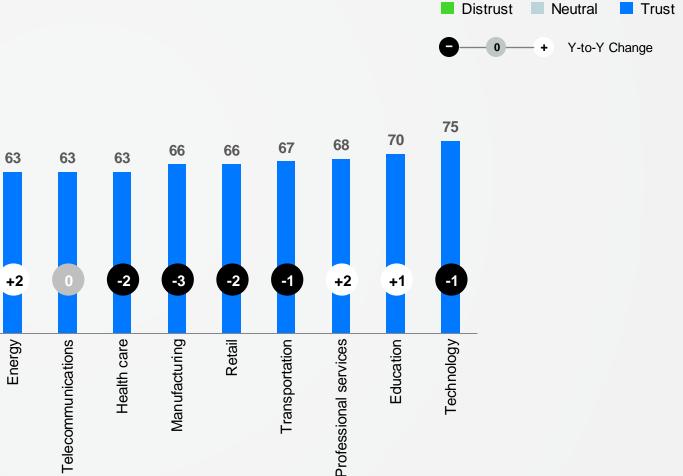
62

Food and beverage

62

-3

Entertainment



Source: 2018 Edelman Trust Barometer. TRU_IND. Please indicate how much you trust businesses in each of the following industries to do what is right. Again, please use the same 9-point scale where one means that you "do not trust them at all" and nine means that you "trust them a great deal". (Top 4 Box, Trust), industries shown to half of the sample. General Population, 28-country global total.

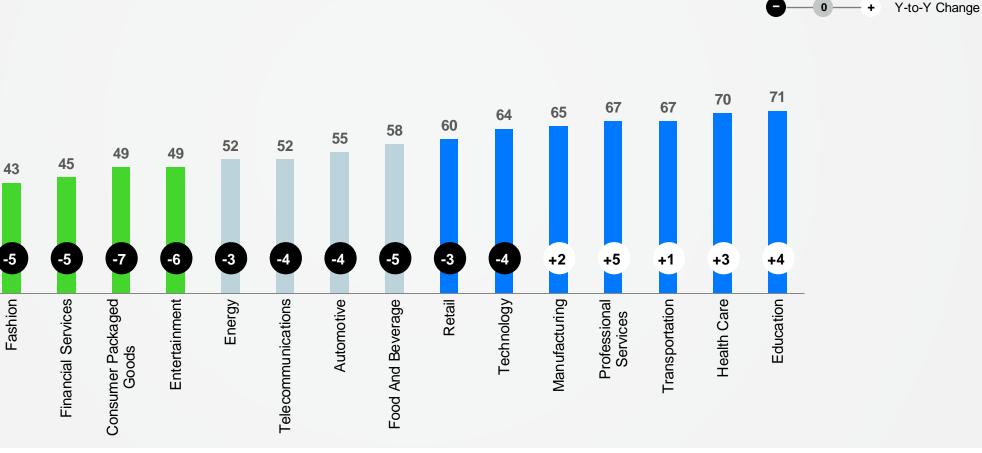
62

-1

Fashion

Trust Declines in Majority of Sectors

Percent who trust each sector, and change from 2017 to 2018



Source: 2018 Edelman Trust Barometer. TRU_IND. Please indicate how much you trust businesses in each of the following industries to do what is right. Again, please use the same 9-point scale where one means that you "do not trust them at all" and nine means that you "trust them a great deal". (Top 4 Box, Trust), industries shown to half of the sample. New Zealand General Population (n=575).





