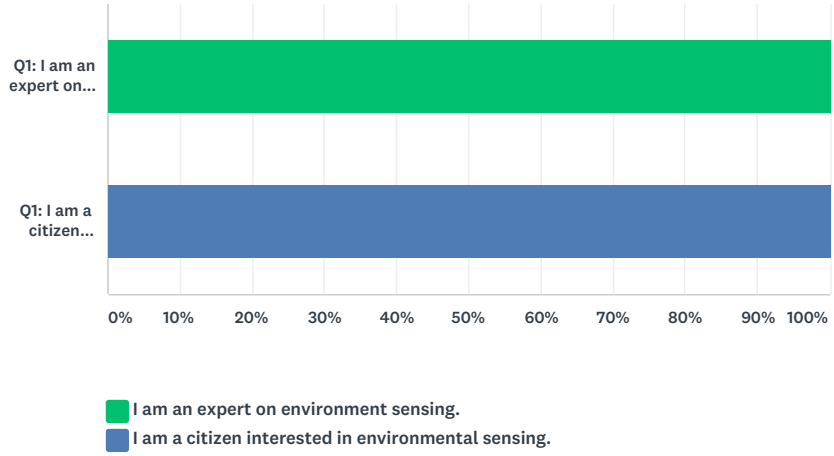
Q1 Please choose one role (expert or citizen) and fill in the questionnaire according to this role.

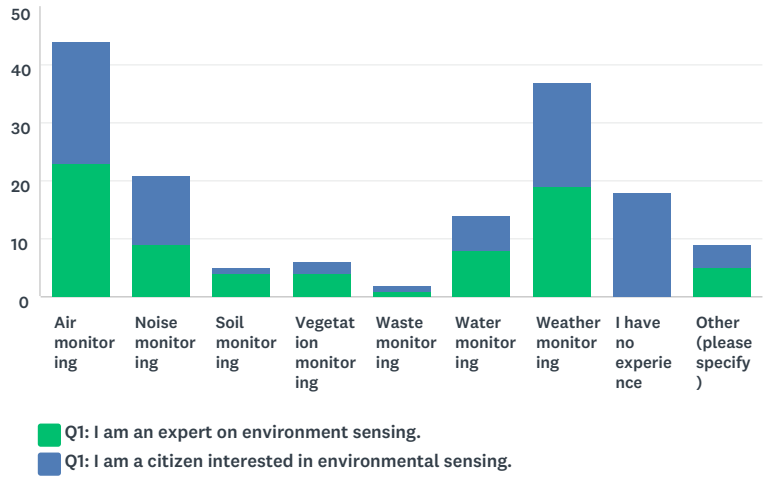
Answered: 81 Skipped: 0



	I AM AN EXPERT ON ENVIRONMENT SENSING.	I AM A CITIZEN INTERESTED IN ENVIRONMENTAL SENSING.	TOTAL
Q1: I am an expert on environment sensing.	100.00% 37	0.00% 0	45.68% 37
Q1: I am a citizen interested in environmental sensing.	0.00% 0	100.00% 44	54.32% 44
Total Respondents	37	44	81

Q2 Do you have experience on following environmental sensing applications. (Tick one or more boxes)

Answered: 81 Skipped: 0



	Q1: I AM AN EXPERT ON ENVIRONMENT SENSING.	Q1: I AM A CITIZEN INTERESTED IN ENVIRONMENTAL SENSING.	TOTAL
Air monitoring	52% 23	48% 21	54% 44
Noise monitoring	43% 9	57% 12	26% 21
Soil monitoring	80% 4	20% 1	6% 5
Vegetation monitoring	67% 4	33% 2	7% 6
Waste monitoring	50% 1	50% 1	2% 2
Water monitoring	57% 8	43% 6	17% 14
Weather monitoring	51% 19	49% 18	46% 37
I have no experience	0% 0	100% 18	22% 18
Other (please specify)	56% 5	44% 4	11% 9
Total Respondents	37	44	81

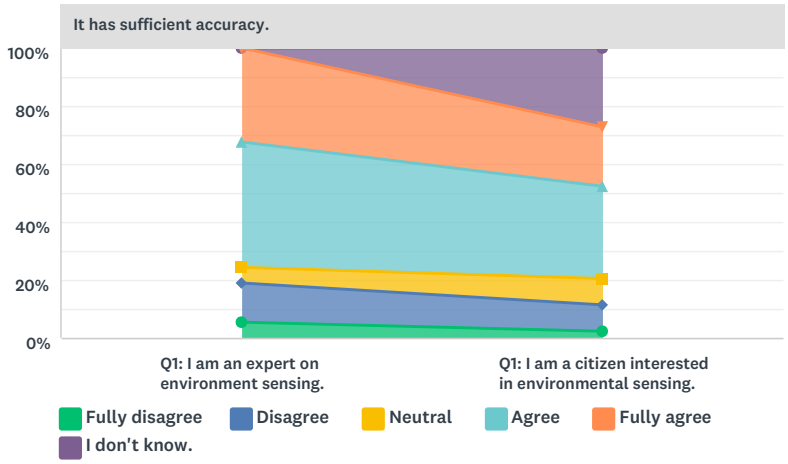
Q3 What is your role related to environmental sensing? (Tick one or more boxes)

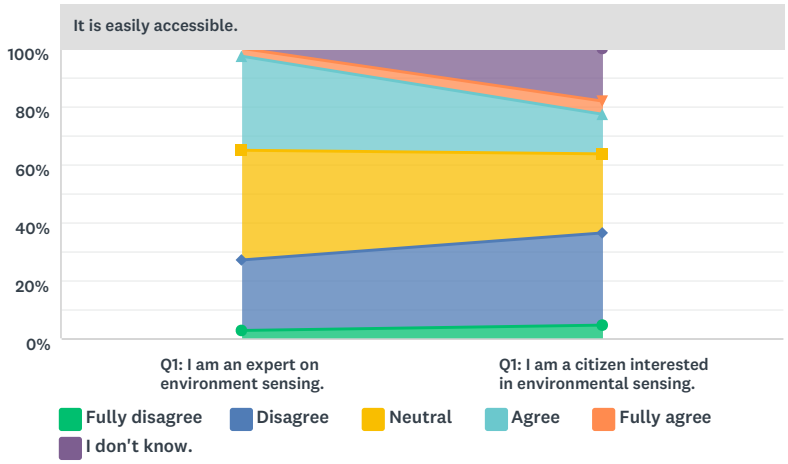
Answered: 81 Skipped: 0

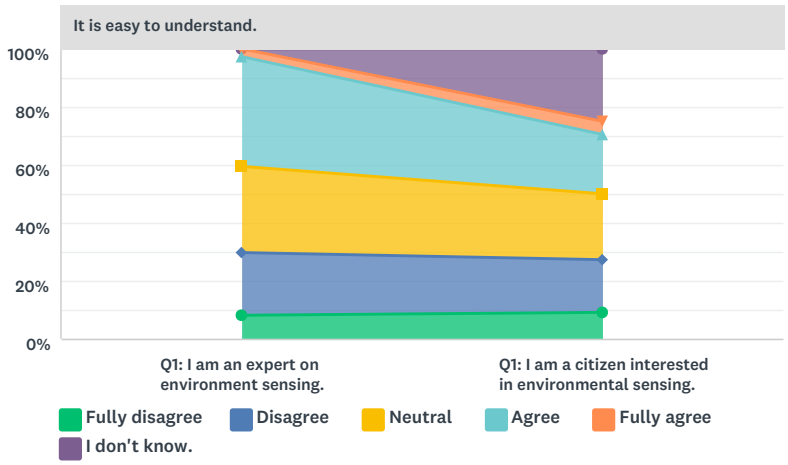
	Q1: I AM AN EXPERT ON ENVIRONMENT SENSING.	Q1: I AM A CITIZEN INTERESTED IN ENVIRONMENTAL SENSING.	TOTAL
Environmental policy maker	100% 7	0% 0	9% 7
Environmental researcher	89% 17	11% 2	23% 19
Sensor researcher	54% 7	46% 6	16% 13
Data scientist	63% 12	37% 7	23% 19
Data provider	20% 1	80% 4	6% 5
Hardware developer	40% 6	60% 9	19% 15
Software developer	43% 9	57% 12	26% 21
Citizen scientist	20% 4	80% 16	25% 20
Citizen	7% 2	93% 28	37% 30
Data user	44% 7	56% 9	20% 16
Just interested	0% 0	100% 18	22% 18
Other (please specify)	47% 8	53% 9	21% 17
Total Respondents	37	44	81

