

## List of appendices

Appendix 1. Study methodology

Appendix 2. Distribution of employees by age and type of economic activity, September 2022, persons

Appendix 3. Regional distribution of certain categories of registered unemployed persons as of the end of the period, 2020-2022, persons

Appendix 4. Distribution of registered unemployed by age and profession as of the end of the period, persons

Appendix 5. Distribution of registered unemployed women by age and profession by end of the period, person

Appendix 6. Dynamics of changes in the number of vacancies and registered unemployed by type of economic activity in 2021-2022, as of the end of the period

Appendix 7. Distribution of registered unemployed persons by age and type of economic activity at the end of the period, persons

Appendix 8. Distribution of registered unemployed women by age and types of economic activity at the end of the period, persons

Appendix 9. Dynamics of changes in the number of vacancies and registered unemployed by type of economic activity in 2021-2022, as of the end of the period

Appendix 10. Number of employees in companies by company size (by region) in 2020

Appendix 11. Gender distribution of employees of the surveyed companies by company size, %

Appendix 12. Gender distribution of employees of the surveyed companies by type of economic activity, %

Appendix 13. Gender distribution of employees of the surveyed companies by region, %

Appendix 14. Share of young people under the age of 25 in companies by company size, %

Appendix 15. Share of young people under the age of 25 in companies by region, %

Appendix 16. Share of young people under the age of 25 in companies by type of economic activity, %

Appendix 17. Share of companies that hired employees during 2022, by company size, %

Appendix 18. Share of companies that hired employees during 2022, by type of economic activity, %

Appendix 19. Share of companies that hired employees during 2022, by region, %

Appendix 20. Estimate of additional recruitment in the next 6 months by company size, %

Appendix 21. Estimate of additional recruitment in the next 6 months by region, %

Appendix 22. Estimate of additional recruitment in the next 6 months by type of economic activity, %

Appendix 23. Estimate of personnel cuts in the next 6 months by company size, %

Appendix 24. Estimate of personnel cuts in the next 6 months by region, %

Appendix 25. Estimate of personnel cuts in the next 6 months by type of economic activity, %

Appendix 26. Share of expected additional recruitment and reduction of the current number of employees by region, %

Appendix 27. Share of expected additional recruitment and reduction of the current number of employees by type of economic activity, %

Appendix 28. Share of companies that provided training for employees, by type of economic activity, %

Appendix 29. Share of companies that provided training for employees, by region, %

Appendix 30. Training needs in 2023 by type of economic activity, %

Appendix 31. Training needs in 2023 by region, %

Appendix 32. Assessment of possibilities for self-financing employee training in 2023 by type of economic activity, %

Appendix 33. Assessment of possibilities for self-financing employee training in 2023 by region, %

Appendix 34. Cooperation with vocational education institutions by types of economic activity, %

Appendix 35. Cooperation with vocational education institutions by region, %

## Appendix 2

### Distribution of employees by age and type of economic activity, September 2022, persons

Types of economic activity	up to 35 years old	36-45	46-60	60+	Total
Agriculture	1.9	2.2	2.3	1.6	2.1
Extractive industry	0.6	0.6	0.5	0.3	0.5
Processing industry	18.1	20.8	20.4	14.0	19.2
Electricity and gas supplies	2.5	3.7	4.3	3.7	3.5
Water supply	0.7	1.0	1.5	1.9	1.2
Construction	3.0	3.9	3.4	3.4	3.4
Wholesale and retail trade	24.4	20.3	14.3	9.0	18.6
Transport, warehouse management, post	7.3	7.5	8.3	6.1	7.6
Temporary accommodation and catering services	3.2	1.3	1.2	0.9	1.8
Information and telecommunications	2.8	1.9	1.3	1.0	1.9
Finance and insurance	3.4	2.9	1.5	0.8	2.4
Real estate transactions	1.0	1.4	1.6	2.5	1.4
Professional and scientific and technical activities	3.7	3.4	2.6	4.0	3.3
Administrative services	2.5	2.9	4.0	5.8	3.4
Public administration and defense	9.9	12.2	14.7	16.6	12.7
Education	5.4	5.8	7.2	13.9	6.9
Healthcare and social assistance	7.8	6.9	9.2	12.1	8.4
Art, sports	1.1	0.8	1.0	1.7	1.0
Provision of other types of services	0.7	0.6	0.5	0.6	0.6

Source: data of the Pension Fund of Ukraine

## Appendix 3

### Regional distribution of certain categories of registered unemployed persons as of the end of the period, 2020-2022, persons

Region	2020	Total 2021	Young people under the age of 35					Women 2021	including							
			Young people under the age of 35						Persons with disabilities			Internally displaced persons				
			2022	2020	2021	2022	2020		2022	2020	2021	2022	2020	2021	2022	
Total	459,198	294,968	186,508	140,865	78,328	43,317	257,787	170,058	127,667	22,741	18,277	10,865	4,436	2,585	15,693	
Vinnitsia	23,295	16,889	7,682	6,849	4,168	1,954	11,628	9,132	5,710	1,114	966	492	84	51	763	
Volyn	12,466	7,213	4,358	4,074	2,166	1,132	7,895	4,742	3,142	730	495	381	39	15	269	
Dnipropetrovsk	34,780	23,328	14,446	10,460	6,276	3,227	19,832	13,757	10,043	607	492	500	264	183	1,584	
Donetsk	14,898	9,515	7,039	4,612	2,534	1,262	8,859	5,792	4,388	1,021	829	395	784	521	798	
Zhytomyr	17,929	12,032	7,987	5,676	3,307	2,074	10,331	7,446	5,690	1,447	1,205	692	69	30	388	
Zakarpattia	7,758	4,525	3,917	2,442	1,187	934	5,307	3,239	2,798	358	263	146	34	5	245	
Zaporizhzhia	21,416	14,329	13,840	6,165	3,808	3,127	12,087	7,941	7,828	1,126	832	549	223	136	889	
Ivano-Frankivsk	13,045	8,378	4,934	4,554	2,623	1,327	8,347	5,508	3,608	633	518	385	31	15	499	
Kyiv	17,709	11,090	9,121	5,701	3,224	2,421	10,453	6,318	6,428	1,044	830	679	273	153	935	
Kirovohrad	21,134	12,191	6,594	6,448	3,172	1,657	11,047	7,036	4,887	778	533	320	83	33	682	
Luhansk	9,323	6,747	2,962	2,572	1,667	768	4,186	3,020	1,573	299	255	119	383	259	237	
Lviv	28,234	12,779	5,147	10,236	4,028	1,329	17,119	7,939	3,857	2,004	1,279	569	93	42	545	
Mykolayiv	19,229	12,814	9,970	5,887	3,560	2,556	10,368	7,419	6,738	684	504	346	64	40	412	
Odesa	19,390	12,609	8,073	5,339	2,952	1,824	10,675	7,066	5,777	776	627	476	137	77	671	
Poltava	28,044	17,943	8,391	8,224	4,560	1,876	13,985	9,094	6,016	1,590	1,311	613	172	98	984	
Rivne	14,078	10,624	6,045	4,747	2,985	1,621	8,705	6,733	4,293	684	676	385	28	18	349	
Sumy	17,259	11,166	11,252	4,781	2,615	2,250	9,960	6,558	7,998	780	602	560	90	34	357	
Ternopil	12,354	8,525	3,558	4,051	2,312	856	6,654	4,778	2,590	613	619	307	8	8	409	
Kharkiv	30,290	19,130	14,774	8,769	4,791	2,987	16,650	10,745	9,716	685	534	301	496	297	1,800	
Kherson	14,052	9,558	6,794	4,077	2,377	1,332	7,620	5,234	3,623	450	354	121	89	48	25	
Khmelnyskyi	16,700	12,036	5,574	5,129	3,203	1,348	8,653	6,334	3,792	1,812	1,645	718	46	28	655	
Cherkasy	22,339	15,614	7,850	6,443	3,784	1,891	11,614	8,718	5,632	1,439	1,364	694	80	61	813	
Chernivtsi	8,300	5,651	2,338	2,722	1,457	523	4,638	3,224	1,769	388	335	160	21	11	248	

Chernihiv	12,960	10,102	7,455	3,464	2,375	1,510	7,454	6,148	5,386	746	664	556	67	47	272
City of Kyiv	22,216	10,180	6,407	7,443	3,197	1,531	13,720	6,137	4,385	933	545	401	778	375	864

Source: data of the state Employment Service of Ukraine, 2020-2022

## Appendix 4

### Distribution of registered unemployed by age and profession as of the end of the period, persons

Main professional groups	Total		15-24		25-34		35-44		45-55		over 55 years old	
	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022
	Total	294,968	186,508	14,723	9,003	63 605	34 314	85 625	54 489	82 424	53166	48 591
Executives, managers	43 504	20 240	1 100	458	9 056	3 702	14 249	6 632	12 076	5 664	7 023	3,784
Professionals	33,903	16,296	2 328	1 258	9 687	3 936	10 556	5 039	7 110	3 666	4 222	2 397
Specialists	31 641	19 445	2 630	1 515	8 676	4 700	9318	5 962	6 984	4 573	4 033	2 695
Technical specialists	17 430	14 034	1 228	919	4 404	3310	4 533	3 937	4 431	3 590	2 834	2 278
Retail and service workers	44,146	38,303	2 935	2 261	9 734	7 332	12168	10 867	11 744	10 873	7,565	6,970
Skilled agricultural workers	13,029	7,354	318	153	2,124	1,097	3,874	2,211	4,313	2,482	2,400	1,411
Skilled tool workers	22,240	18,289	1,082	833	4,176	2,723	6,546	5,404	6,497	5,682	3,939	3,647
Workers for maintenance of technological equipment, assembly of machines	51,700	23,789	1,881	668	9,925	3,473	14,294	6,657	17,720	7,774	7,880	5,217
Simplest professions	36,242	27,662	900	638	5,391	3,638	9,866	7,557	11,465	8,753	8,620	7,076
Persons without a profession	1,133	1,096	321	300	432	403	221	223	84	109	75	61

