

Older adults' perceptions of ICT-based surveillance: The Ageing in Data (AiD) cross-national study

A Descriptive Report by Galit Nimrod

BACKGROUND

Surveillance society refers to a socio-political environment characterized by pervasive and systematic monitoring of individuals through advanced technological means, encompassing both physical and digital realms. This phenomenon entails the extensive collection, analysis, and utilization of personal data for various purposes, including social control, security, and commercial interests.

Contrary to the perception that older populations may be less affected due to a presumed less use of Information and Communication Technology (ICT), they are also subject to the implications of surveillance as advancements in ubiquitous technologies increasingly permeate all demographic strata, raising concerns related to privacy, autonomy, and societal consequences for older adults.

Most previous research on older adults and surveillance focused on monitoring devices used at individuals' homes and eldercare facilities and ignored their use of ICT. Moreover, studies on individuals' perceptions of ICT-based surveillance ignored older ICT users. In addition, most previous explorations applied qualitative methods.

The Ageing in Data (AiD) study is the first quantitative study to explore older adults' perceptions of ICT-based surveillance in a multi-national context.

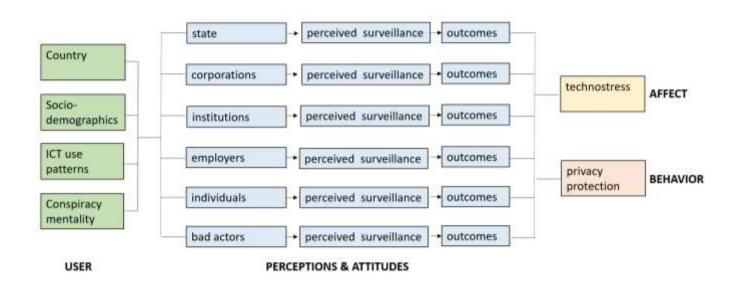
Applying Marciano's (2019) theoretical framework that distinguishes between surveillance agents, subjects, and contexts, the study aimed at answering the following questions:

- 1. To what extent do older people feel they are being followed while using ICT?
- 2. Who, in their opinion, is following them?
- 3. How do they perceive the outcomes of surveillance?
- 4. To what extent are their perceptions associated with experiencing technostress (a common result of ICT use)?
- 5. To what extent are their perceptions associated with privacy protection behavior?

THE RESEARCH MODEL

Consistent with the study's questions, the research model included four parts:

- 1. USER The older ICT users' country, socio-demographics, ICT use patterns, and conspirator mentality (a tendency to interpret events through a conspiratorial lens).
- 2. PERCEPTIONS AND ATTITUDES The extent to which older ICT users feel they are being surveilled by various agents (state, corporations, institutions, employers, individuals, and bad actors/criminals) and the perceived outcomes (positive-negative) of each such ICT-based surveillance.
- 3. AFFECT The extent to which older ICT users feel technostress.
- 4. BEHAVIOR Privacy protection acts applied by older ICT users.



METHODS

The study was based on online surveys with ICT users aged 60 and over from six countries (Austria, Canada, Israel, Romania, Spain, and The Netherlands). Data were collected between November 23 and December 20, 2023, by a commercial firm that operates online panels in all countries. With a little over 500 participants per country, the final sample consisted of 3,030 participants. To reach this sample size, the firm contacted 5,734 individuals. The firm reached out to study participants via email, and quotas were instituted to ensure that half of the sample in each country is 70 years old and over. The survey websites were closed once quotas were filled.

The questionnaire (see Appendix A) included mainly closed-ended questions based on existing scales exploring the following topics:

- 1. ICT use devices, frequency, purpose
- 2. Perceived surveillance (Segijn et al., 2020)
- 3. Perceived agents state, corporations, institutions, employers, individuals, bad actors (Marciano, 2019)
- 4. Attitudes re surveillance outcomes positive & negative (Zhang et al., 2022)
- 5. Technostress (Nimrod, 2018)
- 6. Online privacy behavior (Buchanan et al., 2007; Rainie et al., 2013)
- 7. Conspiracy mentality (Bruder et al., 2013)
- 8. Socio-demographics

The questionnaire was written in English, and translations into the various languages were performed by the research team. To validate the translations, native English-speaking persons re-translated them into English. This process was repeated until the re-translations were identical to the original English version. The questionnaire was tested and validated in Israel by running a test-retest procedure with 50 respondents in a two-week interval. Then, pilot studies in each country were carried out to ensure understandability.

An informed consent form was presented to the study participants on the first page of the survey. The Institutional Review Boards (IRBs) at Ben-Gurion University of the Negev reviewed and approved the study (approval #589).

THE RESEARCH TEAM*

Austria - Vera Gallistl, Unmil Karadkar

Canada - Constance Lafontaine, Francis Léveillé, Naj Mahani, Catherine Middleton, Kim Sawchuk

Israel - Avi Marciano, Galit Nimrod, Dennis Rosenberg

Romania - Loredana Ivan

Spain - Mireia Fernández-Ardèvol, Joel Peiruza Parga, Sara Suárez Gonzalo

The Netherlands - Alexander Peine

AGEING in DATA (AiD)

Aging in Data (AiD) is a research project housed in the ACT Lab at Concordia University in Montreal and funded by the Social Sciences and Humanities Research Council (SSHRC), Canada. It brings together an interdisciplinary network of scholars from ten countries, community-based activists, and organizations. We research how age studies intersect with communications, media studies, and critical data studies, and explore how an era of unprecedented digital data-gathering impacts and governs how we grow old in our communities. Our shared commitment to social justice brings us to articulate an impactful, innovative, multi-methodological, and collaborative agenda with communities of older adults that respond to pressing societal needs.