Trust

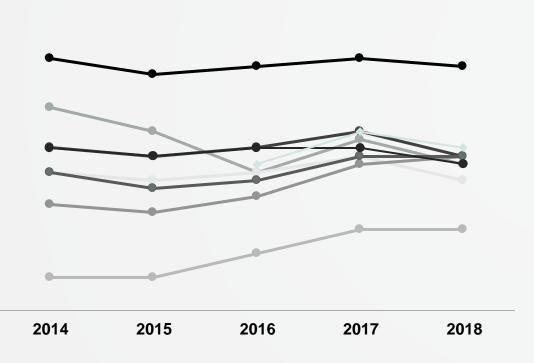
Distrust Neutral

Change, 2014 to 2018



Trust in Industry Sectors, Five-Year Trends

Trust in each sector, and change from 2014 to 2018



Industry	2014	2015	2016	2017	2018	5 yr. Trend
Technology	75%	73%	74%	75%	74%	-1
Health Care	-	-	62%	66%	64%	-
Energy	57%	56%	58%	62%	63%	+6
Food And Beverage	64%	63%	64%	66%	63%	-1
Telecommunications	61%	59%	60%	63%	63%	+2
Automotive	69%	66%	60%	65%	62%	-7
Entertainment	64%	63%	64%	64%	62%	-2
Consumer Packaged Goods	61%	60%	61%	63%	60%	-1
Financial Services	48%	48%	51%	54%	54%	+6

Source: 2018 Edelman Trust Barometer. TRU_IND. Please indicate how much you trust businesses in each of the following industries to do what is right. Again, please use the same 9-point scale where one means that you "do not trust them at all" and nine means that you "trust them a great deal". (Top 4 Box, Trust), industries shown to half of the sample. General Population, 27-country global total.

2018 Edelman Trust Barometer Technical Appendix

2018 Edelman Trust Barometer Table of Contents

Technical Appendix

- 1. Why Edelman studies trust
- 2. Methodology
- 3. The sample
- 4. How we measured trust volatility
- 5. How we measured trust in journalism and in platforms
- 6. How we defined the news engagement segments
- 7. How we measured the trust-building mandates
- 8. The Edelman Trust Barometer team

Why Edelman Studies Trust

In modern society, we delegate important aspects of our well-being to the four institutions of business (economic well-being), government (national security and public policy), media (information and knowledge) and NGOs (social causes and issues).

In order to feel safe delegating important aspects of our lives and well-being to others, we need to trust them to act with integrity and with our best interests in mind. Trust, therefore, is at the heart of an individual's relationship with an institution and, by association, its leadership.

If trust in these institutions diminishes, we begin to fear that we are no longer in safe, reliable hands. Without trust, the fabric of society can unravel to the detriment of all.

From an institutional standpoint, trust is a forward-looking metric. Unlike reputation, which is based on an organization's historical behavior, trust is a predictor of whether stakeholders will find you credible in the future, will embrace new innovations you introduce and will enthusiastically support or defend you.

For these reasons, trust is a valuable asset for all institutions, and ongoing trust-building activities should be one of the most important strategic priorities for every organization.

2018 Edelman Trust Barometer

Methodology

Online Survey in 28 Countries

18 years of data



33,000+ respondents total

All fieldwork was conducted between

October 28 and November 20, 2017

Survey in New Zealand



3 years of data

1150 respondents total

New Zealand fieldwork was conducted in XX December, 2017

28-country global data margin of error: General population +/-0.6% (N=32,200), informed public +/- 1.2% (N=6,200), mass population +/- 0.6% (26,000+), half-sample global general online population +/- 0.8 (N=16,100).

Country-specific data margin of error: General population +/- 2.9 (N=1,150), informed public +/- 6.9% (N = min 200, varies by country), China and U.S. +/- 4.4% (N=500), mass population +/- 3.0 to 3.6 (N =min 740, varies by country), New Zealand +/- 4.4 (N=1,150).

General Online Population

7 years in 25+ countries

Ages 18+

1,150 respondents per country

1,150 respondents in New Zealand

All slides show general online population data unless otherwise noted

Informed Public



10 years in 20+ countries

Represents 15% of total global population

500 respondents in U.S. and China; 200 in all other countries

XX in New Zealand

Must meet 4 criteria:

Ages 25-64

College educated

In top 25% of household income per age group in each country

Report significant media consumption and engagement in business news

Mass Population

All population not including informed public Represents 85% of total global population 1,065 in New Zealand