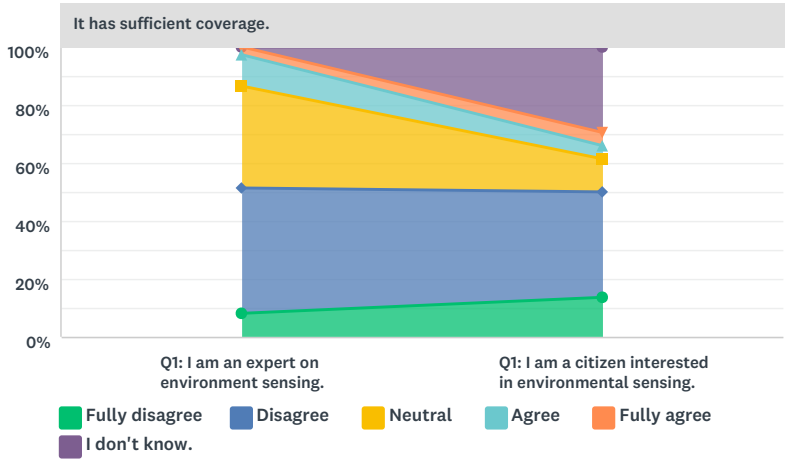
Q4 What is your opinion on formal environmental sensing data?

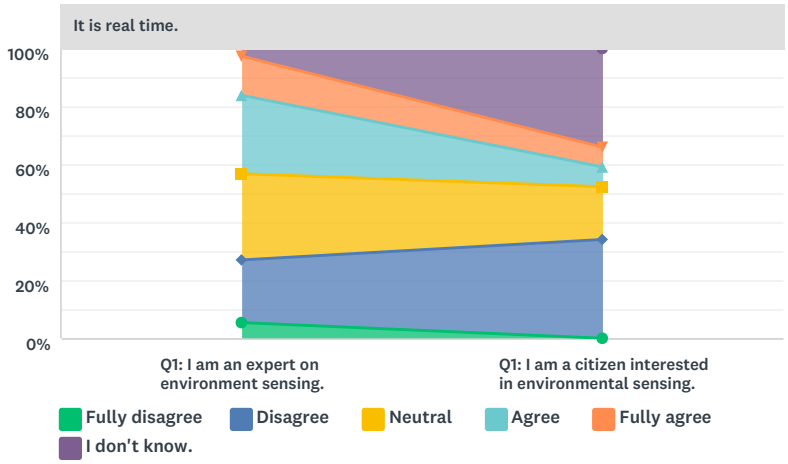
Answered: 81 Skipped: 0

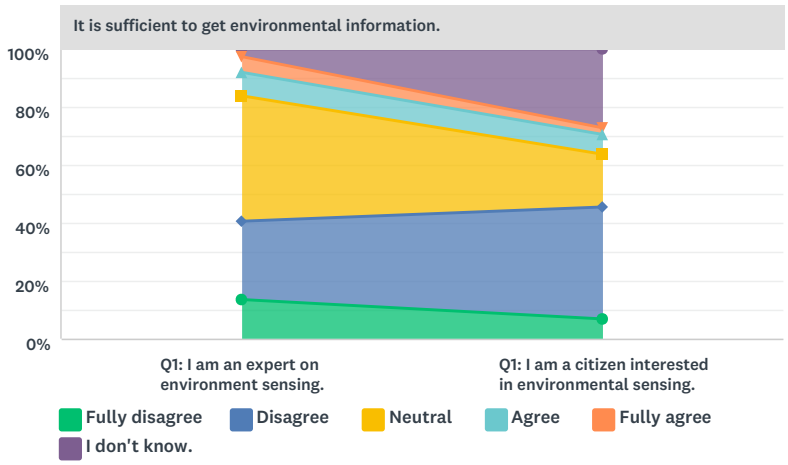


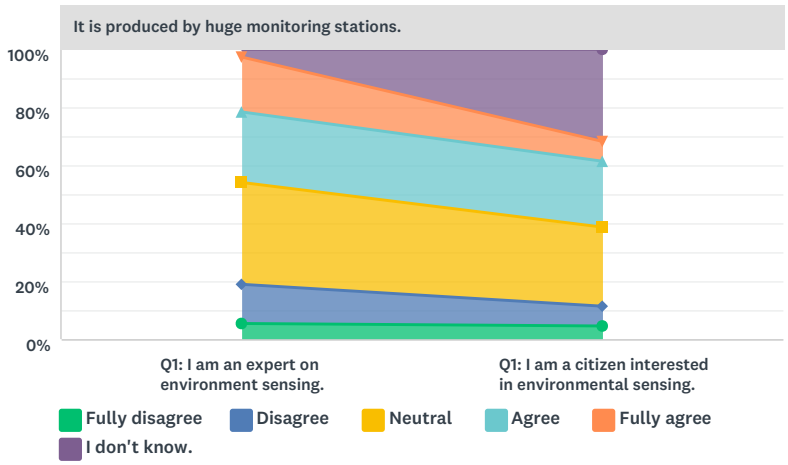


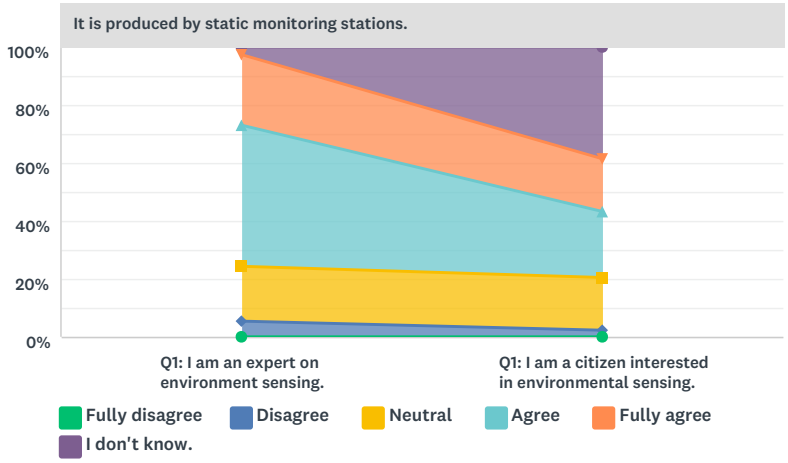


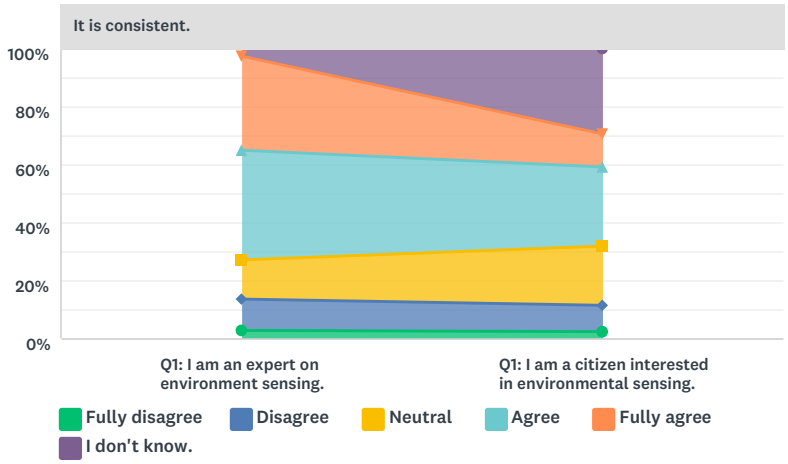

It has sufficient coverage.
100%
80%
60%
40%
20%
0%
Q1: I am an expert on environment sensing.
Q1: I am a citizen interested in environmental sensing.
Fully disagree
Disagree
Neutral
Agree
Fully agree
I don't know.