^{*} For information about this report, please contact Galit Nimrod, Ben-Gurion University of the Negev, gnimrod@bgu.ac.il

Preliminary findings

This report only presents descriptive findings according to the research model:

- 1. Users
- 2. Perceptions and Attitudes
- 3. Affect
- 4. Behavior

1. USERS

Study participants were evenly split between the six countries (Table 1.1). Participants' ages ranged between 60 and 99 (Mean=68.15, SD=5.80), 57.3% were men, 61.8% had post-secondary education, 70.3% were retired, 35.8% reported average income, and 31.5% reported higher income. Most participants lived with a partner (65.6%) and had children (81.1%) and grandchildren (62.3%). Forty-six percent lived in a big city or the suburb of a big city, and the majority (88.7%) were non-immigrants (for more information, see Table 1.2).

Study participants reported internet use was pretty diverse (Table 1.3). Light users (up to 14 hours a week) comprised 40.8% of the sample, heavy users (more than 28 hours) accounted for 19.9%, and the rest used the internet for 15-28 hours weekly. Most participants used more than one device to access the internet (Mean=2.59, SD=1.08), with the most common devices being smartphones (84.6%) and laptop computers (63.7%). The most frequent uses (Table 1.4) were one-on-one communication (Mean=3.87, SD=0.98) and information seeking (Mean=3.81, SD=0.92). The least common use was recreational (Mean=3.03, SD=1.19).

Lastly, the rate of agreement ("agree" + "strongly agree") with the various items measuring conspiracy mentality ranged from 39.7% to 76.8%, and the mean score was 3.58 (SD=0.74). See Table 1.5.

Table 1.1 *Country of residence*

Country	N	%
	n	//0
	3030	
Austria	505	16.7
Canada ¹	506	16.7
srael	506	16.7
Romania	503	16.6
Spain	505	16.7
Γhe Netherlands	505	16.7

Note. ¹Of the Canadian sample, 253 completed the English survey, and 253 completed the French version.

Table 1.2 Socio-demographics

Variable	N	0/ M (CD)
Categories	n	% or Mean (SD)
Gender	3030	
Man	1737	57.3
Woman	1290	42.6
Other	3	0.1
Age (range = $60-99$)	3030	68.15 (5.80)
Education	3030	
Elementary school (<12 years)	323	10.7
High school (12 years)	834	27.5
Technical/Certificate (13-14 years)	735	24.3
Bachelor's degree (about 15 years)	711	23.5
Master's degree (16-17 years)	354	11.7
Doctoral degree (18 years or more)	73	2.4
Household income	3030	
A lot below average	328	10.8
Slightly below average	541	17.9
Similar to the average	1085	35.8
Slightly above average	760	25.1
A lot above average	195	6.4
Don't know	121	4.0
Occupational status ¹		
Retired	2130	70.3
Paid employee	569	18.8

Self-employed	180	5.9
Unemployed	108	3.6
Other	90	3.0
Living arrangement ¹		
With a partner	1989	65.6
By oneself/alone	765	25.2
With a family member	338	11,2
Other	36	1.2
Residence area	3030	
Big city	1010	33.3
Suburb of a big city	382	12.6
Medium-sized city	687	22.7
Small-sized city	564	18.6
Rural	387	12.8
Country of birth	3030	
Same as now	2687	88.7
Other	343	11.3
Children	3027	
Yes	2455	81.1
No	572	18.9
Grandchildren	3028	
Yes	1885	62.3
No	1143	37.7
Health status ² (1-5)	3030	2.98 (0.91)

Note. ¹Multiple choice item. ²Higher values represent poorer status.

Table 1.3
Internet use patterns

N	9/ or M (SD)
n	% or <i>M</i> (<i>SD</i>)
3021	
505	16.7
731	24.2
701	23.2
480	15.9
604	20.0
2564	84.6
1510	49.8
1929	63.7
1274	42.0
577	19.0
3027	2.59 (1.08)
	3021 505 731 701 480 604 2564 1510 1929 1274 577

Note. ¹Multiple choice item.

Table 1.4 *Purpose of internet use*

	Interpe one-o		gr	ersonal oup inication	Inforn seek		Partion task	s or	Leis activ	
	N n	%	N n	%	N n	%	N n	%	N n	%
Total	3016		2999		2998		2981		3012	
Never	128	4.2	495	16.5	86	2.9	158	5.3	428	14.2
Seldom	152	5.0	389	13.0	168	5.6	252	8.5	543	18.0
Sometimes	447	14.8	579	19.3	584	19.5	917	30.8	838	27.8
Often	1536	50.9	1036	34.5	1538	51.3	1403	47.1	931	30.9
Always	753	25.0	500	16.7	622	20.7	251	8.4	272	9.0
Mean (SD)	3.87 ((0.98)	3.22	(1.32)	3.81 ((0.92)	3.45 (0.95)	3.03 ((1.19)

Table 1.5 *Conspiracy mentality*

	N	%
	n	/0
Many very important things happen in the world, which the public is never informed about	3011	
Strongly disagree	65	2.2
Disagree	164	5.4
Neither agree nor disagree	524	17.4
Agree	1544	51.3
Strongly agree	714	23.7
Mean (SD)	3.89	(0.90)
Politicians usually do not tell us the true motives for their decisions	3017	
Strongly disagree	49	1.6
Disagree	152	5.0
Neither agree nor disagree	494	16.4
Agree	1543	51,1
Strongly agree	779	25.8
Mean (SD)	3.94	(0.88)
Government agencies closely monitor all citizens	3011	
Strongly disagree	175	5.8
Disagree	544	18.1
Neither agree nor disagree	1096	36.4
Agree	965	32.0
Strongly agree	231	7.7
Mean (SD)	3.18	(1.00)
Events which superficially seem to lack a connection are often the result of secret activities	3017	
Strongly disagree	140	4.6
Disagree	340	11.3
Neither agree nor disagree	1193	39.5
Agree	1076	35.7
Strongly agree	268	8.9

