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NON-TECHNICAL SUMMARY

The first issue dealt with in this paper pertains to the distribution of flexible labour across the various countries of the EU, comparing the results of the European Community Household Panel (ECHP) with the 1996 Labour Force Survey. Next, time measures of longitudinal employment were used, whereby the focus was particularly on the transitions between the various longitudinal employment statuses. The employment statuses were called employment profiles because they picture the employment history over a 36-month period of observation. An empirical model was developed to explain the transitions between these statuses and various regression models were estimated using the ECHP data. We were particularly interested in transitions from insecure employment and partial exclusion into secure employment or full exclusion.

Extending on Esping-Andersen's typology, European countries are clustered in four ideal-typical regimes: a liberal, social-democratic, corporatist and southern regime. Both from a theoretical and empirical perspective, this clustering seems to make sense.

It appears that the share of flexible labour is much higher in the Southern countries. Next, looking at the distribution of employment profiles across the regime types, it was found that mobility from partial exclusion and insecure jobs into secure and permanent jobs is higher in the liberal and social-democratic countries than in the South. On the other hand, permanent employment appears to be more stable in Southern countries. The opposite holds for flexible jobs being more fragile in the South. Both results might be due to the high level of employment protection regulation in the Southern region.

Overall, remarkable stability with respect to permanent employment was observed. More than 85 per cent of the permanent workers remained in their job between 1993 and 1995. On the other hand, there is substantial mobility between secure and insecure jobs. The image of a segmented labour market with secure jobs on the one side and flexible, insecure jobs on the other is far from reality in either employment regime. The closer the attachment to the labour market, the higher the income is for the various status groups compared to the people in secure employment. Next, looking at transitions from one longitudinal employment profile into another, confirms our previous results. Upward mobility is higher in the liberal and social-democratic countries and lower in the South. In addition, downward mobility is higher in the South. The Southern regime is, therefore, performing worse in terms of enhancing job mobility and preventing labour market exclusion.

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Abstract

Using longitudinal information on labour market participation we analyse the dynamics of unemployment in Europe. We focus in particular on individuals with a poor attachment to the labour market. The countries under scrutiny are clustered into four ideal-typical welfare regimes. Overall, a remarkable stability with respect to permanent employment is observed. But on the other end, there also is a substantial mobility between secure en insecure jobs. Nevertheless, mobility from insecure employment to secure employment is found to be larger in liberal and social-democratic countries than in Southern Europe.

Keywords: labour market exclusion, labour market dynamics, insecure employment, ECHP

JEL-codes: E24, J64, J68

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1 Working profiles and changing concepts of work

The concepts of work are changing. Life-time employment, meaning working 40 hours a week for 50 weeks a year over a 40-year period often with the same or a limited number of employers, is losing ground in favour of more flexible and diverse patterns of life-time employment. European economic and monetary integration will give a further impetus to the upswing of the process of increasing mobility and turnover on the labour market.

The rise of atypical work and non-standard contracts reflects the need of firms to adapt quickly to rapidly changing market conditions. These market changes are emerging particularly from developments in information and communication technologies. The notion of the 'flexible firm' implies that the adaptability of firms as far as personnel management is concerned, is partly also established by the creation of core and peripheral workers segments. The existence of these two segments does not necessarily imply that there is no or little mobility between them. On the contrary, for theoretical as well as empirical reasons it might be true that the mobility within and between the two segments is rather high and, therefore, overall labour turnover might even rise. Images of *segmentation* and *dynamics* are two sides of the same coin. Some individuals within the peripheral group of workers might move quickly into permanent jobs while others keep wandering around in the lower strata of the labour market. But neither are core workers deemed to stay in the same jobs; on the contrary 'job-hopping' might be a better strategy to raise one's long-term career prospects or permanent income than staying with the same employer.

Quite a few individuals belonging to the better strata of the labour market might experience rapid moves from one job to another either within the firm or in the external labour market. Whether this is actually the case for all workers might be questionable, but the image of a world with large segmentation and hardly any mobility is far from reality. The concept of a 'transitional labour market' might gain importance in current labour markets. This implies that for a rather large portion of society, working life becomes a continuing sequence of short employment and unemployment spells. Lifetime employment with the same employer, although still the reality for many workers, will increasingly be unattainable for many new entrants to the labour market. This leaves aside the fact that modern workers are likely to be unwilling to stay with the same firm for their entire career due to changes in labour and leisure preferences (Muffels, 2000).

The aim of this paper is to acquire a deeper insight into these flows on the labour market and the factors that might be responsible for the great variations in these employment patterns between individuals and households both within and across countries. The focus will be especially on patterns of

partial employment according to the attachment of the person to the labour market in a given period of time. These employment patterns are called working profiles and it is claimed that these profiles provide a better insight into modern labour markets because of their focus on the dynamics or changes of employment and unemployment status over time. The attachment to the labour market over a certain time and particularly the length of the intermittent periods of withdrawal from the labour market determine the extent to which people are in full or partial employment and therewith, whether they are fully or partially included.

