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Graduates of education in the Czech Republic. What share work in education and what affects that?

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Emergency in Education

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- ▶ **Data**
- ▶ **How to define teacher/education field of study?**
- ▶ **Structure of graduates of teachers training and education**
- ▶ **How to define teacher/education occupation?**
- ▶ **Graduates of teacher/education FoS working in teacher/education occupation**
- ▶ **What effects that?**

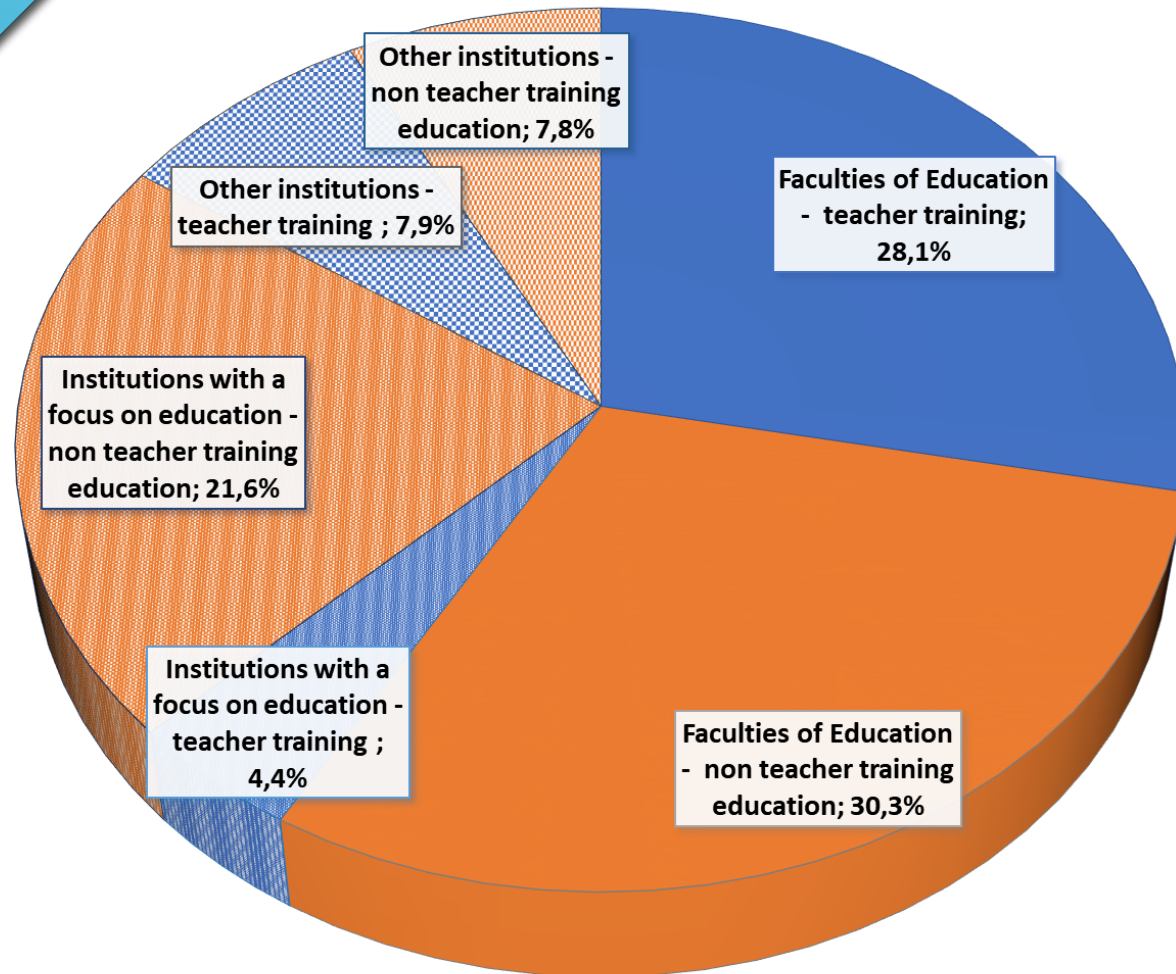
- ▶ Absolvent 2018 (Graduate 2018)
- ▶ Questionnaires were collected in fall of 2018
- ▶ Target group – people who graduated from HEIs in 2013–17 (and had therefore received their degree one to five years previous) and who were no longer enrolled in a degree programme; graduates of bachelor (ISCED 6), master (ISCED 7) and Ph.D. (ISCED 8) study programme.
- ▶ A total of 37 HEIs took part in the survey: 23 public HEIs and 14 private HEIs.
- ▶ In total 21,116 filled-in questionnaires were collected.
- ▶ 1 639 graduates of “teacher training” field of study and 2 156 “non teacher training education” field of study.

