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THE PLATFORMISATION OF WORK IN EUROPE

Results from research in 13 European countries

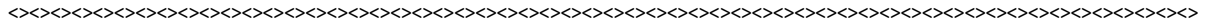
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For highlights from the report, please go to www.feps-europe.eu, and consult “The Platformisation of Work in Europe. Highlights from Research in 13 European Countries”.



CONTENTS

Executive summary	1
Introduction.....	3
Participation in the online economy	4
Platform work is usually a supplement to other earnings.....	12
Who is doing platform work?	19
Digitalisation of work organisation and management	26
Conclusions.....	32
Questions for policymakers.....	32
Appendix 1.....	36
Appendix 2. Survey methodology.....	47
Appendix 3. Methodology for qualitative research.....	54



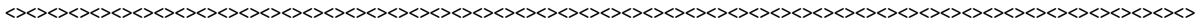
EXECUTIVE SUMMARY

This report summarises the results of 14 surveys carried out in 13 European countries between January 2016 and May 2019 designed to explore the extent and characteristics of platform work.

The research was funded by the European Foundation for Progressive Studies (FEPS) in collaboration with UNI Europa, with co-funding at national level from Unionen in Sweden, the TNO Research Institute in the Netherlands, The Chamber of Labour (AK) in Austria, ver.di and IG Metall in Germany, syndicom in Switzerland, the Fondazione EYU in Italy, the Estonian Parliament (Riigikogu) in Estonia, the Kalevi Sorsa Foundation and Service Union United (PAM), in Finland, the Felipe Gonzalez Foundation in Spain, Progresiva in Slovenia, the Masarykova demokratická akademie and the Friedrich-Ebert-Stiftung office in Prague in Czechia, the Trades Union Congress (TUC) in the UK and the Fondation Jean-Jaurès in France. The research was designed and directed by the University of Hertfordshire. Fieldwork for the surveys was carried out by Ipsos MORI, who were responsible for data collection only, and its national affiliates. The University of Hertfordshire was responsible for the analysis, reporting and interpretation of the results. Online surveys were carried out in the UK, Sweden, Netherlands, Germany and Austria in 2016, in Italy and Switzerland in 2017, in Estonia, Finland and Spain in 2018 and in France, Slovenia and Czechia in 2019. A second UK survey was also carried out in 2019, with co-funding from the Trades Union Congress, in order to measure changes that had taken place since 2016. In addition, a face-to-face survey was carried out in the UK in 2017 and a telephone survey in Switzerland in 2018 in order to test the effects of survey mode on the results. In-depth qualitative interviews were carried out by the University of Hertfordshire in the UK, Germany and Estonia with the aim of supplementing and explaining the results of the quantitative research.

Some key findings are:

- The online economy plays a large and increasingly important role in the economic life of Europeans, with many using it to generate extra income. The highest levels of online income generation are in Central and Eastern Europe (Czechia, Slovenia and Estonia) and in Southern Europe (Italy and Spain) and the lowest levels in Northern and Western Europe (France, Germany, Sweden, the Netherlands and the UK).
- Selling labour via online platforms is less important than selling possessions online, and in many countries also less important than selling self-made products or renting out rooms via online platforms. Nevertheless platform work plays a significant role, with the proportion of adults saying that they do some form of platform work at least weekly ranging from 4.7% in the UK and 4.9% in Sweden and the Netherlands (in 2016) to 28.5% in Czechia, (in 2019). Trend data from the UK show a significant growth, with an effective doubling (to 9.6%) between 2016 and 2019.
- Europeans are also major users of online platforms, with those using online taxi or delivery services at least annually ranging from 7.9% in the Netherlands to 41.8% in Czechia). At 40.0%, Czechs are also the most likely to use online platforms to obtain household services, followed by Spain at 33.4%. Demand for these is lowest, at 10%, in Germany. A very high proportion of those who work in the provision of such services are also customers from them, with 4.9% of the working age population both supplying these services at least weekly and purchasing them at least yearly. On average 90.6% of those providing taxi and delivery services and 83.8% of those providing household services at least weekly via online platforms were also customers for these services at least once a year.



- Platform work represents less than 10% of all income for the largest group of platform workers in all countries, with only a small minority saying that it constitutes all their income. This minority did nevertheless grow in the UK (the only country for which we have trend data) from 5.2% in 2016 to 9.4% in 2019. Despite this, the typical picture is one where the income from platform work is used to top up earnings from other sources.
- Most frequent platform workers are in full-time employment and are no more likely than other workers to describe themselves as self-employed
- Platform workers are somewhat more likely to be male than female, except in Italy where women (at 52.8%) narrowly outnumber men (at 47.2%) of those doing platform work at least weekly). The countries with the highest proportions of men in this group are Estonia (at 72.1%) and France (at 66.4%). In the UK, there were slightly more women than men doing platform work in 2016 (52.7%) but by 2019 this had reversed, with women constituting only 44.2% of weekly platform workers.
- Platform workers can be found in all age groups in all countries but it is more prevalent among the young, with a particularly strong dominance of young workers doing platform work in Estonia and Finland.
- Most platform workers report doing more than one kind of platform work. Those doing driving or delivery work range from 1.4% (in the Netherlands and Sweden) to 12.3% (in Czechia) of the adult population but in the UK this proportion increased from 1.5% to 5.1% between 2016 and 2019. In every country the proportion doing this kind of platform work is exceeded by those doing more hidden types of platform work providing household services in other people’s homes. This ranges from 2.4% in Sweden to 11.8% in Czechia. By far the most common type of platform work is carried out virtually, using online means. Consistent with the fact that such work is normally obtained via global platforms, it is unsurprising that by far the highest level of online platform work is to be found in countries where average earnings are relatively low compared with international competitors, with the highest levels in Czechia (at 23.5%), followed by Slovenia (at 15%), Spain (at 14.2%) and Italy (at 10.4%).
- A striking finding from these surveys is the extent to which the digital management practices associated with online platforms are pervading other forms of work and employment. The use of apps or websites to be notified when tasks are available or to log work that has been completed is widespread. These practices are at their lowest in Germany (at 13.1%) and exceed 50% only in Slovenia and Czechia. Nevertheless they appear to be growing rapidly, having risen from 15.8% to 27.2% between 2016 and 2019 in the UK (the only country for which we have trend data). Only a minority of those using these apps or websites are frequent platform workers, and in many countries (France, the UK, Finland, Estonia, Switzerland, Austria, the Netherlands and Sweden) even when occasional platform workers are added to those who do platform work at least weekly, their numbers are still exceeded by *non* platform workers using these practices. A similar pattern is found in the use of customer ratings (for which data were collected in only 6 countries in 2018 and 2019)

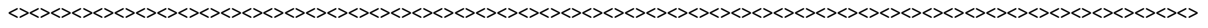
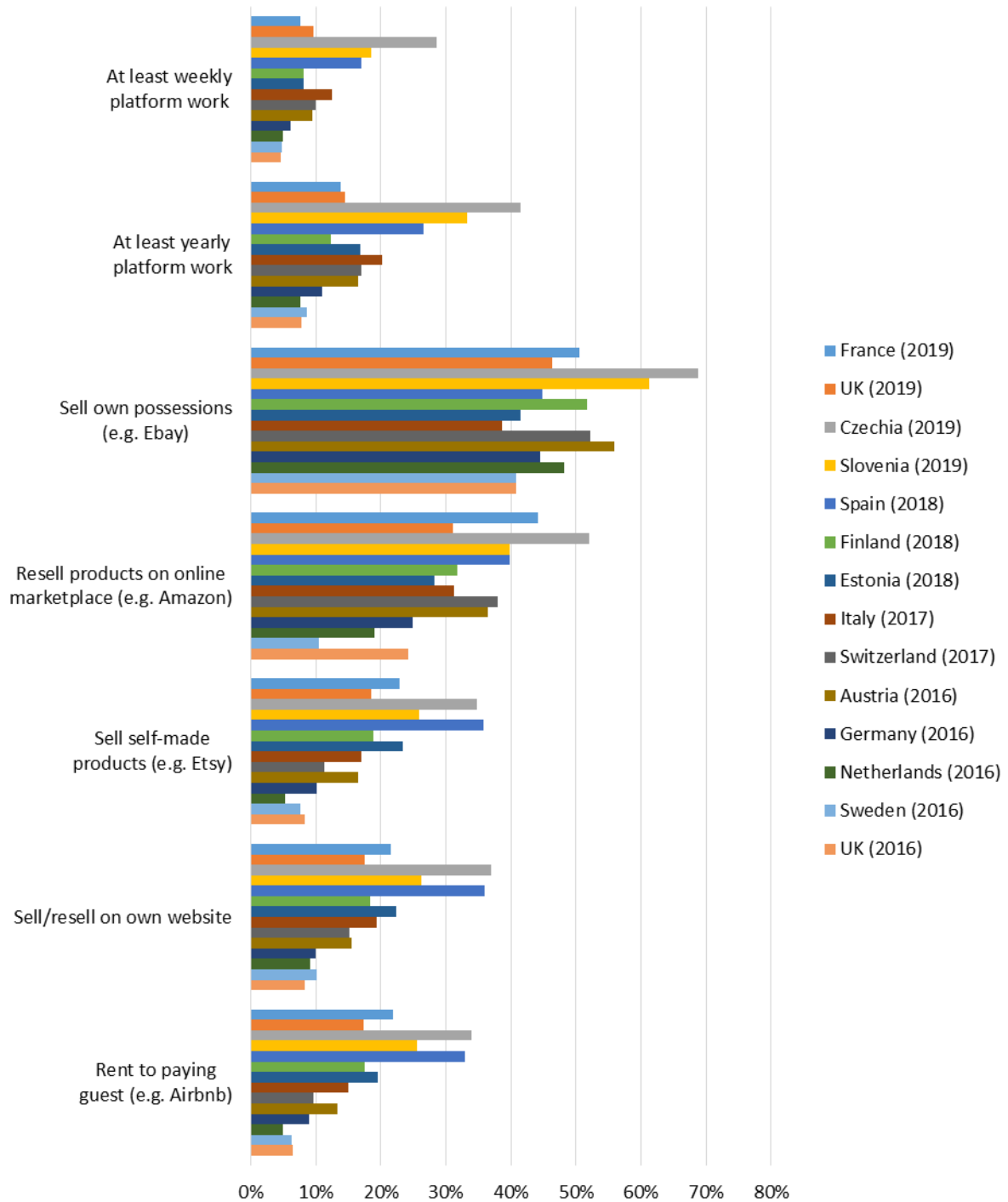
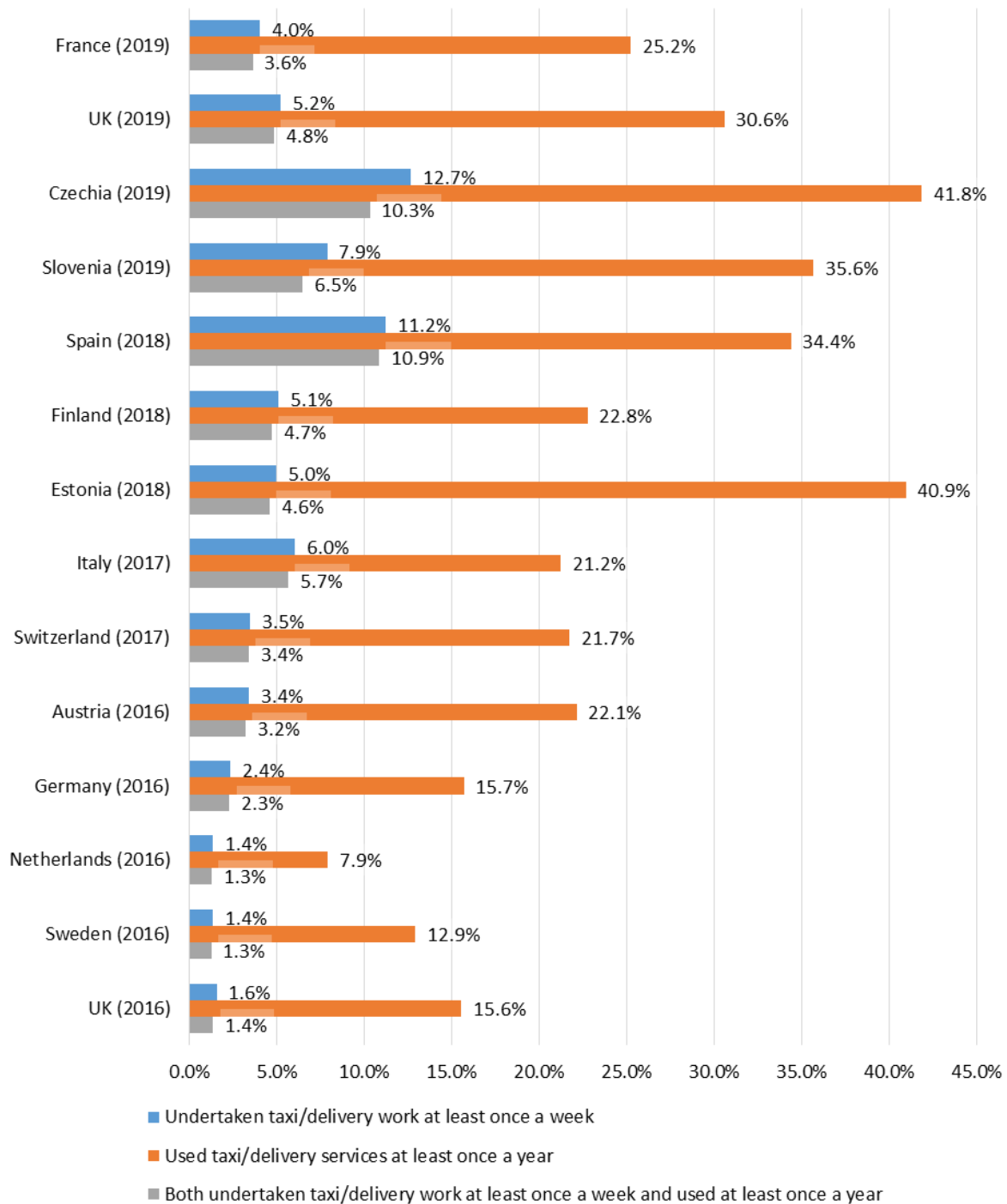


Figure 1. Participation in the online economy as a source of income (% of working population)



Base: 2159 respondents in France, 2235 in the UK 2019 survey, 2000 in Czechia, 2001 in Slovenia, 2182 in Spain, 2000 in Finland, 2000 in Estonia, 2199 in Italy, 2001 in Switzerland, 1969 in Austria, 2180 in Germany, 2125 in the Netherlands, 2146 in Sweden and 2238 in the UK 2016 survey (weighted).