Then, in a dynamic perspective, labour market exclusion refers to longitudinal employment patterns over time with intermittent periods of unemployment, disability or, even, early retirement. These intermittent periods of withdrawal constitute cases of exclusion only in so far as these are enforced due to collective layoffs, disability or retirement. If they are the result of free will, as might be true for temporary jobs or part-time employment, it is not justified to speak of exclusion because people prefer these jobs for their shorter working hours or for rendering more leisure time. With increasing age, in many cases a forced retreat from the labour market can be observed due to retirement, redundancy or collective layoffs. Therefore, labour market exclusion in terms of *enforced idleness* might apply to the long-term unemployed, those seeking work but not able to get the job they want, the underemployed who work less than they want and the disabled and senior workers who are not expected to work. However, there is little information in the ECHP data about whether the exclusion is due to enforced idleness or free will and preferences for leisure¹. Especially for female and older workers this neglect of the unforced or forced nature of exclusion might lead to an over-estimation of the extent of exclusion. There is not much we can do here except to be cautious about drawing far-reaching conclusions on the extent of labour market exclusion. Therefore, when we use the term 'exclusion' it is in a non-normative, positive sense, meaning that the excluded do not take part in the labour market, without suggesting that it is *enforced idleness* that makes them 'excluded'.

Definitions of Longitudinal (Un)employment

The ECHP has only been running for a short period of time, from 1994 onwards, and to date only the data for the first three waves of 1994 to 1996 are available. In looking at the transitions on the labour market, the paper

¹ There is some information on the number of hours people want to work for the reference week, the week just before the date of interview, but not on the number of annual hours people want to work. However, that is the kind of information needed if the idea is to use the monthly calendar information to determine longitudinal work profiles.

only deals with information over 36 months of observation. Nevertheless, at the European level, three years seem sufficient to observe various transitions from steady jobs into marginal employment and vice versa, and from one longitudinal employment status into the other. Considering the relatively short observation period in the mid-nineties, it cannot be ruled out that the mobility patterns we observe are influenced by differences in the business cycle across countries. At the time of observation, however, all countries under scrutiny were in the same (upward) phase of the business cycle.

The focus in this paper is on longitudinal employment and unemployment patterns. The ECHP provides information on the activity status of the respondent for each month in the calendar year prior to the interview date. The activity status variable is then transferred to a longitudinal activity status variable called 'main status', i.e. the most frequent status observed on a monthly basis over the 36 months of observation. The frequency of monthly status, then, determines whether people are employed, unemployed or inactive over the 36-month period (usual status). In addition to the 'usual status', everyone whose main status is 'not working' in a particular month has been treated as being unemployed. Therefore, in this approach people are considered inactive only when they were not working during all of the 36-month period, i.e. not working all of the time.

2 Unit of Analysis

The unit of analysis is the individual within the household. The research subject involves the unemployment profile of the person but it is assumed that this individual profile is affected by the social and economic situation of the household, which, in turn, means the labour market and financial situation of the individual household members. Implicitly, it is therewith assumed that although individualisation patterns are widespread, the household is still the economic unit within which important decisions with respect to labour supply are jointly made. In our empirical models, information on the household is, therefore, included to take account of the role of the family with regard to employment decisions. Only the adults of working age are considered in the analyses.

Work insecurity has been defined as a weak attachment to the labour market in a longitudinal sense (working less than 50% of the potential 36-month working period). Because the observation period is rather short, only short work patterns can be observed. If the time horizon could be extended, working patterns might change.

To say that if people are working less than 50% of the potential working time over a three-year period they are work-insecure does not imply that they consider themselves to be, or feel, work-insecure. The subjective work-

security status also depends on their preferences for work; i.e. the number of months and hours they actually want to work. In the ECHP there is some information on whether people are looking for a job and for how many hours. It is not known how many months during a year they really want to work and for what reasons they want to work less than the full 12 months. In future research the issue of how these labour supply variables might affect the outcomes of our analyses will certainly be tackled.

3 Employment Regimes and Flexible Labour

Comparative research into the labour market should take account of the evidence that stocks and flows on the labour market are affected not only by the demographic and economic situation at the country level but also by cross-national institutional differences reflected in labour market policies and social security designs. Looking at the national settings it appears that there is great variety in goals, objectives, tools, institutions and policies. Despite this variety, the idea that these systems cluster one way or another in a limited set of welfare and employment regimes is well-known in the literature. These regimes represent different 'worlds of welfare capitalism' (Esping-Andersen, 1990, 1996, 1999), each being internally tightly integrated, and each being sharply differentiated from one another (Goodin et al., 1999). Each welfare state is, of course, uniquely defined by its own logic in terms of institutional set-up, policy design, and functioning but as suggested by Esping-Andersen also clusters around some distinct 'ideal-typical' regime type. His typology was criticised by authors like Leibfried (1992), Ferrera (1996) and Bonoli (1997) for his neglect of what they called a Southern or 'Latin-Rim' model of the welfare state. They argued that the Southern, Mediterranean countries belong to a different welfare regime type with its familial characteristics and its immature and selective social security system granting poor benefits and lacking a guaranteed minimum benefit system. Esping-Andersen admitted in his later work (1996) that the Southern countries share some Catholic and familial traditions but do not form a specific type or group of countries, but were merely underdeveloped forms of the traditional Corporatist type (Arts and Gelissen, 1999).

