Summary of 2022 Survey: Questionnaires and Aggregated Results

October, 2024

Economic and Social Research Institute (ESRI), Cabinet Office, Government of Japan

SC1   Please tell us about your gender.

Gender		No.	%
Total		30295	100.0
1	Male	21851	72.1
2	Female	8394	27.7
3	Other	50	0.2

SC2   Please tell us about your age group.

Age group		No.	%
Total		30295	100.0
1	18-29	1532	5.1
2	30-39	4362	14.4
3	40-49	8493	28.0
4	50-59	11309	37.3
5	60-69	4599	15.2
6	Other than above	0	0.0

SC3 Please select one classification that best describes your current occupation.

	Current occupation	No.	%
	Total	30295	100.0
1	20 Workers in religion	17	0.1
2	26 Accountancy clerks	804	2.7
3	27 Production-related clerical workers	257	0.8
4	28 Sales clerks	1218	4.0
5	60 Railway drivers	78	0.3
6	61 Motor vehicle drivers	223	0.7
7	72 Packaging workers	38	0.1
8	73 Other carrying, cleaning, packaging, and related workers	196	0.6
9	SC3-3-1/01a Management government officials	1193	3.9
10	SC3-3-1/021 Company officers	1034	3.4
11	SC3-3-1/02a Officers of other corporations, organizations	137	0.5
12	SC3-3-1/03a Management staff of a company, a corporation, or an organization (Section Manager or Department Manager Equivalent)	2371	7.8
13	SC3-3-1/049 Other administrative and managerial workers	891	2.9
14	SC3-3-2/051 Natural science researchers	126	0.4
15	SC3-3-2/052 Humanities, social science, and other researchers	63	0.2
16	SC3-3-2/Other than above	12	0.0
17	SC3-3-3/06a Agriculture, forestry, fishery and food engineers	28	0.1
18	SC3-3-3/07a Electrical, electronic, telecommunications engineers	603	2.0
19	SC3-3-3/07c Machinery engineers	438	1.4
20	SC3-3-3/07d Transportation equipment engineers	161	0.5
21	SC3-3-3/07e Metal engineers	33	0.1
22	SC3-3-3/07f Chemical engineers	149	0.5
23	SC3-3-3/091 Architectural engineers	244	0.8
24	SC3-3-3/09a Civil engineers and Surveyors	176	0.6
25	SC3-3-3/10a System consultants and system designers	257	0.8
26	SC3-3-3/104 Software creators	793	2.6
27	SC3-3-3/10c Other data processing and communication engineers	472	1.6
28	SC3-3-3/11a Other engineers	306	1.0
29	SC3-3-3/Other than above	31	0.1
30	SC3-3-4/121 Doctors	166	0.5
31	SC3-3-4/122 Dental surgeons	68	0.2
32	SC3-3-4/123 Veterinary surgeons	6	0.0
33	SC3-3-4/124 Pharmacists	194	0.6
34	SC3-3-4/131 Public health nurses	32	0.1
35	SC3-3-4/132 Midwives	15	0.0
36	SC3-3-4/133 Nurses (including assistant nurses)	535	1.8
37	SC3-3-4/141 Diagnostic radiographers	58	0.2
38	SC3-3-4/143 Clinical laboratory technicians	73	0.2
39	SC3-3-4/144 Physiotherapists, occupational therapists	142	0.5
40	SC3-3-4/145 Certified orthoptists, speech therapists	35	0.1
41	SC3-3-4/146 Dental hygienists	2	0.0
42	SC3-3-4/147 Dental technicians	1	0.0
43	SC3-3-4/151 Nutritionists	31	0.1
44	SC3-3-4/152 Masseurs, chiropractors, acupuncturists, moxacauterists and judo-orthopedists	51	0.2
45	SC3-3-4/15a Health care workers not classified elsewhere	104	0.3
46	SC3-3-4/Other than above	20	0.1
47	SC3-3-5/163 Childcare workers	71	0.2