Figure 2. Undertaking taxi/delivery work and finding someone to do such work at least once a year (% of working population)

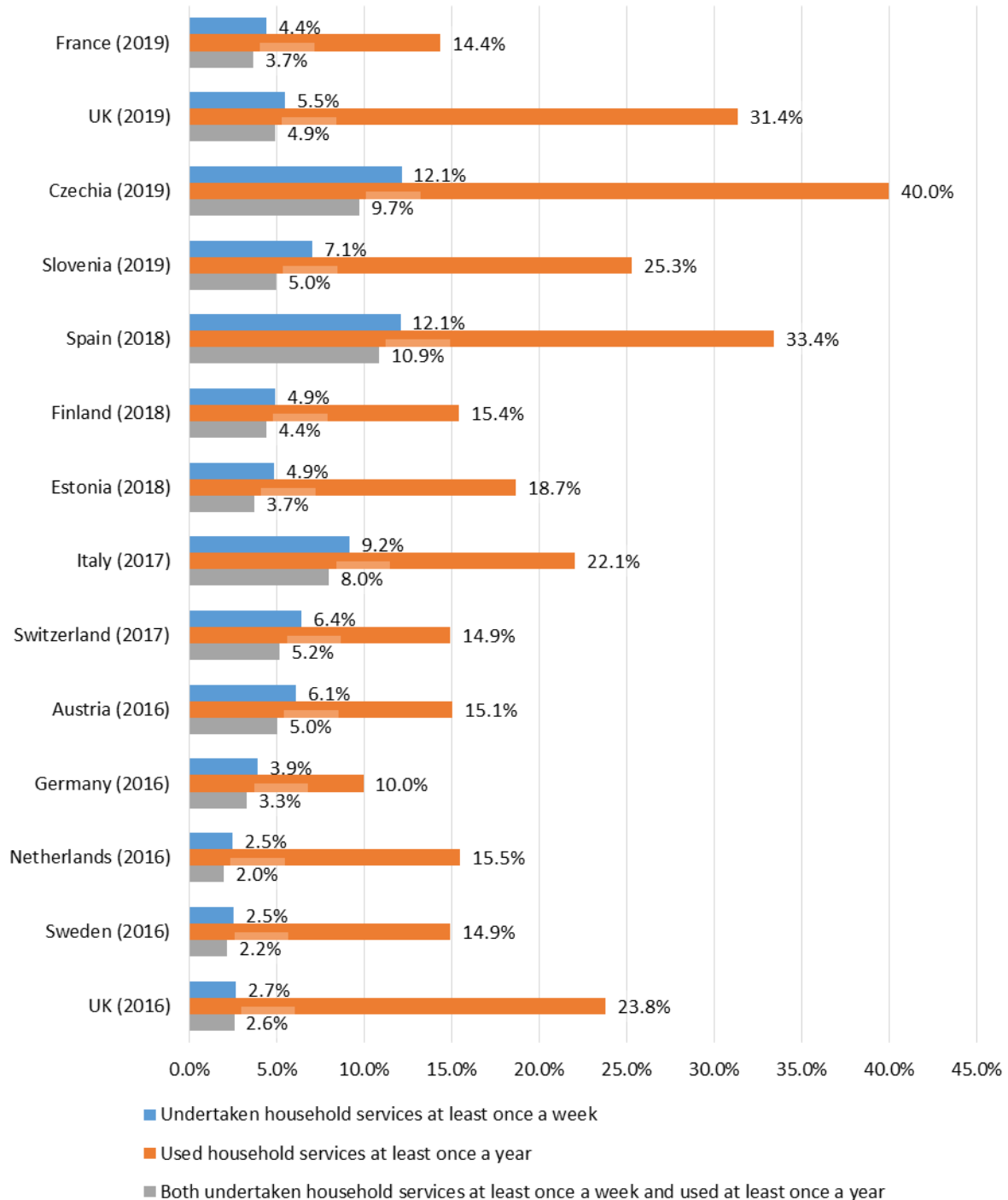


Base: 2159 respondents in France, 2235 in the UK 2019 survey, 2000 in Czechia, 2001 in Slovenia, 2182 in Spain, 2000 in Finland, 2000 in Estonia, 2199 in Italy, 2001 in Switzerland, 1969 in Austria, 2180 in Germany, 2125 in the Netherlands, 2146 in Sweden and 2238 in the UK 2016 survey (weighted).

What is particularly interesting, once again, is the very high proportion of those who work in the provision of such services who are also customers from them, with 4.9% of the working age

services via online platforms is a regular aspect of daily life for citizens across all income bands rather than a luxury for the rich.

Figure 3. Undertaking household services and finding someone to do such work (% of working population)



Base: 2159 respondents in France, 2235 in the UK 2019 survey, 2000 in Czechia, 2001 in Slovenia, 2182 in Spain, 2000 in Finland, 2000 in Estonia, 2199 in Italy, 2001 in Switzerland, 1969 in Austria, 2180 in Germany, 2125 in the Netherlands, 2146 in Sweden and 2238 in the UK 2016 survey (weighted).

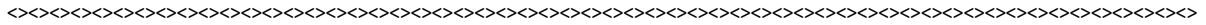
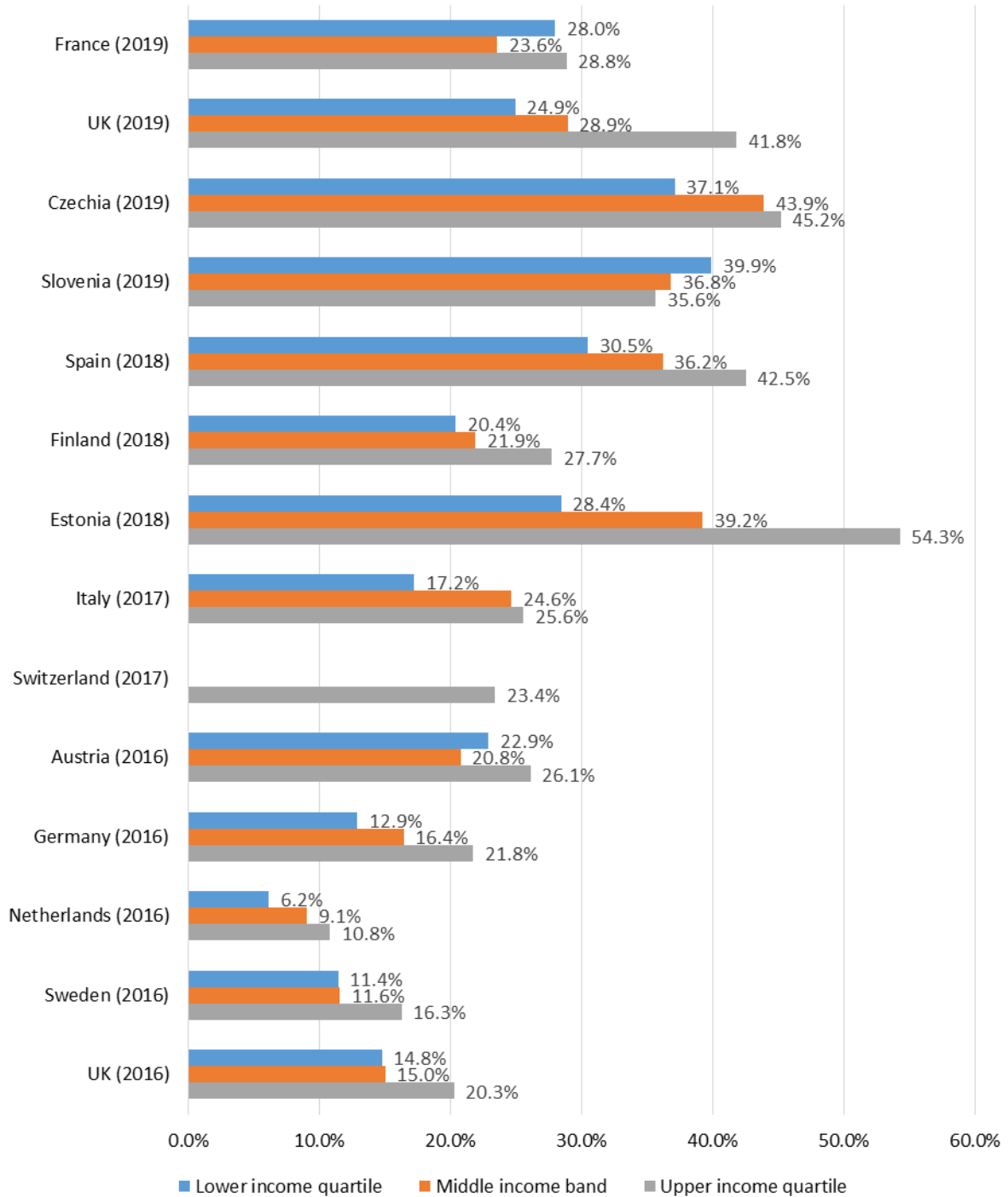


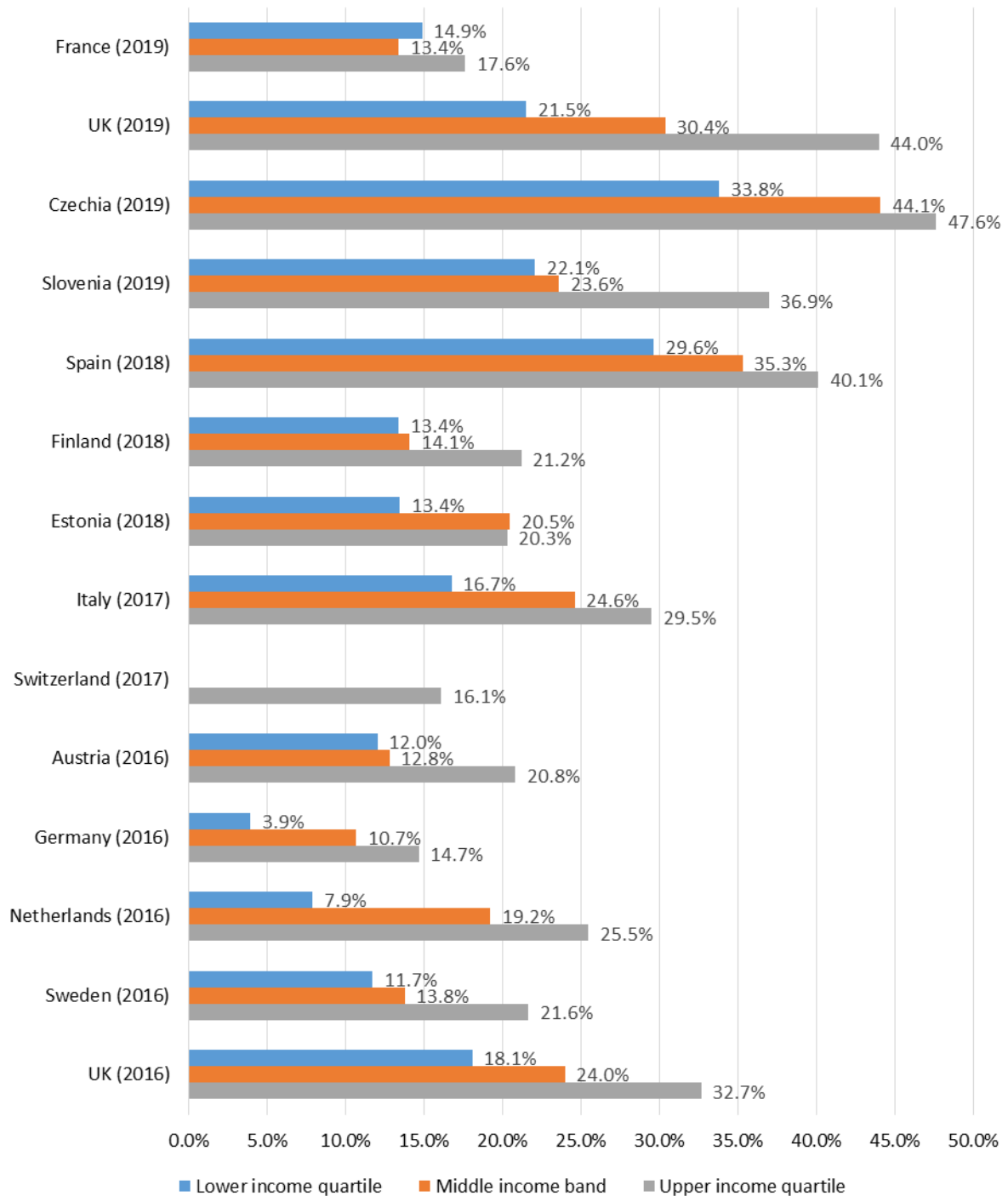
Figure 4. Demand for taxi/delivery work at least once a year (% of working population by personal income band)



Base: 2159 respondents in France, 2235 in the UK 2019 survey, 2000 in Czechia, 2001 in Slovenia, 2182 in Spain, 2000 in Finland, 2000 in Estonia, 2199 in Italy, 2001 in Switzerland, 1969 in Austria, 2180 in Germany, 2125 in the Netherlands, 2146 in Sweden and 2238 in the UK 2016 survey (weighted).

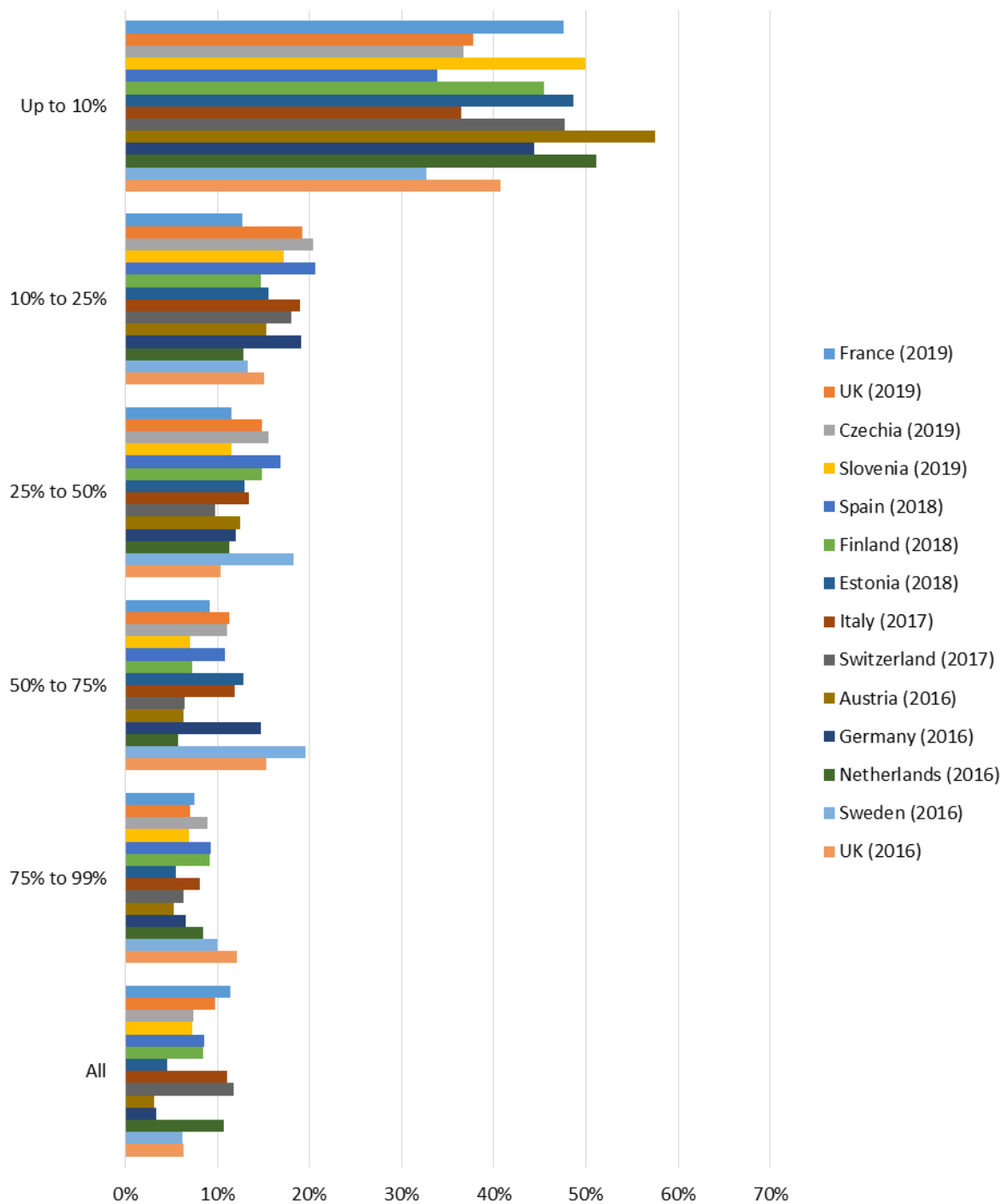
Note: For Switzerland, only a small number of income bands were available and it is thus not possible to differentiate the lower and middle income bands.

Figure 5. Demand for household services at least once a year (% of working population by personal income band)



Base: 2159 respondents in France, 2235 in the UK 2019 survey, 2000 in Czechia, 2001 in Slovenia, 2182 in Spain, 2000 in Finland, 2000 in Estonia, 2199 in Italy, 2001 in Switzerland, 1969 in Austria, 2180 in Germany, 2125 in the Netherlands, 2146 in Sweden and 2238 in the UK 2016 survey (weighted).

Figure 6. Proportion of platform workers' personal income derived from platform work



Base: 241 platform workers who provided this information in France, 288 in the UK 2019 survey, 628 in Czechia, 550 in Slovenia, 495 in Spain, 234 in Finland, 289 in Estonia, 362 in Italy, 284 in Switzerland, 301 in Austria, 223 in Germany, 141 in the Netherlands, 163 in Sweden and 181 in the UK 2016 survey (weighted).