This issue will not be elaborated further here, since the data limitations confine us within the level of detailed analysis. The ECHP data cover transitional data for a period of three years only and since a number of country samples are small in size like Luxembourg, the Netherlands, Belgium, Greece and Ireland, there is a lack of sufficient transitions to conduct detailed analyses. Since the ECHP data contain information on the Southern European countries, it is feasible to test whether the Southern labour markets show an essentially distinct pattern. One could opt for a regional

classification into Northern, Central European and Southern European countries. Apart from the lack of theoretical underpinnings for such a distinction, its disadvantage is also that the UK, Ireland and the Nordic countries like Denmark and Finland would be classified under the same heading. According to Esping-Andersen's classification of liberal, conservative-corporatist and social-democratic countries (1990) the UK and Ireland, as liberal welfare states in an 'ideal-typical' sense, should be set apart from the Nordic (Denmark and Finland; the ECHP does not contain any information on Norway or Sweden yet) and continental social-democratic welfare states (Netherlands). The classification of Ireland under the liberal heading by Esping-Andersen (1990, 1999) is, however, rather doubtful. Considering a range of labour market indicators, it only shares the liberal feature of a low level of employment protection regulation. Looking at the other labour market indicators it seems to share the corporatist feature of an active labour market policy and the corporatist 'breadwinner's state' characteristic of a low female employment rate. In terms of familial characteristics, it shares the typical features of a Southern welfare state. Ireland should, therefore, be considered as part of a *hybrid* type of welfare state that does not fit into any of the 'ideal-typical' welfare states. In order to avoid the inclusion of Ireland as the only example of a hybrid type it was decided to keep it under the same liberal heading as the UK and to test, using the three-wave European panel-data, whether that makes sense empirically. For that reason it was decided to use an amended version of Esping-Andersen's classification. The UK and Ireland remain under the liberal heading, notwithstanding our reservations for Ireland, but the Southern welfare states are set apart as a distinct regime (Arts and Gelissen, 1999; Goodin et al., 1999). Countries like Germany, Belgium, France, Austria and Luxembourg belong to a continental corporatist type of welfare state and the Netherlands and the Nordic welfare regimes are classified under the social-democratic regime heading. The Southern regime cluster includes Spain, Portugal, Greece and Italy.² Since our analyses involve the labour market performance of these welfare regimes, we will use the term employment regime instead of welfare regime.

4 Temporary Employment and Flexible Labour Contracts

There is some evidence (European Commission, 1999; OECD, 1999) that the Southern labour markets are indeed quite different from the labour markets in

² To test the reliability of this classification, the empirical model for partial exclusion in Section 6 (see Table 6) has been estimated using country dummies instead of 'employment regime' dummies. It emerges that the model including the employment regime dummies 'captures' 97% of the variance of the model with country dummies.

Northern and Central Europe in some respects (employment regulation, unemployment level, share of non-standard jobs or flexible labour, share of informal economy). This can be shown when the distribution of non-standard and *temporary employment* is looked at across a number of European countries.³ In Table 1 the figures on the distribution of temporary, casual and other types of non-standard employment are depicted for 1996, the latest year for which we have information.

Looking at the figures for non-standard, flexible employment it is not surprising that the largest share of flexible labour is found in countries with the highest level of employment protection regulation i.e. the Southern countries like Spain, Portugal, Greece and, to a lesser extent, Italy. Remarkably, though, Ireland also has a high level of flexible employment despite a low level of employment regulation. Smaller but still sizeable figures are found in the Northern countries, such as Denmark and Finland. Much smaller numbers are found in Luxembourg.⁴ Countries like France, the Netherlands and the United Kingdom, have sizeable levels of atypical employment, which are in between the numbers for the Southern and the Northern European countries. Nevertheless, they have average or low levels of employment regulation. The Northern countries, in common with some Southern countries, share the fact that 'casual work and other arrangements' are quite large. In Italy and Portugal these two job types account for 40% of all flexible jobs and in Greece even for 70%. In the United Kingdom and Ireland its share is about 50% and in the Netherlands 70% (particularly temporary agency and on-call contracts). It emerges that, except for Spain, countries with large numbers of atypical jobs have large numbers of these very 'typical' jobs like temporary agency work, on-call contracts, zero-hours contracts, labour pool jobs, freelance jobs, housework and the like. The welfare state classification does not provide much added value to the figures for the different countries. It appears that the liberal, social-democratic and corporatist regime types are very similar in terms of the relative size of the flexible workforce, whereas we would expect the highest level in corporatist and social-democratic countries. The highest levels are, indeed, found in the Southern regimes in which one in five employees has a flexible job.

³ The Netherlands is included in the analyses although the Dutch data do not contain calendar information on the employment statuses over time on a monthly basis. However, using the information on the number of months people are in particular statuses it appeared feasible from these 'count data' to construct the longitudinal employment status variable indicating the number of months people are in employment or unemployment over the year (by giving precedence to work over unemployment and inactivity).