Methodology Sample Size, Quotas and Margin of Error

	General	Population		Informed Public										
	Sample Size*	Quotas Set On**	Margin of Error	Sample Size*	Quotas Set On***	Margin of Error								
Global	32,200	Age, Gender, Region	+/- 0.6% total sample +/- 0.8% half sample	6,200	Age, Education, Gender, Income	+/- 1.2% total sample +/- 1.8% split sample								
China and U.S.	1,150	Age, Gender, Region	+/- 2.9% total sample +/- 4.1% half sample	500	Age, Education, Gender, Income	+/- 4.4% total sample +/- 6.2% split sample								
All other countries	1,150	Age, Gender, Region	+/- 2.9% total sample +/- 4.1% half sample	200	Age, Education, Gender, Income	+/- 6.9% total sample +/- 9.8% split sample								
New Zealand	1,150	Age, Gender, Region	+/- 2.9% total sample +/- 4.1% half sample	158	Age, Education, Gender, Income	+/- 7.8% total sample +/- 11.0% split sample								

* Some questions were asked of only half of the sample. Please refer to the footnotes on each slide for details. ** In the U.S., U.K. and UAE, there were additional quotas on ethnicity.

*** In the UAE, there were additional quotas on ethnicity.

Methodology

Languages and Internet Penetration by Country

The Edelman Trust Barometer is an online survey. In developed countries, a nationally- representative online sample closely mirrors the general population. In countries with lower levels of internet penetration, a nationally-representative online sample will be more affluent, educated and urban than the general population.

	Languages	Internet Penetration*		Languages	Internet Penetration*		Languages	Internet Penetration*
Global	-	50%	India	Hindi & English	34%	Singapore	English & Simplified Chinese	81%
Argentina	Localized Spanish	79%	Indonesia	Indonesian	50%	South Africa	English & Afrikaans	54%
Australia	English	88%	Ireland	English	94%	South Korea	Korean	93%
Brazil	Portuguese	66%	Italy	Italian	87%	O m e in	Orregiat	070/
Canada	English & French Canadian	90%	Japan	Japanese	94%	Spain	Spanish	87%
China	Simplified Chinese	53%	Malaysia	Malay	79%	Sweden	Swedish & English	93%
Colombia	Localized Spanish	58%	Mexico	Localized Spanish	65%	Turkey	Turkish	70%
France	French	87%	Netherlands	Dutch & English	95%	UAE	Arabic & English	91%
Germany	German	90%	Poland	Polish	73%	U.K.	English	95%
Hong Kong	English & Traditional Chinese	87%	Russia	Russian	76%	U.S.	English	88%

Trust Volatility How Did We Measure Trust Volatility?

In 2018, we analyzed the volatility of trust in social institutions. Specifically, we looked at volatility in trust in the institutions of government, media, business and NGOs.

The volatility measure is the aggregate year-over-year change in trust for each of the four institutions at the country level. The individual trust changes (positive and negative) were summed across all four institutional entities to yield the aggregate trust volatility. This method reflects the net amount of change in either the positive or negative direction, rather than the absolute amount of change across the institutions (meaning a sum of both positive and negative numbers may cancel each other out).

For example, to measure institutional trust volatility in the U.S. in 2018, we calculated the percentage-point change in trust for each of the four main institutions from 2017 to 2018. This was done by subtracting the value in 2017 from the value in 2018, so that a decrease in trust was recorded as a negative number, and an increase in trust was recorded as a positive number. We then added these changes together across the four institutions, yielding a value of of -37. This shows that in the US, the four main institutions lost a combined 37 percentage points of trust from 2017 to 2018.

After calculating institutional volatility by country for every year from 2013-2018, we characterized greater-than-expected aggregate trust gains and losses. We looked at the volatility scores from all countries over the six-year period and identified the approximate lowest and highest 20 percent of scores (a combined 40 percent) as *noteworthy* changes in trust, while we characterized the approximate middle 60 percent of scores as *expected* trust changes. These groups of countries—those with extreme trust gains or losses, and those with typical trust changes—are shown on slide 9 of the global report. The image below is the volatility measure by country from 2017 to 2018.