This pattern was confirmed in our qualitative interviews. Of the 39 respondents interviewed in-depth in our research 37 either had one or more jobs in addition to their platform work or received

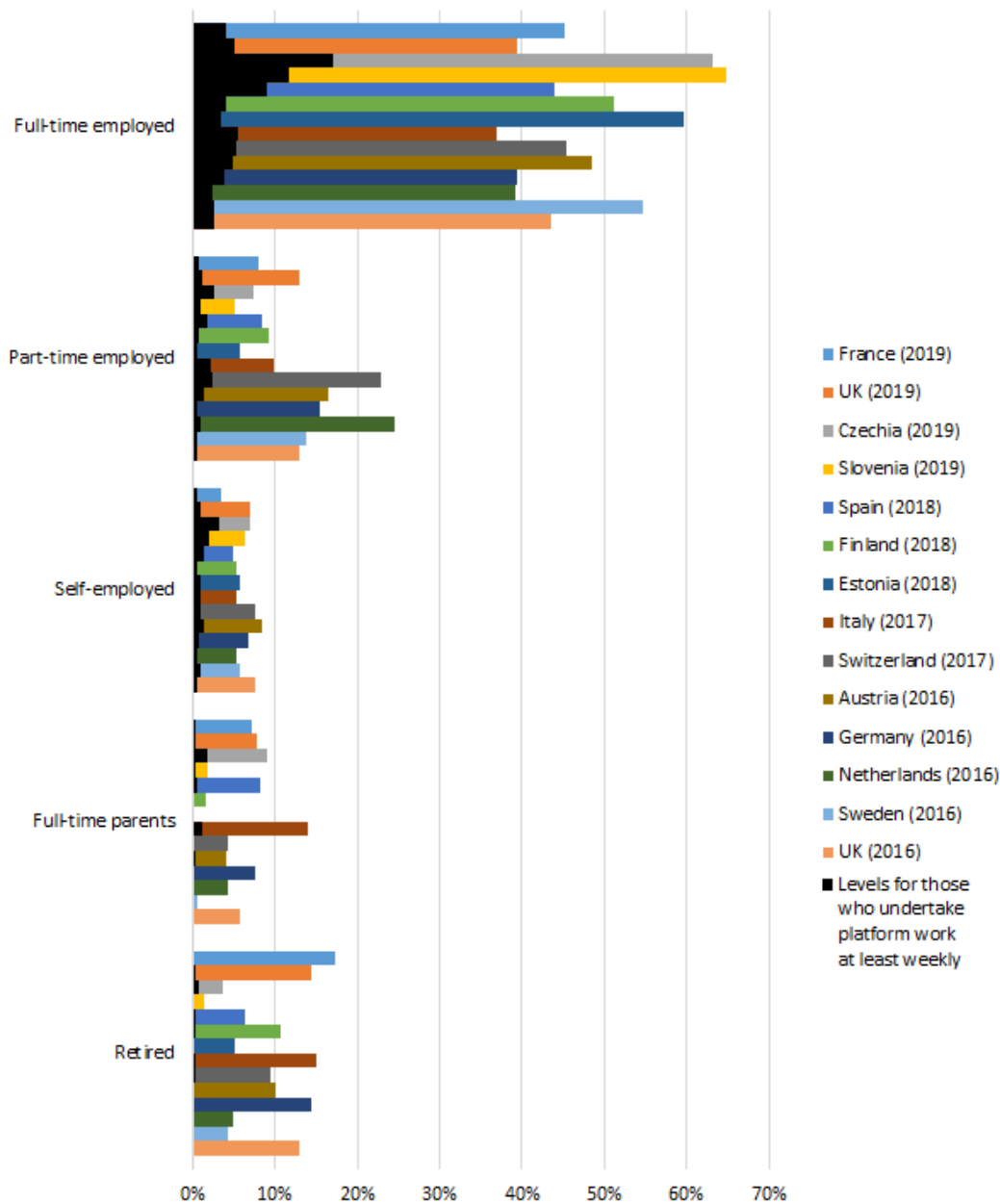
financial support from other sources (benefits, a partner, parents or their own past savings). They covered a wide range of different kinds of ‘income patchwork’. Here we provide a few examples⁴:

- An Estonian respondent (EST3) who studies and runs a recruitment company together with her partner (this is her main source of income). She works part-time as a platform rideshare driver to top up her income.
- A UK respondent (UK15) who works as a full time cleaner through an agency. She has regular working hours and gets paid the minimum hourly wage for this. However, she also needs some extra money and is doing additional cleaning through a platform.
- A UK respondent (UK6) who runs his own restaurant (which is in financial difficulties) and works as a handyman in addition to his platform work as a rideshare driver.
- An Estonian respondent (EST5) who is employed full-time at a government ministry but also does part-time work as a rideshare driver.
- A German respondent (GER17) who works for an insurance company as a regular office-based employee but also does part time platform work. She wanted some extra money and to work from home and reduce her working time in her main job. She estimates that she earns an average of €75-80 per month from platform work. Her husband is the main bread winner (she could not keep the same living standard without the financial contribution of her husband).
- A UK respondent (UK14) who has a full-time job as a delivery driver. His main job just covers the bills but he also wants to put something aside in order to have more financial stability. When he is returning from a delivery job for this main employer he tries to find extra delivery work via a platform so that he does not drive back empty.
- A German respondent (GER6) who does freelance work in IT in addition to his platform work (also in IT). He also runs an (offline) bike delivery express service. He says that he needs the income from platform work (which constitutes about 20% of his total income) in order to support his four children.
- A German respondent (GER15) who needs freelance income to fill the gaps in school holidays when there is no work for her as a teacher. She estimates that around a third of her income comes from platform work but it is precarious. If things go badly then she supplements this income from her savings.
- A German respondent (GER9) who says that 90% of her income comes from platform work. If she does not get enough work from testing platforms she works for other platforms doing low-paid click tasks. She relies on her parents to help her out if she gets into financial difficulties.

In many cases, respondents emphasised how hard they had to work to meet their financial goals. As one UK respondent put it: ‘So sometimes you can have a lot of jobs, but even though there’s a lot, it’s still not enough money’ (UK4). Another UK respondent (UK7) for whom platform work was the only source of waged income but who said he could only survive thanks to means-tested housing benefits, put it like this: ‘I’m just working to pay my bills, to pay my car instalment, to pay my insurance, to pay something to eat and that’s all basically’.

⁴ Further examples were given in our previous report: Huws, U., N. H. Spencer, D. S. Syrdal & K. Holts) *Work in the European Gig Economy: Research results from the UK, Sweden, Germany, Austria, the Netherlands, Switzerland and Italy*, Brussels, Foundation for European Progressive Studies. Available at: <http://www.feps-europe.eu/assets/9d13a6d2-5973-4131-b9c8-3ca5100f92d4/work-in-the-european-gig-full-report-pppdf.pdf>

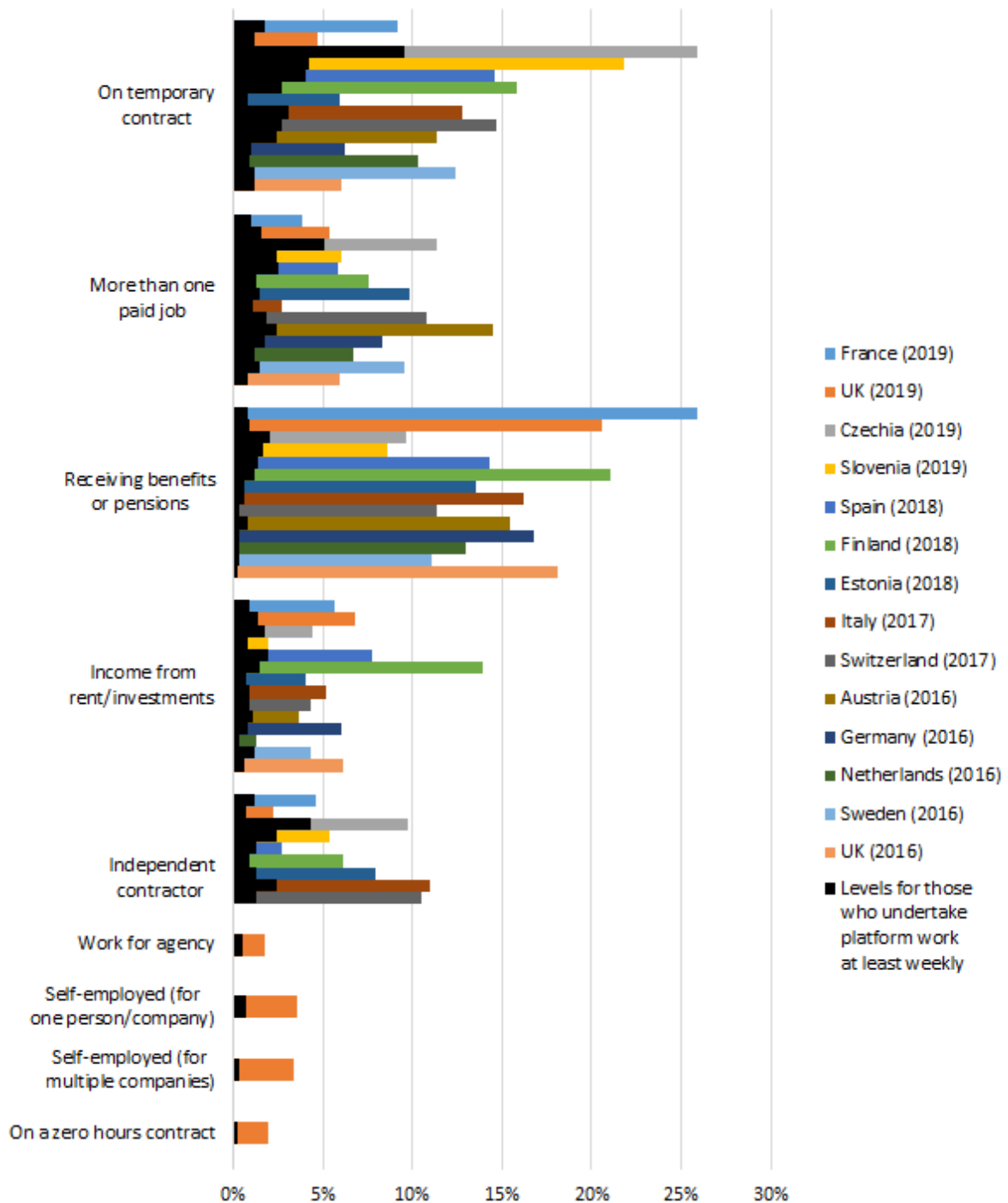
Figure 7. Employment status in working age population



Base: 2159 respondents in France, 2235 in the UK 2019 survey, 2000 in Czechia, 2001 in Slovenia, 2182 in Spain, 2000 in Finland, 2000 in Estonia, 2199 in Italy, 2001 in Switzerland, 1969 in Austria, 2180 in Germany, 2125 in the Netherlands, 2146 in Sweden and 2238 in the UK 2016 survey (weighted). Full-time parent status not collected in Estonia.

Slovenia mirror the relatively low levels of part-time employment in these countries. We may speculate that the high proportions of weekly platform workers saying that they have full-time employee status in these two countries may also reflect the relatively low wages they earn in these jobs, motivating them to seek additional income. This is consistent with the results shown in Figure 10 which show that both of these countries also have above-average levels of people saying they have more than one job.

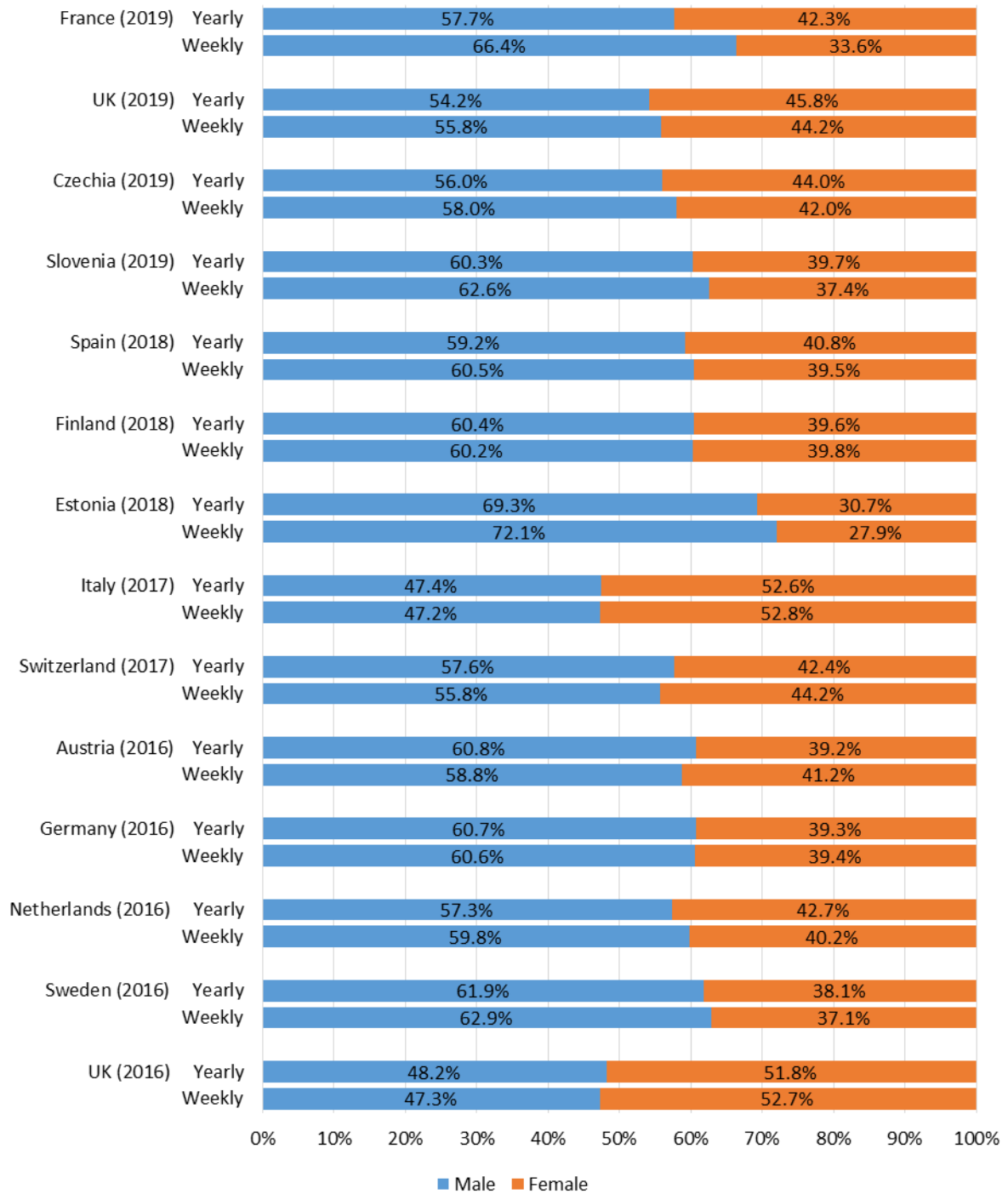
Figure 8. Frequency of types of income/work in working age population



Base: 2159 respondents in France, 2235 in the UK 2019 survey, 2000 in Czechia, 2001 in Slovenia, 2182 in Spain, 2000 in Finland, 2000 in Estonia, 2199 in Italy, 2001 in Switzerland, 1969 in Austria, 2180 in Germany, 2125 in the Netherlands, 2146 in Sweden and 2238 in the UK 2016 survey (weighted).