## Appendix 5

### Distribution of registered unemployed women by age and profession at the end of the period, persons

Main professional groups	Total		15-24		25-34		35-44		45-55		over 55 years old	
	2021	2022			2021	2022	2021	2022	2021	2022	2021	2022
			2021	2022								
Total	170,058	127,667	8,650	6,436	35,861	24 776	49 706	37 872	46152	35 722	29 689	22 861
Executives, managers	24 624	13 606	527	334	4819	2 727	7,826	4,405	7 001	3 673	4 451	2 467
Professionals	23 786	12 871	1 705	1 058	6 395	3 204	7 282	3 926	5 245	2 853	3159	1 830
Specialists	23 635	15 861	1 869	1 212	6 052	3 871	7 011	4 860	5 422	3 739	3 281	2179
Technical specialists	15,614	13 005	1,012	821	3 873	3 061	4 076	3 677	4 063	3 344	2,590	2102
Retail and service workers	34 414	31 972	2182	1 902	7 329	6 223	9 656	9 250	9 271	9 024	5 976	5 573
Skilled agricultural workers	8 414	5 470	132	80	1 175	769	2,590	1,709	2,885	1,900	1,632	1,012
Skilled tool workers	7,651	7,763	334	297	1,351	1,220	2,377	2,356	2,214	2,496	1 375	1 394
Workers for maintenance of technological equipment, assembly of machines	7 694	7 294	271	198	1 394	1 079	2 278	2 247	2 435	2 447	1 316	1 323
Simplest professions	23 338	18 946	391	308	3 098	2 279	6 427	5 244	7,565	6178	5 857	4 937
Persons without a profession	888	879	227	226	375	343	183	198	51	68	52	44

## Appendix 6

### Dynamics of changes in the number of vacancies and registered unemployed (by profession), as of the end of the period

	Main professional groups	Number of unemployed, persons		Number of vacancies, units	
		2021	2022	2021	2022
Total		294,968	186,508	41,042	21,241
Executives, managers		43 504	20 240	2 387	1 175
Professionals		33,903	16,296	6 031	3 837
Specialists		31 641	19 445	4 689	2 300
Technical specialists		17 430	14 034	1 620	683
Retail and service workers		44,146	38,303	5 522	2191
Skilled agricultural workers		13,029	7,354	353	183
Skilled tool workers		22,240	18,289	8 813	4 985
Workers for maintenance of technological equipment, assembly of machines		51,700	23,789	6 836	3 666
Simplest professions		36,242	27,662	4,791	2 221
Persons without a profession		1,133	1,096	0	0

## Appendix 7

### Distribution of registered unemployed persons by age and type of economic activity at the end of the period, persons

Type of economic activity	Total		15	-24	25	-34	35	-44	45	-55	more than	55 years old
	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022
Total	294,968	186,508	14,723	9,003	63 605	34 314	85 625	54489	82 424	53 166	48 591	35 536
Number of unemployed who previously worked and received the status of unemployed for up to 1 year after being dismissed from their last job	271,045	163 820	10 514	5 779	57 605	29 457	79 228	48 284	78 352	48 326	45 346	31 974
Agriculture	59 995	21 052	1 656	430	10 666	3 071	16 537	5 821	21 158	7122	9 978	4 608
Extractive industry	2 645	2 206	75	61	539	359	994	739	760	709	277	338
Processing industry	32 427	27 596	1 067	703	6 504	4 350	10 110	8 481	9 284	8 652	5 462	5 410
Electricity and gas supplies	4 371	2816	105	39	741	356	1 270	791	1 336	981	919	649
Water supply	2 715	2 003	61	34	388	240	719	540	923	654	624	535
Construction	7 902	5 599	341	163	1 629	819	2410	1 707	2198	1 539	1 324	1 371
Wholesale and retail trade	40 337	35 901	2163	1 871	10 168	7 799	12 793	11 220	9 590	9 394	5 623	5 617
Transport, warehouse management, post	13 629	10 579	416	258	2 690	1 503	3,784	2 768	4187	3 539	2 552	2 511
Temporary accommodation and catering services	5 225	4 548	369	267	1 152	822	1 436	1 290	1 378	1 318	890	851
Information and telecommunications	2 895	2 008	144	119	791	477	851	584	698	490	411	338
Finance and insurance	6 508	4810	455	291	2154	1 488	2 207	1 641	1 141	942	551	448
Real estate transactions	1 940	1 648	38	30	339	229	573	434	575	499	415	456
Professional and scientific and technical activities	5 002	3 752	190	140	1 269	742	1 556	1 163	1 223	1 000	764	707
Administrative services	5 523	4 649	213	166	1 139	805	1 519	1 228	1,457	1 389	1 195	1 061
Public administration and defence	53 265	18 194	2 296	606	12 364	3 658	15 247	5 518	14 345	4 969	9013	3 443
Education	8 393	5 760	339	228	1 751	984	2 346	1 515	2 331	1 702	1 626	1 331
Healthcare and social assistance	14 452	8 215	412	269	2 479	1 334	3 749	2 096	4 773	2 752	3 039	1 764
Art, sports	1 772	1 057	88	53	351	188	486	279	502	297	345	240
Provision of other types of services	2 011	1 410	85	51	484	227	634	463	480	374	328	295



## Appendix 8

### Distribution of registered unemployed women by age and types of economic activity at the end of the period, persons

Type of economic activity	Total		15	-24	25	34	35	-44	45	-55	more than	55 years old
	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022
Total	170,058	193,333	8,650	10,272	35,861	40,356	49 706	57 154	46 152	53 215	29 689	32 336
Number of unemployed who previously worked and received the status of unemployed for up to 1 year after being dismissed from their last job	152 826	172 108	5 602	7 501	31 169	34 627	45 051	51 436	43 449	49 049	27 555	29 495
Agriculture	19 021	13 899	355	264	2 808	2 139	5 500	4 065	6 495	4 510	3 863	2 921
Extractive industry	804	934	11	11	125	161	287	268	255	329	126	165
Processing industry	17 032	22 849	528	628	3 206	3 804	5 380	7 416	4 936	6 974	2 982	4 027
Electricity and gas supplies	2 217	4 814	43	51	350	420	724	1 071	624	1 928	476	1 344
Water supply	1 265	1 228	20	19	197	180	351	351	412	392	285	286
Construction	1 788	2 784	39	64	300	487	580	867	463	774	406	592
Wholesale and retail trade	29 365	45 486	1 652	2 608	7 400	10 379	9 159	14 526	6 978	11 819	4,176	6 154
Transport, warehouse management, post	7 705	9 706	168	295	1 392	1 635	2 053	2 579	2 508	3 196	1,584	2 001
Temporary accommodation and catering services	4 400	7 907	295	462	927	1 408	1 235	2 325	1 173	2 351	770	1 361
Information and telecommunications	1,800	2 770	118	188	520	868	556	792	376	598	230	324
Finance and insurance	5 116	5 804	367	547	1 689	1 946	1 730	1 918	894	965	436	428
Real estate transactions	1 147	1 688	26	37	230	293	329	504	325	496	237	358
Professional and scientific and technical activities	3 253	4 850	142	259	846	1 267	1 018	1 514	755	1 116	492	694
Administrative services	2,952	4 142	136	237	658	974	827	1 183	705	1 042	626	706
Public administration and defence	33 141	21 405	922	805	6 231	4 526	9 318	6 147	9 951	5 842	6 719	4 085
Education	6 534	6 959	279	437	1 451	1 468	1 896	1 929	1 746	1 923	1 162	1 202
Healthcare and social assistance	12 519	11 781	370	417	2 201	1 960	3 294	3 063	4 138	4 001	2 516	2 340
Art, sports	1 206	1 261	57	73	247	299	330	322	346	337	226	230
Provision of other types of services	1 529	1 804	73	97	384	396	478	591	361	449	233	271

## Appendix 9

### Dynamics of changes in the number of vacancies and registered unemployed by type of economic activity in 2021-2022, as of the end of the period

	Types of economic activity	Number of unemployed, persons		Number of vacancies, units	
		2021	2022	2021	2022
Total		294,968	186,508	41,042	21,241
Number of unemployed who previously worked and received the status of unemployed for up to 1 year after being dismissed from their last job		271 007	163 820	1 391	958
Agriculture		59 995	21 052	1 045	658
Extractive industry		2 645	2 206	8 337	4 249
Processing industry		32 427	27 596	1 202	719
Electricity and gas supplies		4 371	2816	1 029	603
Water supply		2715	2 003	1 717	463
Construction		7 902	5 599	6172	3 323
Wholesale and retail trade		40 337	35 901	4,388	1 986
Transport, warehouse management, post		13 629	10 579	1 115	438
Temporary accommodation and catering services		5 225	4 548	300	124
Information and telecommunications		2 895	2 008	352	68
Finance and insurance		6 508	4810	358	175
Real estate transactions		1 940	1 648	1 059	434
Professional and scientific activities		5 002	3 752	1 636	1 170
Administrative services		5 523	4 649	3 024	1 177
Public administration and defence		53 265	18194	4 005	2 267
Education		8 393	5 760	3143	2 026
Healthcare and social assistance		14 452	8215	438	235
Art, sports		1 772	1 057	331	168
Provision of other types of services		2011	1 410	331	168