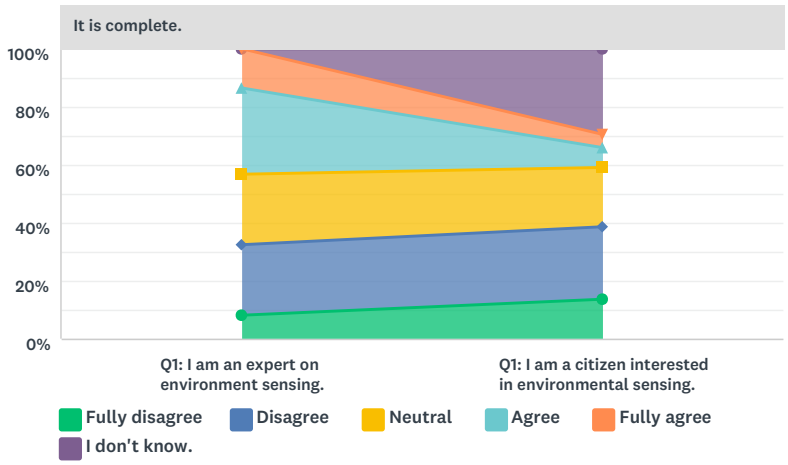

It is real time.
100%
80%
60%
40%
20%
0%
Q1: I am an expert on environment sensing.
Q1: I am a citizen interested in environmental sensing.
Fully disagree
Disagree
Neutral
Agree
Fully agree
I don't know.

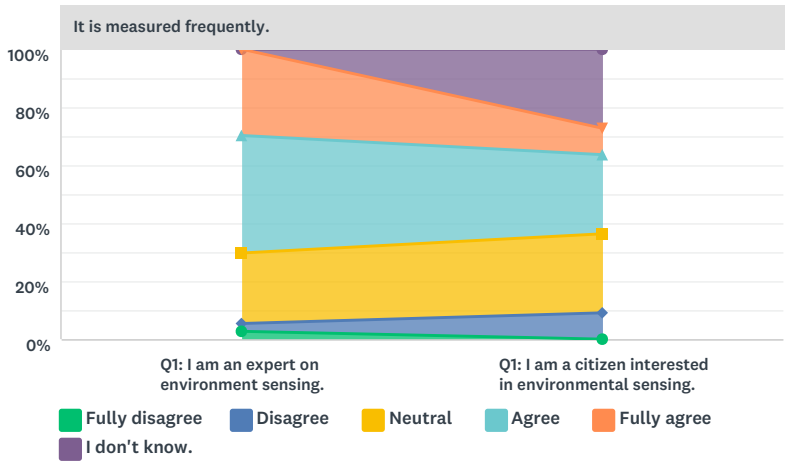

It is sufficient to get environmental information.
100%
80%
60%
40%
20%
0%
Q1: I am an expert on environment sensing.
Q1: I am a citizen interested in environmental sensing.
Fully disagree
Disagree
Neutral
Agree
Fully agree
I don't know.


It is produced by huge monitoring stations.
100%
80%
60%
40%
20%
0%
Q1: I am an expert on environment sensing.
Q1: I am a citizen interested in environmental sensing.
Fully disagree
Disagree
Neutral
Agree
Fully agree
I don't know.









It has sufficient accuracy.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE

Q1: I am an expert on environment sensing.	5% 2	14% 5	5% 2	43% 16	32% 12	0% 0	46% 37	3.84
Q1: I am a citizen interested in environmental sensing.	2% 1	9% 4	9% 4	32% 14	20% 9	27% 12	54% 44	3.81

It is easily accessible.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	3% 1	24% 9	38% 14	32% 12	3% 1	0% 0	46% 37	3.08
Q1: I am a citizen interested in environmental sensing.	5% 2	32% 14	27% 12	14% 6	5% 2	18% 8	54% 44	2.78

It is easy to understand.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	8% 3	22% 8	30% 11	38% 14	3% 1	0% 0	46% 37	3.05
Q1: I am a citizen interested in environmental sensing.	9% 4	18% 8	23% 10	20% 9	5% 2	25% 11	54% 44	2.91

It has sufficient coverage.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	8% 3	43% 16	35% 13	11% 4	3% 1	0% 0	46% 37	2.57
Q1: I am a citizen interested in environmental sensing.	14% 6	36% 16	11% 5	5% 2	5% 2	30% 13	54% 44	2.29

It is real time.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	5% 2	22% 8	30% 11	27% 10	14% 5	3% 1	46% 37	3.22
Q1: I am a citizen interested in environmental sensing.	0% 0	34% 15	18% 8	7% 3	7% 3	34% 15	54% 44	2.79

It is sufficient to get environmental information.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	14% 5	27% 10	43% 16	8% 3	5% 2	3% 1	46% 37	2.64
Q1: I am a citizen interested in environmental sensing.	7% 3	39% 17	18% 8	7% 3	2% 1	27% 12	54% 44	2.44

It is produced by huge monitoring stations.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	5% 2	14% 5	35% 13	24% 9	19% 7	3% 1	46% 37	3.39
Q1: I am a citizen interested in environmental sensing.	5% 2	7% 3	27% 12	23% 10	7% 3	32% 14	54% 44	3.30

It is produced by static monitoring stations.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	5% 2	19% 7	49% 18	24% 9	3% 1	46% 37	3.94
Q1: I am a citizen interested in environmental sensing.	0% 0	2% 1	18% 8	23% 10	18% 8	39% 17	54% 44	3.93

It is consistent.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	3% 1	11% 4	14% 5	38% 14	32% 12	3% 1	46% 37	3.89
Q1: I am a citizen interested in environmental sensing.	2% 1	9% 4	20% 9	27% 12	11% 5	30% 13	54% 44	3.52

It is complete.

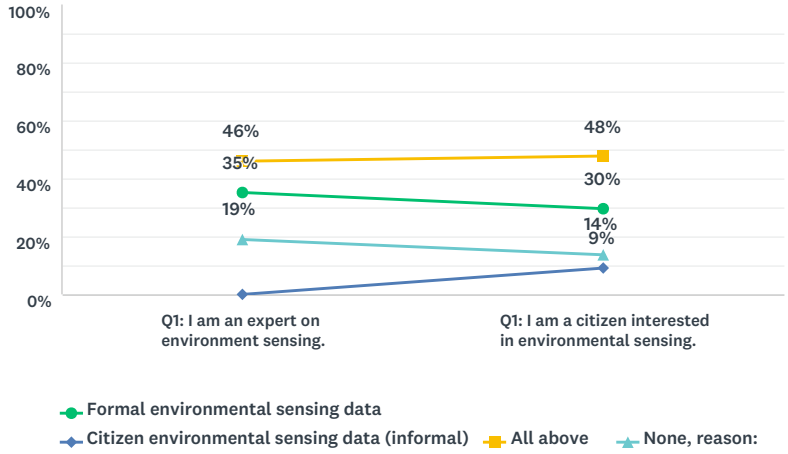
	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	8% 3	24% 9	24% 9	30% 11	14% 5	0% 0	46% 37	3.16
Q1: I am a citizen interested in environmental sensing.	14% 6	25% 11	20% 9	7% 3	5% 2	30% 13	54% 44	2.48

It is measured frequently.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	3% 1	3% 1	24% 9	41% 15	30% 11	0% 0	46% 37	3.92
Q1: I am a citizen interested in environmental sensing.	0% 0	9% 4	27% 12	27% 12	9% 4	27% 12	54% 44	3.50

Q5 Which data do you trust?

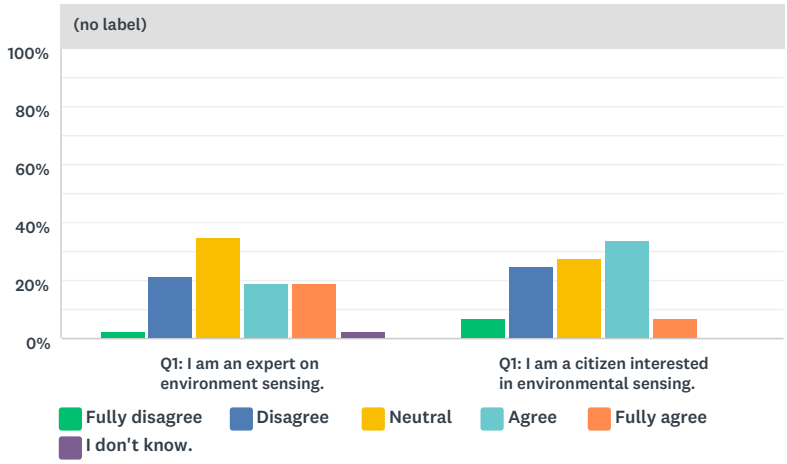
Answered: 81 Skipped: 0



	FORMAL ENVIRONMENTAL SENSING DATA	CITIZEN ENVIRONMENTAL SENSING DATA (INFORMAL)	ALL ABOVE	NONE, REASON:	TOTAL
Q1: I am an expert on environment sensing.	35% 13	0% 0	46% 17	19% 7	46% 37
Q1: I am a citizen interested in environmental sensing.	30% 13	9% 4	48% 21	14% 6	54% 44
Total Respondents	26	4	38	13	81

Q6 Environmental sensor networks should be coordinated by official organizations.