Mean (SD)	3.33 (0.95)
There are secret organizations that greatly influence political decisions	3017
Strongly disagree	151 5.0
Disagree	289 9.6
Neither agree nor disagree	816 27.0
Agree	1277 42.3
Strongly agree	484 16.0
Mean (SD)	3.55 (1.03)
Mean conspiracy mentality score (average of the 5 items, N=2965)	3.58 (0.74)
Scale reliability (<i>Cronbach's Alpha</i>)	0.843

2. PERCEPTIONS AND ATTITUDES

The extent to which study participants felt they were being surveilled varied according to the agents (Table 2.1). The agents believed to be most dominant were commercial corporations and companies (Mean=3.50, SD=0.99) and bad actors or criminals (Mean=3.35, SD=1.06), followed by government agencies and state or local authorities (Mean=3.09, SD=1.09) and social institutions such as nonprofit organizations, religious institutions, political movements, and social clubs (Mean=2.75, SD=1.09). The sense of being surveilled among employees was relatively low (Mean=2.32, SD=1.19), and the feeling of being surveilled by individuals such as family and friends was lowest (Mean=2.04, SD=1.02).

Among those who "somewhat" or "strongly" believed they were surveilled, the attitudes regarding the surveillance influence were more negative than positive (Table 2.2). Naturally, the most negatively perceived agents were bad actors and criminals, as 87.6% thought their surveillance impact was more negative than positive. The rate of those who perceived more negative than positive impact was similar for state and social institutions (59.4% and 62.8%, respectively) and somewhat lower for corporations and companies (52.5%). It was lower for employers (43.6%) and lowest for family and friends (32.0%).

Table 2.1 Surveillance peception

	and	nercial rations l/or ranies	age and s lo	rnment ncies tate or ocal orities	Socinstitu	cial utions		idual ple	Emp	loyer	Bad a	
	N n	%	N n	%	N n	%	N n	%	N n	%	N n	%
Watching every move	3028		3019		3017		3012		567		3023	
Strongly disbelieve	173	5.7	299	9.9	477	15.8	1226	40.7	202	35.6	230	7.6
Somewhat disbelieve	288	9.5	639	21.2	772	25.6	813	27.0	141	24.9	423	14.0
Neither believe nor disbelieve	594	19.6	791	26.2	883	29.3	574	19.1	103	18.2	776	25.7
Somewhat believe	1261	41.6	949	31.4	689	22.8	329	10.9	86	15.2	1119	<i>37.0</i>
Strongly believe	712	23.5	341	11.3	196	6.5	70	2.3	35	6.2	475	15.7
Mean (SD)	3.68 ((1.11)	3.13	(1.17)	2.79 ((1.15)	2.07 ((1.11)	2.31	(1.27)	3.39 ((1.14)

Check up on you	3008		3011		2994		3007		566		3015	
Strongly disbelieve	186	6.2	299	9.9	501	16.7	1266	42.1	185	32.7	231	7.7
Somewhat disbelieve	367	12.2	636	21.1	790	26.4	769	25.6	127	22.4	463	15.4
Neither believe nor disbelieve	742	24.7	767	25,5	875	29,2	579	19.3	99	17.5	836	27.7
Somewhat believe	1177	<i>39.1</i>	987	32.8	647	21,6	332	11.0	118	20.8	1049	34.8
Strongly believe	536	17.8	322	10.7	181	6,0	61	2.0	37	6.5	436	14.5
Mean (SD)	3.50	(1.12)	3.13	(1.16)	2.74	(1.15)	2.05	(1.11)	2.46	(1.31)	3.33 ((1.13)
Look over the shoulder	3004		3011		3000		3006		567		3014	
Strongly disbelieve	202	6.7	334	11.1	499	16.6	1252	41.7	201	35.4	240	8.0
Somewhat disbelieve	365	12.2	675	22.4	804	26.8	807	26.8	127	22.4	452	<i>15.0</i>
Neither believe nor disbelieve	693	23.1	816	27.1	904	<i>30.1</i>	607	20.2	118	20.8	818	27.1
Somewhat believe	1184	39.4	889	29.5	621	20.7	287	9.5	88	15.5	1076	35.7
Strongly believe	560	18.6	297	9.9	172	5.7	53	1.8	33	5.8	428	14.2
Mean (SD)	3.51	(1.13)	3.05	(1.16)	2.74	(1.15)	2.03	(1.08)	2.34	(1.26)	3.33 ((1.13)
Enter your private space	3016		3002		3012		2996		563		3002	
Strongly disbelieve	232	7.7	330	11.0	1226	40,7	1286	42.9	226	40.1	215	7.2
Somewhat disbelieve	482	16.0	694	23.1	813	27,0	799	26.7	130	23.1	461	15.4
Neither believe nor disbelieve	862	28.6	815	27.1	574	19,1	573	19.1	116	20.6	798	26.6
Somewhat believe	1033	34.3	843	28.1	329	10.9	279	9.3	68	12.1	1064	35.4
Strongly believe	407	13.5	320	10.7	70	2.3	59	2.0	23	4.1	464	15.5
Mean (SD)	3.30	(1.12)	3.04	(1.17)	3.72	(1.14)	2.01	(1.08)	2.17	(1.20)	3.37 ((1.13)
Mean score (SD) (average of the 4 items)	3.50	(0.99)	3.09	(1.09)	2.75	(1.09)	2.04	(1.02)	2.32	(1.19)	3.35 ((1.06)
Scale reliability (Cronbach's Alpha)	0.9	006	0.9	953	0.9	964	0.9	954	0.9	961	0.9	56
N	29	69	29	964	29	956	29	77	50	50	29	86