DATA

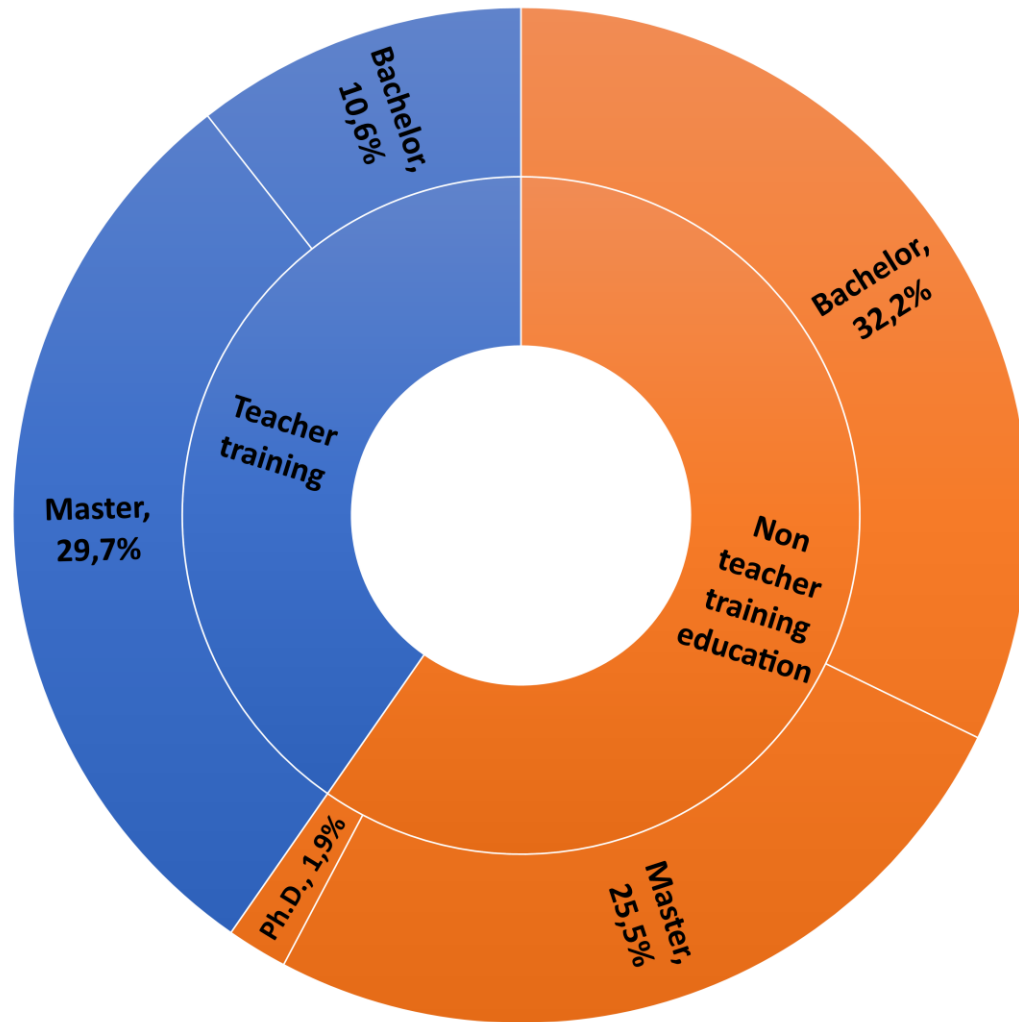
- ▶ Objective: defining teacher training and non teacher training education fields of study
- ▶ The definition of teacher training and (more generally) education fields of study has proven to not to be an easy task, especially due to the historically not completely systematic classification of study programs and study fields.
- ▶ Teacher training – all study programs or study fields that included in its name “Teacher”, “Teaching” etc.
- ▶ Non teacher training education – all other education study programs or study fields except teacher training (for example Social pedagogy, Special education, Specialization in pedagogy, different subjects with a focus on education, etc.)