Answered: 81 Skipped: 0

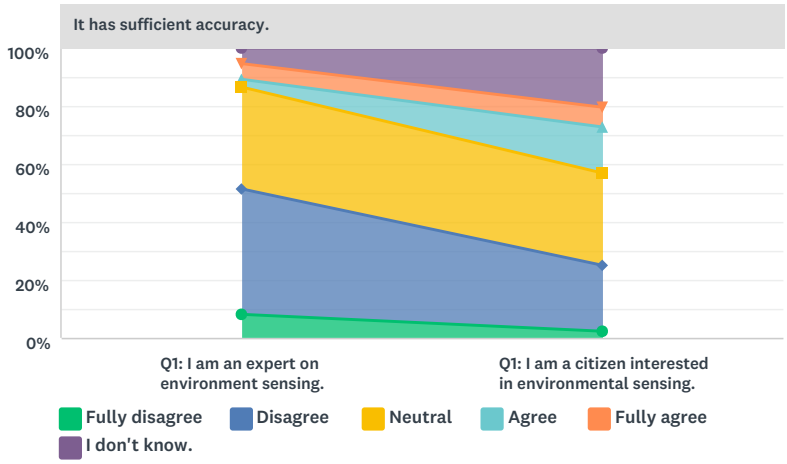


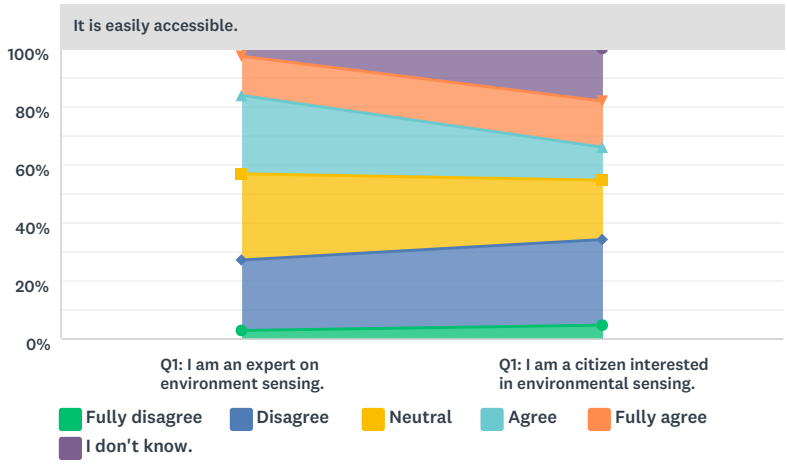
(no label)

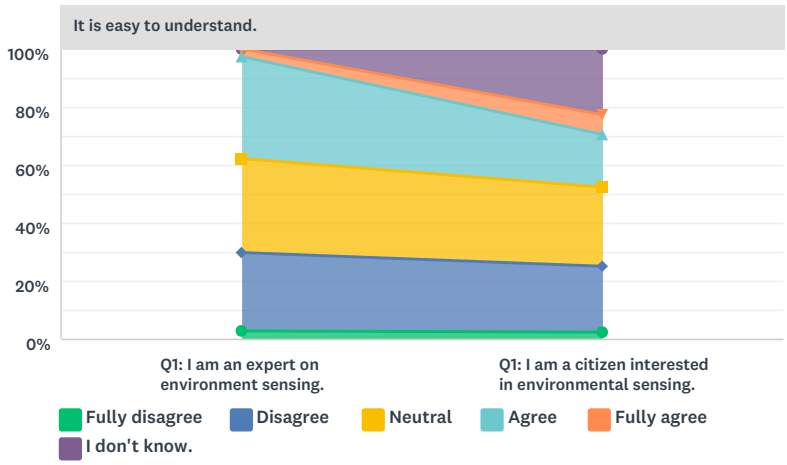
	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	3% 1	22% 8	35% 13	19% 7	19% 7	3% 1	46% 37	3.31
Q1: I am a citizen interested in environmental sensing.	7% 3	25% 11	27% 12	34% 15	7% 3	0% 0	54% 44	3.09

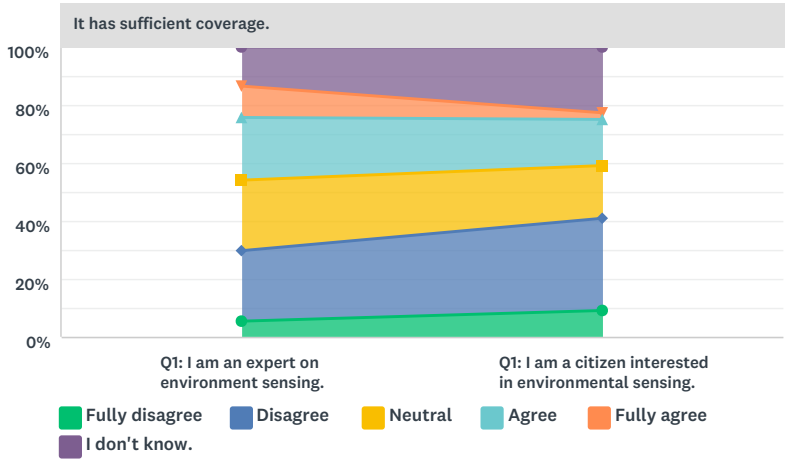
Q7 What do you think about citizen environmental sensing data (informal)?