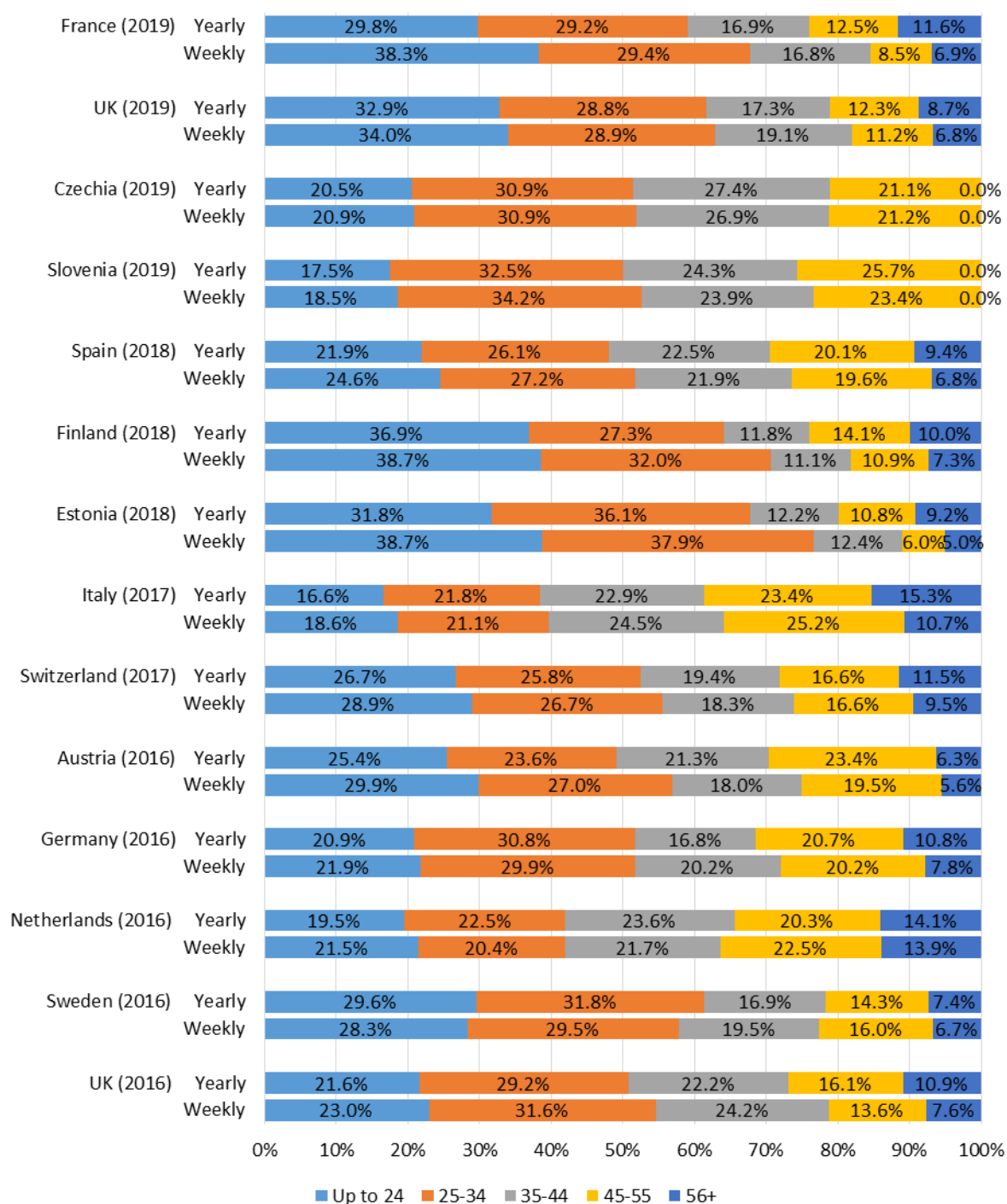
More strikingly, there is no evidence in Figure 7 that those doing regular platform work are more likely than other workers to regard themselves as self-employed or in part-time employment, further evidence that being a platform worker does not appear to be a primary identity for most of the

Figure 9. Gender of those undertaking platform work at least once a year



Base: 165/299 respondents in France weekly/yearly, 215/324 in the UK 2019 survey, 569/827 in Czechia, 369/664 in Slovenia, 370/ in Spain, 164/247 in Finland, 159/333 in Estonia, 272/443 in Italy, 199/340 in Switzerland, 186/325 in Austria, 135/241 in Germany, 104/164 in the Netherlands, 104/185 in Sweden and 104/176 in the UK 2016 survey (weighted).

Figure 10. Age of those undertaking platform work at least once a year



Base: 165/299 respondents in France weekly/yearly, 215/324 in the UK 2019 survey, 569/827 in Czechia, 369/664 in Slovenia, 370/ in Spain, 164/247 in Finland, 159/333 in Estonia, 272/443 in Italy, 199/340 in Switzerland, 186/325 in Austria, 135/241 in Germany, 104/164 in the Netherlands, 104/185 in Sweden and 104/176 in the UK 2016 survey (weighted).

Note: Surveys in Czechia and Slovenia had an upper limit of 55 years of age.

5. KINDS OF PLATFORM WORK PERFORMED

A striking feature of the research results was the propensity of respondents, when asked, to say that they do more than one type of platform work⁷. Overall, of the four types of work identified in figures 11-13, respondents who said that they did platform work at least weekly mentioned an average of 2.25 types of work done at least weekly (2.34 for males, 2.13 for females). Across countries, the figures were quite similar, ranging from an average of 1.91 in the Netherlands to 2.71 in Spain. This suggests that, far from specialising in particular ‘gig’ tasks, many people doing platform work may be looking to augment their income by any means possible and are far from choosy about what work they are prepared to do to achieve this.

It is interesting to note, however, that the forms of platform work they are least likely to do in most countries are precisely those that attract the most attention and are therefore often assumed to be most typical of the platform economy: driving and delivery work. Their prominence in popular media accounts (reflected in the relatively large number of academic studies⁸) is perhaps in part a result of the fact that they work in public spaces and are therefore very visible as they go about their work, in addition to the fact that many of the platforms for which they work, such as Uber, Deliveroo and Foodora, are widely advertised. Whatever the explanation, these results show a range of 1.4% (in the Netherlands and Sweden) to 12.3% (in Czechia) of the adult population doing this type of platform work at least weekly. It should be noted, however, that in the UK this proportion increased from 1.5% to 5.1% between 2016 and 2019.

*“Despite popular conceptions, the most common forms of platform work are **not** driving and delivery work. These are exceeded by online work and household work”.*

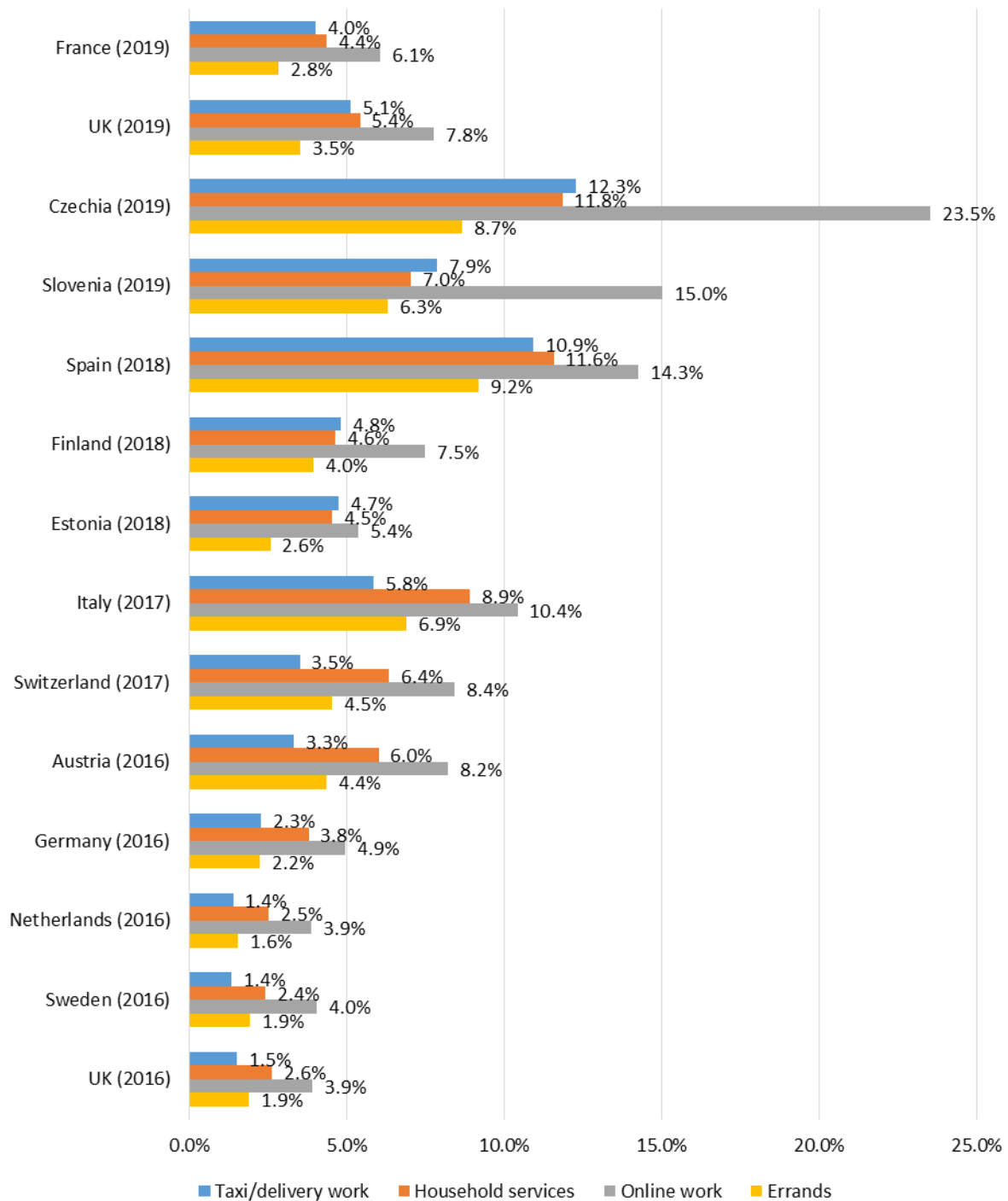
In every country, however, the proportion doing this kind of platform work is exceeded by those doing more hidden types of platform work in other people’s homes. This ranges from 2.4% in Sweden to in 11.8% Czechia.

Running errands or doing office-type tasks via online platforms is less common than other forms of platform labour in many countries, though it was a little higher than driving and delivery work, though lower than other forms, in the UK, Sweden, the Netherlands, Austria, Germany and Italy in 2016 and 2017. Here the range is from 1.6% in the Netherlands to 9.2% in Spain. Spain and Italy, with their history of large informal economies, show relatively high levels in this category, as does Czechia.

⁷ This was discussed more fully in our previous report: Huws, U., N. H. Spencer, D. S. Syrdal & K. Holts) *Work in the European Gig Economy: Research results from the UK, Sweden, Germany, Austria, the Netherlands, Switzerland and Italy*, Brussels, Foundation for European Progressive Studies. Available at: <http://www.feps-europe.eu/assets/9d13a6d2-5973-4131-b9c8-3ca5100f92d4/work-in-the-european-gig-full-report-pppdf.pdf>

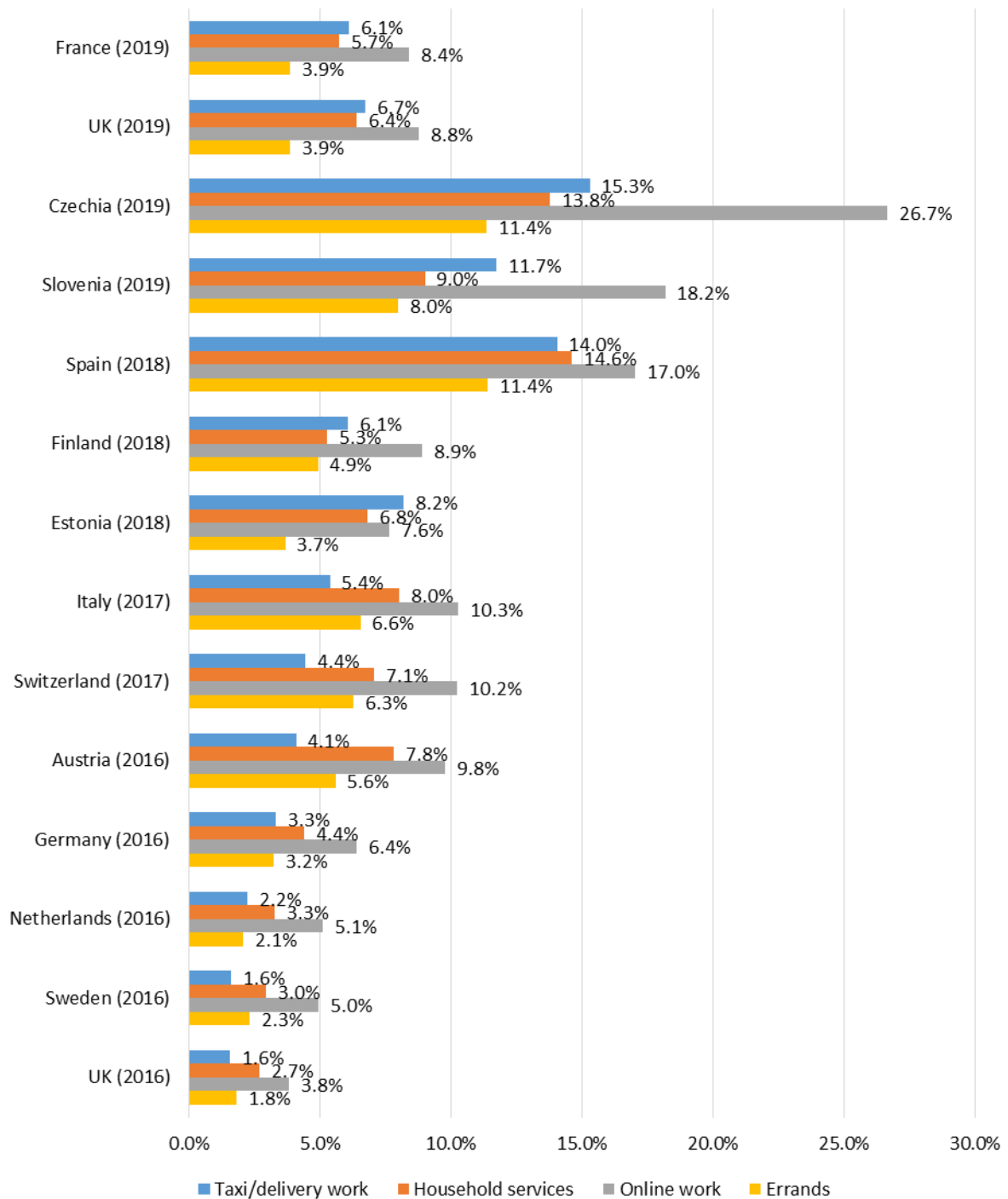
⁸ The prominence of driving and delivery work in the academic studies of platform work is discussed more fully in Holts, K., U.Huws, N.H.Spencer & M.Coates (forthcoming) ‘Competition, collaboration and combination: differences in attitudes to collective organisation among offline and online crowdworkers’ in B. Dolber, C. Kumanyika, M.Rodino-Colocino and T. Wolfson. *Gig Economy: Workers and Media in the Era of Convergence*, London: Routledge.