Table 2.2Surveillance influence

	corpo an	mercial orations d/or panies	age and s lo	rnment ncies state or ocal orities	Soc institu		Indiv peo		Emp	loyer	Bad ac crimi	
	N	%	N	%	N	%	N	%	N	%	N	%
	n	, 0	n	, 0	n		n	, 0	n	, 0	n	, , ,
	2304		1581		1094		584		179		1853	
Much more positive than negative	21	0.9	23	1.5	10	0,9	42	7.2	5	2.8	12	0.6
More positive than negative	113	4.9	69	4.4	54	4.9	104	17.8	18	10.1	20	1.1
Equally positive or negative	832	36.1	462	29.2	282	25.8	216	<i>37.0</i>	66	36.9	122	6.6
More negative than positive	755	32.8	527	33.3	362	33.1	115	19.7	48	26.8	430	23.2
Much more negative than positive	454	19.7	414	26.1	325	29.7	72	12.3	30	16.8	1193	64.4
Don't know	129	5.6	86	5.4	61	5.6	35	6.0	12	6.7	76	4.1

3. AFFECT

The sample's overall technostress score ranged between 5.33 and 25.00, and the mean score was 15.32 (SD=2.91).

The most significant antecedents to technostress were *Privacy* – a sense that one's personal information is threatened because ICT use can be traced, documented, and exploited by external factors (Mean=3.49, SD=0.79) and *Inclusion* – a sense of inferiority compared with younger users and consequent pressure to make an effort to be included in the contemporary technological environment (Mean=3.27, SD=0.79). These stressors were followed by *Invasion* – the incursion into daily life because of blurred boundaries between public and personal contexts (Mean=3.01, SD=0.84) and *Complexity* – intricacy and constant change rendering ICT use conditions difficult to learn, use, and master (Mean=2.96, SD=0.90). The least prominent stressor was *Overload* – having to cope with more problems than warranted and eventually performing tasks more slowly (Mean=2.60, SD=0.69).

For more information, see Tables 3.1 and 3.2.

Table 3.1 *Technostress items – frequencies*

	N	
	n	%
Technologies make me do things slower	3019	
Strongly disagree	450	14.9
Disagree Disagree	1127	37.3
Neither agree nor disagree	957	31.7
Agree	403	13.3
Strongly agree	82	2.7
Technologies make me respond more quickly than I would normally do*	3015	
Strongly disagree	211	7.0
Disagree	1362	45.2
Neither agree nor disagree	1010	33.5
Agree	340	11.3
Strongly agree	92	3.1
Technologies create many more problems than I would otherwise experience	3016	
Strongly disagree	354	11.7
Disagree	938	31.1
Neither agree nor disagree	1076	<i>35.7</i>
Agree	516	17.1
Strongly agree	132	4.4
Using technologies blurs boundaries between my out-of-home and my home life	3008	
Strongly disagree	326	10.8
Disagree	697	23.2
Neither agree nor disagree	1190	39.6
Agree	673	22.4
Strongly agree	122	4.1
I feel my personal life is being invaded by technologies	3015	
Strongly disagree	175	5.8
Disagree	591	19.6

Neither agree nor disagree	1021	33.9
Agree	1032	34.2
Strongly agree	196	6.5
I often find technologies too complex to use	3020	
Strongly disagree	243	8.0
Disagree	729	24.1
Neither agree nor disagree	925	30.6
Agree	931	30.8
Strongly agree	192	6.4
I do not know enough about technologies to use them effectively	3015	
Strongly disagree	283	9.4
Disagree	728	24,1
Neither agree nor disagree	902	29.9
Agree	890	29.5
Strongly agree	212	7.0
The constant developments and upgrades in technologies are a burden for me	3017	
Strongly disagree	318	10.5
Disagree	879	29.1
Neither agree nor disagree	987	32.7
Agree	656	21.7
Strongly agree	177	5.9
I feel uncomfortable knowing that my use of technologies can be easily monitored	3016	
Strongly disagree	113	3.7
Disagree	375	12.4
Neither agree nor disagree	839	27.8
Agree	1282	42.5
Strongly agree	407	13.5
It bothers me that the information created by my current technology use could be traced	3018	
even years from now		
Strongly disagree	131	4.3
	302	10.0
Disagree	302	10.0

Agree	1278	42.3
Strongly agree	496	16.4
I feel that my use of technologies makes it easier to invade my privacy	3013	
Strongly disagree	103	3.4
Disagree	400	13.3
Neither agree nor disagree	924	30.7
Agree	1330	44.1
Strongly agree	256	8.5
I am better at understanding and using technology than young people	3017	
Strongly disagree	65	2.2
Disagree	337	11.2
Neither agree nor disagree	1015	33.6
Agree	1087	36.0
Strongly agree	513	17.0
I am typically behind younger persons in my family in the technologies I use	3018	
Strongly disagree	232	7.7
Disagree	509	16.9
Neither agree nor disagree	727	24.1
Agree	1196	39.6
Strongly agree	354	11.7
If young people are residents in technology-land, I may be considered an immigrant	3018	
Strongly disagree	292	9.7
Disagree	673	22.3
Neither agree nor disagree	1079	35.8
Agree	803	26.6
Strongly agree	171	5.7

^{*} Statement that was reverse coded.