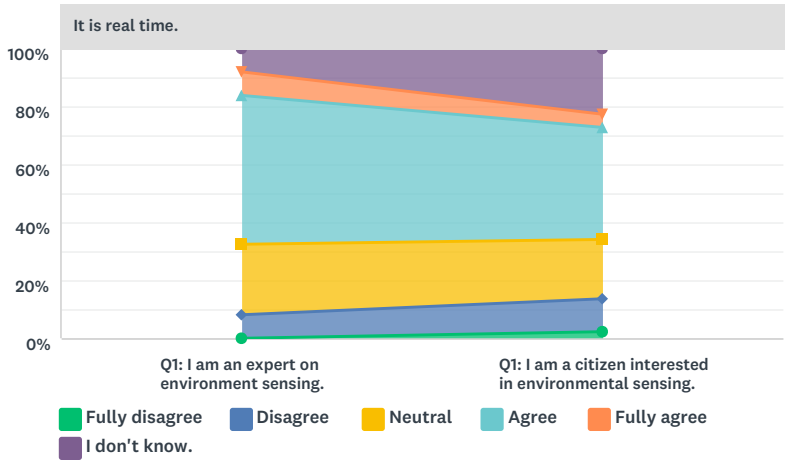
Answered: 81 Skipped: 0

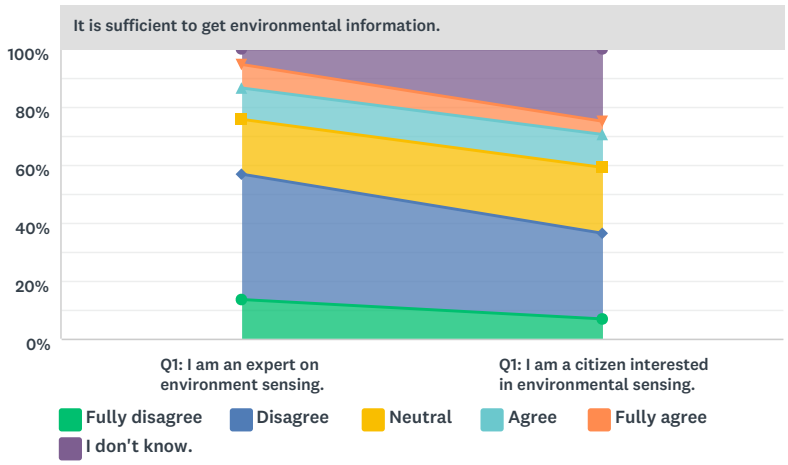


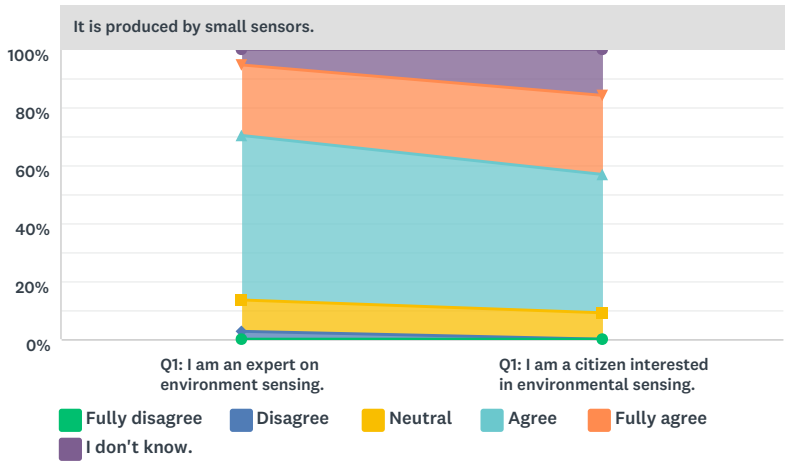


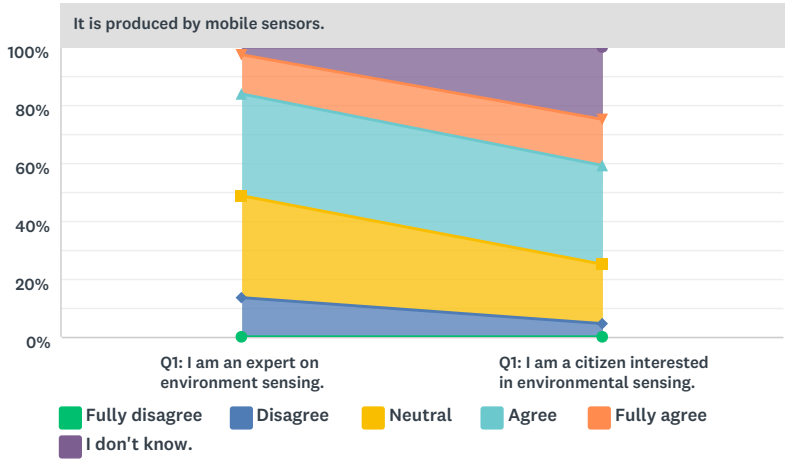


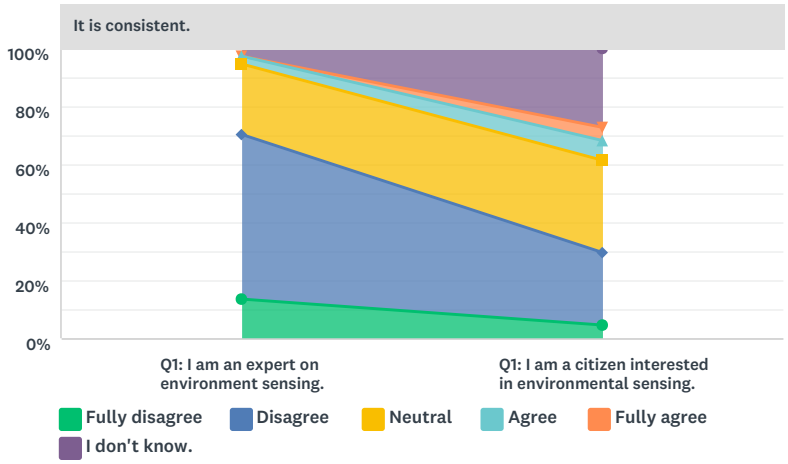

It has sufficient coverage.
100%
80%
60%
40%
20%
0%
Q1: I am an expert on environment sensing.
Q1: I am a citizen interested in environmental sensing.
Fully disagree
Disagree
Neutral
Agree
Fully agree
I don't know.

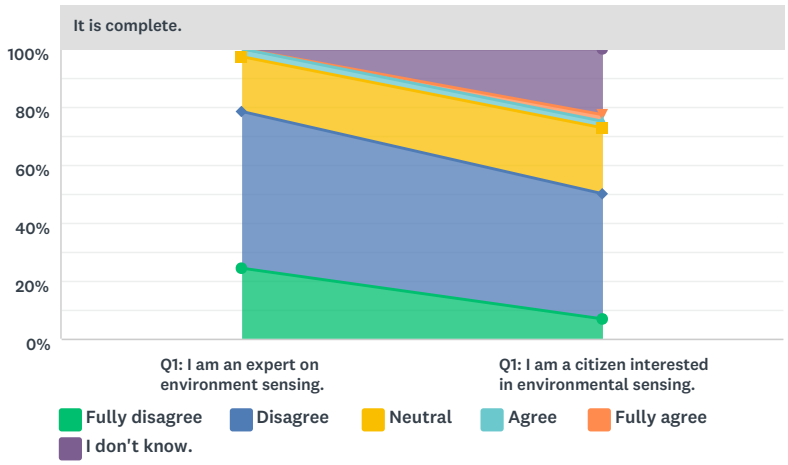

It is real time.
100%
80%
60%
40%
20%
0%
Q1: I am an expert on environment sensing.
Q1: I am a citizen interested in environmental sensing.
Fully disagree
Disagree
Neutral
Agree
Fully agree
I don't know.

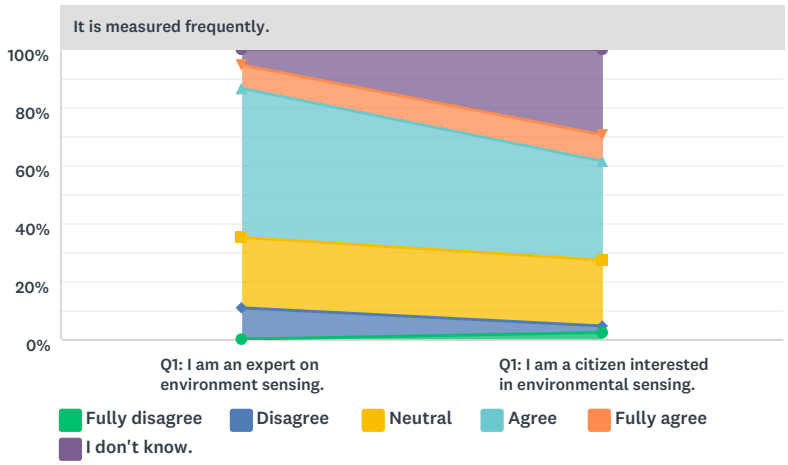

It is sufficient to get environmental information.
100%
80%
60%
40%
20%
0%
Q1: I am an expert on environment sensing.
Q1: I am a citizen interested in environmental sensing.
Fully disagree
Disagree
Neutral
Agree
Fully agree
I don't know.


It is produced by small sensors.
100%
80%
60%
40%
20%
0%
Q1: I am an expert on environment sensing.
Q1: I am a citizen interested in environmental sensing.
Fully disagree
Disagree
Neutral
Agree
Fully agree
I don't know.









It has sufficient accuracy.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE

Q1: I am an expert on environment sensing.	8% 3	43% 16	35% 13	3% 1	5% 2	5% 2	46% 37	2.51
Q1: I am a citizen interested in environmental sensing.	2% 1	23% 10	32% 14	16% 7	7% 3	20% 9	54% 44	3.03

It is easily accessible.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	3% 1	24% 9	30% 11	27% 10	14% 5	3% 1	46% 37	3.25
Q1: I am a citizen interested in environmental sensing.	5% 2	30% 13	20% 9	11% 5	16% 7	18% 8	54% 44	3.06

It is easy to understand.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	3% 1	27% 10	32% 12	35% 13	3% 1	0% 0	46% 37	3.08
Q1: I am a citizen interested in environmental sensing.	2% 1	23% 10	27% 12	18% 8	7% 3	23% 10	54% 44	3.06

It has sufficient coverage.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	5% 2	24% 9	24% 9	22% 8	11% 4	14% 5	46% 37	3.09
Q1: I am a citizen interested in environmental sensing.	9% 4	32% 14	18% 8	16% 7	2% 1	23% 10	54% 44	2.62

It is real time.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	8% 3	24% 9	51% 19	8% 3	8% 3	46% 37	3.65
Q1: I am a citizen interested in environmental sensing.	2% 1	11% 5	20% 9	39% 17	5% 2	23% 10	54% 44	3.41

It is sufficient to get environmental information.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	14% 5	43% 16	19% 7	11% 4	8% 3	5% 2	46% 37	2.54
Q1: I am a citizen interested in environmental sensing.	7% 3	30% 13	23% 10	11% 5	5% 2	25% 11	54% 44	2.70

It is produced by small sensors.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	3% 1	11% 4	57% 21	24% 9	5% 2	46% 37	4.09
Q1: I am a citizen interested in environmental sensing.	0% 0	0% 0	9% 4	48% 21	27% 12	16% 7	54% 44	4.22

It is produced by mobile sensors.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	14% 5	35% 13	35% 13	14% 5	3% 1	46% 37	3.50
Q1: I am a citizen interested in environmental sensing.	0% 0	5% 2	20% 9	34% 15	16% 7	25% 11	54% 44	3.82

It is consistent.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	14% 5	57% 21	24% 9	3% 1	0% 0	3% 1	46% 37	2.17
Q1: I am a citizen interested in environmental sensing.	5% 2	25% 11	32% 14	7% 3	5% 2	27% 12	54% 44	2.75

It is complete.