⁴ Figures for Luxembourg should be taken with caution because the number of observations is extremely small.

In Table 1 the figures from the ECHP 1996 are also compared with the Labour Force Survey 1996 figures.⁵ The picture that comes out of the ECHP is not very dissimilar to the one that comes out of the LFS. A rather broad definition of flexible labour is also used in the LFS, including temporary jobs, temporary agency work, casual work and the like. The LFS figures provide identical rankings except for a few countries where remarkable and unexpected differences occur, such as for Ireland and Greece. The countries showing the largest difference according to the LFS figures are also countries with high shares of 'casual jobs and other arrangements'. If we leave out this flex-job type, we find that the ECHP figures are generally lower than the LFS figures. Therefore, it appears that the LFS includes some, but certainly not all, of the jobs being included in the 'casual jobs and other arrangements' category within the ECHP (see also Meulders et al., 1994; Bosch, 1995; Delsen, 1995).

⁵ The LFS figures include all types of temporary jobs like fixed term contracts, temporary agency work, casual work and on-call contracts.

Table 1: Proportion of people of working age in permanent and non-standard jobs, by category, country and regime type, 1996 (figures for the total adult population 16 years and older in employment)

	Perma- nent job	Tempo- rary job	Casual work	Other arrange- ments	Total flexible jobs	Flexible jobs (LFS)
Belgium	88.6	9.2	0.8	1.4	11.4	6
Denmark	85.7	6.4	7.3	0.7	14.4	11
Germany	87.5	6.7	2.4	3.4	12.5	11
Greece	76.6	7.9	14.5	1.0	23.4	11
Spain	63.4	29.9	4.2	2.5	36.6	34
France	90.0	10.0	0.0	0.0	10.0	13
Ireland	81.5	6.1	9.7	2.7	18.5	9
Italy	87.5	7.6	2.8	2.1	12.5	8
Luxembourg	93.6	3.4	1.8	1.2	6.4	3
Netherlands	89.9	3.1	0.6	6.4	10.1	12
Austria	88.6	5.8	0.8	4.9	11.4	8
Portugal	81.3	11.2	3.7	3.8	18.7	10
Finland	84.7	12.4	1.9	1.1	15.3	17
UK	87.5	5.8	4.1	2.7	12.5	7
Sweden	-	-	-	-	-	12
Europe 14	85.6	9.2	2.7	2.5	14.4	12 ¹⁾
<i>Non-European countries</i>						
United States ²⁾	-	-	-	-	-	2.2
Canada ³⁾	-	-	-	-	-	8.8
Japan ⁴⁾	-	-	-	-	-	10.4
<i>Employment regime</i>						
Liberal	87.2	5.8	4.3	2.7	12.8	-
Social Demo.	88.0	5.5	2.4	4.1	12.0	-
Corporatist	88.5	7.9	1.4	2.2	11.5	-
Southern	77.4	15.9	4.4	2.3	22.6	-

1) Figures for Europe for 15 countries including Sweden

2) Source OECD Employment Outlook 1996 (figures of February 1995)

3) Figures for 1994 for the age group 15–24

4) The age group is 15–19

Source: EUROSTAT, ECHP 1996.

'Insecure' Jobs

The number of workers in non-standard employment is one indicator of a loose attachment to the labour market but a rather static one. Longitudinal measures of flexibility or insecurity are preferable but here the data limit the sort of analyses that can be conducted. Because of a lack of information on the type of contract in the first wave of the ECHP, it only appeared possible to look at the changes across the second and third waves. In Table 2 the

transitions between the various working statuses between 1995 and 1996 are presented.

The stability in working status across both years is largest for the people in permanent jobs and in unemployment or non-participation. About 9 out of 10 people remained employed or not working across both years. Mobility is largest for people in atypical jobs like a temporary or casual job. Only 43% of the people in a temporary job remained in that job the year after and almost 30% moved into unemployment or out of the labour force. No less than a quarter of people in temporary jobs moved into a permanent job the next year. The mobility into permanent jobs is highest for the 'other arrangements' type of jobs. Almost half of them, 45%, were capable of moving into a permanent job the year after.

Table 2: Transition rates of employment status between 1995 and 1996 in Europe¹⁾

Employment status	PE	TC	CW	OA	NW	Total
PE	89.1	1.8	0.8	1.2	7.2	100
TC	25.5	42.7	1.6	2.7	27.7	100
CW	25.1	6.6	27.7	7.3	33.4	100
OA	45.7	7.0	3.3	23.8	20.2	100
NW	6.6	2.9	0.9	0.5	89.1	100
Europe	39.0	4.2	1.2	1.1	55.5	100

PE = permanent employment; TC = temporary contract; CW = casual work; OA = other arrangement; NW = not working (unemployed or non-participant).

1) Excluding Finland

Source: EUROSTAT, ECHP 1995-1996

In all employment regimes stability appears highest for the people in permanent jobs and for people not working at all during the two-year period (the table is reproduced in the appendix). The differences in job stability across the regimes are insignificant whereas the position of the non-working people is most stable in the Southern regime. Non-working people obviously have fewer chances to move into employment in the Southern regime than they have in the other regime types.