The Polarization of Trust

Aggregate percentage point change in trust in the four institutions, and change from 2017 to 2018

											16 countries with Typical Changes in Trust										6 countries with extreme Trust Losses							
27	24	23	20	19	17	13	12	10	9	9	8	7	7	5	3	3	-1	-2	3	-10	-10	-13 ¥	-13	-17	-17	-21 ¥		
China	UAE	S. Korea	Swe de n	Ma lay sia	Poland	Turkey	Spain	Rus sla	Ireland	Indone sla	Mexico	Japan	Argentina	Hang Kang	The Netherlands	Germany	France	ли	Canada	Singapore	Australla	Colombia	India	S. Africa	Brazil	Italy		

News Sources How Did We Measure Trust in Journalism vs. Platforms?

We measure multiple components of the media ecosystem within the Trust Barometer, including traditional media, online-only media, social media, and search engines. These components ladder up to define two components of today's media eco-system: journalism and platforms, as shown on page 19 of the global report.

"Journalism" is the professional creation of news content, and is represented by traditional media and online-only media. "Platforms" is how the content is delivered or discovered and is represented by social media and search engines.

Within the report, the journalism score is the average top four box percentage of trust in traditional and online-only media, as defined at right. The platform score is the average top four box percentage of trust in social media and search engines.

Trust in News Sources Scale Items

When looking for general news and information, how much would you trust each type of source for general news and information? Please use a nine-point scale where one means that you "do not trust it at all" and nine means that you "trust it a great deal". (Please select one response for each.)

Journalism

Traditional Media: Mainstream media sources that are available in a print or broadcast format, such as newspapers, magazines, television news and radio news

Online-only Media: Online news sites and widely-followed blogs that report on top news stories, these do not have an offline version

Platforms

Social Media: Includes social networking sites (such as Facebook, LinkedIn, Snapchat, Instagram, Ozone, RenRen), online discussion forums, content-sharing sites (such as YouTube) and microblogging sites (such as Twitter or Sina Weibo)

Search Engines: Such as Google, Yahoo!, Bing or Baidu

News Engagement Segments How Did We Define the News Engagement Segments?

The three news engagement segments shown on slide 22 of the global report (The Disengaged, Consumers, and Amplifiers) were defined based on two scales.

The first scale measured news consumption and the second measured sharing and posting of news content. Both scales were based on an average of two activities, rated on a seven-point scale of how often the respondent engaged in the activities. We used both scales together to determine three levels of overall news engagement.

We discovered that those who scored high on the posting/sharing scale were very unlikely to score low on the consumption scale, and those who scored low on the consumption scale were very unlikely to score high on the sharing/posting scale. As a result, despite there being four possible high/low combinations of the two scales, we chose to segment respondents into only three groups as defined below.

	Consumption	Sharing and Posting
The Disengaged	Less than weekly	Less than several times a month
Consumers	About weekly or more	Less than several times a month
Amplifiers	About weekly or more	Several times a month or more

News Consumption Scale Items:

Read, view or listen to news and information produced by major news organizations or publications at the original source

Read news and information from major news organizations sent to me by others or pushed to me on a news feed, social network platform or application

News Content Sharing/Posting Scale Items:

Share or forward news items that I find to be interesting

Create and post my own opinions or other news/information content on social media platforms or other online sites

Activity frequency scale response options:

I never do this

I occasionally do this

I do this several times a month

I do this weekly

I do this several times a week

I do this daily

I do this several times a day

News Engagement Segments

The News Engagement Segments by Country

	General Population	Informed Public	Argentina	Australia	Brazil	Canada	China	Colombia	France	Germany	Hong Kong	India	Indonesia	Ireland	Italy	Japan	Malaysia	Mexico	Poland	Russia	Singapore	S. Africa	S. Korea	Spain	Sweden	The Netherlands	Turkey	UAE	U.K.	U.S.
The Disengaged	50	34	46	60	39	54	26	38	61	67	40	35	45	52	54	72	45	47	55	47	49	48	60	46	55	53	31	44	59	55
Consumers	25	31	26	28	23	31	28	28	23	15	31	19	17	32	19	18	19	19	23	32	30	24	18	26	31	34	23	18	25	26
Amplifiers	25	35	29	12	38	16	47	34	17	18	29	46	38	16	27	10	36	34	23	21	21	27	22	28	14	14	45	38	16	20

The Trust-Building Mandates **1. How We Identified the Mandates And Their Performance**

This year we asked a series of questions designed to identify the trustbuilding mandates for each institution--the link between the role each institution is expected to play, its performance against that role, and the trust in that institution.