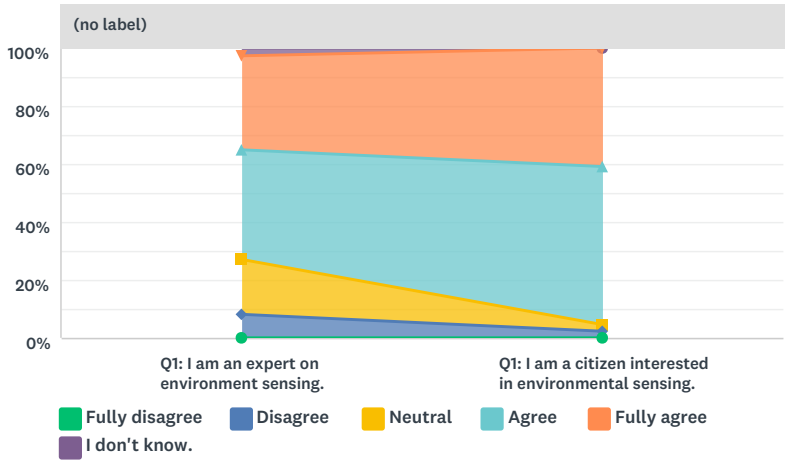
	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	24% 9	54% 20	19% 7	3% 1	0% 0	0% 0	46% 37	2.00
Q1: I am a citizen interested in environmental sensing.	7% 3	43% 19	23% 10	2% 1	2% 1	23% 10	54% 44	2.35

It is measured frequently.

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	11% 4	24% 9	51% 19	8% 3	5% 2	46% 37	3.60
Q1: I am a citizen interested in environmental sensing.	2% 1	2% 1	23% 10	34% 15	9% 4	30% 13	54% 44	3.65

Q8 It is important that citizens collect environmental data by themselves.

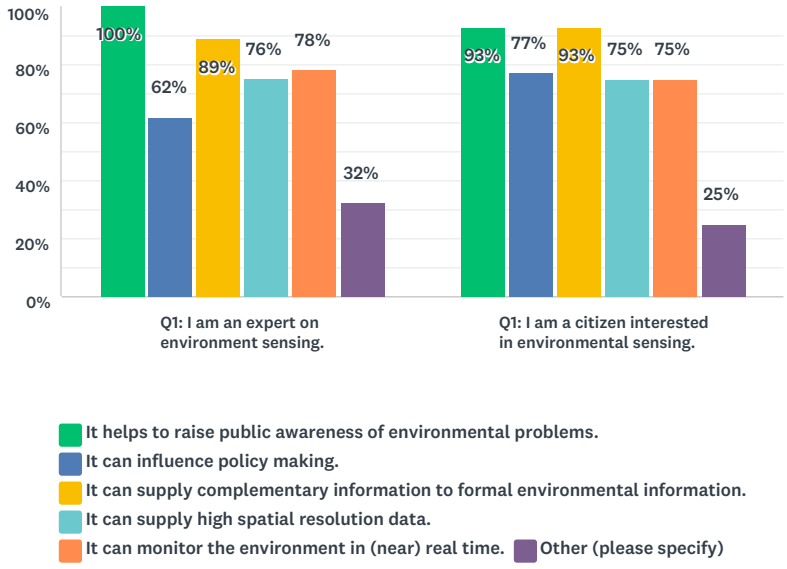
Answered: 81 Skipped: 0



(no label)	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	8% 3	19% 7	38% 14	32% 12	3% 1	46% 37	3.97
Q1: I am a citizen interested in environmental sensing.	0% 0	2% 1	2% 1	55% 24	41% 18	0% 0	54% 44	4.34

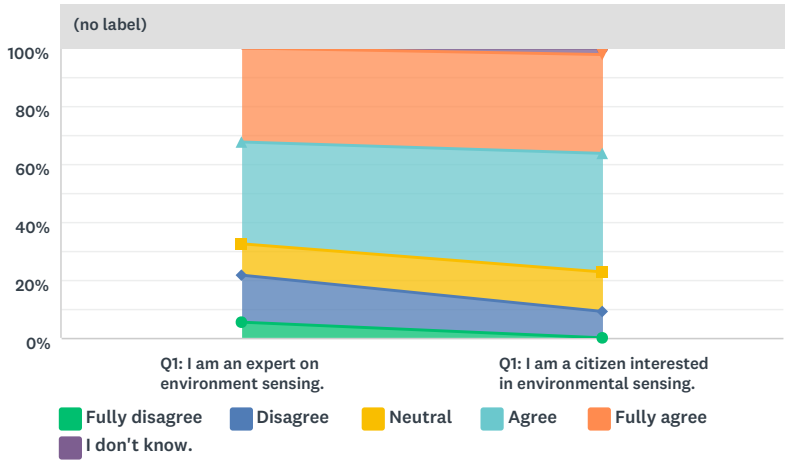
Q9 What is the value of environmental sensor data provided by citizens (informal)? (Tick one or more boxes)

Answered: 81 Skipped: 0



Q10 Citizen sensing offers an alternative way to collect environmental data.

Answered: 81 Skipped: 0

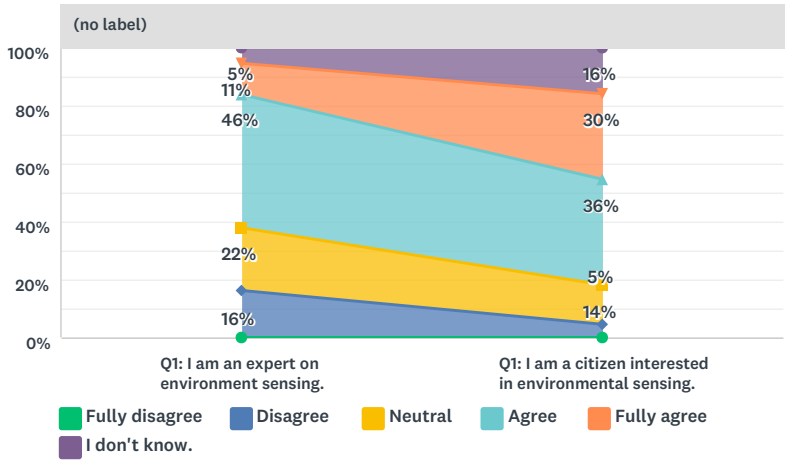


(no label)

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	5% 2	16% 6	11% 4	35% 13	32% 12	0% 0	46% 37	3.73
Q1: I am a citizen interested in environmental sensing.	0% 0	9% 4	14% 6	41% 18	34% 15	2% 1	54% 44	4.02

Q11 Citizen sensing data are underestimated because of lower trustworthiness compared to official data.

Answered: 81 Skipped: 0

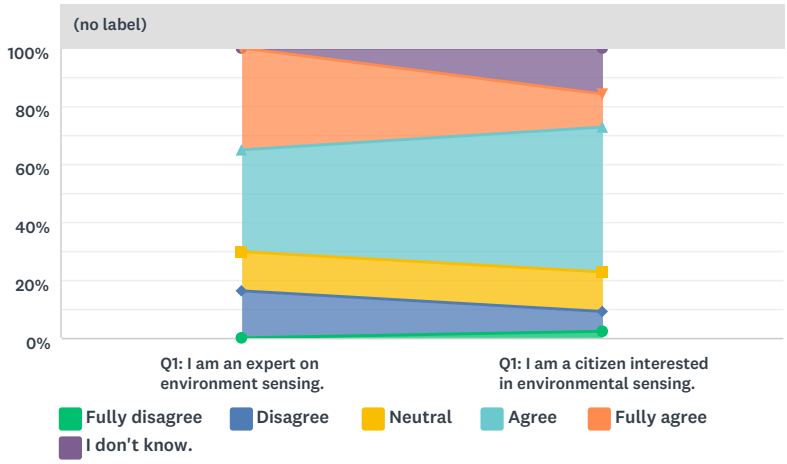


(no label)

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	16% 6	22% 8	46% 17	11% 4	5% 2	46% 37	3.54
Q1: I am a citizen interested in environmental sensing.	0% 0	5% 2	14% 6	36% 16	30% 13	16% 7	54% 44	4.08

Q12 It is difficult for citizens to calibrate low cost sensors.