48	SC3-3-5/16a Other social welfare specialist professionals	309	1.0
49	SC3-3-5/Other than above	17	0.1
50	SC3-3-6/17a Judges, Public prosecutors, Attorneys	7	0.0
51	SC3-3-6/17c Patent attorneys, Judicial scriveners	16	0.1
52	SC3-3-6/179 Other legal workers	129	0.4
53	SC3-3-6/Other than above	10	0.0
54	SC3-3-7/181 Certified public accountants	13	0.0
55	SC3-3-7/182 Licensed tax accountants	24	0.1
56	SC3-3-7/183 Certified social insurance and labor consultant	4	0.0
57	SC3-3-7/18a Other management, finance, and insurance professionals	75	0.2
58	SC3-3-7/Other than above	8	0.0
59	SC3-3-8/191 Kindergarten teachers	37	0.1
60	SC3-3-8/192 Elementary school teachers	214	0.7
61	SC3-3-8/193 Junior high school teachers	133	0.4
62	SC3-3-8/19a Senior high school teachers	215	0.7
63	SC3-3-8/196 Special needs education school teachers	46	0.2
64	SC3-3-8/19c University professors	113	0.4
65	SC3-3-8/199 Other teachers	102	0.3
66	SC3-3-8/Other than above	35	0.1
67	SC3-3-9/211 Authors	26	0.1
68	SC3-3-9/212 Journalists, editors	39	0.1
69	SC3-3-9/Other than above	7	0.0
70	SC3-3-10/22a Sculptors, Painters, Industrial artists	11	0.0
71	SC3-3-10/224 Designers	61	0.2
72	SC3-3-10/225 Photographers, film operators	18	0.1
73	SC3-3-10/Other than above	11	0.0
74	SC3-3-11/231 Musicians	58	0.2
75	SC3-3-11/23a Dancers, Actors, Directors, Performers	11	0.0
76	SC3-3-11/Other than above	3	0.0
77	SC3-3-12/24a Librarians, Curators	20	0.1
78	SC3-3-12/24n Private tutors (Music)	2	0.0
79	SC3-3-12/24p Private tutors (Dancing, Acting, Directing, Performing)	5	0.0
80	SC3-3-12/24r Private tutors (Sports)	4	0.0
81	SC3-3-12/24s Private tutors (Educational support)	33	0.1
82	SC3-3-12/24t Private tutors (Other than above)	22	0.1
83	SC3-3-12/245 Sports professionals	9	0.0
84	SC3-3-12/246 Communication equipment operators	25	0.1
85	SC3-3-12/24c Specialist professionals not classified elsewhere	828	2.7
86	SC3-3-12/Other than above	264	0.9
87	SC3-3-13/25a General affairs workers, Human affairs workers	1080	3.6
88	SC3-3-13/254 Reception and guidance clerical workers	219	0.7
89	SC3-3-13/256 Telephone receptionists	150	0.5
90	SC3-3-13/257 Comprehensive clerical workers	1882	6.2
91	SC3-3-13/25c Other general clerical workers	2171	7.2
92	SC3-3-13/Other than above	97	0.3
93	SC3-3-14/291 Money collectors	1	0.0