First, we established the role of each institution (its mandates), how well the institutions were performing against those mandates, and if there is a relationship between performance and trust.

We asked respondents to identify the responsibilities they felt were in the particular domain of each institution (NGOs, business, government and media). For those responsibilities rated as among the most important ("mandates"), respondents were also asked to evaluate the performance of the institution against that mandate.

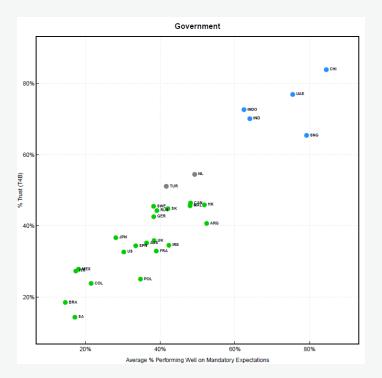
Globally, respondents identified an average of 10 mandates for each institution, and there was large variation in the mandates among respondents, even from within the same country. Thus, an institution's overall performance must first be evaluated at a respondent level, rather than as country averages.

To measure this, we averaged the performance scores of all the mandates for each respondent. Then, we calculated the percent of respondents within each country who, on average, believe that the institution in question is performing better than mediocre across the mandates identified by that respondent.

Demonstrating the link to trust.

To highlight the relationship between performance against mandates and trust, we plot the percent of people who believe an institution is performing well against its mandates by the percent trust in that institution for each of the 28 countries.

The graph below demonstrates a strong, linear relationship between trust and performance against the trust-building mandates for government. A similar relationship was found for all four of the institutions.



The Trust-Building Mandates The Questions and Full List of Mandates

Respondents were given a list of 26 potential societal roles, and asked how much of a responsibility each of the four institutions had in fulfilling that role. The questions we used and the full list of choices are shown below and at right.

Responsibility Characterization Question

Below is a list of potential expectations or responsibilities that a social institution might have. Thinking about [**insert institution**] in general, how would you characterize each using the following three-point scale.

- 1. [Insert institution] has no direct responsibility for this
- 2. This is something that [**insert institution**] should help with or contribute to, but it is not one of its primary responsibilities to society
- 3. This is one of the most important responsibilities that [**insert institution**] has as an institution
- 4. Don't know

Performance Against Mandates Question

How well do you feel [**insert institution**] is currently meeting this obligation to society? Please indicate your answer using the 5-point scale below.

- 1. [Insert institution] is failing at this
- 2. [Insert institution] is doing poorly on this
- 3. [Insert institution] is doing mediocre on this
- 4. [Insert institution] is doing this well
- 5. [Insert institution] is doing this very well
- 6. Don't know

	1	Ensure everyone has equal opportunities
Guardian of airness and Equity	2	Prevent discrimination
	3	Protect ordinary people from abuses of power
	4	Drive economic prosperity
Foster	5	Foster innovation and scientific advancement
Prosperity	6	Ensure workers have globally competitive skills
	7	Improve our quality of life
	8	Ensure the poorest have the basic minimum
	9	Provide good job opportunities
	10	Prevent bad health choices
	11	Provide for future generations
Take Care of People	12	Entertain and amuse
	13	Build infrastructure
	14	Provide social services
	15	Keep people safe from physical harm
	16	Protect privacy and personal information
	17	Shape or influence public opinion
Educate	18	Supply information for good life decisions
	19	Educate people on important issues
	20	Check and balance other institutions
Check & Balance	21	Be the guardian of information quality
Other Institutions	22	Investigate corruption and wrongdoing
	23	Support political leaders
Destaut	24	Guard the values that make this country great
Protect Tradition	25	Preserve our unique cultural traditions
	26	Create a sense of community