HOW TO DEFINE TEACHER/EDUCATION FIELD OF STUDY?

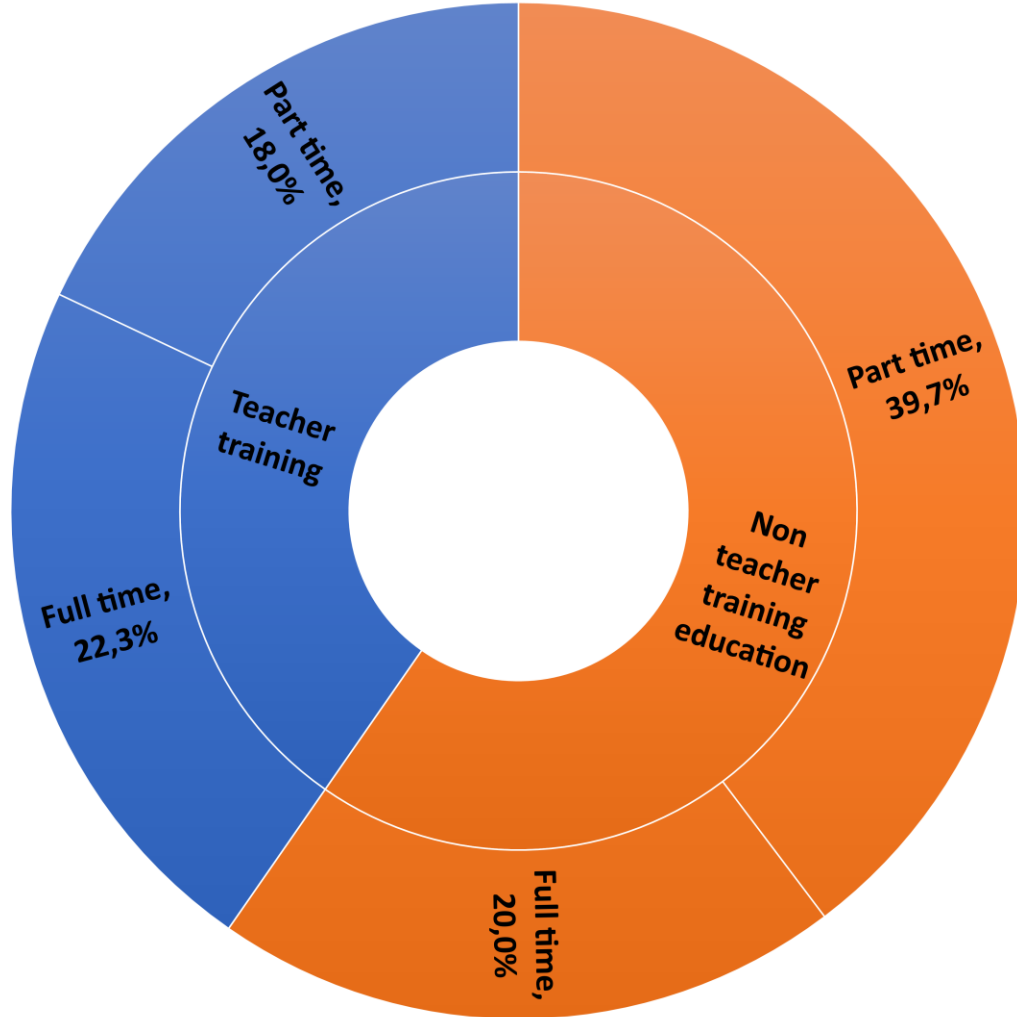
STRUCTURE OF GRADUATES OF TEACHERS TRAINING AND EDUCATION