Compared to other employment regimes, non-working people in the social-democratic welfare states have the highest chances of getting a job. About a quarter of them found a job in the two-year period between 1995 and 1996, and the great majority of these jobs were permanent jobs. The corporatist and liberal welfare states perform worse in this perspective, contradicting our previous expectations. The hesitations we had in classifying these countries as liberal seem to find some ground in the data. Looking at the mobility patterns of people in temporary jobs it is shown that they are more

likely to move into permanent jobs in the liberal countries than they do in the social-democratic and corporatist countries. The Southern regime performs worse in getting workers from non-standard jobs into permanent jobs, although it has the largest share of flexible jobs. For this reason and because of the worse employment situation in Southern countries, only one in five people in a temporary job moved into a permanent job two years later; whereas it was one in three people in the liberal regimes. The same pattern is found for casual jobs and partly also for the 'other arrangements' category, although the corporatist regime performs better for both types of jobs in terms of mobility rates into permanent jobs than the social-democratic regime. The differences are quite large, especially for the 'other arrangements' category. Almost 60% of the people in this type of job found a permanent job within two years in the corporatist countries but only 30% in the Southern countries.

5 Labour Market Attachment and Regime Type

A more challenging way to look at work insecurity and weak attachment to the labour market is in the use of longitudinal information on employment and unemployment. On an annual basis, the degree of attachment to the labour market is measured by counting the number of months people are in employment or unemployment during the 12-month period. For a long-term perspective, the same is done for the three years of data at our disposal. The long-term labour market attachment is defined in accordance with the number of months the respondents were employed during the 36-month period (cf. Table 3).⁶ The employment status of the person is labelled *insecure* when a person is partially employed and the proportion of time spent in employment during the observation period is below 100%. People are in *secure employment* when the proportion of time spent in employment is 100% or, in other words, when they have worked all the time. The labels of 'partial' and 'full' exclusion from the labour market are assigned to situations where the proportion of time spent in employment are, respectively, less than 50% and equal to 0%.

⁶ Because, in the ECHP, only the 1995 and 1996 waves of data are available for Austria and 1996 for Finland, for these countries no employment profile could be computed for the missing years. No calendar information is available for the Netherlands. The information on the number of months worked was matched from the Dutch Socio-Economic Panel, which is the dataset used in the ECHP for the Netherlands.

Table 3: Longitudinal definitions of employment/unemployment

Proportion of time spent in Employment/ unemployment	Definition of longitudinal employment state
0%	Fully excluded
0-50%	Partially excluded
50-99%	Partially employed (work insecure)
100%	Fully employed (work secure)

Table 4 depicts the longitudinal employment profiles computed from the 36 months of information. About 58% of the working-age people in all countries are fully (44%) or partially (14%) employed, whereas about 41% are partially (11%) or fully (30%) excluded from the labour market. Hence, more than one in four persons in Europe is experiencing precarious employment conditions over the 3-year period (partially employed or partially excluded).

It might be expected that the longitudinal attachment to the labour market would be weaker in Southern countries due to higher levels of unemployment compared to the social-democratic and corporatist countries. If the evidence for the various employment regimes is examined, it indeed seems true that the number of people not working due to long-term persistence of unemployment (for a consecutive period of 36 months) or being persistently out of the labour force is substantially higher (41% against 23% in the social-democratic countries).

Table 4: Proportion of persons of working age by longitudinal employment status, 1993-1995 (36 months)¹⁾

	Fully employed (work secure)	Partially employed (work insecure)	Partially excluded	Fully excluded	Total
Europe	44.2	14.2	11.4	30.2	100
Liberal	47.1	17.5	11.8	23.6	100
Social-democratic	47.7	16.8	12.9	22.6	100
Corporatist	48.7	14.6	10.4	26.3	100
Southern	35.9	11.4	12.1	40.6	100

1) For Austria and Finland the variable is defined over the last 24 and 12 months, respectively

Source: EUROSTAT, ECHP 1994–1996.

6 Upward and Downward Mobility by Regime Type

In Table 5 transition matrices for the employment status between 1993 and 1995 are presented. The percentages on the diagonal of the transition matrix show that there is a good deal of stability in the labour market position of workers and job seekers. Most of the workers in secure employment stayed in secure employment over the three years (87%). This evidence should be of concern for policy-makers because when regimes do manage to get people from insecure into secure jobs, it is likely that people stay in these stable jobs for a long time. Overall mobility from one state into the other is rather substantial. A closer look shows that it is not only upward mobility that is high in Europe but downward mobility as well. For the partially employed (work insecure) the findings show that about 50% were capable of moving into secure employment in the period. At the same time almost half of them (50%) were not and either stayed in insecure employment (21%) for the next 36 months or moved into full exclusion from the labour market (29%). The evidence for these weakly employed people shows that the labour market prospects for them are mixed. For half of them the prospects are good while for the other half they are rather bad because their attachment to the labour market is gradually declining and in the final stage they become fully excluded from the labour market.