Table 3.2 *Technostress scores – general and per stressor*

Technostress antecedent	N	Item	Construct
		Mean (SD)	Mean (SD)
Overload	2996		2.60 (0.69)
This technology makes me do things slower	3119	2.52 (0.99)	
This technology makes me respond more quickly than I would normally do*	3015	2.58 (0.89)	
This technology creates many more problems than I would otherwise experience	3016	2.71 (1.02)	
Invasion	2996		3.01 (0.84)
Using this technology blurs boundaries between my out-of-home and my home life	3008	2.86 (1.02)	
I feel my personal life is being interrupted by this technology	3015	3.16 (1.00)	
Complexity	2997		2.96 (0.90)
I often find the technology too complex to use	3020	3.03 (1.06)	
I do not know enough about this technology to use it effectively	3015	3.01 (1.09)	
The constant developments and upgrades in the technology are a burden for me	3017	2.83 (1.07)	
Privacy	2995		3.49 (0.79)
I feel uncomfortable that my use of this technology can be easily monitored	3017	3.50 (1.00)	
It bothers me that the information created by my current technology use could be traced even	3018	3.57 (1.02)	
years from now			
I feel that my use of this technology makes it more easy to invade my privacy	3013	3.41 (0.94)	
Inclusion	2998		3.27 (0.79)
I am better at understanding and using technology than young people*	3017	3.55 (0.97)	
I am typically behind younger persons in my family in the technology I use	3018	3.31 (1.12)	
If young people are residents in "technology-land," I may be considered an immigrant	3018	2.96 (1.05)	
Total Technostress score (sum of the five construct scores)	2893		
Range			5.33-25.00
Mean (SD)			15.32 (2.91)
Scale reliability (Cronbach's Alpha)			0.843

^{*} Statement that was reverse coded.

4. BEHAVIOR

The number of reported online privacy protection actions applied at least "sometimes" ranged between zero and 14, with a mean of 5.22 (SD=3.41).

The most common acts were clearing cookies and browser history (67.6% reported doing so at least sometimes) and blocking messages/emails from someone one did not want to hear from (65.5%). In addition, about half of the sample reported restricting the amount of personal data seen by other people on their social media profiles and using a pop-up window blocker.

The least common actions were using a public computer to browse anonymously (8.2%) and asking someone to remove something posted about one online (12.5%).

For more information, see Table 4.1.

Table 4.1 *Online privacy behaviors*

	N	%
	n	/0
Use a temporary username or email address	3008	
Never	1736	57.7
Seldom	485	16.1
Sometimes	437	14.5
Often	172	5.7
Always	104	3.5
Don't know	74	2.5
% applying at least sometimes	22	2.7%
Use a fake name or untraceable username	3016	
Never	1846	61.2
Seldom	467	15.5
Sometimes	417	13.8
Often	148	4.9
Always	<i>78</i>	2.6
Don't know	60	2.0
% applying at least sometimes	20	0.3%
Give inaccurate or misleading information about yourself	3015	
Never	1740	57.7
Seldom	581	19.3
Sometimes	438	14.5
Often	114	3.8
Always	60	2.0
Don't know	82	2.7
% applying at least sometimes	20	0.3%
Set your browser to disable or turn off cookies	3013	
Never	942	31.3
Seldom	544	18.1

Often 390 12.9 Always 237 7.9 Don't know 181 6.0 % applying at least sometimes 44.7% Clear cookies and browser history 3008 Never 422 14.0 Seldom 472 15.7 Sometimes 775 25.8 Often 721 24.0 Always 535 17.8 Don't know 83 2.8 % applying at least sometimes 67.6% Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 43.8 Never 1320 43.8 Seldom 411 13.6		710	22.0
Always 237 7.9 Don't know 181 6.0 % applying at least sometimes 44.7% Clear cookies and browser history 3008 Never 422 14.0 Seldom 472 15.7 Sometimes 775 25.8 Often 721 24.0 Always 335 17.8 Don't know 83 2.8 % applying at least sometimes 67.6% Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 411 13.6 Sometimes </td <td>Sometimes</td> <td>719</td> <td>23.9</td>	Sometimes	719	23.9
Don't know 181 6.0 % applying at least sometimes 44.7% Clear cookies and browser history 3008 Never 422 14.0 Seldom 472 15.7 Sometimes 775 25.8 Often 721 24.0 Always 535 17.8 Don't know 83 2.8 % applying at least sometimes 67.6% Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 1697 56.3 Seldom 390 12.9 56.3 36.3 <td></td> <td></td> <td></td>			
% applying at least sometimes 44.7% Clear cookies and browser history 3008 Never 422 14.0 Seldom 472 15.7 Sometimes 775 25.8 Often 721 24.0 Always 535 17.8 Don't know 83 2.8 % applying at least sometimes 67.6% Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 410 15.3 Often 340 11.3 Always 460 15.3 Often 340			
Clear cookies and browser history 3008 Never 422 14.0 Seldom 472 15.7 Sometimes 775 25.8 Often 721 24.0 Always 535 17.8 Don't know 83 2.8 % applying at least sometimes 67.6% Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 3015 Never 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 <td></td> <td></td> <td></td>			
Never 422 14.0 Seldom 472 15.7 Sometimes 775 25.8 Often 721 24.0 Always 535 17.8 Don't know 83 2.8 % applying at least sometimes 3015 Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 3015 Never 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 123 4.1 Don't know 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 292 9.7	% applying at least sometimes		4.7%
Seldom 472 15.7 Sometimes 775 25.8 Often 721 24.0 Always 535 17.8 Don't know 83 2.8 % applying at least sometimes 3015 Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 3015 Never 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Clear cookies and browser history		
Sometimes 775 25.8 Often 721 24.0 Always 535 17.8 Don't know 83 2.8 % applying at least sometimes 67.6% Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 3015 Never 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Never	-	14.0
Often 721 24.0 Always 535 17.8 Don't know 83 2.8 % applying at least sometimes 67.6% Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 3015 Never 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Seldom	472	15.7
Always 535 17.8 Don't know 83 2.8 % applying at least sometimes 67.6% Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 3015 Never 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Sometimes	775	25.8
Don't know 83 2.8 % applying at least sometimes 67.6% Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 3015 Never 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Often	721	<i>24.0</i>
% applying at least sometimes 67.6% Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 3015 Never 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Always	535	17.8
Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network (VPN) 3015 Never 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Don't know	83	2.8
a proxy server, Tor software, or a virtual personal network (VPN) Never	% applying at least sometimes	6'	7.6%
Never 1697 56.3 Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Use services that allow you to browse the web anonymously, such as	3015	
Seldom 390 12.9 Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	a proxy server, Tor software, or a virtual personal network (VPN)		
Sometimes 412 13.7 Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Never	1697	56.3
Often 211 7.0 Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Seldom	390	12.9
Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Sometimes	412	13.7
Always 123 4.1 Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Often	211	7.0
Don't know 182 6.0 % applying at least sometimes 24.8% Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%		123	4.1
Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Don't know	182	6.0
Encrypt your communications (or make sure that the communication is encrypted by the app) 3015 Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	% applying at least sometimes	24	4.8%
is encrypted by the app) Never			
Never 1320 43.8 Seldom 411 13.6 Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	*1 *		
Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Never	1320	43.8
Sometimes 460 15.3 Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Seldom	411	13.6
Often 340 11.3 Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%	Sometimes	460	
Always 192 6.4 Don't know 292 9.7 % applying at least sometimes 33.0%		340	
Don't know2929.7% applying at least sometimes33.0%			
% applying at least sometimes 33.0%	· · · · · · · · · · · · · · · · · · ·		