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ISCO 08 - International Standard Classification of Occupations

Education occupations

Teaching occupations

2310 University and higher education teachers

2320 Vocational education teachers

2330 Secondary education teachers

2341 Primary school teachers

2342 Early childhood educators

2352 Special needs teachers

2353 Other language teachers

2354 Other music teachers

2355 Other arts teachers

2356 Information technology trainers

Education managers occupations

1341 Child care services managers

1345 Education managers

Other education occupations

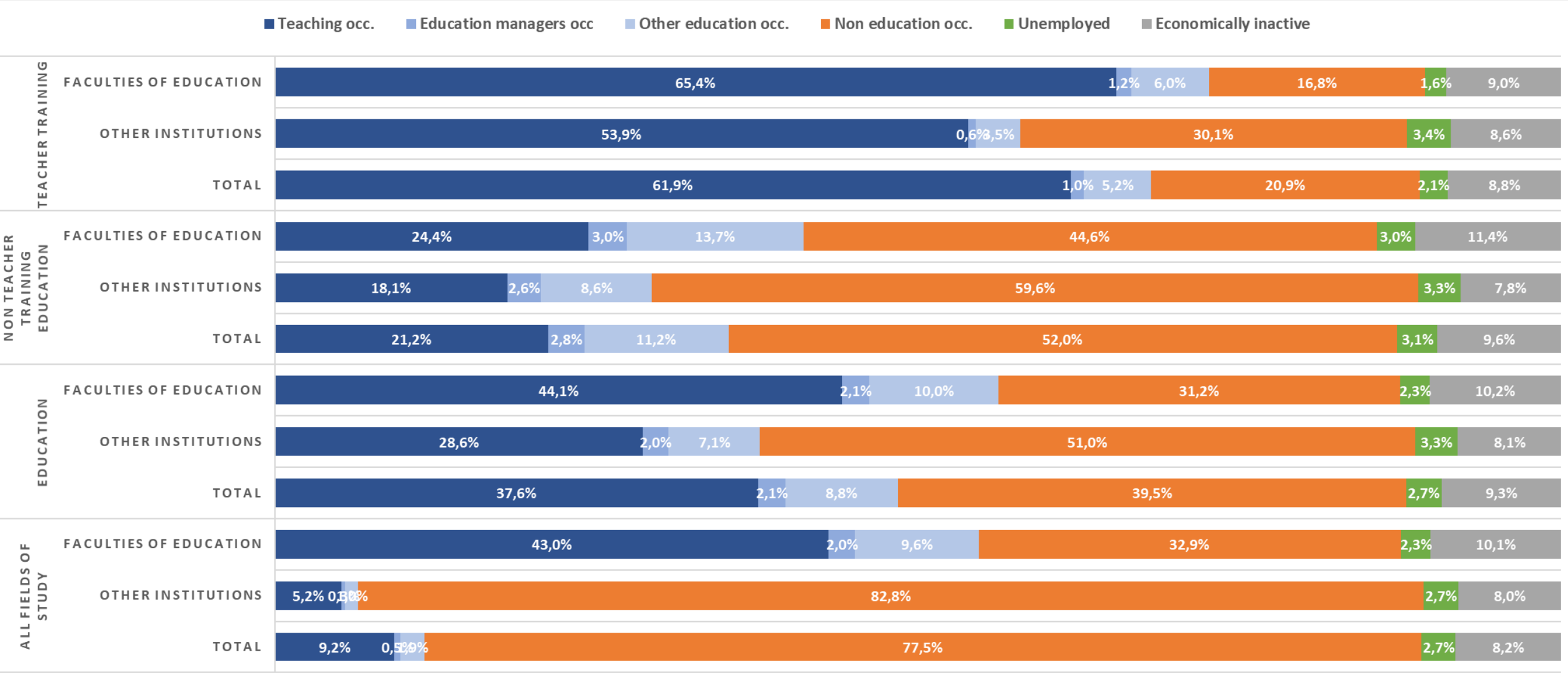
2351 Education methods specialists

2359 Teaching professionals not elsewhere classified

5312 Teachers' aides

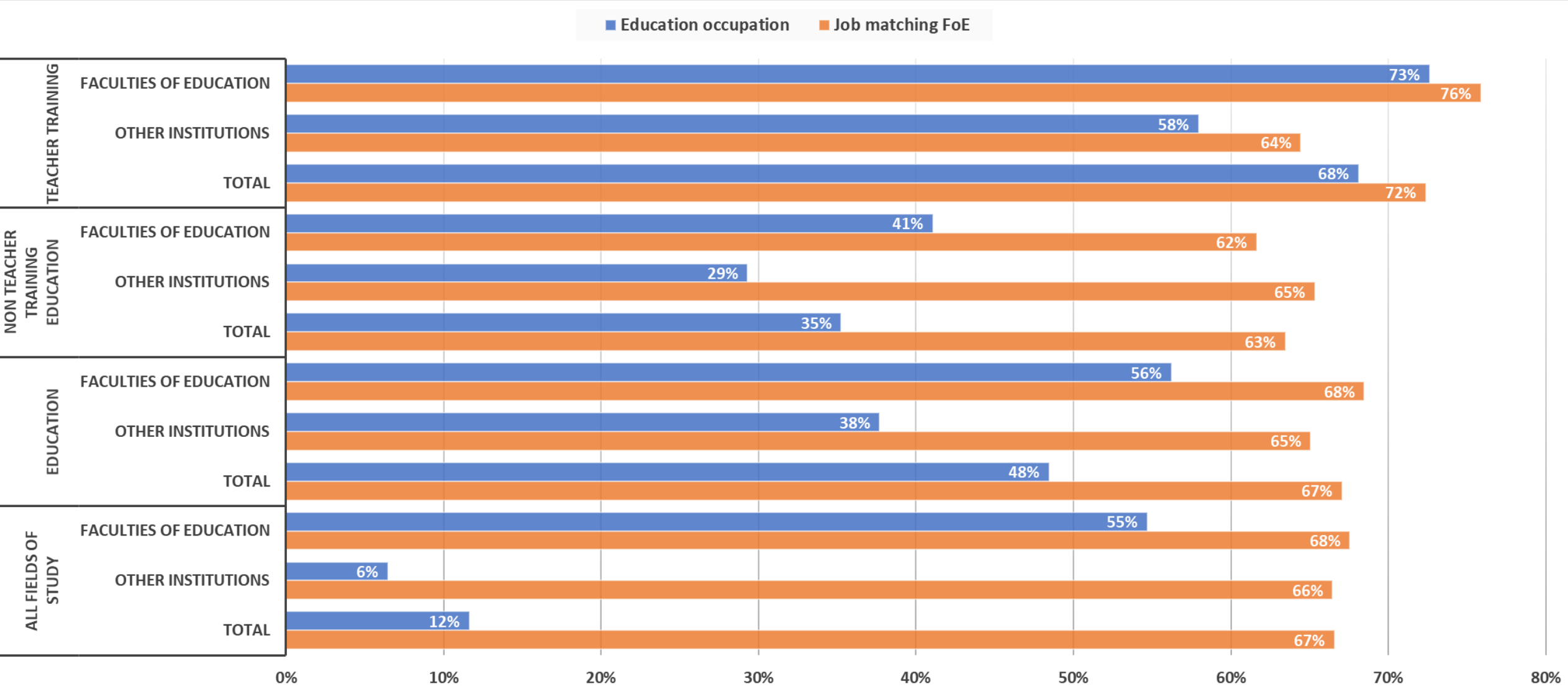
HOW TO DEFINE TEACHER/EDU CATION OCCUPATION?