Overall, the conclusion might be that there is a large segment in the labour market for which the employment opportunities are rather good, even after being employed in precarious jobs, whereas a sizeable segment lives in steadily worsening labour market conditions. It is certainly not true that once people have unstable jobs, they have few chances of moving into stable jobs. This challenges the view that the labour market is segregated into tracks of stable or secure jobs and unstable, insecure jobs between which there is little mobility. On the other hand there is quite some persistence in inclusion as well as exclusion in the labour market, indicating that the images of high labour turnover and a sizeable amount of labour market exclusion are indeed two sides of the same coin in modern labour markets (Verma et al., 1999; Muffels and Steijn, 1999).

The number of *persistently employed* is much lower in the South (36% against 49% in the corporatist countries in Central Europe). Security of employment is lower in the Southern region and, hence, the attachment to the labour market is weaker. However, unexpectedly, the prevalence of *precarious employment* (partially employed + partially excluded) is higher in the liberal and social-democratic countries at 30%, as opposed to 23% in the South. The continental corporatist countries are in between. There seems to be more instability in the longitudinal working status of people who are partially employed or partially excluded from the labour market. On the other

hand the findings show that (1) full employment over time is *equally stable* in the liberal, social-democratic and corporatist countries and slightly less stable in the South and (2) that full exclusion from the labour market, due to lack of employment, is *more prevalent* in Southern countries.

Table 5: Proportion of persons moving between employment status between 1993 (12 months) and 1995 (12 months) by regime type (in percentages of all persons belonging to the category in 1993)¹⁾

Regime type	Fully employed (work secure)	Partially employed (work insecure)	Partially excluded	Fully excluded	Total
Europe					
Fully employed	86.8	4.3	1.7	7.2	100
Partially employed	50.4	14.8	6.3	28.5	100
Partially excluded	41.3	14.6	11.8	32.3	100
Fully excluded	10.5	3.7	4.8	81.1	100
Liberal					
Fully employed	86.6	5.4	1.8	6.2	100
Partially employed	58.9	9.9	3.8	27.4	100
Partially excluded	46.5	16.3	7.9	29.4	100
Fully excluded	13.2	5.5	6.1	75.2	100
Social-democratic					
Fully employed	87.6	5.1	2.2	5.1	100
Partially employed	45.7	24.9	8.7	20.7	100
Partially excluded	40.5	17.5	13.6	28.4	100
Fully excluded	12.1	6.2	7.2	74.5	100
Corporatist					
Fully employed	87.9	4.0	1.6	6.5	100
Partially employed	52.1	14.4	6.1	27.5	100
Partially excluded	47.8	14.4	7.9	30.0	100
Fully excluded	12.0	4.0	5.0	79.1	100
Southern					
Fully employed	85.0	3.7	1.7	9.6	100
Partially employed	41.6	16.6	8.1	33.6	100
Partially excluded	28.4	13.0	19.6	39.0	100
Fully excluded	8.0	2.5	3.8	85.7	100

1) Excluding Finland and Austria

Source: EUROSTAT, ECHP 1994, 1996.

The evidence on precarious employment is therefore different from what was found earlier with respect to flexible labour being more prevalent in Southern countries. The Southern countries seem to have a different *employment record* compared to the other countries because they have less stable employment, less unstable employment but more stable unemployment. From

other sources it is known that the Southern states are characterised by strong employment regulations (OECD, 1999), less active labour market policies and high unemployment rates due to lower economic growth rates. The number of people in employment is generally lower, as is employment growth. This might point to a different type of employment regime.

Subsistence security is not attained in Southern welfare states by a generous welfare system as in the social democratic regime, or in a highly flexible, efficiently operating labour market with low unemployment rates, as in the liberal regime, but by a highly regulated labour market with employment security. Employment security seems to be attained at the expense of a less efficiently operating labour market, because of which such a regime has to accept high levels of unemployment and inactivity. The picture emerging from the welfare state type of classification is that the Southern employment regime appears to be quite distinct from the continental corporatist and social-democratic regimes in the North. However, the liberal regime type is hardly distinguishable from the continental corporatist one. The liberal type certainly has less employment regulation but the share of temporary employment is substantial and larger than one might expect in a liberal regime where there is no need to attain flexibility through temporary jobs, since flexibility is innately achieved by a low level of employment protection and prevailing firm practices with respect to layoffs and quits in situations of demand cuts.

The evidence found here, that the number of people with a weak attachment to the labour market appears lower in the Southern countries, does not mean that the labour market performs better. People need not stay unemployed for shorter periods in these regimes nor do they have more chances for escaping from precarious employment. Due to the lower economic and employment growth in the Southern countries the chances of moving upwards on the job ladder into permanent jobs is likely to be smaller than in the other European countries. To examine this issue further, the transition probabilities of moving upwards or downwards on the job ladder across the various countries are analysed.

To what extent the *employment regime* is capable of guaranteeing that people move from partial or insecure employment into secure employment should be an important indicator for the labour market performance of welfare states. The upshot for these employment regimes is to what extent they permit people in partial employment or partial exclusion to escape from these precarious jobs and to move upwards into better, more secure jobs.