94	SC3-3-14/292 Investigators	4	0.0
95	SC3-3-14/299 Other outdoor service workers	12	0.0
96	SC3-3-14/Other than above	4	0.0
97	SC3-3-15/30a Transportation clerical workers	42	0.1
98	SC3-3-15/303 Post clerical workers	16	0.1
99	SC3-3-15/Other than above	8	0.0
100	SC3-3-16/311 Personal computer operators	282	0.9
101	SC3-3-16/312 Data entry device operators	56	0.2
102	SC3-3-16/31a Other office appliance operators	137	0.5
103	SC3-3-16/Other than above	34	0.1
104	SC3-3-17/321 Retailers, retail manager	248	0.8
105	SC3-3-17/322 Wholesalers, wholesale manager	42	0.1
106	SC3-3-17/323 Shop assistants	710	2.3
107	SC3-3-17/324 Home visit and mobile sales workers	52	0.2
108	SC3-3-17/325 Recycled resources collection and wholesale workers	10	0.0
109	SC3-3-17/326 Goods purchase canvassers	40	0.1
110	SC3-3-17/Other than above	51	0.2
111	SC3-3-18/331 Real estate agents and dealers	66	0.2
112	SC3-3-18/332 Insurance agents and brokers	26	0.1
113	SC3-3-18/33a Other quasi-sales workers	82	0.3
114	SC3-3-18/Other than above	10	0.0
115	SC3-3-19/343 Medicine sales workers	73	0.2
116	SC3-3-19/34a Machinery sales workers, Communication and system sales workers	162	0.5
117	SC3-3-19/346 Finance and insurance sales workers	336	1.1
118	SC3-3-19/347 Real estate sales workers	93	0.3
119	SC3-3-19/34c Other sales workers	849	2.8
120	SC3-3-19/Other than above	79	0.3
121	SC3-3-20/351 Housekeepers, home helpers	2	0.0
122	SC3-3-20/359 Other domestic support service workers	49	0.2
123	SC3-3-20/Other than above	13	0.0
124	SC3-3-21/361 Care workers (medical and welfare facilities, etc.)	328	1.1
125	SC3-3-21/362 Home visiting care workers	29	0.1
126	SC3-3-21/Other than above	31	0.1
127	SC3-3-22/371 Care assistants	22	0.1
128	SC3-3-22/37a Other healthcare service workers	116	0.4
129	SC3-3-22/Other than above	13	0.0
130	SC3-3-23/381 Hairdressers	34	0.1
131	SC3-3-23/382 Beauticians	25	0.1
132	SC3-3-23/383 Cosmetic service workers (except beauticians)	12	0.0
133	SC3-3-23/384 Bath workers	3	0.0
134	SC3-3-23/38a Launderers, Fullers	27	0.1

135	SC3-3-23/Other than above	35	0.1
136	SC3-3-24/391 Cooks	91	0.3
137	SC3-3-24/392 Bartenders	4	0.0
138	SC3-3-24/Other than above	10	0.0
139	SC3-3-25/401 Restaurateurs, restaurant managers	30	0.1
140	SC3-3-25/402 Japanese inn owners and managers	8	0.0
141	SC3-3-25/40a Food and drink service workers, Personal assistance workers	22	0.1
142	SC3-3-25/40c Customer entertainment workers	216	0.7
143	SC3-3-25/407 Service workers in places of entertainment, etc.	61	0.2
144	SC3-3-25/Other than above	73	0.2
145	SC3-3-26/41a Condominiums, apartment buildings, lodging houses, Hostel, and dormitory management personnel	12	0.0
146	SC3-3-26/413 Office building management personnel	13	0.0
147	SC3-3-26/414 Car park management personnel	4	0.0
148	SC3-3-26/Other than above	9	0.0
149	SC3-3-27/421 Travel and tourist guides	62	0.2
150	SC3-3-27/422 Left luggage handlers	6	0.0
151	SC3-3-27/423 Commodity hire workers	15	0.0
152	SC3-3-27/424 Advertisers	27	0.1
153	SC3-3-27/425 Undertakers, crematorium workers	16	0.1
154	SC3-3-27/429 Service workers not classified elsewhere	637	2.1
155	SC3-3-27/Other than above	153	0.5
156	SC3-3-28/43a Self-defense officials	29	0.1
157	SC3-3-28/44a Police officers, Maritime safety officials	43	0.1
158	SC3-3-28/44c Prison guards, Other judicial police staff	13	0.0
159	SC3-3-28/452 Firefighters	9	0.0
160	SC3-3-28/453 Security staff	60	0.2
161	SC3-3-28/459 Other public security workers not classified elsewhere	33	0.1
162	SC3-3-28/Other than above	8	0.0
163	SC3-3-29/461 Crop farming workers	42	0.1
164	SC3-3-29/462 Livestock farm workers	2	0.0
165	SC3-3-29/463 Landscape gardeners, nursery workers	8	0.0
166	SC3-3-29/469 Other agricultural workers	9	0.0
167	SC3-3-29/Other than above	1	0.0
168	SC3-3-30/471 Forest nursery workers	1	0.0
169	SC3-3-30/472 Tree-felling, logging, and collecting workers	11	0.0
170	SC3-3-30/473(479) Other forestry workers	6	0.0
171	SC3-3-30/Other than above	2	0.0
172	SC3-3-31/481 Fishery workers	5	0.0
173	SC3-3-31/482 Ships' captains, navigation officers, chief engineers, engineers (fishing boats)	1	0.0
174	SC3-3-31/483 Seaweed and shellfish harvesting workers	0	0.0
175	SC3-3-31/484 Aquaculture workers	6	0.0
176	SC3-3-31/489 Other fishery workers	1	0.0
177	SC3-3-31/Other than above	0	0.0
178	SC3-3-32/49a Pig-iron forging, steelmaking, non-ferrous metal smelting workers	17	0.1
179	SC3-3-32/49c Cast metal manufacturing and forging workers	5	0.0