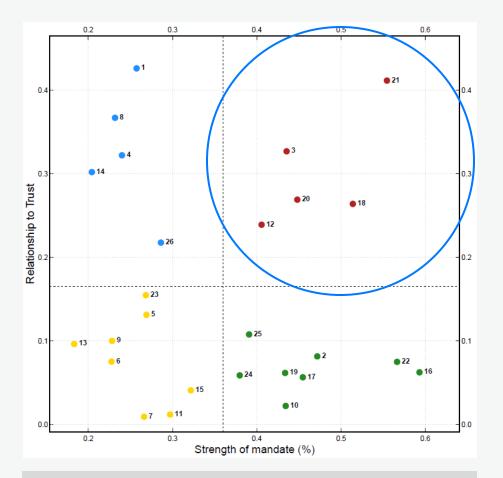
The Trust-Building Mandates 2. How We Prioritized the Trust-Building Mandates

The next step was to establish a hierarchy within the mandates, as different institutions have different societal roles, which may also vary by country. To prioritize the most important mandates for an institution to focus on, we analyzed the differences in the mandates' performance ratings between *trusters* and *distrusters* of that institution. We used a Linear Discriminate Analysis (LDA) to identify which mandates had the largest differences in performance ratings between *trusters* and *distrusters* and *distrusters*. The LDA coefficients allow us to compare the relative contribution of each mandate to the overall separation between the trusters' and distrusters' responses to the performance question.

The inference we're making is that mandates with larger differences in performance ratings between trusters and distrusters have a more direct relationship to trust; the larger the LDA coefficient, the stronger the relationship to trust. If an institution prioritizes these mandates, it can maximize its trust building effect with stakeholders—specifically the distrusters who believe that institution could improve on those specific mandates.

We used both the LDA results and the percent of respondents who said each item was mandatory to prioritize the institutional responsibilities based on the strength of each mandate's relationship to trust. This blended method leverages both the order of what respondents *said* were the most important mandates, and the *strength* of each mandate's relationship to trust determined by the LDA.

To visualize this, we plotted each mandate's LDA coefficient (y-axis) by the percent of respondents who said it was a mandatory expectation (x-axis), for each institution. We then separated the plot into quadrants using the mean of each data series as quadrant boundary values, and assigned priority levels to each quadrant.



Trust-building mandates have the strongest relationship to trust, and an above-average percent of respondents who believe it is very important for the institution to play that role.

The Edelman Trust Barometer Research Team



Tonia E. Ries

Intellectual Property

Tonia is Global Executive Director, Intellectual Property, a role that includes stewardship of the Trust Barometer, the Earned Brand research into consumer relationships with brands, and the development of new thought leadership initiatives.

She leads the firm's global knowledge agenda across practices, geographies and clients, and acts as a catalyst for new thinking and discourse on business in a multi-stakeholder society.

Tonia is a graduate of Columbia University and has more than 25 years of experience in marketing, research, strategy, conferences, and media.



David M. Bersoff, Ph.D.

Edelman Intelligence

David leads global thought leadership research at Edelman Intelligence, a world-class research and analytics consultancy.

In this capacity, he is responsible for questionnaire development, enhancing our methodological rigor, leading data analysis and insight-development activities, and developing new frameworks for understanding trust, credibility and consumer-brand relationships.

David holds a Ph.D. in social and cross-cultural psychology from Yale University.



Sarah Adkins

Edelman Intelligence

Sarah leads the operations side of all thought leadership projects for Edelman Intelligence, a role she has held for five years.

Prior to joining Edelman, Sarah spent eight years at Nielsen designing surveys, conducting data analysis and working closely with clients from all industries. She has 16+ years of experience in market research, with more than half of that spent in the brand and communications industry.

Sarah graduated from Fredonia State University with a bachelors degree in business administration, specializing in marketing and communications.



Cody Armstrong

Edelman Intelligence

Cody manages the day-to-day operations of Edelman IP research. He has six years experience in the market research industry, with more than three of them spent on the IP research team. Cody's background includes secondary research, where he conducted media analysis for clients across several industries.

Cody holds a B.A. in Sociology from the University at Albany, where he also dual minored in Psychology and Business.



Jamis Bruening

Edelman Intelligence

Jamis manages data management, processing, and analysis. An environmental scientist by training, Jamis joined EI with several years of research in an academic setting, where he studied climate dynamics and global environmental change.

Jamis holds a M.S. in Environmental Science from Western Washington University, and previously graduated from Colgate University where he studied physics and geography.