# Appendix 10

## Number of employees in companies by company size (by region) in 2020

Number of employees in companies by company size by region in 2020

Regions	Total, thsd. persons	Including							
		large enterprises		medium-size enterprises		small enterprises		of which microenterprises	
		thsd. persons	percent (%) of the total number of employees of the respective region	Thsd persons	percent (%) of the total number of employees of the respective region	thsd. persons	percent (%) of the total number of employees of the respective region	thsd. persons	percent (%) of the total number of employees of the respective region
Ukraine	6288,4	1574,6	25,0	308,9	49,1	1626,9	25,9	650,9	10,4
Vinnitsia	170,4	26,8	15,7	94,0	55,2	49,6	29,1	17,1	10,0
Volyn	112,8	16,4	14,5	67,7	60,0	28,7	25,5	10,7	9,4
Dnipropetrovsk	660,0	253,5	38,4	71,8	41,2	134,7	20,4	55,4	8,4
Donetsk	266,2	87,8	33,0	37,0	51,5	41,4	15,5	15,9	6,0
Zhytomyr	133,9	8,9	6,6	89,2	66,7	35,8	26,7	12,8	9,6
Zakarpattia	88,8	к/с	к/с	к/с	к/с	24,5	27,5	9,0	10,1
Zaporizhzhia	264,7	70,9	26,8	28,8	48,7	65,0	24,5	26,8	10,1
Ivano-Frankivsk	110,7	10,1	9,1	67,5	61,0	33,1	29,9	13,8	12,5
Kyiv	326,4	75,3	23,1	55,5	47,6	95,5	29,3	35,8	11,0
Kirovohrad	108,1	7,8	7,3	65,0	60,1	35,3	32,6	14,3	13,2
Luhansk	74,1	к/с	к/с	к/с	к/с	15,5	20,9	5,9	8,0
Lviv	349,7	47,8	13,7	01,0	57,5	100,9	28,8	38,3	10,9
Mykolayiv	127,8	23,5	18,4	63/	49,6	40,9	32,0	17,6	13,8
Odesa	297,9	33,8	11,4	56,5	52,5	107,6	36,1	44,0	14,8
Poltava	206,8	28,1	13,6	28,3	62,0	50,4	24,4	20,8	10,0
Rivne	102,0	6,3	6,2	66,7	65,3	29,0	28,5	10,9	10,7
Sumy	121,2	10,8	8,9	81,0	66,8	29,4	24,3	10,6	8,8

Ternopil	91,4	11,2	12,3	54, C	59,0	26,2	28,7	9,2	10,1
Kharkiv	391,1	37,1	9,5	- 38 2	60,9	115,8	29,6	45,8	11,7

# End of Appendix 10

Number of employees in companies by company size by region in 2020

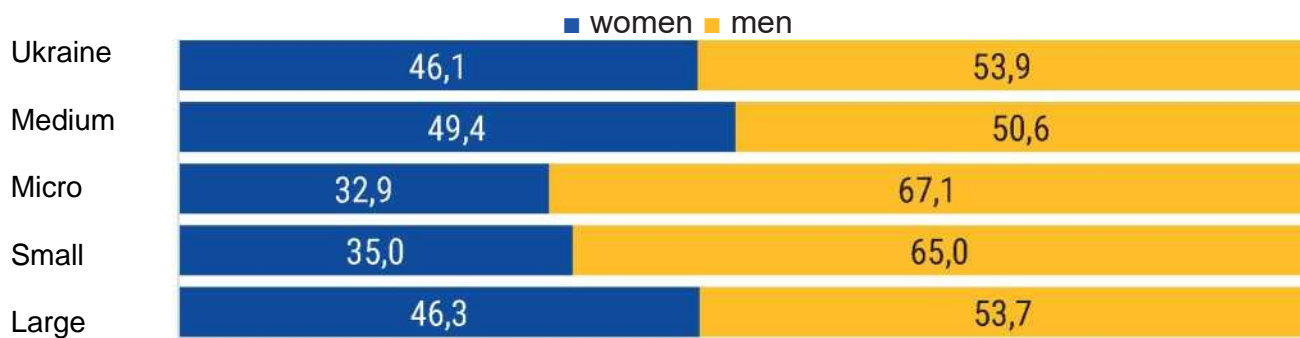
Regions	Total, thsd. persons	Including							
		large enterprises		medium-size enterprises		small enterprises		of which	
		thsd. persons	percent (%) of the total number of employees of the respective region	thsd. persons	percent (%) of the total number of employees of the respective region	thsd. persons	percent (%) of the total number of employees of the respective region	thsd. persons	percent (%) of the total number of employees of the respective region
Kherson	90,0	κ/c	κ/c	κ/c	κ/c	33,0	36,6	13,0	14,5
Khmelnyskyi	124,4	11,4	9,1	76,8	61,8	36,2	29,1	13,1	10,5
Cherkasy	142,8	16,2	11,4	85,2	59,6	41,4	29,0	16,1	11,3
Chernivtsi	59,3	κ/c	κ/c	κ/c	κ/c	19,2	32,4	6,9	11,7
Chernihiv	112,1	7,2	6,4	74,5	66,4	30,4	27,2	11,4	10,2
the city of Kyiv	1755,8	766,6	43,7	581,8	33,1	407,4	23,2	175,7	10,0

## Notes.

1. The data are provided without taking into account the results of operations of banks, budgetary institutions, the temporarily occupied territory of the Autonomous Republic of Crimea, the city of Sevastopol and a part of temporarily occupied territories in Donetsk and Luhansk regions.
2. Data are not made public in order to ensure compliance with the requirements of the Law of Ukraine "On Public Statistics" regarding the confidentiality of statistical information (primary and secondary blocking of vulnerable values).