180	SC3-3-32/49d Metal machine tools workers	15	0.0
181	SC3-3-32/49e Metal press workers	10	0.0
182	SC3-3-32/49f Ironworkers, boilermakers	4	0.0
183	SC3-3-32/49g Sheet metal workers	2	0.0
184	SC3-3-32/49h Metal sculpture and plating workers	2	0.0
185	SC3-3-32/49i Metal welding and fusion cutting workers	7	0.0
186	SC3-3-32/49j Other product manufacturing and processing workers (metal products)	19	0.1
187	SC3-3-32/Other than above	3	0.0
188	SC3-3-33/50a Chemical product manufacturing workers	11	0.0
189	SC3-3-33/50c Ceramic, earth, and stone product manufacturing workers	1	0.0
190	SC3-3-33/50d Food manufacturing workers	33	0.1
191	SC3-3-33/50e Beverage and cigarette manufacturing workers	4	0.0
192	SC3-3-33/50f Spinning, weaving, apparel, and fiber product manufacturing workers	8	0.0
193	SC3-3-33/50g Wooden and paper product manufacturing workers	4	0.0
194	SC3-3-33/50h Printing and bookbinding workers	11	0.0
195	SC3-3-33/50i Rubber, plastic product manufacturing workers	3	0.0
196	SC3-3-33/50j Other product manufacturing and processing workers (except metal products)	39	0.1
197	SC3-3-33/Other than above	4	0.0
198	SC3-3-34/51a General-purpose, manufacturing, and business-use mechanical apparatus assembly workers	12	0.0
199	SC3-3-34/51c Electro-mechanical apparatus assembly workers	24	0.1
200	SC3-3-34/51d Automobile assembly workers	8	0.0
201	SC3-3-34/51e Transportation machinery assembly workers (except automobiles)	6	0.0
202	SC3-3-34/51f Weighing and measuring appliance, photo-optic mechanical apparatus assembly workers	3	0.0
203	SC3-3-34/Other than above	1	0.0
204	SC3-3-35/551 General-purpose, manufacturing, and business-use mechanical apparatus maintenance and repair workers	28	0.1
205	SC3-3-35/552 Electro-mechanical apparatus maintenance and repair workers	23	0.1
206	SC3-3-35/553 Automobile maintenance and repair workers	28	0.1
207	SC3-3-35/554 Transportation machinery maintenance and repair workers (except automobiles)	15	0.0
208	SC3-3-35/555 Weighing and measuring appliance, photo-optic mechanical apparatus maintenance and repair workers	4	0.0
209	SC3-3-35/Other than above	4	0.0
210	SC3-3-36/56a Metal product inspection workers	15	0.0
211	SC3-3-36/571 Chemical product inspection workers	11	0.0
212	SC3-3-36/572 Ceramic, earth, and stone product inspection workers	1	0.0
213	SC3-3-36/573 Food inspection workers	10	0.0
214	SC3-3-36/574 Beverage and cigarette inspection workers	0	0.0
215	SC3-3-36/575 Spinning, weaving, apparel, and fiber product inspection workers	0	0.0
216	SC3-3-36/576 Wooden and paper product inspection workers	1	0.0
217	SC3-3-36/577 Printing and bookbinding inspection workers	2	0.0
218	SC3-3-36/578 Rubber, plastic product inspection workers	3	0.0
219	SC3-3-36/579 Other product inspection workers	33	0.1
220	SC3-3-36/Other than above	9	0.0
221	SC3-3-37/581 General-purpose, manufacturing, and business-use mechanical apparatus inspection workers	1	0.0
222	SC3-3-37/582 Electro-mechanical apparatus inspection workers	5	0.0
223	SC3-3-37/583 Automobile inspection workers	3	0.0
224	SC3-3-37/584 Transportation machinery inspection workers (except automobiles)	2	0.0
225	SC3-3-37/585 Weighing and measuring appliance, photo-optic mechanical apparatus inspection workers	0	0.0
226	SC3-3-37/Other than above	2	0.0
227	SC3-3-38/59n Painters, painting and signboard makers	10	0.0