Figure 11. Proportion of working age population (male and female) undertaking different types of platform work at least weekly



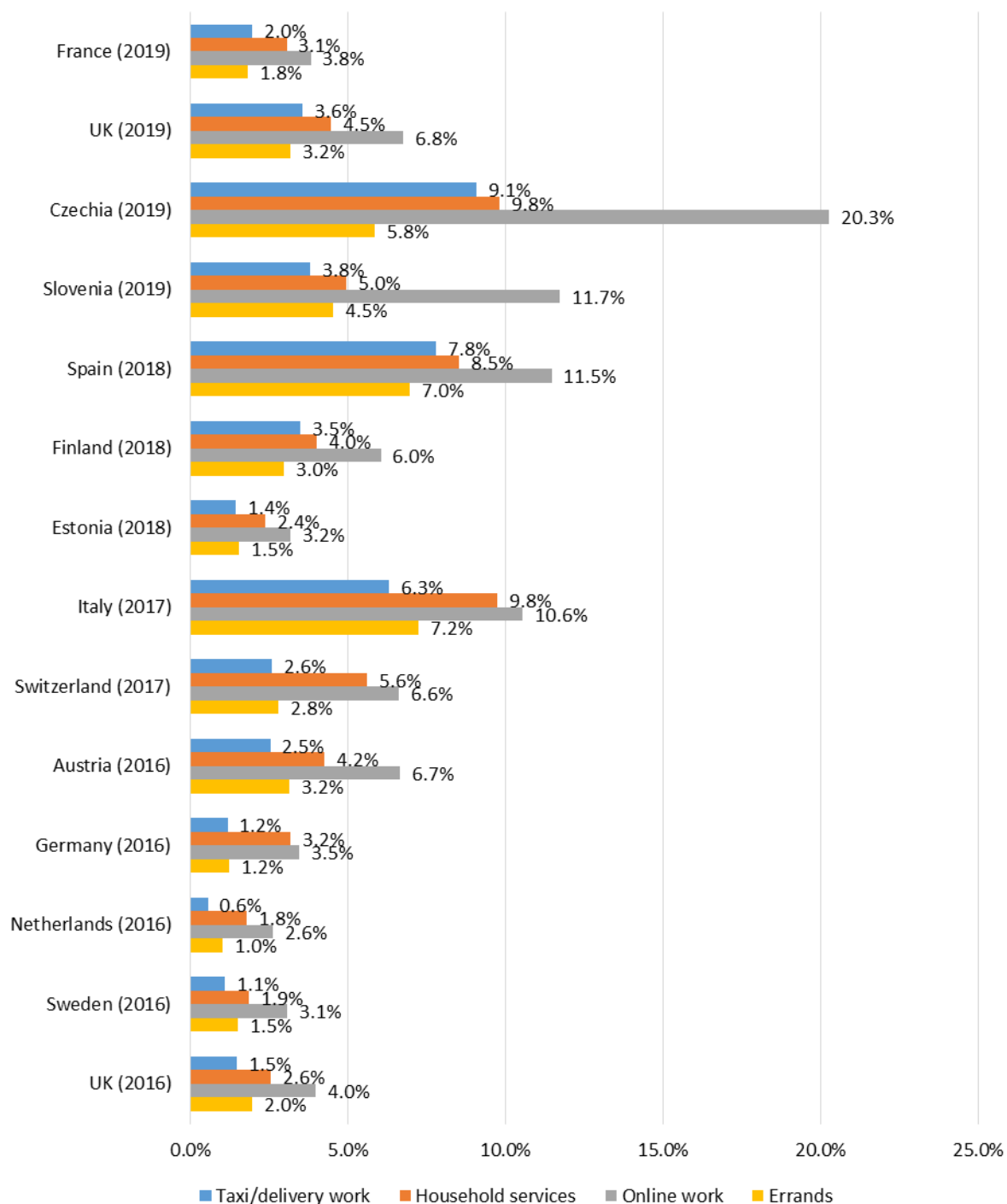
Base: 2155 respondents in France, 2226 in the UK 2019 survey, 1991 in Czechia, 1990 in Slovenia, 2173 in Spain, 1996 in Finland, 1978 in Estonia, 2185 in Italy, 1995 in Switzerland, 1955 in Austria, 2171 in Germany, 2118 in the Netherlands, 2139 in Sweden and 2234 in the UK 2016 survey (weighted).

Figure 12. Proportion of male working age population undertaking different types of platform work at least weekly



Base: 1057 respondents in France, 1103 in the UK 2019 survey, 1022 in Czechia, 1020 in Slovenia, 1088 in Spain, 1008 in Finland, 965 in Estonia, 1081 in Italy, 1004 in Switzerland, 971 in Austria, 1097 in Germany, 1062 in the Netherlands, 1087 in Sweden and 1107 in the UK 2016 survey (weighted).

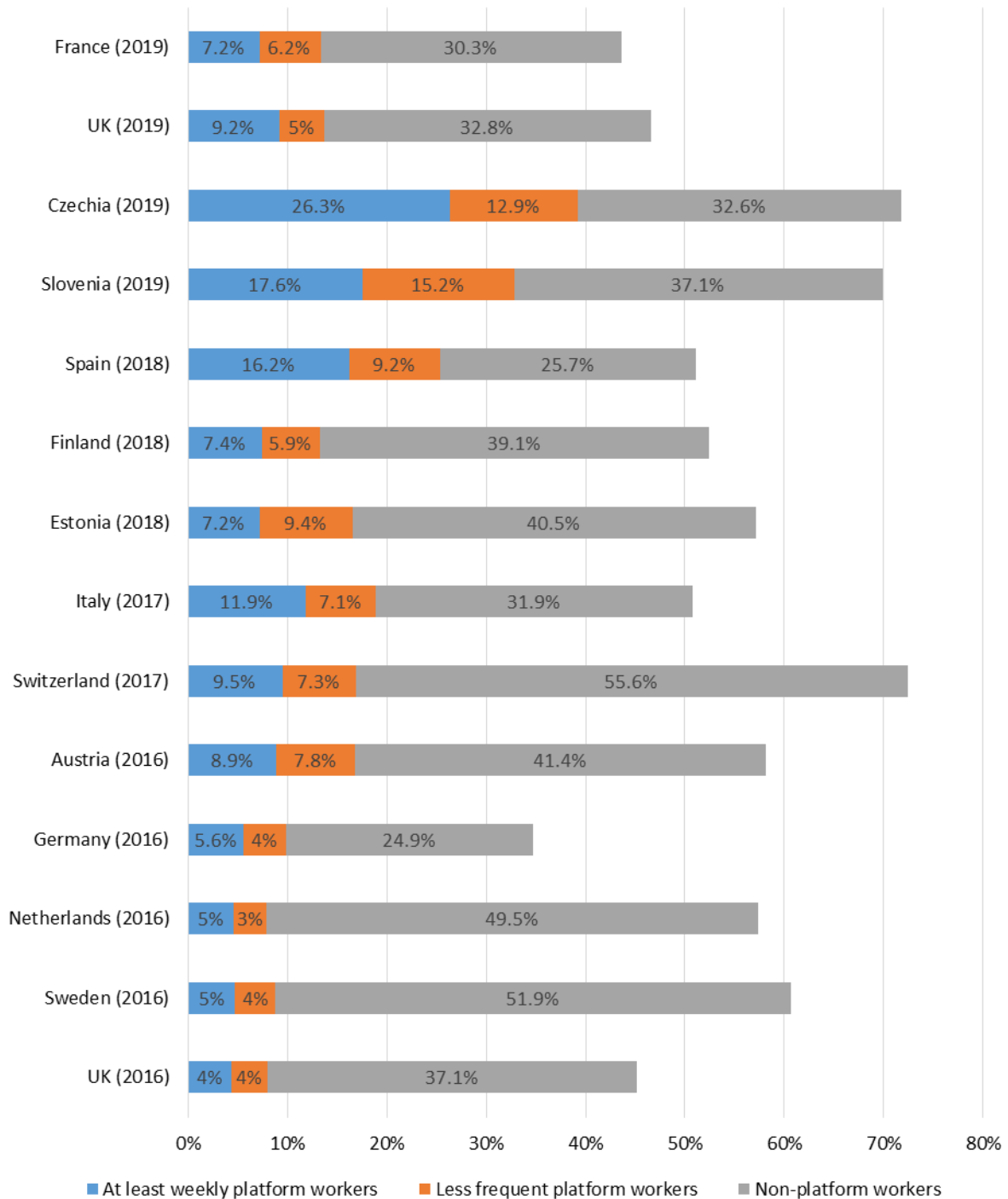
Figure 13. Proportion of female working age population undertaking different types of platform work at least weekly



Base: 1097 respondents in France, 1124 in the UK 2019 survey, 969 in Czechia, 969 in Slovenia, 1085 in Spain, 988 in Finland, 1014 in Estonia, 1104 in Italy, 991 in Switzerland, 985 in Austria, 1074 in Germany, 1056 in the Netherlands, 1053 in Sweden and 1127 in the UK 2016 survey (weighted).

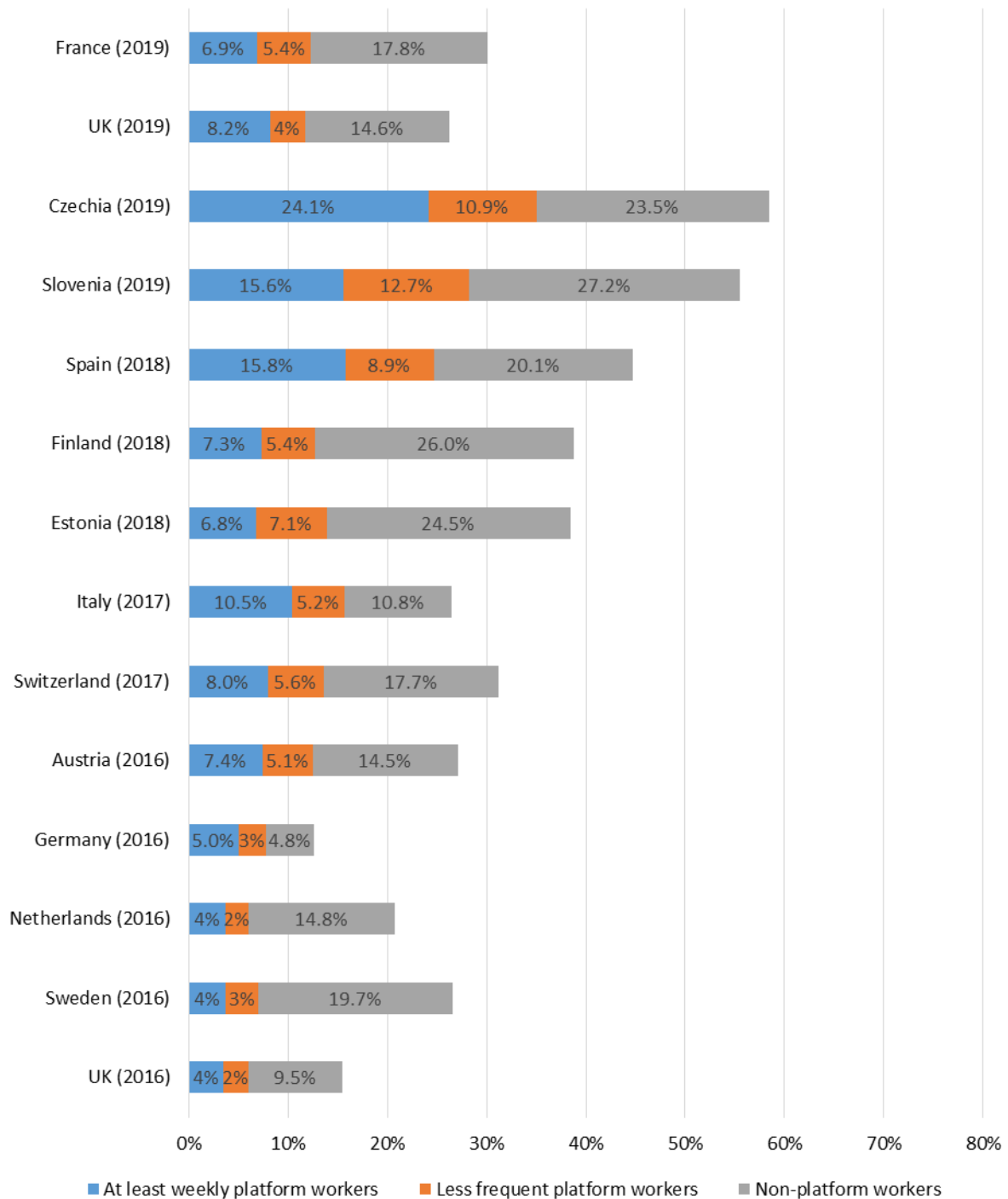
once a week produces an even more overwhelming majority of non-platform workers teleworking in this way.

Figure 14. Sending or receiving emails, texts or instant messages from employer or client while at home for working age population



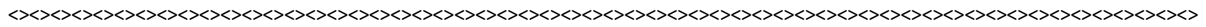
Base: 2159 respondents in France, 2235 in the UK 2019 survey, 2000 in Czechia, 2001 in Slovenia, 2182 in Spain, 2000 in Finland, 2000 in Estonia, 2199 in Italy, 2001 in Switzerland, 1969 in Austria, 2180 in Germany, 2125 in the Netherlands, 2146 in Sweden and 2238 in the UK 2016 survey (weighted).

Figure 15. Using an 'app' or website to be notified when work is available or to log work for working age population



Base: 2159 respondents in France, 2235 in the UK 2019 survey, 2000 in Czechia, 2001 in Slovenia, 2182 in Spain, 2000 in Finland, 2000 in Estonia, 2199 in Italy, 2001 in Switzerland, 1969 in Austria, 2180 in Germany, 2125 in the Netherlands, 2146 in Sweden and 2238 in the UK 2016 survey (weighted).

Figure 15 looks at two practices that are more specific to online platforms: the use of apps or websites to notify workers of new tasks awaiting them and/or to record their working hours. These



for introducing one. In countries where a national minimum wage exists, then there may be a need either to increase efforts to enforce it, or raise it, or both.

Addressing the consequences

Ambiguity about the contractual status of platform workers presents a barrier in this context. A clarification of platform workers' status as workers would serve not only to determine the applicability of statutory minimum wages but also of other rights, such as rights to paid holidays, to call in safety inspectors, to be represented by trade unions and for equal treatment. A clarification of the definition of a dependent worker and the rights associated with this status also needs to be complemented by a clarification of the definition of self-employment, a definition that should be consistent in relation to employment law, taxation and the benefits system.

Making social protection systems compatible with the new labour market realities

Finally, the role of national social protection systems needs to be examined in relation to casual and on-call work. It seems likely that where access to benefits is limited to those meeting certain criteria for being available to work, some casual workers are vulnerable to falling outside their scope.

8.2. Issues related to the spread of digital management practices

The general spread of digital management practices across the workforce raises a number of issues potentially affecting all workers. These include the collection of data on workers and customers and the potential for misuse of these data in contravention of the spirit of European data protection regulations.

Other issues to be addressed include the risk of deprofessionalisation associated with a substitution of customer ratings for the professional judgement of qualified supervisors or peers in the assessment of work quality and the threat to equality of opportunity posed by algorithmic bias.

The increasing use of digital interfaces between workers and their managers, clients and colleagues poses risks to wellbeing at work. A reduction in face-to-face contact may also mean a reduction in informal on-the-job training, a lack of mentorship and a loss of opportunities for dialogue, improvement and social interaction, leading to a range of psycho-social risks that can affect the quality of service to clients as well as the wellbeing of workers.

8.3. Potential positive uses of platform technologies

Digitally managed online platforms in their current form present risks to workers (in terms of poor working conditions and lack of security). They also pose risks to well being and to work-life balance, not least by adding additional working hours to those already undertaken in the main job. Where customers rely on commercial platform-based services to manage their care responsibilities and household labour there may (in contrast with publicly provided services) also be some barriers to equality of access by users because they are available only to those who can afford to purchase them in the market.

However there is no reason in principle why the technologies on which platform services are based could not be used in ways that contribute to the improvement of working conditions, the development of local economies or to improve the quality of local services, in line with broader European public policies.

For example, the improved matching of supply and demand for services enabled by platform technologies, if developed under the control of municipalities or non-profit bodies, or in the form of public-private partnerships, could be used to develop flexible systems for providing household services on a just-in-time basis, ranging from ready meals for people who are sick, older and

housebound to emergency baby-sitting services, transport services for the disabled or care services that are more carefully tailored to individual needs. They could, in other words contribute to the development of digitally managed welfare states fit for the 21st century.

Making household services such as cleaning and maintenance more readily available could also serve to improve work-life balance, by easing the burden of housework which still falls disproportionately on women¹⁶, thus contributing to gender equality in line with the spirit of the Directive on work-life balance for parents and carers.

It would be possible to avoid the inequalities in access that are inherent in purely market-based services by integrating these platforms with public service provision. It could be useful, for example, to make certain services free to particular categories of users, to introduce means-testing, to apply existing rules on entitlement to public services to platform services, or to provide households with vouchers or a basic income part of which could be used to purchase such services. Placing these platform services wholly or partially under public management would bring them under democratic control, opening up the possibility for local communities to have a say in service prioritisation.