Answered: 81 Skipped: 0

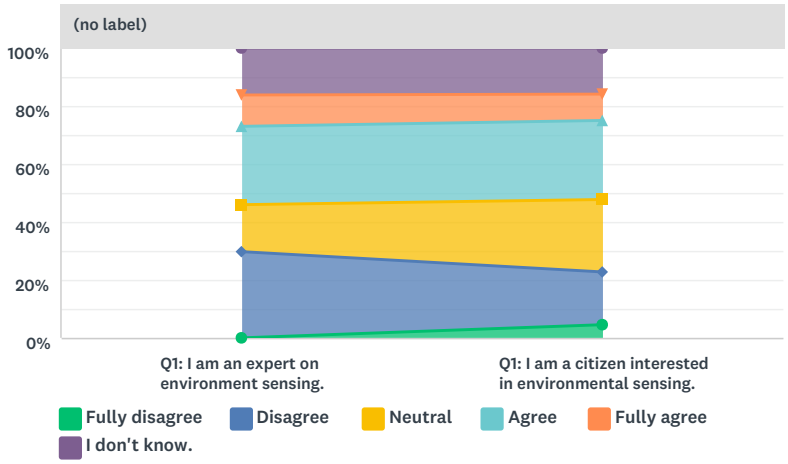


(no label)

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	16% 6	14% 5	35% 13	35% 13	0% 0	46% 37	3.89
Q1: I am a citizen interested in environmental sensing.	2% 1	7% 3	14% 6	50% 22	11% 5	16% 7	54% 44	3.73

Q13 It is difficult for citizens to maintain low cost sensors.

Answered: 81 Skipped: 0

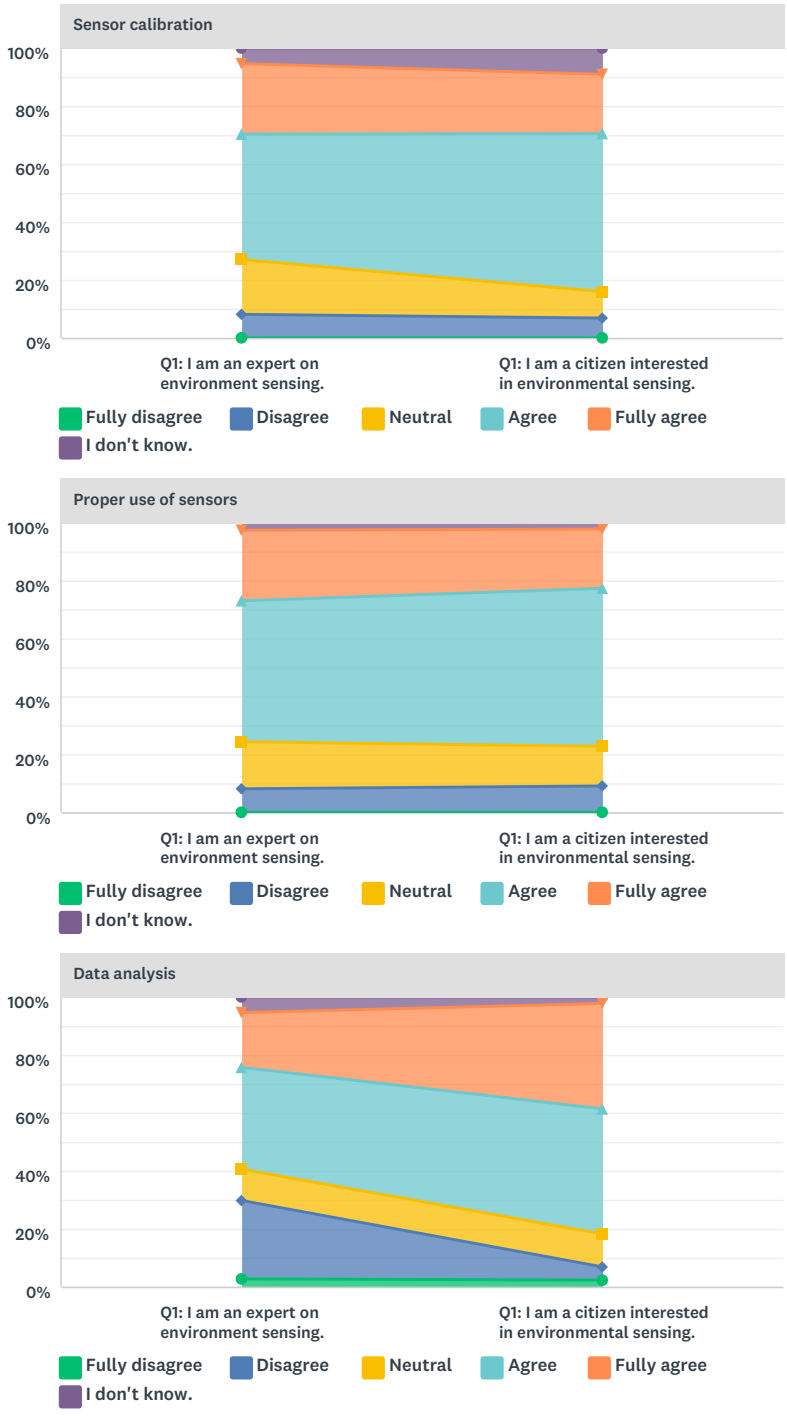


(no label)

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	30% 11	16% 6	27% 10	11% 4	16% 6	46% 37	3.23
Q1: I am a citizen interested in environmental sensing.	5% 2	18% 8	25% 11	27% 12	9% 4	16% 7	54% 44	3.22

Q14 Citizens need training or support from experts in following aspects.

Answered: 81 Skipped: 0



Sensor calibration								
	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	8% 3	19% 7	43% 16	24% 9	5% 2	46% 37	3.89
Q1: I am a citizen interested in environmental sensing.	0% 0	7% 3	9% 4	55% 24	20% 9	9% 4	54% 44	3.98

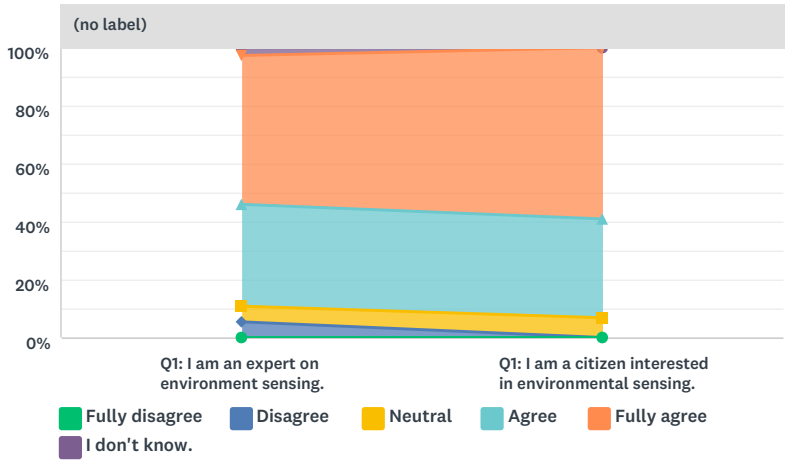
Proper use of sensors								
	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	8% 3	16% 6	49% 18	24% 9	3% 1	46% 37	3.92
Q1: I am a citizen interested in environmental sensing.	0% 0	9% 4	14% 6	55% 24	20% 9	2% 1	54% 44	3.88

Data analysis

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	3% 1	27% 10	11% 4	35% 13	19% 7	5% 2	46% 37	3.43
Q1: I am a citizen interested in environmental sensing.	2% 1	5% 2	11% 5	43% 19	36% 16	2% 1	54% 44	4.09

Q15 Do you think the citizen sensing data can contribute to better understanding of our environment.