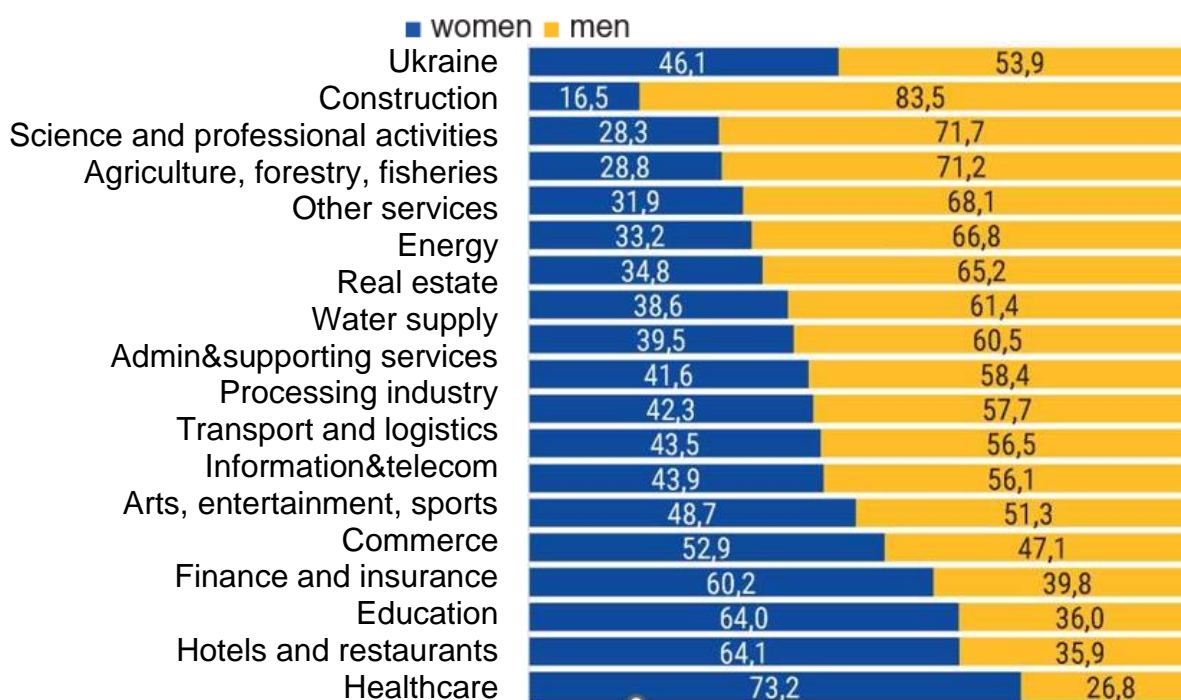
## Appendix 11

### Gender distribution of employees of the surveyed companies by company size, %



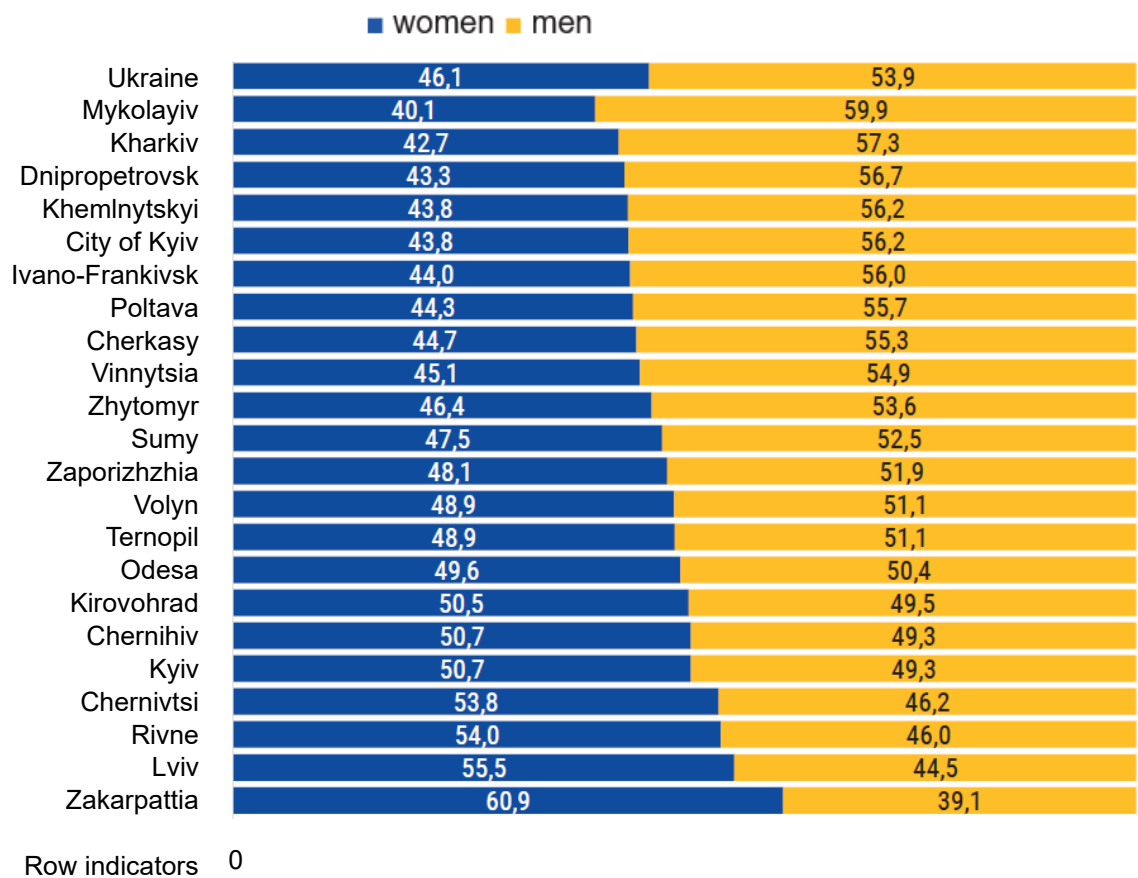
## Appendix 12

### Gender distribution of employees of the surveyed companies by type of economic activity, %



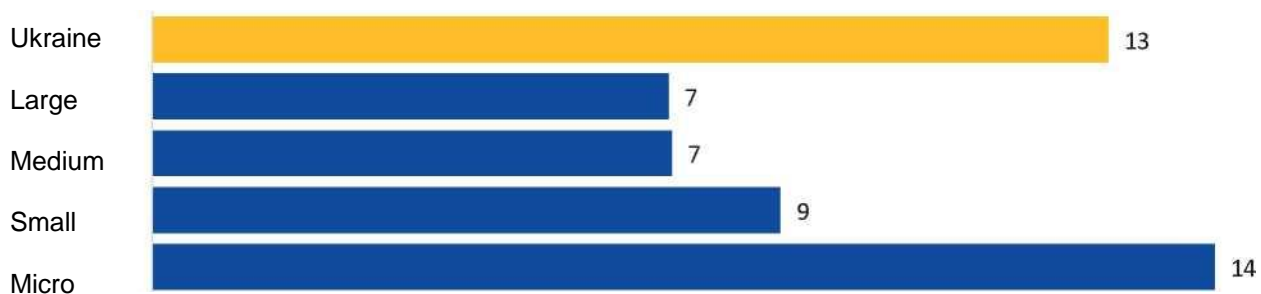
## Appendix 13

### Gender distribution of employees of the surveyed companies by region, %



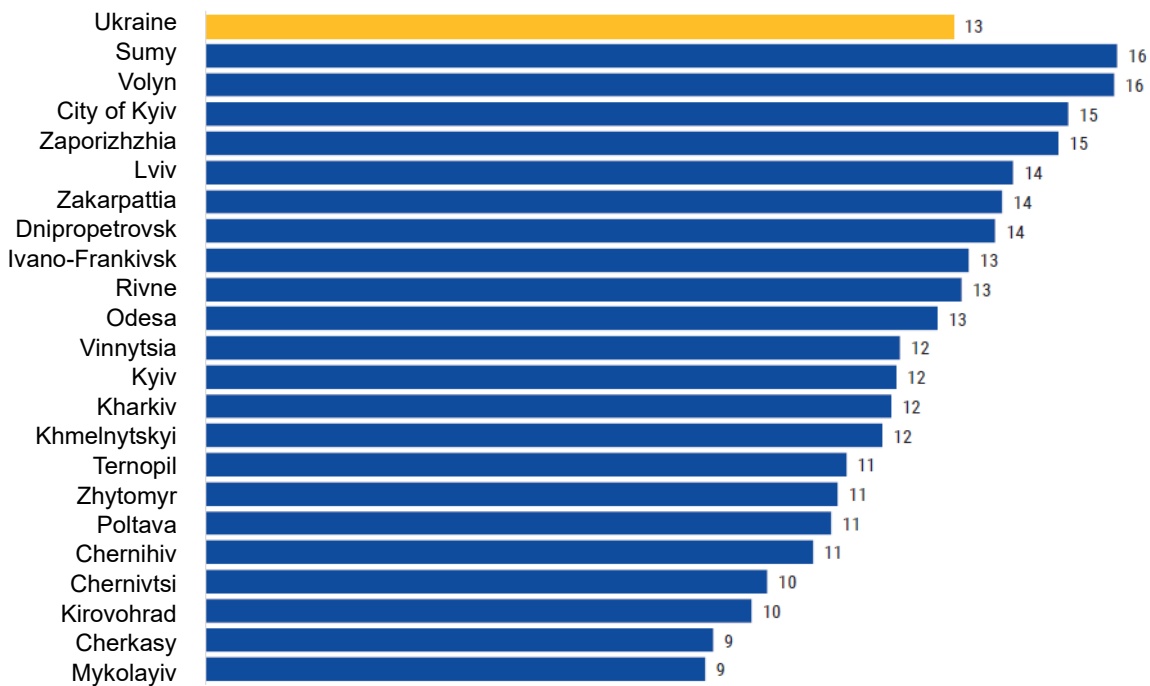
## Appendix 14

### Share of young people under the age of 25 in companies by company size, %



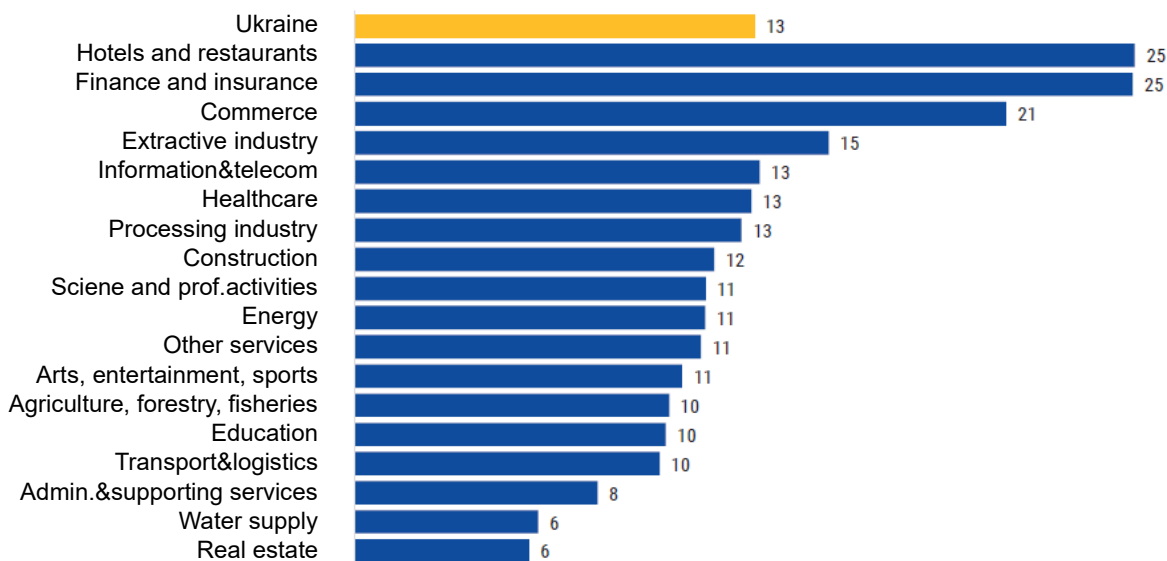
## Appendix 15

### Share of young people under the age of 25 in companies by region, %



## Appendix 16

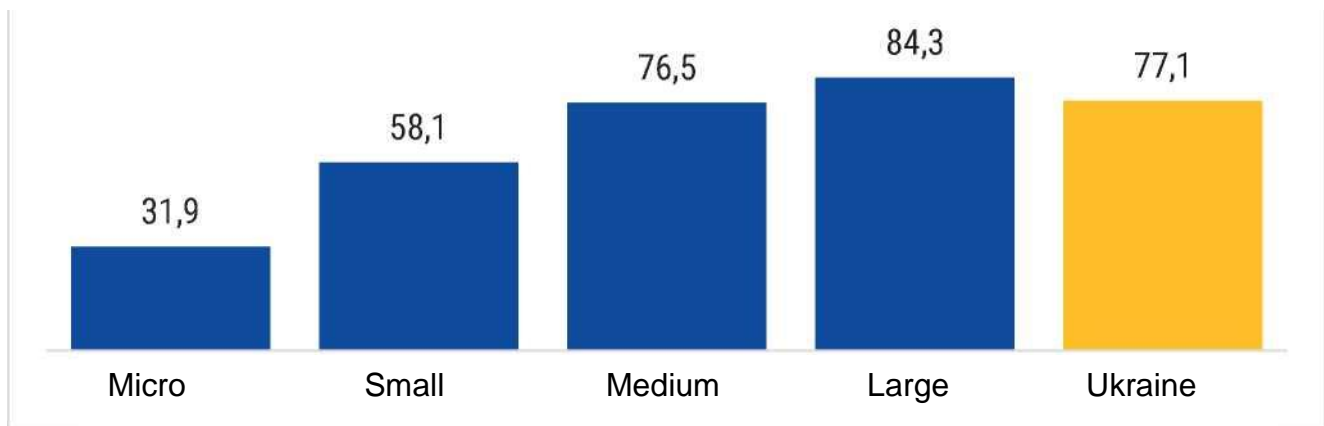
### Share of young people under the age of 25 in companies by type of economic activity, %