228	SC3-3-38/59p Manufacturing-related workers (except for Painters, painting and signboard makers)	41	0.1
229	SC3-3-38/592 Quasi-manufacturing workers	129	0.4
230	SC3-3-38/Other than above	34	0.1
231	SC3-3-39/62a Ships captains, navigation officers, navigators (except fishing boats), pilots	7	0.0
232	SC3-3-39/623 Ships' chief engineers, engineers (except fishing boats)	7	0.0
233	SC3-3-39/624 Aircraft pilots	6	0.0
234	SC3-3-39/Other than above	2	0.0
235	SC3-3-40/631 Conductors	2	0.0
236	SC3-3-40/63a Deckhands, dual purpose crew (DPC), Ships stokers	6	0.0
237	SC3-3-40/63c Transport workers not classified elsewhere	47	0.2
238	SC3-3-40/Other than above	8	0.0
239	SC3-3-41/641 Power plant and substation workers	3	0.0
240	SC3-3-41/642 Boiler operators	3	0.0
241	SC3-3-41/643 Crane, winch operators	5	0.0
242	SC3-3-41/645 Construction, well-drilling machinery operators	4	0.0
243	SC3-3-41/64a Other stationary and construction machinery operators	20	0.1
244	SC3-3-41/Other than above	8	0.0
245	SC3-3-42/651 Molding box carpenters	14	0.0
246	SC3-3-42/652 Scaffolding workers	10	0.0
247	SC3-3-42/653 Steel reinforcement workers	10	0.0
248	SC3-3-42/661 Carpenters	31	0.1
249	SC3-3-42/662 Block and tile laying workers	5	0.0
250	SC3-3-42/663 Roofing workers	6	0.0
251	SC3-3-42/664 Plasterers	7	0.0
252	SC3-3-42/665 Tatami workers	0	0.0
253	SC3-3-42/666 Pipe laying workers	33	0.1
254	SC3-3-42/681 Civil engineering workers	119	0.4
255	SC3-3-42/682 Railway line construction workers	3	0.0
256	SC3-3-42/68a Other construction workers and civil engineering workers	192	0.6
257	SC3-3-42/Other than above	117	0.4
258	SC3-3-43/67a Electric line hanging and laying workers	11	0.0
259	SC3-3-43/674 Telecommunication equipment construction workers	52	0.2
260	SC3-3-43/679 Other electric construction workers	75	0.2
261	SC3-3-43/Other than above	11	0.0
262	SC3-3-44/693 Gravel, sand and clay quarrying workers	5	0.0
263	SC3-3-44/69a Other mine workers	15	0.0
264	SC3-3-44/Other than above	4	0.0
265	SC3-3-45/701 Mail and telegram collection and delivery workers	30	0.1
266	SC3-3-45/702 Onboard and quayside cargo handlers	4	0.0
267	SC3-3-45/703 Land-based cargo handling and carrying workers	33	0.1
268	SC3-3-45/704 Warehouse workers	23	0.1
269	SC3-3-45/705 Delivery workers	78	0.3
270	SC3-3-45/706 Packing workers	5	0.0
271	SC3-3-45/Other than above	9	0.0
272	SC3-3-46/711 Building cleaning workers	17	0.1
273	SC3-3-46/71a Waste treatment workers	14	0.0
274	SC3-3-46/712 House cleaning workers	12	0.0
275	SC3-3-46/71c Other cleaning workers	13	0.0
276	SC3-3-46/Other than above	0	0.0