Share of HE graduates according to their type of occupation and job status 1 year after graduation



GRADUATES OF TEACHER/EDUCATION FOS WORKING IN TEACHER/EDUCATION OCCUPATION

Share of HE graduates working in education occupation and in their field of study



GRADUATES OF TEACHER/EDUCATION FOS WORKING IN TEACHER/EDUCATION OCCUPATION

Share of HE graduates according to their occupation

Type of occ.	ISCO - 08	Teacher training	Non teacher training education
Teaching	2310 University and higher education teachers	0,2%	1,3%
	2320 Vocational education teachers	8,6%	3,5%
	2330 Secondary education teachers	24,9%	2,9%
	2341 Primary school teachers	14,9%	1,3%
	2342 Early childhood educators	11,6%	7,8%
	2352 Special needs teachers	6,5%	5,0%
	2353 Other language teachers	1,4%	0,7%
	2354 Other music teachers	0,6%	1,0%
Education managers	1341 Child care services managers	0,5%	1,7%
	1345 Education managers	0,7%	1,3%
Other education	2359 Teaching professionals not elsewhere classified	3,9%	10,0%
	5312 Teachers' aides	2,6%	2,7%
Other	1212 Human resource managers	0,1%	1,2%
	1344 Social welfare managers	0,0%	1,0%
	2266 Audiologists and speech therapists	0,1%	1,4%
	2423 Personnel and careers professionals	0,3%	1,6%
	2635 Social work and counselling professionals	0,6%	9,5%
	3313 Accounting associate professionals	0,5%	2,2%
	3341 Office supervisors	0,2%	1,2%
	3343 Administrative and executive secretaries	0,6%	1,8%
	3355 Police inspectors and detectives	0,8%	2,4%
	3412 Social work associate professionals	0,4%	5,9%
	4110 General office clerks	1,1%	2,1%
	4416 Personnel clerks	0,2%	1,5%
	4419 Clerical support workers not elsewhere classified	0,3%	1,7%

GRADUATES OF TEACHER/EDUCATION FOS WORKING IN
TEACHER/EDUCATION OCCUPATION

Multinomial logistic estimated effects on the probability that graduates of education field of study will not work in education occupation

Education occupation as reference category	Non education occupation				Economically inactive		
	Odds ratio	Sig.	SE		Odds ratio	Sig.	SE
<i>Demographics</i>							
Male (ref. Female)	1,822	***	0,199		0,452	**	0,156
Age at the graduation	0,985	**	0,006		0,818	***	0,018
<i>HE studies</i>							
Master SP (ref. bachelor SP)	0,998		0,088		1,249		0,212
Part-time (ref. full time)	1,167		0,130		2,146	***	0,420
Non-teaching education FoS (ref. teaching FoS)	5,887	***	0,546		2,087	***	0,349
Other faculties (ref. faculties of education)	1,767	***	0,152		0,891		0,158
<i>Year of graduation (ref. 2017)</i>							
2013	1,687	***	0,230		0,753		0,192
2014	1,331	**	0,178		0,880		0,206
2015	1,113		0,150		0,625	**	0,155
2016	1,219		0,161		0,828		0,186
<i>Mobility (ref. moved to other region)</i>							
Stayed at the region of faculty	1,330	***	0,115		0,946		0,154
<i>Region (ref. Prague and Central Bohemia)</i>							
Southwest	1,048		0,155		1,762	**	0,462
Northwest	0,821		0,131		0,568		0,215
Northeast	1,228		0,202		1,063		0,323
Southeast	1,566	***	0,207		1,665	**	0,399
Central Moravia	1,303	**	0,173		0,787		0,224
Moravian-Silesian	0,827		0,124		0,604	*	0,191
Foreign countries	3,739	***	1,222		3,971	***	1,880
Nagelkerke Pseudo R-Square	0,309						
N	3428						
*p < 0,10; **p < 0,05; ***p < 0,01							

WHAT EFFECTS THAT?