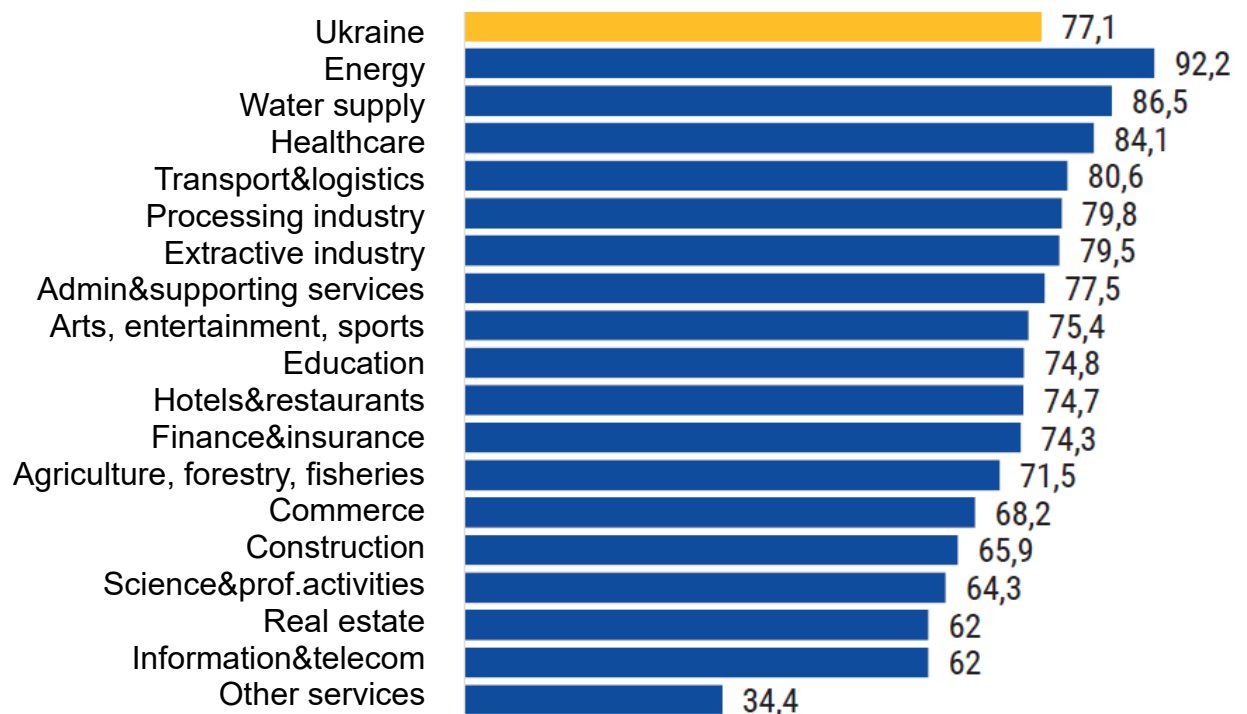
## Appendix 17

Share of companies that hired employees during 2022, by company size, %



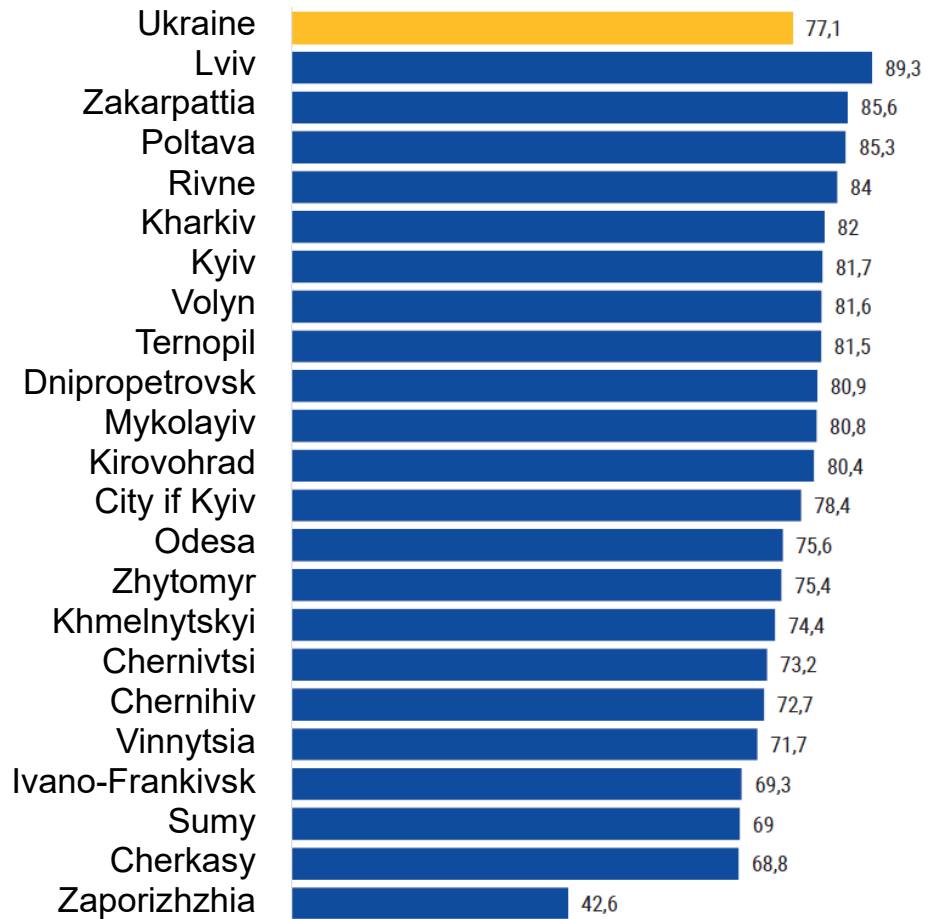
## Appendix 18

Share of companies that hired employees in 2022, by type of economic activity, %



# Appendix 19

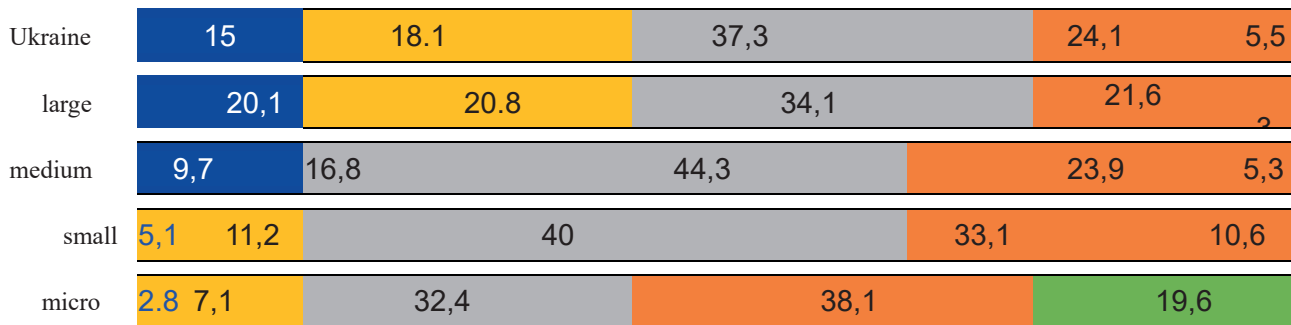
## Share of companies that hired employees in 2022, by region, %



## Appendix 20

### Estimate of additional recruitment in the next 6 months by company size, %

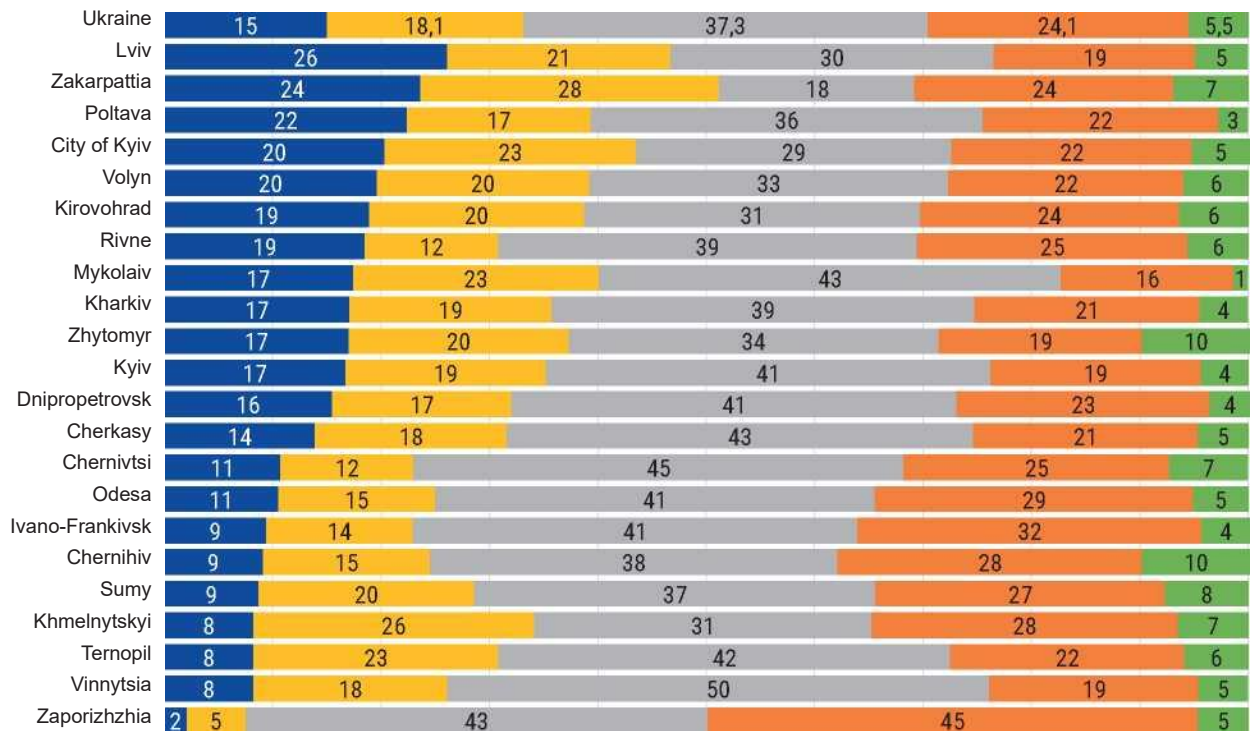
■ definitely yes ■ rather yes ■ difficult to respond ■ rather no ■ definitely no