Q1   Please select one classification that best describes the type of business you work in (including self-employment).

	Type of business	No.	%
	Total	30,295	100.0
1	Agriculture, forestry, and fishing	122	0.4
2	Mining and quarrying of stone and gravel	42	0.1
3	Construction	1,910	6.3
4	Manufacturing	5,358	17.7
5	Electricity, gas, heat supply and water	594	2.0
6	Information and communications	2,743	9.1
7	Transport and postal services	1,279	4.2
8	Wholesale and retail trade	3,320	11.0
9	Finance and insurance	1,959	6.5
10	Real estate and goods rental and leasing	903	3.0
11	Scientific research, professional and technical services	997	3.3
12	Accommodations, eating and drinking services	362	1.2
13	Living-related and personal services	599	2.0
14	Education, learning support	1,679	5.5
15	Medical, health care and welfare	3,479	11.5
16	Compound services (postal services, cooperative associations)	179	0.6
17	Services, n.e.c.	2,635	8.7
18	Government, except elsewhere classified	2,135	7.0

Q2   What type of organization or group do you work for? Please select one.

	Type of organization or group	No.	%
	Total	30,295	100.0
1	Private or privately owned companies, private institutions or organizations, voluntary organizations	24,304	80.2
2	National or local government, or its subsidiary organizations	2,540	8.4
3	Entities operated by the national or local government (e.g. XX research institute, museum, art museum)	356	1.2
4	Publicly operated entities with the involvement of the national or local government (water supply, sewerage, transportation, hospital, etc.)	458	1.5
5	Independent administrative corporations of the national government or local governments, etc.	363	1.2
6	NPOs, private school corporations	471	1.6
7	Other public corporations such as foundations and incorporated associations, unions, etc.	1,568	5.2
8	National university corporations	235	0.8

Q3   Please answer the following questions about your working hours, based on October 2022 results.

Q3_1   Number of working days per month

Working days per month	No.	%
Total	30,295	100.00
Average		19.97
Minimum		0.00
Maximum		31.00

Q3_2   Total approximately working hours per month

Working hours per month	No.	%
Total	30,295	100.00
Average		149.27
Minimum		0.00
Maximum		300.00

Q4 Do you use information devices such as PCs, tablets, and smartphones (including business equipment such as store cash registers) in your daily work? Please select the corresponding answer.

Information devices usage		No.	%
	Total	30,295	100.0
1	I use them all the time	21,181	69.9
2	I use them about half of my working hours	3,476	11.5
3	20% of working hours	1,676	5.5
4	10% of working hours	1,407	4.6
5	I rarely use them.	2,555	8.4

Q5 Do you use any of the following in your daily work? Please select the corresponding option.

Q5_1 Microsoft Excel or other spreadsheet software

Excel usage		No.	%
	Total	30,295	100.0
1	I don't use it	5,279	17.4
2	Occasionally use	8,948	29.5
3	I use it often.	16,068	53.0

Q5_2 Response form maintained in-house independently

Response form usage		No.	%
	Total	30,295	100.0
1	I don't use it	11,283	37.2
2	Occasionally use	9,056	29.9
3	I use it often.	9,956	32.9

Q5_3 Database software (SQL Server, Access, Oracle, etc.)