The transitions across the three years by regime cluster are depicted in Table 5. In liberal, social-democratic and corporatist states people in full, secure employment in 1993 have slightly higher chances of remaining in stable jobs in 1994 than they have in Southern Europe. The findings show

that in the South more people in full or secure employment are likely to move into full exclusion from the labour market the following year (10%, as opposed to 5-6%). Furthermore, partially employed and partially excluded people have much higher chances of escaping from unstable and moving into stable jobs in the liberal, corporatist and social-democratic states than people have in the Southern region. The Southern people with partial or insecure labour records in 1993 have much lower probabilities of getting out of that situation and moving into secure jobs. About 42% of the people in insecure jobs in the South are capable of moving upwards on the job ladder into stable jobs against 60% in the liberal states, 52% in the social-democratic countries and 46% in the corporatist countries (the European average is 50%). Further, the proportion of people moving from partial employment into full exclusion is still higher in Southern countries than in the other regions (34% in the South against 21% in the social-democratic countries and 28% in the liberal and corporatist countries). The conclusion must be that upward mobility is lower in Southern Europe and downward mobility higher. From a review of the evidence on the labour market performance of these employment regimes, it might be concluded that the Southern regime is performing worse in terms of enhancing job mobility and preventing labour market exclusion. What the reasons for these differences are, apart from differences in employment protection legislation, is left for further scrutiny.

In the next section, this issue is examined by estimating explanatory models for explaining why some people are more likely to be work secure whereas others are more likely to be excluded from the labour market. Two types of models were estimated, (1) a model which explores the probability of belonging to any employment status (as defined on the 36 months of observation) and (2) a transition model exploring the changes in 12-month employment status between the first and last year.

Determinants of Longitudinal Employment Status

First we model the probability of belonging to one of the longitudinal employment status for the 36-month period. Results are given in Table 6. We contend that having a particular status is likely to be not the result of a random walk but affected by what happened before the observation date. We therefore posit the existence of a *selection effect* for which we need some correction procedure. Previous work and unemployment history are therefore added to the model and our hunch is that they will affect the likelihood of belonging to the work insecure. The people having an unstable work history in the 36 months prior to the interview in 1996 will be more likely to occupy an insecure job in 1996 than people with a stable work history. We also included a life satisfaction score, since life satisfaction is expected to be at

least partly the result of the current living situation and partly the result of what happened in the past. The variable is meant to capture part of the selection effect, though we could presume that the satisfaction score is a personal trait and that holding a more positive attitude towards life provides better chances in the labour market. The inclusion of age and age squared should measure the labour market opportunities by age as well as the declining labour force participation at higher ages. The human capital variables are included to take account of the differences in labour market opportunities by education level (Becker, 1964; Mincer, 1993). Further, we contend that these human capital variables play a role in the outcomes of the search process for a better job. Our conjecture is that people not satisfied with their current job due to being in a temporary or insecure work contract or being lowly paid, search for a better job. Better educated people are more likely to be successful in getting their preferred job. This hypothesis follows the well-known 'job search' theoretical approach (e.g. Lipmann and McCall, 1986; Mortensen, 1986; Narendranathan and Nickell, 1986). We also contend that the change in labour market position over time might also depend on the 'job search' efforts of the individual.

The dummies for having capital or social transfer income are incorporated in the model to capture the 'incentives-to-work' effect. We include regional variables to account for the effect of differences in employment policies or employment regimes. The variables are measured at the beginning of the observation period (wave 1).

Table 6: Estimation results of the multinomial model for explaining the belonging to the longitudinal employment status groups, 1993-1995 (36 months), Beta coefficients (reference group: partial exclusion)¹⁾

	Fully employed (work secure)	Partially employed (work insecure)	Fully Excluded
Male	Reference	Reference	Reference
Female	-1.019**	-0.456**	0.795**
Age	0.475**	0.141**	-0.081**
Age squared	-0.006**	-0.002**	0.002**
Low education level	-0.249**	-0.056**	0.051*
Average education level	Reference	Reference	Reference
High education level	0.273**	0.350**	-0.551**
Number of children	-0.079**	-0.075**	0.199**
Household size	-0.140**	-0.100**	0.077**
Single	Reference	Reference	Reference
Couple no child	-0.176	-0.020	-0.141*
Couple with child(ren)	-0.016**	-0.166**	0.068
Lone parent	0.058	-0.541**	0.210**
Other	0.002	0.220**	-0.408**
Never married	Reference	Reference	Reference
Married	0.539**	0.340**	-0.303**
Separated	0.469**	0.297**	-0.315**
Widow(er)	1.047**	0.394**	-0.419**
Life satisfaction	0.100**	0.024	0.047**
No capital income	Reference	Reference	Reference
Capital income	0.417**	0.264**	-0.356**
No social transfer income	Reference	Reference	Reference
Social transfer income	-1.914**	-0.498**	-0.100**
Liberal	Reference	Reference	Reference
Social democratic	-0.539**	-0.263**	-0.162**
Corporatist	-0.011	0.019	-0.044
Southern	-0.669**	-0.573**	0.516**
Constant	-7.047**	-1.504**	0.095

N = 77,856; Pseudo R² = 0.220 (model with country dummies; Pseudo R² = 0.223)

* significant at the 10% level; ** significant at the 5% level

1) For Austria and Finland the variable is defined over the last 24 and 12 months, respectively

Source: EUROSTAT, ECHP 1994–1996.