Multinomial logistic estimated effects on the probability that graduates of teacher training FoS will not work in education occupation

Education occupation as reference category	Non education occupation				Economically inactive		
	Odds ratio	Sig.	SE		Odds ratio	Sig.	SE
<i>Demographics</i>							
Male (ref. Female)	1,910	***	0,316		0,324	**	0,177
Age at the graduation	0,979	*	0,012		0,814	***	0,030
<i>HE studies</i>							
Master SP (ref. bachelor SP)	0,876		0,168		1,010		0,311
Part-time (ref. full time)	1,689	**	0,363		3,193	***	1,075
Non-teaching education FoS (ref. teaching FoS)							
Other faculties (ref. faculties of education)	1,741	***	0,268		1,199		0,327
<i>Year of graduation (ref. 2017)</i>							
2013	2,486	***	0,585		0,568		0,228
2014	1,551	*	0,371		0,946		0,307
2015	1,590	**	0,372		0,546	*	0,205
2016	1,106		0,264		0,727		0,233
<i>Mobility (ref. moved to other region)</i>							
Stayed at the region of faculty	1,534	***	0,240		0,749		0,185
<i>Region (ref. Prague and Central Bohemia)</i>							
Southwest	1,218		0,286		1,641		0,623
Northwest	0,235	***	0,103		0,379	*	0,240
Northeast	1,067		0,330		0,820		0,401
Southeast	1,426	*	0,314		1,058		0,382
Central Moravia	0,781		0,199		0,655		0,272
Moravian-Silesian	0,853		0,221		0,480	*	0,242
Foreign countries	5,362	***	2,615		3,543	**	2,259
Nagelkerke Pseudo R-Square	0,200						
N	1524						
*p < 0,10; **p < 0,05; ***p < 0,01							

WHAT EFFECTS THAT?

Multinomial logistic estimated effects on the probability that graduates of non teacher training educ. FoS will not work in educ. occupation

Education occupation as reference category	Non education occupation				Economically inactive		
	Odds ratio	Sig.	SE		Odds ratio	Sig.	SE
<i>Demographics</i>							
Male (ref. Female)	1,809	***	0,274		0,657		0,336
Age at the graduation	0,988	*	0,006		0,815	***	0,023
<i>HE studies</i>							
Master SP (ref. bachelor SP)	0,995		0,103		1,260		0,281
Part-time (ref. full time)	0,969		0,134		1,707	**	0,443
Non-teaching education FoS (ref. teaching FoS)							
Other faculties (ref. faculties of education)	1,869	***	0,206		0,766		0,189
<i>Year of graduation (ref. 2017)</i>							
2013	1,373	*	0,239		0,927		0,346
2014	1,198		0,204		0,788		0,289
2015	0,939		0,162		0,652		0,240
2016	1,305		0,223		0,938		0,320
<i>Mobility (ref. moved to other region)</i>							
Stayed at the region of faculty	1,251	**	0,138		1,170		0,268
<i>Region (ref. Prague and Central Bohemia)</i>							
Southwest	0,889		0,170		1,907	*	0,755
Northwest	1,219		0,241		0,870		0,477
Northeast	1,343		0,276		1,281		0,554
Southeast	1,648	***	0,285		2,500	***	0,871
Central Moravia	1,743	***	0,293		0,924		0,401
Moravian-Silesian	0,805		0,151		0,668		0,304
Foreign countries	2,211	*	1,035		2,684		2,741
Nagelkerke Pseudo R-Square	0,194						
N	1904						
*p < 0,10; **p < 0,05; ***p < 0,01							

WHAT EFFECTS THAT?

- ▶ Graduates of Education – heterogenous, not just teacher training and faculties of education
- ▶ Share of graduates working in education occupations vary greatly depending on the group of graduates we ask
 - ▶ Graduates of teacher training at faculties of education - 72,6% of all (81,2 % of working)
 - ▶ Graduates of teacher training - 68,1 % of all (76,5 % of working)
 - ▶ Graduates of faculties of education - 54,7 % of all (62,5 % of working)
 - ▶ Graduates of education - 48,5 % of all (55,1 % of working)
- ▶ Number of factors effects the likelihood of working or not working in education, in particular:
 - ▶ Field of education
 - ▶ Type of faculty
 - ▶ Sex
 - ▶ Year of graduation
 - ▶ Interregional mobility
 - ▶ Region

SUMMARY