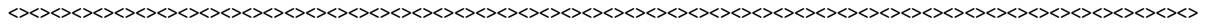
A degree of public control would make it possible to safeguard service quality. This could ensure, for example, that all workers are suitably trained, qualified and vetted, that health and safety standards are met and that workers are properly compensated, with employment rights, decent working conditions and entitlements to maternity, paternity and parental leave, sick leave, holidays and pensions.

Such policy initiatives could be complemented by other policy steps to address the social protection, wages and working conditions of platform workers more generally. This would include clarification of their employment rights and a reform of social protection systems to better protect precarious workers in this field, as recommended in the Council Recommendation on access to social protection for workers and the self-employed.

Such initiatives could take advantage of some of the new possibilities opened up by digitalisation, such as the flexibility offered by online platforms for matching supply and demand in real time. This could make it easier to meet the needs of users with unpredictable demands for services, such as people with intermittent medical conditions or workers on on-call contracts, by providing them with just-in-time provision of services (such as emergency baby-sitting or short-term care). It would, further, be possible to combine these platform services with other public goals, such as ensuring that the food delivered is nutritious and ethically or locally sourced.

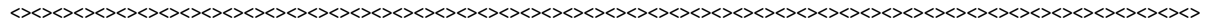
A local platform strategy could be combined with initiatives to ensure decent working conditions, professional training and employee benefits for the workforce. An integration with existing care and home help services could be achieved where relevant. Such local platform strategies could, in addition to creating new kinds of decent employment in local communities, bring other forms of benefit to local communities. If the platforms provide market services as well as subsidised ones, then the extra value created by them would be more likely to remain in the local economy, generating a range of multiplier effects. Once platforms are set up, there would be no reason in principle to restrict them to providing household services. They could also be used to create other sorts of employment for local job-seekers, such as, for example supplying business services to local

¹⁶ Gershuny, J. (2018) *Gender Symmetry, Gender Convergence and Historical Work-time Invariance in 24 countries*. Oxford: Centre for Time Use Research, University of Oxford.



start-ups or SMEs. Consultation with other local stakeholders, including trade unions, would, however, be required to ensure that they were not inadvertently undercutting existing businesses in so doing.

By freeing up time that would otherwise be devoted to housework this could enable both women and men to access the labour market on more equal terms, while improving their work-life balance. On the labour supply side, it could create better-quality and more satisfying employment combining flexibility with security and full inclusion in the labour market, including the legal protections and social rights of employees. Local economies and communities could also benefit in several ways. The value generated by these new economic activities would remain in the local economy; the flexibility offered by digital technology in matching supply and demand in real time would result in better quality services, responsive to the varied needs of local residents; and the improved work-life balance of the local population could release more time for other activities such as creative work, voluntary work or active citizenship.



APPENDIX 1

This appendix provides estimates of numbers for each country of people falling into the following categories:

1. Any platform work (13 countries);
2. At least monthly platform work (13 countries);
3. At least weekly platform work (13 countries);
4. Platform work constitutes 100% of income (13 countries);
5. Platform work constitutes more than 50% of income (13 countries);
6. General population using apps/websites to notify when work is available (13 countries);
7. General population using apps/websites to log work done (13 countries);
8. General population using apps/websites both for notification of when work is available and for logging work done (13 countries);
9. General population in which work is rated by customers (6 countries only);
10. General population using apps/websites both for notification of when work is available and for logging work done and having work rated by customers (6 countries only).

Appendix Table 1: Proportion of Working Age Population Undertaking Any Platform Work by Country/Survey

Country, Year, Ages	Any platform work					
	Male		Female		Total	
	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)
UK (2016, 16-75)	8.9% (7.3, 10.6)	2.15M (1.74, 2.55)	9.7% (8.0, 11.4)	2.36M (1.94, 2.78)	9.3% (8.1, 10.5)	4.51M (3.92, 5.09)
Sweden (2016, 16-65)	11.5% (9.6, 13.4)	0.37M (0.31, 0.43)	7.5% (5.9, 9.1)	0.23M (0.18, 0.28)	9.5% (8.3, 10.8)	0.60M (0.52, 0.68)
Netherlands (2016, 16-70)	10.0% (8.2, 11.8)	0.61M (0.50, 0.72)	8.0% (6.4, 9.7)	0.48M (0.38, 0.58)	9.0% (7.8, 10.2)	1.09M (0.94, 1.24)
Germany (2016, 16-70)	14.3% (12.3, 16.4)	4.15M (3.55, 4.75)	9.3% (7.6, 11.1)	2.76M (2.25, 3.27)	11.9% (10.5, 13.2)	6.93M (6.14, 7.73)
Austria (2016, 18-65)	22.5% (19.9, 25.1)	0.64M (0.57, 0.71)	15.3% (13.1, 17.6)	0.43M (0.37, 0.50)	18.9% (17.1, 20.6)	1.07M (0.97, 1.17)
Switzerland (2017, 16-70)	20.8% (18.3, 23.3)	0.63M (0.55, 0.70)	15.6% (13.3, 17.8)	0.47M (0.40, 0.53)	18.2% (16.5, 19.9)	1.09M (0.99, 1.20)
Italy (2017, 16-70)	21.1% (18.7, 23.6)	4.47M (3.96, 4.99)	22.3% (19.8, 24.7)	4.79M (4.26, 5.32)	21.7% (20.0, 23.4)	9.26M (8.52, 10.00)
Estonia (2018, 18-65)	26.4% (23.6, 29.1)	0.11M (0.10, 0.12)	13.0% (11.0, 15.1)	0.05M (0.05, 0.06)	19.5% (17.8, 21.3)	0.16M (0.15, 0.18)
Finland (2018, 18-65)	17.6% (15.3, 20.0)	0.30M (0.26, 0.34)	12.3% (10.3, 14.4)	0.20M (0.17, 0.24)	15.0% (13.4, 16.6)	0.50M (0.45, 0.55)
Spain (2018, 16-65)	32.5% (29.7, 35.3)	5.01M (4.59, 5.44)	22.4% (19.9, 24.9)	3.45M (3.06, 3.83)	27.5% (25.6, 29.3)	8.46M (7.88, 9.04)
Slovenia (2019, 18-55)	42.6% (39.5, 45.6)	0.23M (0.21, 0.24)	29.6% (26.7, 32.5)	0.15M (0.13, 0.16)	36.3% (34.2, 38.4)	0.37M (0.35, 0.40)
Czechia (2019, 18-55)	47.3% (44.3, 50.4)	1.32M (1.23, 1.40)	40.9% (37.8, 44.0)	1.08M (1.00, 1.16)	44.2% (42.0, 46.4)	2.40M (2.28, 2.51)
UK (2019, 16-75)	16.5% (14.3, 18.7)	4.02M (3.48, 4.55)	14.1% (12.0, 16.1)	3.47M (2.97, 3.97)	15.3% (13.8, 16.8)	7.48M (6.75, 8.21)
France (2019, 16-75)	18.4% (16.1, 20.8)	3.65M (3.18, 4.11)	12.5% (10.5, 14.4)	2.55M (2.15, 2.94)	15.4% (13.9, 16.9)	6.19M (5.58, 6.80)

Base: 2238 respondents in the UK 2016 survey, 2146 in Sweden, 2125 in the Netherlands, 2180 in Germany, 1969 in Austria, 2001 in Switzerland, 2199 in Italy, 2000 in Estonia, 2000 in Finland, 2182 in Spain, 2001 in Slovenia, 2000 in Czechia, 2235 in the UK 2019 survey and 2159 in France (weighted).

Appendix Table 2: Proportion of Working Age Population Undertaking At Least Monthly Platform Work by Country/Survey

Country, Year, Ages	Any platform work					
	Male		Female		Total	
	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)
UK (2016, 16-75)	5.7% (4.4, 7.1)	1.38M (1.05, 1.71)	5.7% (4.4, 7.1)	1.40M (1.07, 1.73)	5.7% (4.8, 6.7)	2.78M (2.31, 3.24)
Sweden (2016, 16-65)	7.3% (5.8, 8.9)	0.23M (0.18, 0.28)	5.0% (3.7, 6.3)	0.15M (0.11, 0.19)	6.2% (5.2, 7.2)	0.39M (0.32, 0.45)
Netherlands (2016, 16-70)	7.0% (5.5, 8.6)	0.43M (0.33, 0.52)	5.5% (4.1, 6.9)	0.33M (0.25, 0.41)	6.3% (5.2, 7.3)	0.76M (0.63, 0.88)
Germany (2016, 16-70)	9.5% (7.8, 11.3)	2.76M (2.25, 3.26)	6.1% (4.7, 7.6)	1.81M (1.39, 2.23)	7.8% (6.7, 9.0)	4.58M (3.92, 5.24)
Austria (2016, 18-65)	16.0% (13.7, 18.3)	0.45M (0.39, 0.52)	9.6% (7.7, 11.4)	0.27M (0.22, 0.32)	12.7% (11.3, 14.2)	0.72M (0.64, 0.81)
Switzerland (2017, 16-70)	14.2% (12.0, 16.3)	0.43M (0.36, 0.49)	11.2% (9.3, 13.2)	0.34M (0.28, 0.40)	12.7% (11.2, 14.2)	0.76M (0.68, 0.85)
Italy (2017, 16-70)	14.5% (12.4, 16.6)	3.06M (2.62, 3.50)	16.3% (14.1, 18.5)	3.50M (3.03, 3.97)	15.4% (13.9, 16.9)	6.56M (5.92, 7.21)
Estonia (2018, 18-65)	15.0% (12.7, 17.3)	0.06M (0.05, 0.07)	5.7% (4.3, 7.1)	0.02M (0.02, 0.03)	10.2% (8.9, 11.6)	0.08M (0.07, 0.10)
Finland (2018, 18-65)	11.5% (9.5, 13.5)	0.19M (0.16, 0.23)	7.4% (5.8, 9.0)	0.12M (0.10, 0.15)	9.5% (8.2, 10.8)	0.32M (0.27, 0.36)
Spain (2018, 16-65)	24.3% (21.8, 26.9)	3.76M (3.36, 4.15)	16.6% (14.4, 18.8)	2.55M (2.21, 2.89)	20.5% (18.8, 22.2)	6.31M (5.78, 6.83)
Slovenia (2019, 18-55)	28.0% (25.2, 30.7)	0.15M (0.14, 0.16)	19.0% (16.5, 21.5)	0.09M (0.08, 0.11)	23.6% (21.7, 25.5)	0.24M (0.22, 0.26)
Czechia (2019, 18-55)	38.6% (35.6, 41.5)	1.07M (0.99, 1.16)	29.0% (26.2, 31.9)	0.77M (0.69, 0.84)	33.9% (31.8, 36.0)	1.84M (1.73, 1.95)
UK (2019, 16-75)	13.2% (11.2, 15.2)	3.20M (2.72, 3.69)	10.4% (8.6, 12.2)	2.56M (2.12, 3.00)	11.8% (10.4, 13.1)	5.76M (5.10, 6.41)
France (2019, 16-75)	12.8% (10.8, 14.8)	2.53M (2.13, 2.92)	7.7% (6.1, 9.2)	1.56M (1.24, 1.88)	10.2% (8.9, 11.4)	4.08M (3.57, 4.60)

Base: 2238 respondents in the UK 2016 survey, 2146 in Sweden, 2125 in the Netherlands, 2180 in Germany, 1969 in Austria, 2001 in Switzerland, 2199 in Italy, 2000 in Estonia, 2000 in Finland, 2182 in Spain, 2001 in Slovenia, 2000 in Czechia, 2235 in the UK 2019 survey and 2159 in France (weighted).

Appendix Table 3: Proportion of Working Age Population Undertaking At Least Weekly Platform Work by Country/Survey

Country, Year, Ages	Any platform work					
	Male		Female		Total	
	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)
UK (2016, 16-75)	4.5% (3.2, 5.7)	1.07M (0.78, 1.36)	4.9% (3.6, 6.1)	1.19M (0.88, 1.49)	4.7% (3.8, 5.5)	2.25M (1.83, 2.68)
Sweden (2016, 16-65)	6.0% (4.6, 7.4)	0.19M (0.15, 0.24)	3.7% (2.5, 4.8)	0.11M (0.08, 0.15)	4.9% (3.9, 5.8)	0.30M (0.25, 0.36)
Netherlands (2016, 16-70)	5.9% (4.5, 7.3)	0.36M (0.27, 0.44)	4.0% (2.8, 5.2)	0.24M (0.17, 0.31)	4.9% (4.0, 5.8)	0.60M (0.48, 0.71)
Germany (2016, 16-70)	7.5% (5.9, 9.0)	2.16M (1.71, 2.61)	4.9% (3.6, 6.2)	1.45M (1.07, 1.83)	6.2% (5.2, 7.2)	3.62M (3.03, 4.22)
Austria (2016, 18-65)	11.2% (9.2, 13.2)	0.32M (0.26, 0.38)	7.7% (6.1, 9.4)	0.22M (0.17, 0.27)	9.5% (8.2, 10.8)	0.54M (0.46, 0.61)
Switzerland (2017, 16-70)	11.0% (9.1, 13.0)	0.33M (0.28, 0.39)	8.9% (7.1, 10.6)	0.27M (0.21, 0.32)	10.0% (8.6, 11.3)	0.60M (0.52, 0.68)
Italy (2017, 16-70)	11.9% (9.9, 13.8)	2.51M (2.10, 2.91)	13.0% (11.0, 15.0)	2.80M (2.37, 3.22)	12.4% (11.1, 13.8)	5.31M (4.72, 5.90)
Estonia (2018, 18-65)	11.9% (9.9, 14.0)	0.05M (0.04, 0.06)	4.4% (3.1, 5.7)	0.02M (0.01, 0.02)	8.1% (6.9, 9.3)	0.07M (0.06, 0.08)
Finland (2018, 18-65)	9.8% (7.9, 11.6)	0.17M (0.13, 0.20)	6.6% (5.0, 8.1)	0.11M (0.08, 0.13)	8.2% (7.0, 9.4)	0.27M (0.23, 0.31)
Spain (2018, 16-65)	20.5% (18.1, 22.9)	3.17M (2.80, 3.53)	13.5% (11.5, 15.5)	2.08M (1.76, 2.39)	17.0% (15.4, 18.6)	5.24M (4.76, 5.73)
Slovenia (2019, 18-55)	22.6% (20.0, 25.2)	0.12M (0.11, 0.13)	14.2% (12.0, 16.4)	0.07M (0.06, 0.08)	18.5% (16.8, 20.2)	0.19M (0.17, 0.21)
Czechia (2019, 18-55)	32.3% (29.4, 35.2)	0.90M (0.82, 0.98)	24.6% (21.9, 27.3)	0.65M (0.58, 0.72)	28.5% (26.6, 30.5)	1.55M (1.44, 1.66)
UK (2019, 16-75)	10.9% (9.0, 12.7)	2.64M (2.19, 3.09)	8.4% (6.8, 10.0)	2.08M (1.68, 2.48)	9.6% (8.4, 10.9)	4.72M (4.12, 5.32)
France (2019, 16-75)	10.4% (8.6, 12.2)	2.06M (1.69, 2.42)	5.1% (3.8, 6.3)	1.03M (0.77, 1.29)	7.7% (6.5, 8.8)	3.08M (2.63, 3.53)

Base: 2238 respondents in the UK 2016 survey, 2146 in Sweden, 2125 in the Netherlands, 2180 in Germany, 1969 in Austria, 2001 in Switzerland, 2199 in Italy, 2000 in Estonia, 2000 in Finland, 2182 in Spain, 2001 in Slovenia, 2000 in Czechia, 2235 in the UK 2019 survey and 2159 in France (weighted).