Database software usage		No.	%
	Total	30,295	100.0
1	I don't use it	19,769	65.3
2	Occasionally use	6,437	21.2
3	I use it often.	4,089	13.5

Q5_4 Programming languages (Microsoft VBA, Fortran, Python, C, etc.)

Programming languages usage		No.	%
	Total	30,295	100.0
1	I don't use it	24,338	80.3
2	Occasionally use	3,592	11.9
3	I use it often.	2,365	7.8

Q6 Do you engage in the development of the software listed below in your daily work?

Q6_1 Software used in the company

Development of in-house software		No.	%
	Total	30,295	100.0
1	I engage	6,411	21.2
2	I don't engage	23,884	78.8

Q6_2   Software sold outside the company

Development of outside sold software	No.	%
Total	30,295	100.0
1	I engage	4,055	13.4
2	I don't engage	26,240	86.6

Q7   Are you engaged in research and development (R&D) at your place of employment? The term "research and development" here refers to basic research or the development of existing technologies or new fields. Activities such as experimentation, analysis, consideration, and verification related to new products and services fall under this category.

R&D engagement	No.	%
Total	30,295	100.0
1	1. I don't engage in R&D	25,361	83.7
2	2. I engage in R&D less than 1/4 of working hours	1,955	6.5
3	3. I engage in R&D about half of working hours	1,177	3.9
4	4. I engage in R&D for more than 3/4 of working hours	637	2.1
5	5. I engage in R&D for almost all of working hours	1,165	3.8

Q8   Do you undertake the tasks listed from Q8_1 to Q8_8 in your daily work? Please answer "Yes" or "No" for each.

Q8_1   Develop a plan to collect and utilize internal or external data

Planning	No.	%
Total	30,295	100.0
1	Yes	5,846	19.3
2	No	24,449	80.7

Q8_2   Prepare and maintain environment for producing data (e.g. sending request and follow-up to the survey respondents, etc., process for rewarding points to respondents)

Preparing and maintaining environment	No.	%
Total	30,295	100.0
1	Yes	5,004	16.5
2	No	25,291	83.5

Q8_3   Entering or recording various types of data generated internally or externally (e.g. recording information from surveys or experiments, reading from store registers, entering business data, recording inquiries)

Entering or recording	No.	%
Total	30,295	100.0
1	Yes	8,494	28.0
2	No	21,801	72.0

Q8_4   Operating applications where various types of data are automatically collected (e.g. search log aggregation tools for smartphone applications, applications for collecting order and communication records)

Operating automated application		No.	%
Total		30,295	100.0
1	Yes	4,063	13.4
2	No	26,232	86.6

Q8_5   Arrange and organize collected business data (e.g. data related to sales performance, production runs, customers, comments on Social Media, web access logs) in a user-friendly manner

Arranging and organizing data		No.	%
Total		30,295	100.0
1	Yes	6,865	22.7
2	No	23,430	77.3

Q8_6   Database development or operation

Database		No.	%
Total		30,295	100.0
1	Yes	3,236	10.7
2	No	27,059	89.3

Q8_7   Analysis of data (e.g. statistical analysis, creation of various management indicators, analysis of big data)

Data analysis		No.	%
Total		30,295	100.0
1	Yes	5,228	17.3
2	No	25,067	82.7

Q8_8   Either develop, manufacture, or support and maintain equipment and systems to automatically collect data (e.g., POS, search history, movement information)

Developing automated systems		No.	%
Total		30,295	100.0
1	Yes	2,925	9.7
2	No	27,370	90.3

Q8_9   Other than Q8-1 to Q8-8 above, do you perform any other work related to data production, recording, organizing, processing, storing, or analyzing? If yes, please describe it as specifically as possible.

Other Data related work		No.	%
Total		30,295	100.0
1	Yes	1,937	6.4
2	No	28,358	93.6

Q9   The following are tasks related to data or databases and data analysis for which you answered "yes" in Q8. Approximately how many percentages of your total working hours are devoted to each of these tasks? For each task, please enter the percentage as an integer from 1 to 100.