## Appendix 21

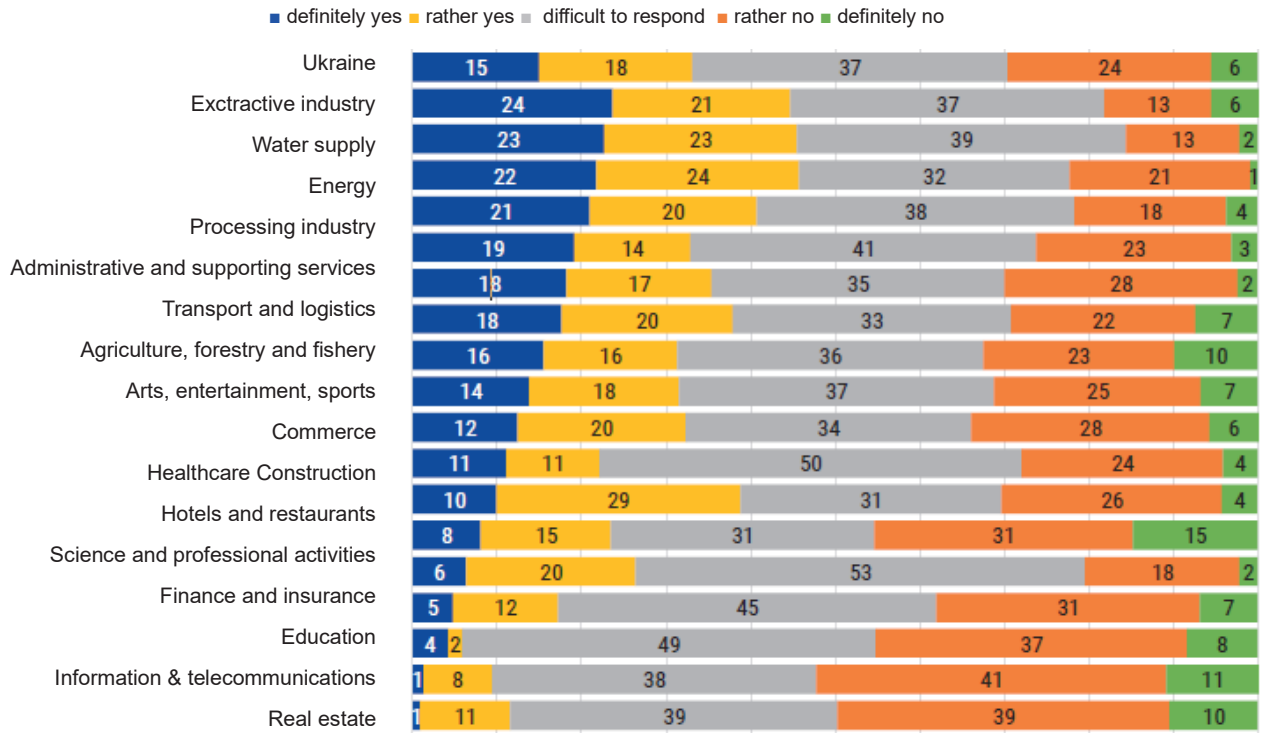
### Estimate of the additional recruitment in the next 6 months by region, %

■ definitely yes ■ rather yes ■ difficult to respond ■ rather no ■ definitely no



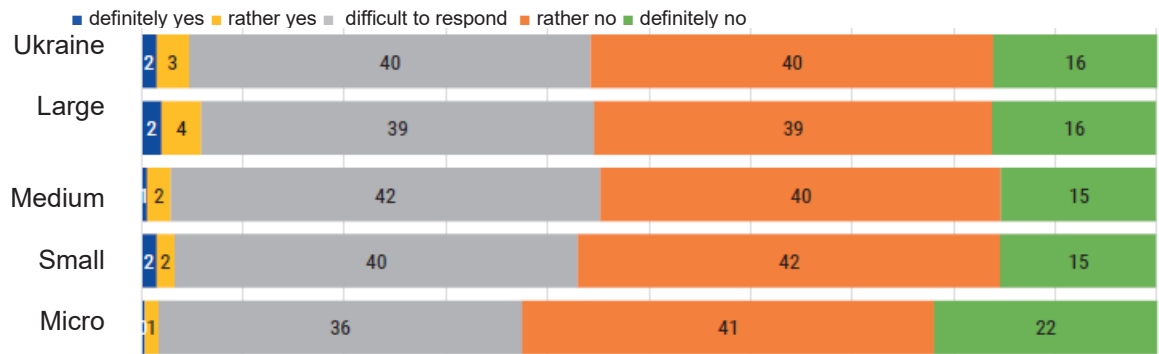
## Appendix 22

### Estimate of additional recruitment in the next 6 months by type of economic activity, %



## Appendix 23

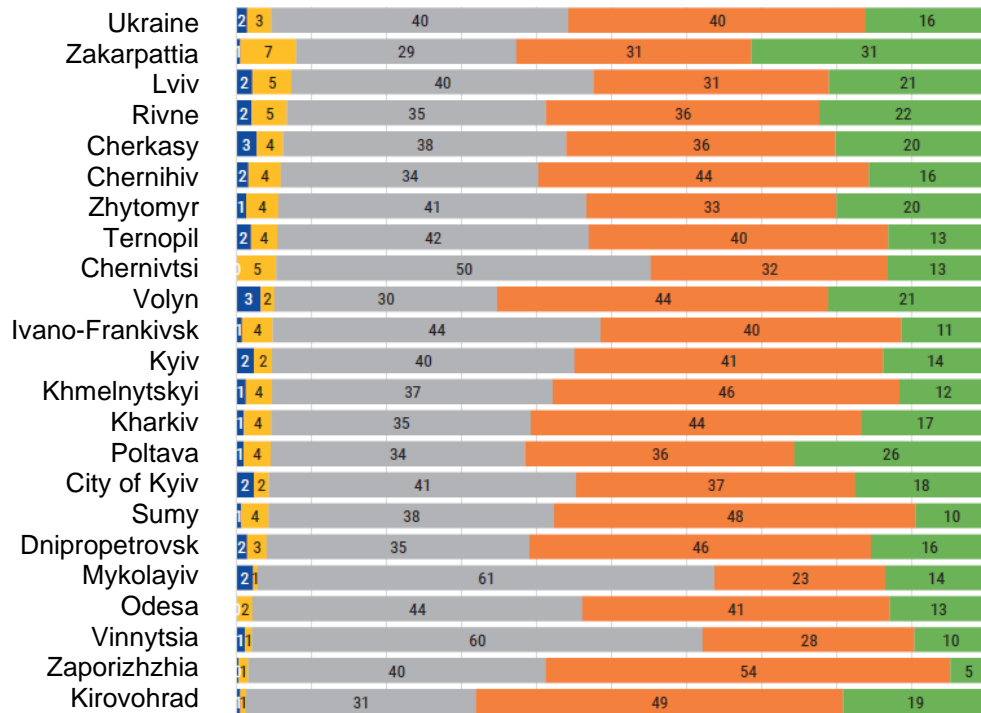
### Estimate of personnel cuts in the next 6 months by company size, %



## Appendix 24

### Estimate of personnel cuts in the next 6 months by region, %

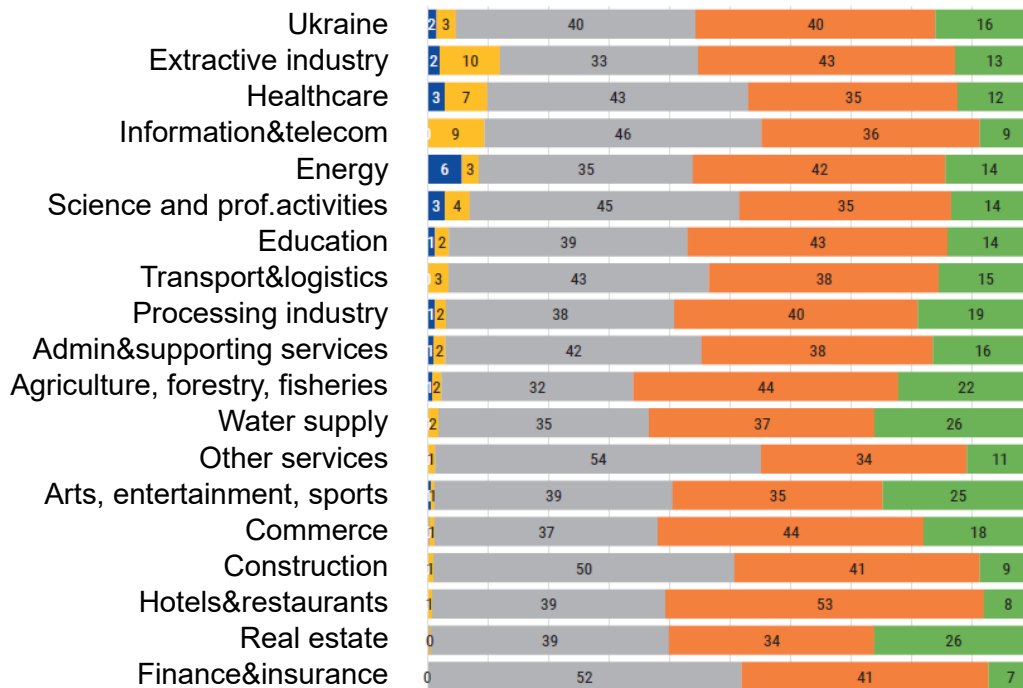
■ definitely yes ■ rather yes ■ difficult to respond ■ rather no ■ definitely no