Never	858	28.5
Seldom	628	20.9
Sometimes	841	27.9
Often	333	11.1
Always	234	7.8
Don't know	117	3.9
% applying at least sometimes	46	5.8%
Delete or edit something you posted in the past	3010	
Never	1024	34.0
Seldom	679	22.6
Sometimes	765	25.4
Often	289	9.6
Ålways	156	5.2
Don't know	97	3.2
% applying at least sometimes	40.2%	
Ask someone to remove something that was posted about you online	3012	
Never	2034	67.5
Seldom	463	15.4
Sometimes	256	8.5
Often	66	2.2
Always	55	1.8
Don't know	138	4.6
% applying at least sometimes	12	2.5%
Use a public computer to browse anonymously	3009	_
Never	2396	79.6
Seldom	315	10.5
Sometimes	147	4.9
Often	62	2.1
Ålways	37	1.2
Don't know	52	1.7
% applying at least sometimes	8	.2%
Use a pop-up window blocker	3008	

Never	882	29.3
Seldom	447	14.9
Sometimes	603	20.0
Often	410	13.5
Always	448	14.9
Don't know	218	7.2
% applying at least sometimes	48	8.4%
Block messages/emails from someone you do not want to hear from	3013	
Never	423	14.0
Seldom	564	18.7
Sometimes	977	32.4
Often	457	15.2
Ålways	538	17.9
Don't know	54	1.8
% applying at least sometimes	6:	5.5%
Restrict the amount of personal data seen by other people on your social media profiles	3017	
Never	455	15.1
Seldom	366	12.1
Sometimes	680	22.5
Often	647	21.4
Älways	738	24.5
Don't know	131	4.3
% applying at least sometimes	48	8.3%
	2846	
Number of privacy protection acts applied at least sometimes (0-14)	5.22	2 (3.41)

REFERENCES

Bruder, M., Haffke, P., Neave, N., Nouripanah, N., & Imhoff, R. (2013). Measuring individual differences in generic beliefs in conspiracy theories across cultures: Conspiracy Mentality Questionnaire. *Frontiers in Psychology*, 4, 225.

Buchanan, T., Paine, C., Joinson, A.N. and Reips, U.-D. (2007), Development of measures of online privacy concern and protection for use on the internet. *Journal of the American Society for Information Science and Technology*, 58 (2), 157-165. DOI: 10.1002/asi.20459

Marciano, A. (2019). Reframing biometric surveillance: From a means of inspection to a form of control. *Ethics and Information Technology*, 21(2), 127-136. DOI: 10.1007/s10676-018-9493-1.

Nimrod, G. (2018). Technostress: Measuring a new threat to well-being in later life. Aging & Mental Health, 22(8), 1086-1093.

Rainie, L., Kiesler, S., Kang, R., Madden, M., Duggan, M., Brown, S., & Dabbish, L. (2013). Anonymity, privacy, and security online. Pew Research Center, 5. https://www.pewresearch.org/internet/2013/09/05/anonymity-privacy-and-security-online/

Segijn, C. M., Opree, S. J., & van Ooijen, I. (2022). The validation of the perceived surveillance scale. *Cyberpsychology: Journal of Psychosocial Research on Cyberspace*, 16(3), Article 9. DOI: 10.5817/CP2022-3-9

Zhang, D., M. van der Goot, H. Hendriks, S. C. Boerman, T. Araujo, & H. Voorveld. 2021. "They Know Everything": Folk Theories, Thoughts, and Feelings about Surveillance in Media Technologies." *The International Conference on Research in Advertising, Virtual Conference*.