Appendix Table 4: Proportion of Working Age Population Obtaining All Personal Income from Platform Work by Country/Survey

	100% of personal income from platform work					
	Male		Female		Total	
Country, Year, Ages	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)
UK (2016, 16-75)	0.2% (0.0, 0.5)	48K (0, 111)	0.6% (0.1, 1.0)	140K (32, 247)	0.4% (0.1, 0.6)	188K (63, 312)
Sweden (2016, 16-65)	0.7% (0.2, 1.2)	21K (6, 37)	0.3% (0.0, 0.6)	8K (0, 18)	0.5% (0.2, 0.8)	29K (11, 47)
Netherlands (2016, 16-70)	0.8% (0.3, 1.3)	49K (16, 81)	0.4% (0.0, 0.8)	24K (1, 47)	0.6% (0.3, 0.9)	73K (33, 113)
Germany (2016, 16-70)	0.3% (0.0, 0.7)	95K (0, 193)	0.3% (0.0, 0.6)	81K (0, 172)	0.3% (0.1, 0.5)	176K (41, 311)
Austria (2016, 18-65)	0.8% (0.2, 1.4)	23K (7, 39)	0.2% (0.0, 0.4)	5K (0, 12)	0.5% (0.2, 0.8)	28K (10, 45)
Switzerland (2017, 16-70)	2.1% (1.2, 2.9)	62K (35, 88)	1.3% (0.6, 2.0)	38K (17, 59)	1.7% (1.1, 2.2)	100K (66, 134)
Italy (2017, 16-70)	2.0% (1.2, 2.9)	434K (255, 612)	1.2% (0.6, 1.8)	259K (120, 397)	1.6% (1.1, 2.2)	692K (466, 918)
Estonia (2018, 18-65)	0.8% (0.2, 1.3)	3K (1, 6)	0.3% (0.0, 0.7)	1K (0, 3)	0.5% (0.2, 0.9)	4K (2, 7)
Finland (2018, 18-65)	1.2% (0.5, 1.8)	20K (9, 31)	0.5% (0.1, 1.0)	8K (1, 16)	0.8% (0.4, 1.2)	28K (15, 42)
Spain (2018, 16-65)	2.1% (1.2, 2.9)	322K (191, 453)	1.8% (1.0, 2.6)	279K (157, 402)	2.0% (1.4, 2.5)	602K (423, 781)
Slovenia (2019, 18-55)	2.4% (1.5, 3.3)	13K (8, 18)	1.5% (0.7, 2.3)	7K (4, 11)	2.0% (1.4, 2.6)	20K (14, 27)
Czechia (2019, 18-55)	1.7% (0.9, 2.5)	47K (25, 68)	2.8% (1.7, 3.8)	73K (46, 101)	2.2% (1.6, 2.9)	120K (85, 155)
UK (2019, 16-75)	1.1% (0.5, 1.7)	265K (116, 413)	1.2% (0.6, 1.9)	302K (144, 461)	1.2% (0.7, 1.6)	567K (350, 785)
France (2019, 16-75)	1.3% (0.6, 1.9)	250K (117, 384)	1.2% (0.5, 1.8)	237K (108, 366)	1.2% (0.8, 1.7)	487K (301, 673)

Base: 2238 respondents in the UK 2016 survey, 2146 in Sweden, 2125 in the Netherlands, 2180 in Germany, 1969 in Austria, 2001 in Switzerland, 2199 in Italy, 2000 in Estonia, 2000 in Finland, 2182 in Spain, 2001 in Slovenia, 2000 in Czechia, 2235 in the UK 2019 survey and 2159 in France (weighted).

Appendix Table 5: Proportion of Working Age Population Obtaining At Least 50% of Personal Income from Platform Work by Country/Survey

	At least 50% of personal income from platform work					
	Male		Female		Total	
Country, Year, Ages	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)
UK (2016, 16-75)	2.8% (1.9, 3.8)	683K (448, 918)	2.1% (1.3, 2.9)	513K (309, 717)	2.5% (1.8, 3.1)	1195K (884, 1507)
Sweden (2016, 16-65)	3.3% (2.2, 4.3)	104K (71, 138)	1.9% (1.1, 2.7)	58K (33, 83)	2.6% (1.9, 3.3)	162K (120, 205)
Netherlands (2016, 16-70)	2.1% (1.3, 3.0)	130K (77, 183)	0.9% (0.4, 1.5)	57K (22, 92)	1.5% (1.0, 2.1)	187K (123, 250)
Germany (2016, 16-70)	2.9% (1.9, 3.9)	835K (549, 1122)	2.1% (1.2, 2.9)	609K (359, 859)	2.5% (1.8, 3.1)	1449K (1067, 1830)
Austria (2016, 18-65)	2.8% (1.8, 3.9)	81K (51, 111)	1.6% (0.8, 2.4)	45K (23, 67)	2.2% (1.6, 2.9)	125K (88, 162)
Switzerland (2017, 16-70)	4.4% (3.1, 5.7)	133K (95, 171)	2.5% (1.6, 3.5)	76K (47, 105)	3.5% (2.7, 4.3)	209K (161, 258)
Italy (2017, 16-70)	5.3% (4.0, 6.7)	1128K (845, 1411)	4.6% (3.3, 5.8)	978K (714, 1243)	4.9% (4.0, 5.8)	2106K (1719, 2494)
Estonia (2018, 18-65)	5.0% (3.7, 6.4)	21K (15, 26)	1.2% (0.5, 1.8)	5K (2, 8)	3.1% (2.3, 3.8)	25K (19, 31)
Finland (2018, 18-65)	3.4% (2.3, 4.5)	57K (38, 76)	2.1% (1.2, 3.0)	35K (20, 50)	2.8% (2.0, 3.5)	92K (68, 116)
Spain (2018, 16-65)	6.9% (5.4, 8.5)	1072K (839, 1305)	5.7% (4.3, 7.0)	872K (660, 1084)	6.3% (5.3, 7.3)	1945K (1630, 2259)
Slovenia (2019, 18-55)	7.6% (6.0, 9.3)	41K (32, 50)	3.7% (2.5, 4.9)	18K (13, 24)	5.7% (4.7, 6.8)	59K (49, 70)
Czechia (2019, 18-55)	8.4% (6.7, 10.1)	234K (187, 281)	8.0% (6.3, 9.7)	211K (166, 256)	8.2% (7.0, 9.4)	445K (380, 511)
UK (2019, 16-75)	3.8% (2.7, 5.0)	931K (656, 1206)	3.2% (2.2, 4.3)	799K (544, 1054)	3.5% (2.8, 4.3)	1730K (1354, 2105)
France (2019, 16-75)	4.0% (2.8, 5.2)	787K (554, 1021)	2.0% (1.2, 2.9)	418K (247, 588)	3.0% (2.3, 3.7)	1203K (914, 1492)

Base: 2238 respondents in the UK 2016 survey, 2146 in Sweden, 2125 in the Netherlands, 2180 in Germany, 1969 in Austria, 2001 in Switzerland, 2199 in Italy, 2000 in Estonia, 2000 in Finland, 2182 in Spain, 2001 in Slovenia, 2000 in Czechia, 2235 in the UK 2019 survey and 2159 in France (weighted).

Appendix Table 6: Proportion of Working Age Population Ever Been Notified of Work via 'App'/Website by Country/Survey

Country, Year, Ages	Ever been notified of work via 'app'/website					
	Male		Female		Total	
	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)
UK (2016, 16-75)	8.7% (7.1, 10.4)	2.10M (1.70, 2.50)	11.1% (9.2, 12.9)	2.70M (2.24, 3.16)	9.9% (8.7, 11.2)	4.80M (4.19, 5.41)
Sweden (2016, 16-65)	16.7% (14.5, 19.0)	0.54M (0.46, 0.61)	15.3% (13.0, 17.5)	0.47M (0.40, 0.54)	16.0% (14.4, 17.6)	1.00M (0.90, 1.10)
Netherlands (2016, 16-70)	13.5% (11.4, 15.6)	0.82M (0.69, 0.95)	12.0% (10.0, 13.9)	0.72M (0.60, 0.84)	12.7% (11.3, 14.2)	1.54M (1.36, 1.71)
Germany (2016, 16-70)	13.9% (11.8, 16.0)	4.03M (3.43, 4.64)	8.7% (7.0, 10.4)	2.57M (2.07, 3.08)	11.3% (10.0, 12.7)	6.63M (5.83, 7.42)
Austria (2016, 18-65)	24.5% (21.7, 27.2)	0.70M (0.62, 0.78)	18.3% (15.8, 20.8)	0.52M (0.45, 0.59)	21.4% (19.5, 23.2)	1.21M (1.11, 1.32)
Switzerland (2017, 16-70)	24.1% (21.4, 26.8)	0.73M (0.65, 0.81)	18.6% (16.1, 21.0)	0.56M (0.48, 0.63)	21.4% (19.5, 23.2)	1.29M (1.18, 1.40)
Italy (2017, 16-70)	21.7% (19.2, 24.2)	4.59M (4.05, 5.12)	19.0% (16.6, 21.4)	4.09M (3.57, 4.60)	20.3% (18.6, 22.1)	8.68M (7.93, 9.42)
Estonia (2018, 18-65)	41.3% (38.0, 44.6)	0.17M (0.16, 0.18)	27.9% (25.0, 30.8)	0.12M (0.10, 0.13)	34.4% (32.2, 36.6)	0.28M (0.27, 0.30)
Finland (2018, 18-65)	29.6% (26.7, 32.5)	0.50M (0.45, 0.55)	21.9% (19.2, 24.5)	0.36M (0.32, 0.40)	25.8% (23.8, 27.7)	0.86M (0.79, 0.93)
Spain (2018, 16-65)	49.0% (45.9, 52.0)	7.56M (7.09, 8.03)	38.3% (35.3, 41.2)	5.89M (5.43, 6.34)	43.7% (41.5, 45.8)	13.46M (12.80, 14.12)
Slovenia (2019, 18-55)	52.6% (49.5, 55.7)	0.28M (0.27, 0.30)	50.4% (47.2, 53.6)	0.25M (0.23, 0.27)	51.5% (49.3, 53.8)	0.53M (0.51, 0.55)
Czechia (2019, 18-55)	54.5% (51.4, 57.7)	1.52M (1.43, 1.60)	47.7% (44.5, 51.0)	1.26M (1.17, 1.35)	51.2% (48.9, 53.5)	2.78M (2.65, 2.90)
UK (2019, 16-75)	24.0% (21.4, 26.5)	5.83M (5.20, 6.45)	18.2% (15.9, 20.5)	4.49M (3.92, 5.05)	21.0% (19.3, 22.8)	10.29M (9.45, 11.14)
France (2019, 16-75)	32.5% (29.6, 35.4)	6.44M (5.86, 7.01)	22.0% (19.5, 24.5)	4.49M (3.98, 5.00)	27.2% (25.2, 29.1)	10.91M (10.14, 11.69)

Base: 2238 respondents in the UK 2016 survey, 2146 in Sweden, 2125 in the Netherlands, 2180 in Germany, 1969 in Austria, 2001 in Switzerland, 2199 in Italy, 2000 in Estonia, 2000 in Finland, 2182 in Spain, 2001 in Slovenia, 2000 in Czechia, 2235 in the UK 2019 survey and 2159 in France (weighted).

Appendix Table 7: Proportion of Working Age Population Ever Logged Work via 'App'/Website by Country/Survey

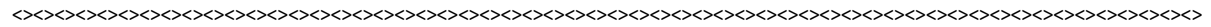
Country, Year, Ages	Ever been notified of work via 'app'/website					
	Male		Female		Total	
	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)
UK (2016, 16-75)	13.4% (11.3, 15.4)	3.21M (2.72, 3.69)	15.0% (12.8, 17.1)	3.64M (3.13, 4.16)	14.2% (12.7, 15.6)	6.85M (6.14, 7.56)
Sweden (2016, 16-65)	27.5% (24.8, 30.2)	0.88M (0.79, 0.96)	21.5% (18.9, 24.1)	0.66M (0.58, 0.74)	24.6% (22.7, 26.4)	1.54M (1.42, 1.66)
Netherlands (2016, 16-70)	18.8% (16.4, 21.1)	1.14M (0.99, 1.28)	16.7% (14.4, 19.0)	1.00M (0.87, 1.14)	17.7% (16.1, 19.4)	2.14M (1.94, 2.34)
Germany (2016, 16-70)	13.9% (11.8, 16.0)	4.01M (3.41, 4.62)	9.3% (7.5, 11.1)	2.74M (2.22, 3.27)	11.6% (10.2, 13.0)	6.78M (5.97, 7.58)
Austria (2016, 18-65)	27.3% (24.4, 30.1)	0.78M (0.70, 0.86)	19.4% (16.9, 21.9)	0.55M (0.48, 0.62)	23.3% (21.4, 25.2)	1.32M (1.22, 1.43)
Switzerland (2017, 16-70)	32.8% (29.8, 35.7)	0.99M (0.90, 1.08)	20.5% (17.9, 23.0)	0.61M (0.54, 0.69)	26.6% (24.7, 28.6)	1.60M (1.49, 1.72)
Italy (2017, 16-70)	25.2% (22.6, 27.9)	5.34M (4.78, 5.90)	25.4% (22.8, 28.1)	5.46M (4.89, 6.03)	25.3% (23.5, 27.2)	10.80M (10.00, 11.60)
Estonia (2018, 18-65)	43.7% (40.4, 47.0)	0.18M (0.17, 0.19)	26.8% (24.0, 29.7)	0.11M (0.10, 0.12)	34.9% (32.7, 37.1)	0.29M (0.27, 0.31)
Finland (2018, 18-65)	41.6% (38.5, 44.8)	0.71M (0.65, 0.76)	34.5% (31.5, 37.6)	0.57M (0.52, 0.62)	38.1% (35.9, 40.3)	1.27M (1.20, 1.35)
Spain (2018, 16-65)	48.4% (45.4, 51.5)	7.47M (7.00, 7.94)	36.4% (33.4, 39.3)	5.59M (5.14, 6.05)	42.5% (40.3, 44.6)	13.08M (12.42, 13.74)
Slovenia (2019, 18-55)	49.0% (45.9, 52.1)	0.26M (0.25, 0.28)	37.2% (34.1, 40.3)	0.18M (0.17, 0.20)	43.2% (41.0, 45.5)	0.45M (0.42, 0.47)
Czechia (2019, 18-55)	59.9% (56.8, 63.0)	1.67M (1.58, 1.75)	51.7% (48.5, 54.9)	1.36M (1.28, 1.45)	55.8% (53.6, 58.1)	3.03M (2.91, 3.15)
UK (2019, 16-75)	27.1% (24.4, 29.8)	6.59M (5.93, 7.24)	22.2% (19.7, 24.7)	5.48M (4.87, 6.09)	24.6% (22.8, 26.4)	12.05M (11.16, 12.95)
France (2019, 16-75)	35.5% (32.5, 38.5)	7.03M (6.44, 7.61)	22.1% (19.6, 24.6)	4.51M (3.99, 5.02)	28.7% (26.7, 30.6)	11.52M (10.73, 12.31)

Base: 2238 respondents in the UK 2016 survey, 2146 in Sweden, 2125 in the Netherlands, 2180 in Germany, 1969 in Austria, 2001 in Switzerland, 2199 in Italy, 2000 in Estonia, 2000 in Finland, 2182 in Spain, 2001 in Slovenia, 2000 in Czechia, 2235 in the UK 2019 survey and 2159 in France (weighted).