## Appendix 25

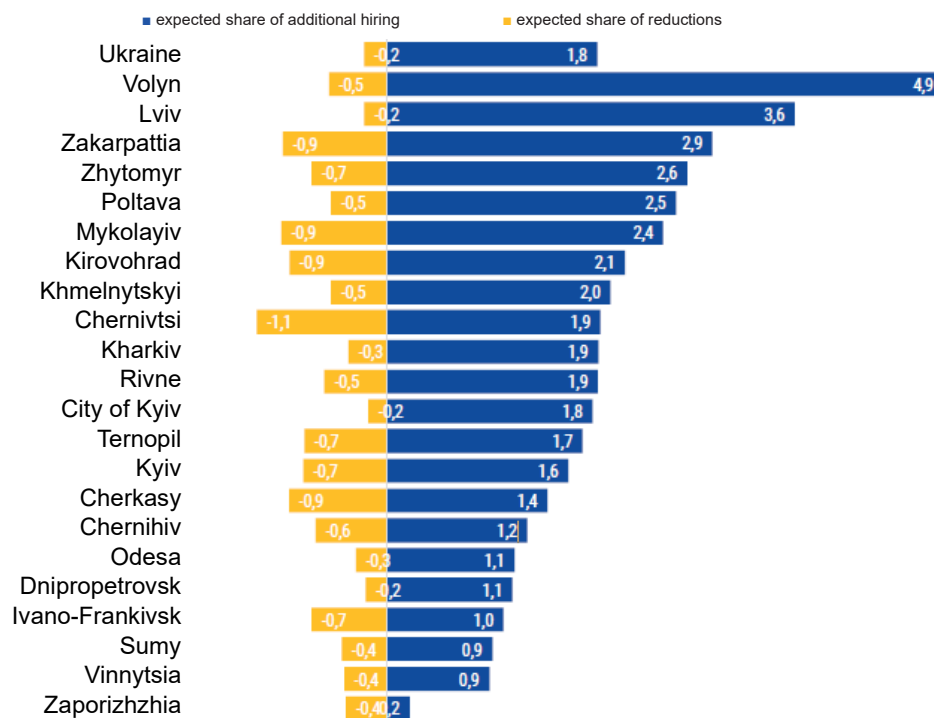
### Estimate of personnel cuts in the next 6 months by type of economic activity, %

■ definitely yes ■ rather yes ■ difficult to respond ■ rather no ■ definitely no



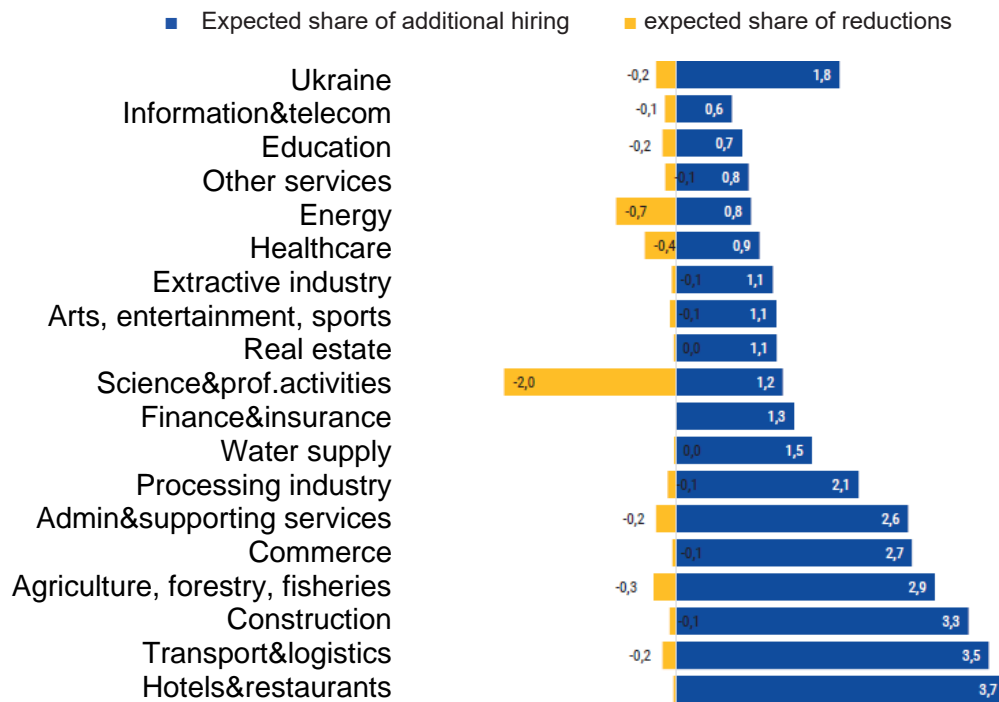
## Appendix 26

### Share of expected additional recruitment and reduction of the current number of employees by region, %



## Appendix 27

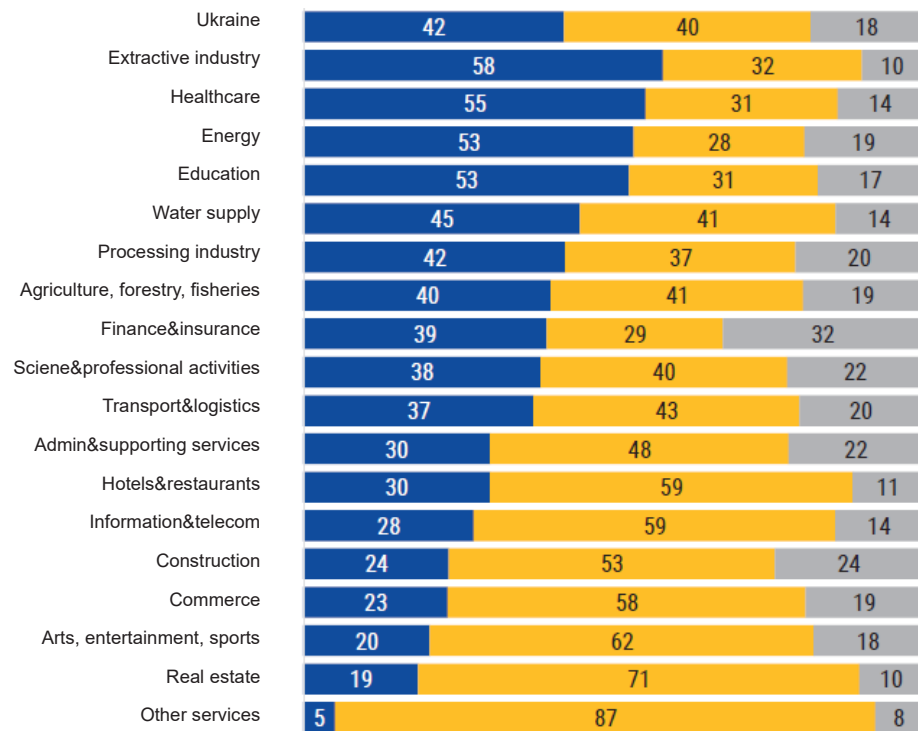
### Share of expected additional recruitment and reduction of the current number of employees by type of economic activity, %



## Appendix 28

### Share of companies that provided training for employees, by type of economic activity, %

■ provided training ■ did not provide training ■ difficult to respond

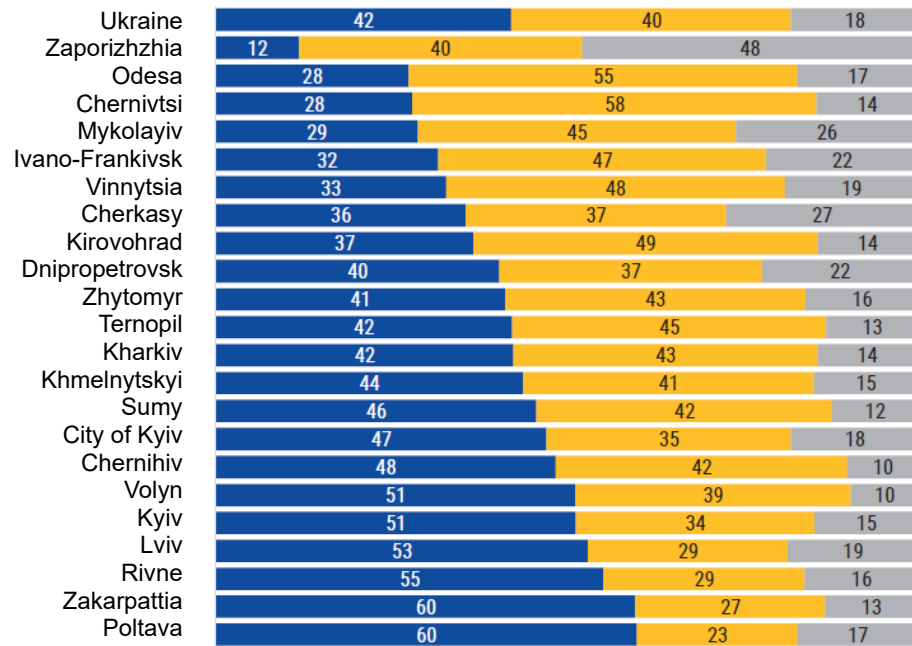




## Appendix 29

### Share of companies that provided training for employees, by region, %

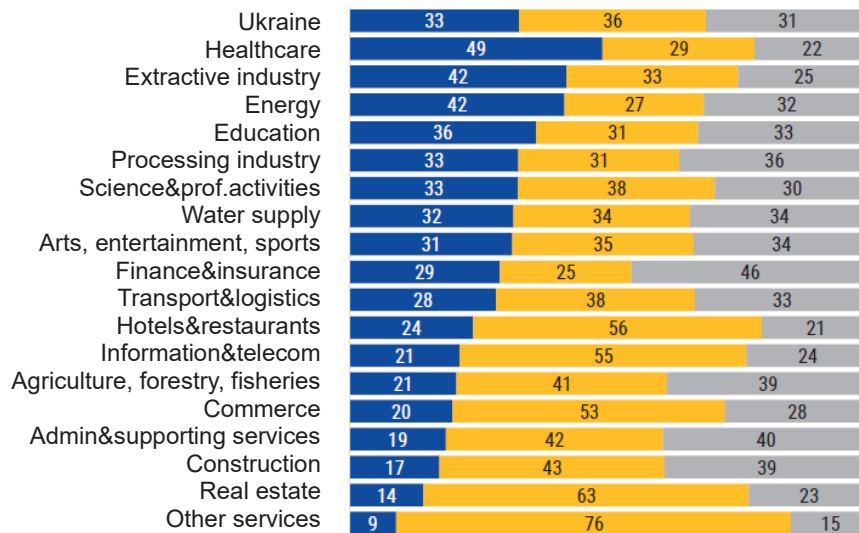
■ provided training ■ did not provide training ■ difficult to respond