APPENDIX A – THE QUESTIONNAIRE

Dear participant,

We invite you to participate in our research by completing the following survey. The aim of this survey, funded by the Social Sciences and Humanities Research Council of Canada, is to better understand how individuals aged 60 and over experience the digital world. Accordingly, the questions included in this survey focus on your use of digital devices and apps as well as your feelings while you use the internet.

We kindly ask you to take the time to complete this 15-minute survey to the best of your ability. Participation in this study in voluntary. You are not obliged to answer any of the questions, however, in doing so you will greatly assist us to better understand internet use among older people. If you find a question that is irrelevant or inconvenient to you, please skip it and respond the rest of the questions. The data collected is fully anonymous and will be used solely for academic purposes.

If you have any questions about this study or about your rights as a research participant, please contact [xxx, email].

To proceed, please confirm that you agree to participate in this study by checking the box:

The following questions focus on your general internet usage patterns.

1. Please indicate the devices you use to access the internet (check all that apply).

- a. Smartphone
- b. Tablet
- c. Desktop computer
- d. Laptop computer
- e. Other (e.g., smart TV, smartwatch, voice assistant such as Alexa)

How often did you use the internet for the following purposes in the last week?

Li	ist of purposes:	never	seldom	sometimes	often	every time I use the internet
2.	Interpersonal one-on-one communication, through email, WhatsApp, social media (e.g., private messages on Facebook), video call/voice services (e.g., Skype, Zoom) etc.	1	2	3	4	5
3.	Interpersonal group communication, through email lists, WhatsApp groups, social media (e.g., Facebook), video conference services (e.g., Skype, Zoom) etc.	1	2	3	4	5
4.	Information seeking (e.g., news, consumption, health issues, finance etc.).	1	2	3	4	5
5.	Performing particular tasks or errands (e.g., paying bills, purchasing goods or services, filling forms, banking, scheduling appointments etc).	1	2	3	4	5
6.	Leisure activities (e.g., games, watching movies, listening to music etc).	1	2	3	4	5

7. How many hours did you spend using the internet in the last week?

- a. 0-7 hours.
- b. 8-14 hours.
- c. 15-21 hours.
- d. 22-28 hours.
- e. More than 28 hours.

Next, we would like to know about your privacy experiences on the internet.

To what extent do you believe that on the internet, **commercial corporations and/or companies** (e.g., retailers, department stores, technology companies) are:

	Strongly disbelieve	Somewhat disbelieve	Neither believe nor disbelieve	Somewhat believe	Strongly believe
8. Watching your every move	1	2	3	4	5
9. Checking up on you	1	2	3	4	5
10. Looking over your shoulder	1	2	3	4	5
11. Entering your private space	1	2	3	4	5

[Present Q11 only if marked at least "4" or "5" in Q7 or Q8 or Q9 or Q10]

12. How do you evaluate the effects of these actions by commercial corporations and/or companies on you?

- a Much more positive than negative
- b More positive than negative
- c Equally positive and negative
- d More negative than positive
- e Much more negative than positive
- f I don't know

To what extent do you believe that on the internet, government agencies and state/local authorities are:

	Strongly disbelieve	Somewhat disbelieve	Neither believe nor disbelieve	Somewhat believe	Strongly believe
13. Watching your every move	1	2	3	4	5
14. Checking up on you	1	2	3	4	5
15. Looking over your shoulder	1	2	3	4	5
16. Entering your private space	1	2	3	4	5

[Present Q16 only if marked at least "4" or "5" in Q12 or Q13 or Q14 or Q15]

17. How do you evaluate the effects of these actions by government agencies and state/local authorities on you?

- a Much more positive than negative
- b More positive than negative
- c Equally positive and negative
- d More negative than positive
- e Much more negative than positive
- f I don't know

To what extent do you believe that on the internet, social institutions (e.g., nonprofit organizations, religious institutions, political movements, social clubs) are:

	Strongly disbelieve	Somewhat disbelieve	Neither believe nor disbelieve	Somewhat believe	Strongly believe
18. Watching your every move	1	2	3	4	5
19. Checking up on you	1	2	3	4	5
20. Looking over your shoulder	1	2	3	4	5

21. Entering your private space	1	2	3	4	5

[Present Q21 only if marked at least "4" or "5" in Q17 or Q18 or Q19 or Q20]

- 22. How do you evaluate the effect of these actions by **social institutions** on you?
- a Much more positive than negative
- b More positive than negative
- c Equally positive and negative
- d More negative than positive
- e Much more negative than positive
- f I don't know

To what extent do you believe that on the internet, **individual people (e.g., family members such as your children and siblings, close friends)** are:

	Strongly disbelieve	Somewhat disbelieve	Neither believe nor disbelieve	Somewhat believe	Strongly believe
23. Watching your every move	1	2	3	4	5
24. Checking up on you	1	2	3	4	5
25. Looking over your shoulder	1	2	3	4	5
26. Entering your private space	1	2	3	4	5

[Present Q26 only if marked at least "4" or "5" in Q22 or Q23 or Q24 or Q25]

- 27. How do you evaluate the effect of these actions by **individual people** on you?
- a Much more positive than negative
- b More positive than negative

- c Equally positive and negative
- d More negative than positive
- e Much more negative than positive
- f I don't know

28. What is your employment status (check all that apply)?

- a. Paid employee
- b. Self-employed person
- c. Unemployed (temporarily or permanently)
- d. Retired
- e. Other (housework, voluntary work)

[Present Q28-31 only if marked "a" in Q27]