Appendix Table 8: Proportion of Working Age Population Ever Been Notified of Work and Ever Logged Work via 'App'/Website by Country/Survey

Country, Year, Ages	Ever been notified of work via 'app'/website					
	Male		Female		Total	
	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)
UK (2016, 16-75)	7.9% (6.3, 9.5)	1.90M (1.52, 2.29)	8.2% (6.6, 9.8)	1.99M (1.60, 2.39)	8.1% (6.9, 9.2)	3.90M (3.35, 4.45)
Sweden (2016, 16-65)	13.7% (11.6, 15.8)	0.44M (0.37, 0.50)	11.0% (9.0, 12.9)	0.34M (0.28, 0.40)	12.4% (10.9, 13.8)	0.77M (0.68, 0.86)
Netherlands (2016, 16-70)	10.0% (8.2, 11.8)	0.61M (0.50, 0.72)	8.1% (6.5, 9.8)	0.49M (0.39, 0.59)	9.1% (7.8, 10.3)	1.10M (0.95, 1.25)
Germany (2016, 16-70)	12.1% (10.1, 14.0)	3.49M (2.92, 4.06)	7.4% (5.8, 9.0)	2.19M (1.72, 2.66)	9.7% (8.5, 11.0)	5.69M (4.95, 6.44)
Austria (2016, 18-65)	19.8% (17.3, 22.4)	0.57M (0.49, 0.64)	12.8% (10.7, 14.9)	0.36M (0.30, 0.42)	16.3% (14.6, 18.0)	0.92M (0.83, 1.02)
Switzerland (2017, 16-70)	18.4% (16.0, 20.8)	0.56M (0.48, 0.63)	12.5% (10.4, 14.5)	0.37M (0.31, 0.44)	15.5% (13.8, 17.1)	0.93M (0.83, 1.03)
Italy (2017, 16-70)	17.7% (15.4, 20.0)	3.75M (3.26, 4.24)	17.1% (14.8, 19.3)	3.67M (3.18, 4.15)	17.4% (15.8, 19.0)	7.42M (6.72, 8.11)
Estonia (2018, 18-65)	34.7% (31.6, 37.9)	0.14M (0.13, 0.16)	19.0% (16.5, 21.5)	0.08M (0.07, 0.09)	26.6% (24.5, 28.6)	0.22M (0.20, 0.24)
Finland (2018, 18-65)	26.7% (23.9, 29.5)	0.45M (0.41, 0.50)	17.9% (15.5, 20.4)	0.30M (0.26, 0.34)	22.4% (20.5, 24.3)	0.75M (0.69, 0.81)
Spain (2018, 16-65)	44.0% (41.0, 47.0)	6.79M (6.33, 7.26)	32.1% (29.2, 34.9)	4.94M (4.50, 5.37)	38.1% (36.0, 40.2)	11.74M (11.09, 12.38)
Slovenia (2019, 18-55)	42.3% (39.2, 45.4)	0.23M (0.21, 0.24)	30.1% (27.2, 33.0)	0.15M (0.13, 0.16)	36.4% (34.2, 38.5)	0.37M (0.35, 0.40)
Czechia (2019, 18-55)	48.4% (45.3, 51.6)	1.35M (1.26, 1.43)	40.0% (36.9, 43.1)	1.06M (0.97, 1.14)	44.3% (42.0, 46.5)	2.40M (2.28, 2.52)
UK (2019, 16-75)	20.9% (18.5, 23.4)	5.09M (4.49, 5.69)	15.2% (13.1, 17.3)	3.74M (3.22, 4.27)	18.0% (16.4, 19.6)	8.82M (8.02, 9.61)
France (2019, 16-75)	30.1% (27.3, 32.9)	5.96M (5.40, 6.52)	17.8% (15.5, 20.1)	3.62M (3.15, 4.09)	23.8% (22.0, 25.6)	9.56M (8.82, 10.30)

Base: 2238 respondents in the UK 2016 survey, 2146 in Sweden, 2125 in the Netherlands, 2180 in Germany, 1969 in Austria, 2001 in Switzerland, 2199 in Italy, 2000 in Estonia, 2000 in Finland, 2182 in Spain, 2001 in Slovenia, 2000 in Czechia, 2235 in the UK 2019 survey and 2159 in France (weighted).



Appendix Table 9: Proportion of Working Age Population Ever Having Had Work Rated By Customers by Country/Survey

	Ever had work rated by customers					
	Male		Female		Total	
Country, Year, Ages	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)
Estonia (2018, 18-65)	44.3% (41.0, 47.7)	0.18M (0.17, 0.20)	23.4% (20.7, 26.1)	0.10M (0.09, 0.11)	33.4% (31.2, 35.6)	0.28M (0.26, 0.29)
Finland (2018, 18-65)	30.1% (27.2, 33.0)	0.51M (0.46, 0.56)	20.1% (17.5, 22.7)	0.33M (0.29, 0.37)	25.2% (23.2, 27.1)	0.84M (0.77, 0.91)
Spain (2018, 16-65)	49.2% (46.1, 52.2)	7.59M (7.12, 8.06)	36.0% (33.0, 38.9)	5.53M (5.07, 5.99)	42.7% (40.5, 44.8)	13.15M (12.48, 13.81)
Slovenia (2019, 18-55)	56.6% (53.4, 59.7)	0.30M (0.29, 0.32)	41.1% (37.8, 44.3)	0.20M (0.19, 0.22)	49.1% (46.8, 51.4)	0.51M (0.48, 0.53)
Czechia (2019, 18-55)	54.9% (51.8, 58.1)	1.53M (1.44, 1.62)	45.0% (41.8, 48.2)	1.19M (1.10, 1.27)	50.0% (47.8, 52.3)	2.71M (2.59, 2.84)
UK (2019, 16-75)	26.2% (23.6, 28.9)	6.38M (5.73, 7.03)	21.9% (19.4, 24.4)	5.40M (4.79, 6.01)	24.0% (22.2, 25.9)	11.77M (10.87, 12.66)
France (2019, 16-75)	32.8% (29.9, 35.7)	6.49M (5.92, 7.07)	22.0% (19.5, 24.5)	4.48M (3.97, 5.00)	27.3% (25.4, 29.3)	10.97M (10.19, 11.76)

Base: 2000 respondents in Estonia, 2000 in Finland, 2182 in Spain, 2001 in Slovenia, 2000 in Czechia, 2235 in the UK 2019 survey and 2159 in France (weighted).

Note: Data not collected in the UK 2016 survey or in Sweden, the Netherlands, Germany, Austria, Switzerland or Italy.

Appendix Table 10: Proportion of Working Age Population Ever Been Notified of Work and Ever Logged Work Via 'App'/Website and Having Had Work Rated By Customers by Country/Survey

	Ever had work rated by customers					
	Male		Female		Total	
Country, Year, Ages	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)	% (95% CI)	Number of people (95% CI)
Estonia (2018, 18-65)	30.3% (27.3, 33.3)	0.12M (0.11, 0.14)	14.8% (12.6, 17.0)	0.06M (0.05, 0.07)	22.2% (20.3, 24.1)	0.18M (0.17, 0.20)
Finland (2018, 18-65)	23.1% (20.4, 25.7)	0.39M (0.35, 0.44)	13.3% (11.1, 15.4)	0.22M (0.18, 0.25)	18.2% (16.5, 19.9)	0.61M (0.55, 0.67)
Spain (2018, 16-65)	40.7% (37.8, 43.7)	6.29M (5.83, 6.74)	26.9% (24.2, 29.6)	4.13M (3.72, 4.55)	33.9% (31.8, 35.9)	10.43M (9.81, 11.05)
Slovenia (2019, 18-55)	35.4% (32.4, 38.3)	0.19M (0.17, 0.21)	23.3% (20.6, 26.0)	0.12M (0.10, 0.13)	29.5% (27.5, 31.5)	0.30M (0.28, 0.32)
Czechia (2019, 18-55)	41.6% (38.5, 44.6)	1.16M (1.07, 1.24)	33.0% (30.0, 36.0)	0.87M (0.79, 0.95)	37.3% (35.2, 39.5)	2.02M (1.91, 2.14)
UK (2019, 16-75)	17.9% (15.6, 20.2)	4.36M (3.80, 4.92)	13.0% (11.0, 15.0)	3.20M (2.71, 3.69)	15.4% (13.9, 16.9)	7.55M (6.81, 8.29)
France (2019, 16-75)	26.0% (23.3, 28.7)	5.15M (4.62, 5.68)	15.4% (13.2, 17.6)	3.14M (2.69, 3.58)	20.6% (18.9, 22.3)	8.27M (7.57, 8.97)

Base: 2000 respondents in Estonia, 2000 in Finland, 2182 in Spain, 2001 in Slovenia, 2000 in Czechia, 2235 in the UK 2019 survey and 2159 in France (weighted).

Note: Data on being rated by customers not collected in the UK 2016 survey or in Sweden, the Netherlands, Germany, Austria, Switzerland or Italy.

work. There were of course some differences in the way these questions were asked, because of the different media used. In the face to face survey, lists of options could be shown on a screen so that respondents could see them. This was done to mimic the online methodology as closely as is possible. In the telephone interviews, these options had to be read out to the respondent.

Appendix 2 Table 1. Samples and stratification

Country	Sample size	Survey dates	Age range	Stratification
UK (online)	2,238	22-26 Jan 2016	16-75	Age, gender, region, social grade, working status
Sweden (online)	2,146	26 Feb-7 Mar 2016	16-65	Age, gender, region and working status
Germany (online)	2,180	1-4 Apr 2016	16-70	Age, gender, region, working status and social grade
Austria (online)	1,969	1-4 Apr 2016	18-65	Age, gender, region, and working status
Netherlands (online)	2,126	22-27 Apr 2016	16-70	Age within gender, economic activity, region, working status
UK (offline – face-to-face)	1,794	24 Mar-4 Apr 2017	16-75	Age, region, working status and social grade within gender, as well as household tenure and respondent ethnicity using ‘rim’ weighting procedures
Switzerland (offline – telephone)	1,205	27 Mar-7 Apr 2017	15-79	Age, gender, region and working status
Italy (online)	2,199	31 Mar-5 Apr 2017	16-70	Age, gender and region, with data weighted to these same variables, plus working status and economic activity to correct for any sample imbalances.
Switzerland (online)	2,001	3-14 Apr 2017	16-70	Age, gender, region and working status
Estonia (online)	2,000	8 Nov-10 Dec 2018	18-65	Age, gender, region and working status
Finland (online)	2,000	6-13 Dec 2018	18-65	Age, gender and region
Spain (online)	2,182	27 Nov-5 Dec 2018	16-65	Age within gender, region and working status
Slovenia (online)	2,001	21 Feb-5 Mar 2019	18-55	Age, gender and working status
Czechia (online)	2,000	19-25 Mar 2019	18-55	Age, gender, region and working status
UK (online)	2,235	26 Apr-1 May 2019	16-75	Age, gender, region, social grade and working status
France (online)	2,159	17-21 May 2019	16-75	Age crossed by gender, region and working status

Note: In the UK offline survey, questions were asked on CAPIbus, Ipsos MORI’s face to face omnibus survey, with questions asked to 1,794 adults 15+ in Great Britain, in their own homes, using Computer Aided Personal Interviewing (CAPI)

methodology. The sample was stratified using a random locale method across 180 sample points to ensure nationally representative sampling.
 In the Swiss offline survey, questions were asked as part of a telephone omnibus, using Computer Aided Telephone Interviewing (CATI) methodology. Interviews were sourced using Random Digit Dialling with quotas set on age, gender and region to achieve a nationally representative sample.

Comparison of online and offline results

In order to assess how representative the online surveys are of their associated populations, offline surveys were also conducted in the UK and in Switzerland. The UK offline survey was conducted by Computer-Assisted Personal Interviewing (CAPI) and the Swiss offline survey by Computer-Assisted Telephone Interviewing (CATI).

Clearly, any comparison of the online and offline results has to take into account that none of the approaches will be without inherent biases and thus none can claim to be a definitive benchmark of representativeness. However, when investigating an online-related phenomenon such as platform working via digital platforms, one must be aware that using a similarly online survey could run the risk of introducing important biases. It is thus of interest to compare the results of the online and offline surveys with this in mind. The object of the comparisons below is to assess whether or not the online survey may be overpopulated by respondents who are especially active online and are thus more likely to be undertaking platform work.

Appendix 2 Table 2 shows the results of examining responses to questions about levels of online activity in terms of selling possessions/products via websites and/or finding paying guests via websites. The frequency of such activity was recorded so we are able to obtain estimates of the proportion of the population engaged in this activity on a weekly basis or having ever engaged in such activity.

Appendix 2 Table 2. Comparison of online activity rates in UK/Swiss online and offline surveys with 95% confidence intervals

	Any online activity	Weekly online activity
UK online survey	56.9% (54.8%, 58.9%)	7.5% (6.4%, 8.6%)
UK offline survey	39.5% (37.2%, 41.7%)	5.5% (4.5%, 6.6%)
Swiss online survey	71.2% (69.1%, 73.1%)	14.3% (12.8%, 15.8%)
Swiss offline survey	41.0% (38.2%, 43.7%)	4.6% (3.5%, 5.9%)

Base: 2238 respondents in UK online survey, 1794 in UK offline survey, 2001 in Swiss online survey, 1205 in Swiss offline survey (weights used; missing and don't knows excluded; percentages rounded to nearest whole number).

When comparing figures in Appendix 2 Table 2, we must consider the survey mode effects that may be at work. It is known that offline surveys are more likely to be subject to recall bias and interviewer effects than online surveys and amongst offline surveys, those which are telephone-based may suffer to a greater degree than face-to-face surveys (characteristics observed by, amongst others, Tourangeau et al, 2000¹⁸). We are thus not surprised to see that activity levels are reported as being higher in the online surveys than the corresponding offline surveys. We are also not surprised to see that the difference between online and offline is larger for the Swiss surveys (where the offline survey was conducted via telephone) than for the UK surveys (where the offline survey was conducted face-to-face).

If it were the case that the sample in the online survey was biased towards those who have high levels of online engagement, then we would expect this to be expressed to a notable degree when

¹⁸ Tourangeau, R., L. J. Rips & K. Rasinski (2000) *The Psychology of Survey Response*, Cambridge: Cambridge University Press.

for purpose and we are able to present in this report figures from the online surveys without adjustment for survey mode.

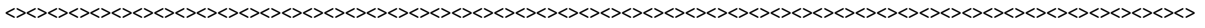
Appendix 2 Table 4. Maximum deviations to add/subtract to percentages to form 95% confidence intervals

Country, Year	Base on which percentage is calculated					
	All respondents	All male respondents	All female respondents	At least weekly platform workers	At least yearly platform workers	Platform workers giving data on personal income
UK (2016)	2.1%	2.9%	2.9%	9.6%	7.4%	3.7%
Sweden (2016)	2.1%	3.0%	3.0%	9.6%	7.2%	3.9%
Netherlands (2016)	2.1%	3.0%	3.0%	9.6%	7.7%	4.3%
Germany (2016)	2.1%	3.0%	3.0%	8.4%	6.3%	3.4%
Austria (2016)	2.2%	3.1%	3.1%	7.2%	5.4%	2.9%
Switzerland (2017)	2.2%	3.1%	3.1%	6.9%	5.3%	3.0%
Italy (2017)	2.1%	3.0%	3.0%	5.9%	4.7%	2.6%
Estonia (2018)	2.2%	3.2%	3.1%	7.8%	5.4%	3.0%
Finland (2018)	2.2%	3.1%	3.1%	7.7%	6.2%	3.3%
Spain (2018)	2.1%	3.0%	3.0%	5.1%	4.1%	2.3%
Slovenia (2019)	2.2%	3.1%	3.2%	5.1%	3.8%	2.1%
Czechia (2019)	2.2%	3.1%	3.1%	4.1%	3.4%	2.0%
UK (2019)	2.1%	2.9%	2.9%	6.7%	5.4%	2.9%
France (2019)	2.1%	3.0%	3.0%	7.6%	5.7%	3.2%

Estimates and confidence intervals

In this report, percentages given are based on weighted calculations to adjust for small deviations of the sample from population characteristics. Missing and “don’t know” responses have been excluded. Where percentages have been expressed as number of people, these figures are similarly weighted. Where counts of respondents (not based on percentages) are reported, these are not weighted.

Confidence intervals have not been given in the main body of the report for ease of readability. Appendix 2 Table 4 gives the maximum deviations that should be add to/subtracted from these figures to form 95% confidence intervals.



UK4	household services	male	38	UK	Poland
UK5	household services	female	42	UK	UK
UK6	taxi services	male	48	UK	Turkey
UK7	taxi services	male	39	UK	Pakistan
UK8	taxi services	male	32	UK	UK
UK9	taxi services	male	43	UK	Turkey
UK10	teleworker for large company managing assignment of tasks to independent contractors	male	59	UK	UK
UK11	self-employed consultant using online platforms to gain additional work	male	69	UK	UK
UK12	self-employed consultant using online platforms to gain additional work	male	69	UK	UK
UK13	online tasks	female	58	UK	UK
UK14	delivery services	male	n/a	UK	UK
UK15	household services	female	37	UK	Czech Republic
GER1	Selling own handicrafts via online platform	female	66	Germany	Germany
GER2	online tasks	female	58	Germany	Germany
GER3	online tasks	male	29	Germany	Germany
GER4	online tasks	male	40	Germany	Germany
GER5	delivery services	male	32	Germany	Bangladesh
GER6	delivery services	male	20	Germany	UK
GER7	product designer using online and offline means to find and perform work; also participates in online competitions.	male	30	Germany	Germany
GER8	online tasks	female	35	Germany	Germany

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