## Appendix 30

### Training needs in 2023 by type of economic activity, %

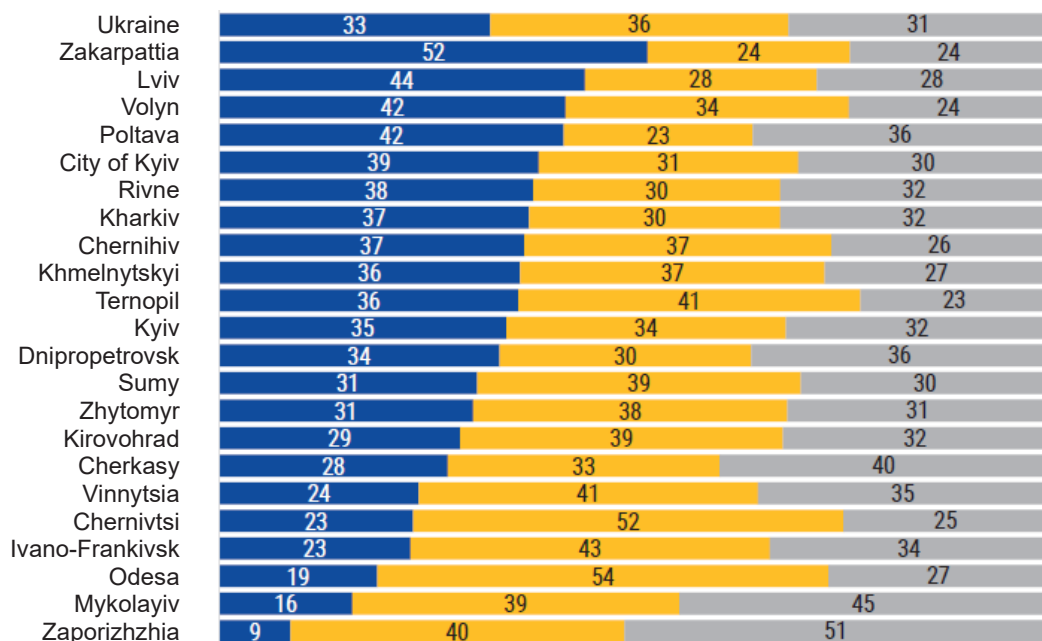
■ need training in 2023 ■ do not need training in 2023 ■ difficult to respond



## Appendix 31

### Training needs in 2023 by region, %

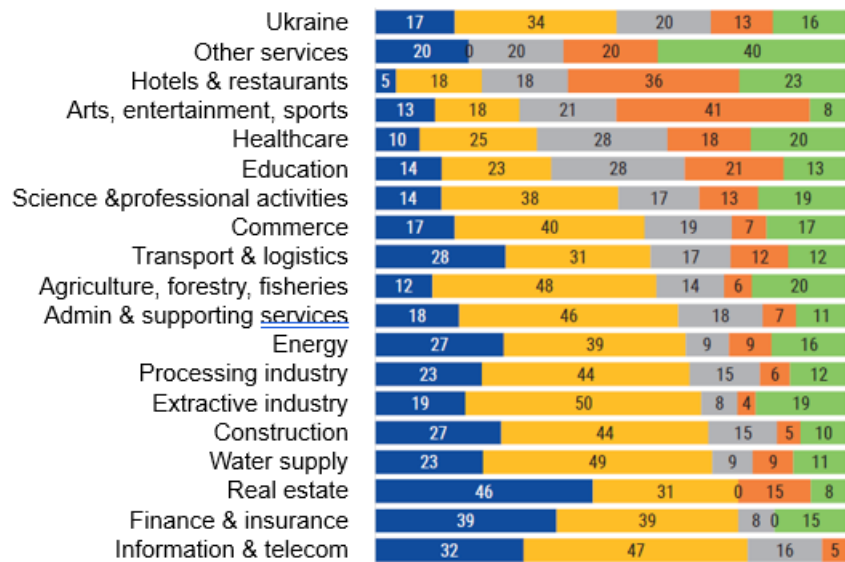
■ need training in 2023. ■ do not need training in 2023 ■ difficult to respond



# Appendix 32

## Assessment of possibilities for self-financing employee training in 2023 by type of economic activity, %

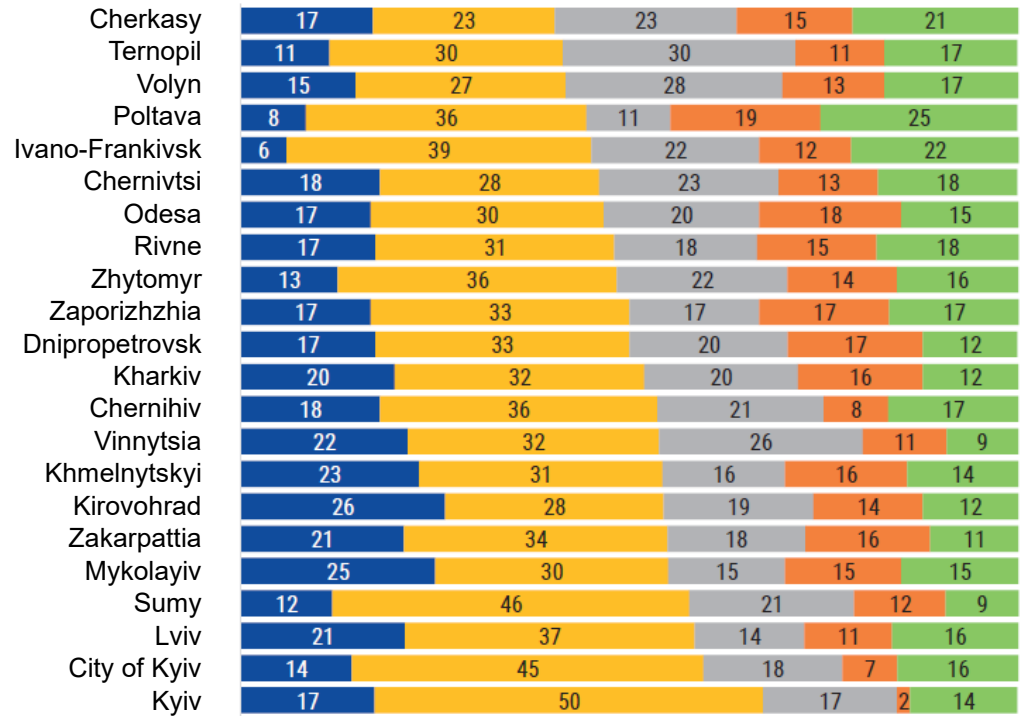
■ definitely yes ■ rather yes ■ rather no ■ definitely no ■ difficult to say



## Appendix 33

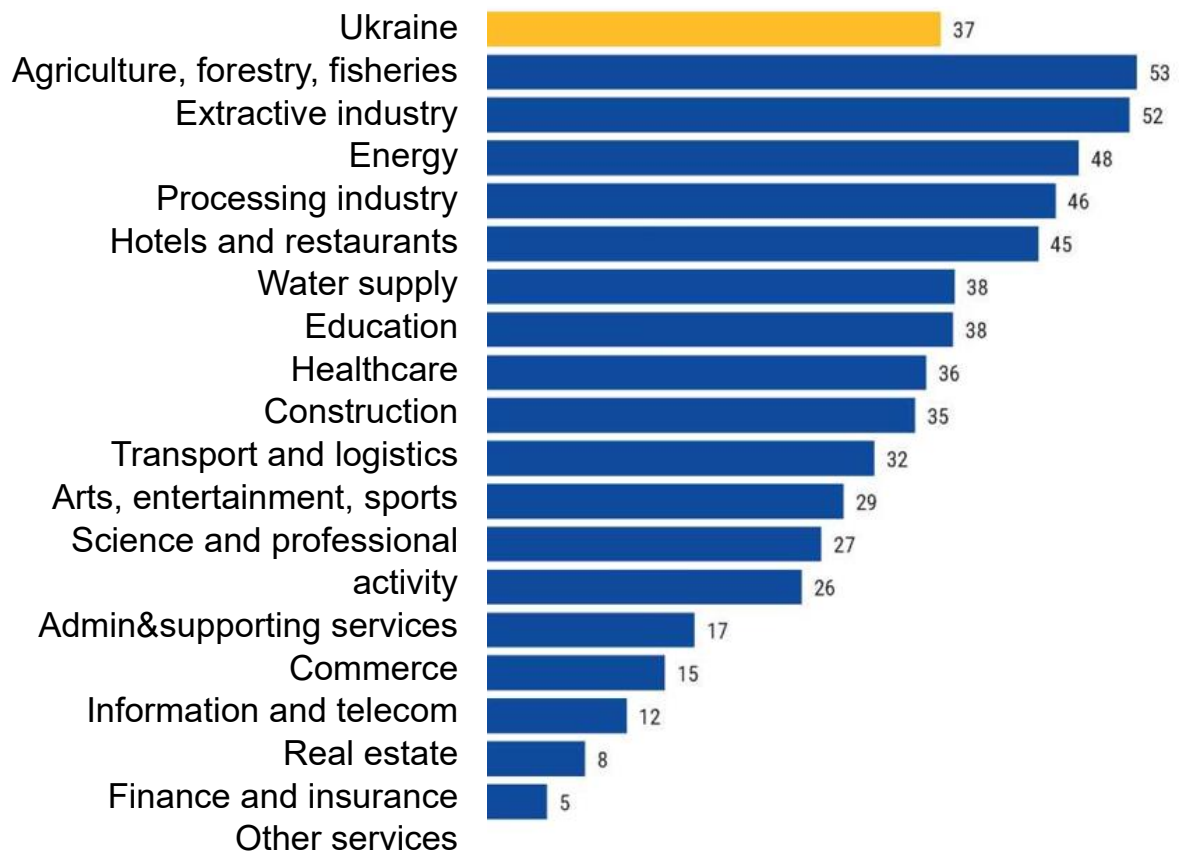
### Assessment of possibilities for self-financing employee training in 2023 by region, %

■ definitely yes ■ rather yes ■ rather no ■ definitely no ■ difficult to say



## Appendix 34

### Cooperation with vocational education institutions by types of economic activity, %



## Appendix 35

### Cooperation with vocational education institutions by region, %