To what extent do you believe that on the internet **your employer** is:

	Strongly disbelieve	Somewhat disbelieve	Neither believe nor disbelieve	Somewhat believe	Strongly believe
29. Watching your every move	1	2	3	4	5
30. Checking up on you	1	2	3	4	5
31. Looking over your shoulder	1	2	3	4	5
32. Entering your private space	1	2	3	4	5

[Present Q32 only if marked at least "4" or "5" in Q28 or Q29 or Q30 or Q31]

- 33. How do you evaluate the effect of these actions by **your employer** on you?
- a Much more positive than negative

- b More positive than negative
- c Equally positive and negative
- d More negative than positive
- e Much more negative than positive
- f I don't know

To what extent do you believe that on the internet **bad actors** (entities involved in defrauding, stealing information etc.) are:

	Strongly disbelieve	Somewhat disbelieve	Neither believe nor disbelieve	Somewhat believe	Strongly believe
34. Watching your every move	1	2	3	4	5
35. Checking up on you	1	2	3	4	5
36. Looking over your shoulder	1	2	3	4	5
37. Entering your private space	1	2	3	4	5

[Present Q37 only if marked at least "4" or "5" in Q33 or Q34 or Q35 or Q36]

38. How do you evaluate the effect of these actions by **bad actors** on you?

- a Much more positive than negative
- b More positive than negative
- c Equally positive and negative
- d More negative than positive
- e Much more negative than positive
- f I don't know

In the following statements, the term "technologies" refers to any device with which you access the internet. Please indicate the extent to which you agree with these statements.

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
39. Technologies make me do things more slowly	1	2	3	4	5
40. Technologies make me respond more quickly than I would normally do	1	2	3	4	5
41. Technologies create many more problems than I would otherwise experience	1	2	3	4	5
42. Using technologies blurs boundaries between my out-of-home and my home life	1	2	3	4	5
43. I feel my personal life is being invaded by technologies	1	2	3	4	5
44. I often find technologies too complex to use	1	2	3	4	5
45. I do not know enough about technologies to use them effectively	1	2	3	4	5
46. The constant developments and upgrades in technologies are a burden for me	1	2	3	4	5
47. I feel uncomfortable knowing that my use of technologies can be easily monitored	1	2	3	4	5
48. It bothers me that the information created by my current technology use could be traced even years from now	1	2	3	4	5
49. I feel that my use of technologies makes it easier to invade my privacy	1	2	3	4	5
50. I am better at understanding and using technology than young people	1	2	3	4	5
51. I am typically behind younger persons in my family in the technologies I use	1	2	3	4	5
52. If young people are residents in "technology-land", I may be considered an immigrant	1	2	3	4	5

To what extent do you agree with the following statements?

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
53. Many very important things happen in the world, which the public is never informed about	1	2	3	4	5
54. Politicians usually do not tell us the true motives for their decisions	1	2	3	4	5
55. Government agencies closely monitor all citizens	1	2	3	4	5
56. Events which superficially seem to lack a connection are often the result of secret activities	1	2	3	4	5
57. There are secret organizations that greatly influence political decisions	1	2	3	4	5

While using the Internet, how often do you do the following things?

	never	seldom	sometimes	often	always	I don't know
58. Use a temporary username or email address	1	2	3	4	5	
59. Use a fake name or untraceable username	1	2	3	4	5	
60. Give inaccurate or misleading information about yourself	1	2	3	4	5	
61. Set your browser to disable or turn off cookies	1	2	3	4	5	
62. Clear cookies and browser history	1	2	3	4	5	
63. Use services that allow you to browse the web anonymously, such as a proxy server, Tor software, or a virtual personal network	1	2	3	4	5	
64. Encrypt your communications (or make sure that the communication is encrypted by the app)	1	2	3	4	5	
65. Decide not to use a website because they ask for your real name	1	2	3	4	5	
66. Delete or edit something you posted in the past	1	2	3	4	5	

67. Ask someone to remove something that was posted about you online	1	2	3	4	5	
68. Use a public computer to browse anonymously	1	2	3	4	5	
69. Use a pop-up window blocker	1	2	3	4	5	
70. Block messages/emails from someone you do not want to hear from	1	2	3	4	5	
71. Restrict the amount of personal data seen by other people in your social media profiles	1	2	3	4	5	

Lastly, we would like to ask some information about you.

72. What is your age?

73. What is your gender identity?

- a. Male
- b. Female
- c. Other

74. How would you describe your living arrangement? (check all that apply)

- a. I live by myself
- b. I live with a partner (including married and unmarried couples)
- c. I live with a family member(s)
- d. I live with a caregiver
- e. Other_____

75. Do you have children?

- a. Yes
- b. No

76. Do you have grandchildren?

- a. Yes
- b. No

77. What is the highest level of education you completed?

- a. Elementary school (less than 12 years)
- b. High school (about 12 years)
- c. Technical school/certificate (about 13-14 years)
- d. Bachelor's degree (about 15 years)
- e. Master's degree (about 16-17 years)
- f. Doctoral degree (18 years or more)

78. How would you describe the monthly income of your household?

- a. A lot below average
- b. Slightly below average
- c. Similar to the average
- d. Slightly above average
- e. A lot above average
- f. I don't know

79. Which of the following best describes the area where you live?

- a. A big city
- b. The suburbs of a big city
- c. A medium-sized city
- d. A town or small city
- e. A village, a farm or home in the countryside

80. How would you describe your current health status?

- a. Excellent
- b. Very good
- c. Good
- d. Fair
- e. Poor

81. Were you born in [Country]?

- a. Yes
- b. No