Answered: 81 Skipped: 0

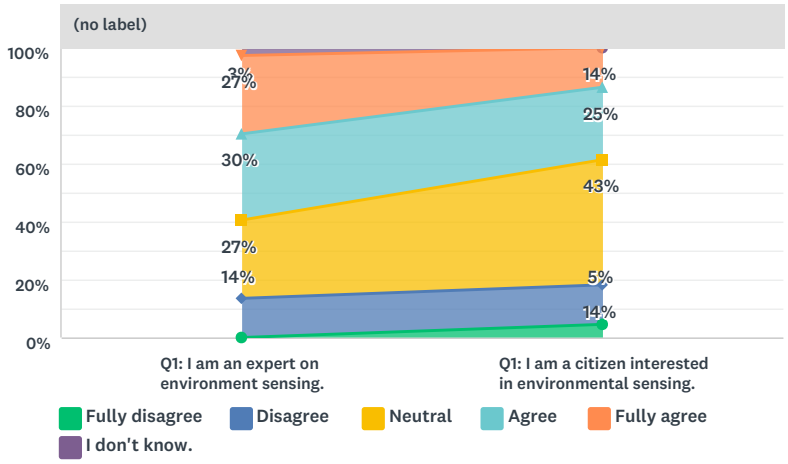


(no label)

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	5% 2	5% 2	35% 13	51% 19	3% 1	46% 37	4.36
Q1: I am a citizen interested in environmental sensing.	0% 0	0% 0	7% 3	34% 15	59% 26	0% 0	54% 44	4.52

Q16 Citizen sensing data need to be analysed by experts to derive meaningful environmental information.

Answered: 81 Skipped: 0

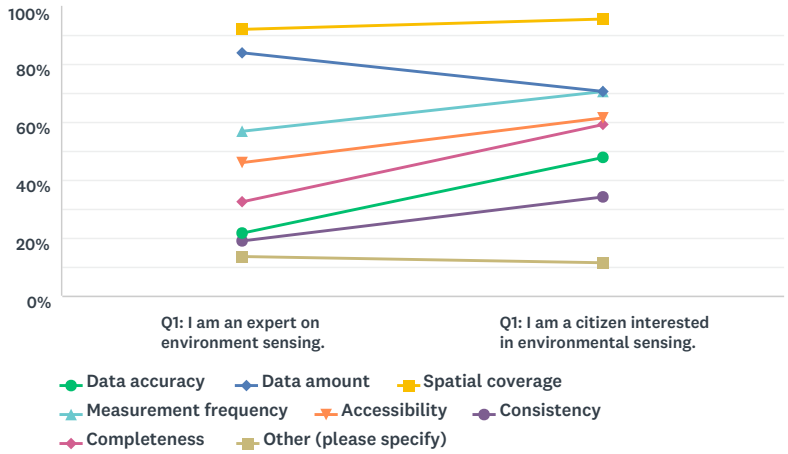


(no label)

	FULLY DISAGREE	DISAGREE	NEUTRAL	AGREE	FULLY AGREE	I DON'T KNOW.	TOTAL	WEIGHTED AVERAGE
Q1: I am an expert on environment sensing.	0% 0	14% 5	27% 10	30% 11	27% 10	3% 1	46% 37	3.72
Q1: I am a citizen interested in environmental sensing.	5% 2	14% 6	43% 19	25% 11	14% 6	0% 0	54% 44	3.30

Q17 For which aspect(s) do you think citizen sensing data (informal) could complement formal data? (Tick one or more boxes)

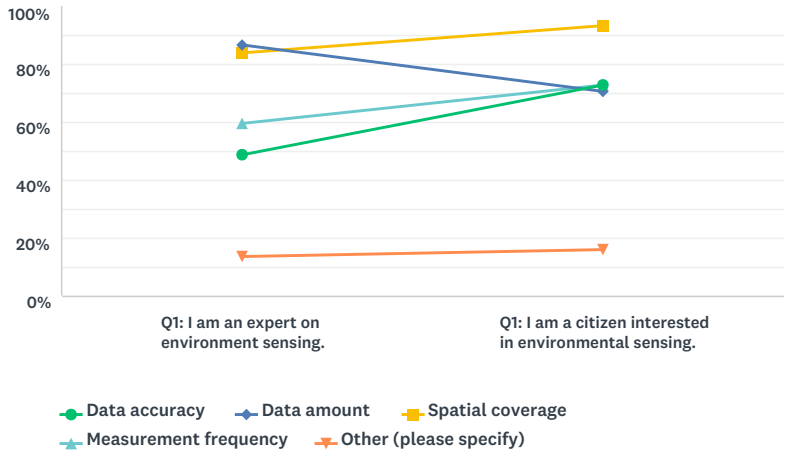
Answered: 81 Skipped: 0



	DATA ACCURACY	DATA AMOUNT	SPATIAL COVERAGE	MEASUREMENT FREQUENCY	ACCESSIBILITY	CONSISTENCY	COMPLETENESS	OTHER (PLEASE SPECIFY)	TOTAL
Q1: I am an expert on environment sensing.	22% 8	84% 31	92% 34	57% 21	46% 17	19% 7	32% 12	14% 5	167% 135
Q1: I am a citizen interested in environmental sensing.	48% 21	70% 31	95% 42	70% 31	61% 27	34% 15	59% 26	11% 5	244% 198
Total Respondents	29	62	76	52	44	22	38	10	81

Q18 Integration of citizen sensing data (informal) with formal data can improve data in the following aspects. (Tick one or more boxes)

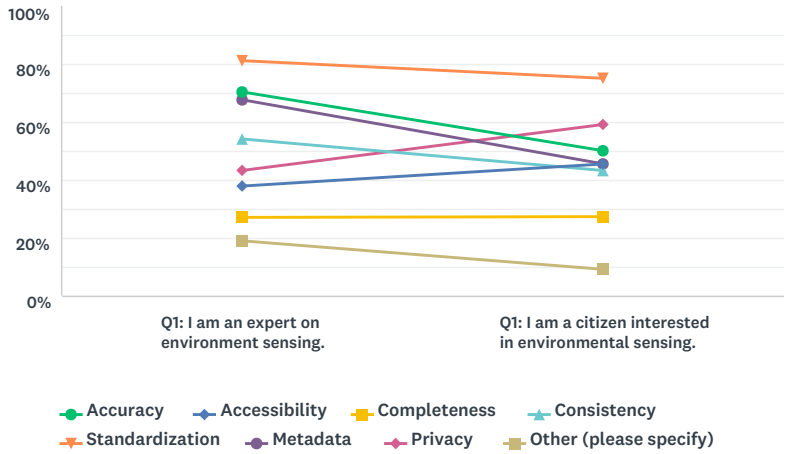
Answered: 81 Skipped: 0



	DATA ACCURACY	DATA AMOUNT	SPATIAL COVERAGE	MEASUREMENT FREQUENCY	OTHER (PLEASE SPECIFY)	TOTAL
Q1: I am an expert on environment sensing.	49% 18	86% 32	84% 31	59% 22	14% 5	133% 108
Q1: I am a citizen interested in environmental sensing.	73% 32	70% 31	93% 41	73% 32	16% 7	177% 143
Total Respondents	50	63	72	54	12	81

Q19 The following aspects hinder the integration of citizen sensing data (informal) and formal environmental sensing data. (Tick one or more boxes)

Answered: 81 Skipped: 0



	ACCURACY	ACCESSIBILITY	COMPLETENESS	CONSISTENCY	STANDARDIZATION	METADATA	PRIVACY	OTHER (PLEASE SPECIFY)	TOTAL
Q1: I am an expert on environment sensing.	70% 26	38% 14	27% 10	54% 20	81% 30	68% 25	43% 16	19% 7	183% 148
Q1: I am a citizen interested in environmental sensing.	50% 22	45% 20	27% 12	43% 19	75% 33	45% 20	59% 26	9% 4	193% 156
Total Respondents	48	34	22	39	63	45	42	11	81

Q20 If you have additional comments, please let us know:

Answered: 17 Skipped: 64

	IF YOU HAVE ADDITIONAL COMMENTS, PLEASE LET US KNOW:		TOTAL
Q1: I am an expert on environment sensing.		100.00% 9	52.94% 9
Q1: I am a citizen interested in environmental sensing.		100.00% 8	47.06% 8
Total Respondents	17		17

Q21 If you want to be informed about the results of this survey, please enter your name and email address.

Answered: 56 Skipped: 25

	FULL NAME	EMAIL ADDRESS	TOTAL
Q1: I am an expert on environment sensing.	96.30% 26	100.00% 27	94.64% 53
Q1: I am a citizen interested in environmental sensing.	100.00% 29	100.00% 29	103.57% 58
Total Respondents	55	56	56