Q9_1   Q8_1 Develop a plan to collect and utilize internal or external data

Planning	No.	%
Total	5,846	100.0
Average		24.63
Minimum		0.00
Maximum		100.00

Q9_2   Q8_2 Preparare and maintain environment for producing data (e.g. sending request and follow-up to the survey respondents, process for rewarding points to respondents)

Preparing and maintaining environment	No.	%
Total	5,004	100.0
Average		16.77
Minimum		0.00
Maximum		100.00

Q9_3   Q8_3 Entering or recording various types of data generated internally or externally (e.g. recording information from surveys or experiments, reading from store registers, entering business data, recording inquiries)

Entering or recording	No.	%
Total	8,494	100.0
Average		25.07
Minimum		0.00
Maximum		100.00

Q9_4   Q8_4 Operating applications where various types of data are automatically collected (e.g. search log aggregation tools for smartphone applications, applications for collecting order and communication records)

Operating automated application	No.	%
Total	4,063	100.0
Average		12.61
Minimum		0.00
Maximum		100.00

Q9_5   Q8_5 Arrange and organize collected business data (e.g. data related to sales performance, production runs, customers, comments on Social Media, web access logs) in a user-friendly manner

Arranging and organizing data	No.	%
Total	6,865	100.0
Average		16.93
Minimum		0.00
Maximum		100.00

Q9_6   Q8_6 Database development or operation

Database	No.	%
Total	3,236	100.0
Average		12.93
Minimum		0.00
Maximum		100.00

Q9_7   Q8_7 Analysis of data (e.g. statistical analysis, creation of various management indicators, analysis of big data)

Data analysis	No.	%
Total	5,228	100.0
Average		17.35
Minimum		0.00
Maximum		100.00

Q9_8   Q8_8 Either develop, manufacture, or support and maintain equipment and systems to automatically collect data (e.g., POS, search history, movement information)

Developing automated systems	No.	%
Total	2,925	100.0
Average		11.20
Minimum		0.00
Maximum		100.00

Q9_9   Q8_9 Other than Q8-1 to Q8-8 above, do you perform any other work related to data production, recording, organizing, processing, storing, or analyzing? If yes, please describe it as specifically as possible.

Other Data related work	No.	%
Total	1,937	100.0
Average		16.21
Minimum		0.00
Maximum		100.00

Q10   How are the data or databases and data analysis that you answered in Q8 being used? Please select the most appropriate option.

	Data Usage (in/out)	No.	%
	Total	13,082	100.0
1	Generally used in-house (including group companies)	9,711	74.2
2	The company uses them in-house and sells them outside the company as well	929	7.1
3	Don't use in-house, but generally sell them outside the company	617	4.7
4	Don't know	1,825	14.0

Q11   You answered in Q8 that you engage in work related to data production. How long will the data be used after it is produced?

	Data Usage (time length)	No.	%
	Total	12,040	100.0
1	Less than 1 month (e.g. the results are aggregated for daily or weekly and the original data is not stored)	1,664	13.8
2	More than 1 month, but less than 1 year (e.g. results are aggregated for a certain period of time, such as monthly or quarterly, and the original data is not stored).	2,896	24.1
3	More than 1 year (e.g. the results are registered in a database and used for repeated analysis)	4,367	36.3
4	Don't know	3,113	25.9

Q12   Last question. You answered "Yes" to Q8-3, which shows you undertake "Entering or recording various types of data generated internally or externally (e.g. recording information from surveys or experiments, reading from store registers, entering business data, recording inquiries)" in your daily work? Please select the option that best describes the nature of the data you record.

	Nature of the data you record	No.	%
	Total	8,494	100.0
1	Records obtained through research or experimentation	2,274	26.8
2	Records of sales through store cash registers	780	9.2
3	Daily business records such as daily reports, work diaries, etc.	2,599	30.6
4	Business records used by the organization to improve performance or efficiency	2,841	33.4