People with higher levels of education and those who are married have higher chances of being fully or partially employed and lower chances of being fully excluded. The odds of being partially or fully employed rather than partially excluded decrease when the person's household has more children or when the household lives in a country with a social democratic or Southern employment regime. Living in the South and having more children also increases the relative probability of being fully excluded. Women face a

greater risk than men of being fully excluded, while older workers and people living in countries with a social democratic employment regime are less likely to belong to the fully excluded. A better life satisfaction score favours being in secure employment. The effect of having social security income is ambiguous as it significantly reduces the probability of being work secure (disincentive effect) but it also decreases the probability of full exclusion.

Transitions in Longitudinal Employment Status

The use of the monthly calendar information permits us to look at changes in the longitudinal employment status between the first 12 months of observation at wave 1 and the last 12 months at wave 3. In modelling the transitions from one longitudinal status into another it is assumed that the explanatory model can by and large use the same sort of variables as in the previous model. Except, we now have the possibility of introducing some measures for the changes in household formation across the years. The multinomial model is aimed at explaining the transitions in employment status. If the status variable consists of four categories (secure, insecure, partially excluded and fully excluded), 16 types of transitions can be distinguished. Since our interest goes especially to transitions from partial exclusion to any other status, the set of statuses to be considered can be limited to three. The model⁷ has, thus, been estimated for three sorts of transition: (1) a transition from *partial exclusion* into *secure employment*, (2) a transition from *partial exclusion* into *insecure employment* and thirdly a transition from *partial exclusion* into *full exclusion*. The results of estimation are given in Table 7.

The models for explaining change generally have a lower fit than the cross-sectional models. There are various reasons for this: technical ones such as a low number of transitions, measurement error and attrition but also more substantial ones such as lack of information on the time varying variables that might explain the transitions from one longitudinal employment status into another. For the explanatory variables, information is available at the start of the observation period but not at the start of the transition. Nevertheless, the model presented here shows a reasonable good fit. The reference group is the group of persons not moving and staying in marginal employment or partial exclusion.

The same kind of variables appear important for explaining the transition from partial exclusion into secure employment as in the model for partial

⁷ This time we estimated a multinomial model for the likelihood of making a transition between wave 1 and wave 3 (instead of belonging to a certain category as in the previous cross-sectional model).

exclusion (Table 6). Age has a positive effect and age squared a negative effect⁸. Education level has the expected positive sign. A lower education level diminishes the chances of making a transition into a secure job. The same holds for the number of children. The variable, job search, has – contrary to our expectations– a negative sign indicating that the more one searches, the less likely he/she is to experience a transition into a secure job. Further inquiry into the reasons for this is needed. It might be that people in insecure jobs are not searching for a permanent job but prefer a non-standard job allowing them to combine working and caring duties, which is less feasible in a permanent job, because of long working hours. The employment regime variables appear to have a strong effect on the likelihood of a transition. The transition probabilities are larger in the North and lower in the South. The effects have different signs but they are also stronger in the South. Hence, there is less mobility across employment status in the Southern region, corroborating our earlier results. The results for the other types of transition are more or less similar.

For the transition from marginal employment into insecure employment, separation exerts a strong negative effect on the transition into insecure employment. For the transition from partial into full exclusion the signs of the personal variables are the reverse of the signs for the other cases. But for education level, separation and job search the signs are in an equal direction. The lower educated have lower chances of moving into full exclusion than those who are separated. People searching more, have lower chances to move from marginal employment into full exclusion. The findings for the regional variables show that, contrary to what we had expected, the chances of moving out of the labour force are higher in the Northern region. The dummy for the South appears insignificant.

⁸ The point at the age curve where the positive effect of age reaches its maximum is 31 years for transitions from partial exclusion to full-time work and 37 years for transitions from partial exclusion into insecure employment.

Table 7: Multinomial model for transitions out of partial employment (Finland and Austria are not included; reference group: stayers PE→PE)

	PE→FE	PE→PEX	PE→FEX
Male	Reference	Reference	Reference
Female	0.032	0.204	0.553**
Age	0.018	-0.013	-0.241**
Age squared	-0.001	0.000	0.004**
Low education level	-0.036	0.012	-0.170
Average education level	Reference	Reference	Reference
High education level	0.649**	0.409*	-0.241
Number of children	-0.248**	-0.208*	-0.046
Household size	-0.104	-0.041	0.041
Single	Reference	Reference	Reference
Couple no child	0.263	0.657	0.148
Couple with child(ren)	-0.035	0.237	0.116
Lone parent	-0.008	0.873	0.913*
Other	0.382	0.744*	-0.540
Never married	Reference	Reference	Reference
Married	0.801**	0.502*	0.112
Separated	0.596	0.114	0.203
Widow(er)	2.773	1.079**	1.135
Life satisfaction	0.052**	-0.006	-0.007
No capital income	Reference	Reference	Reference
Capital income	-0.152	-0.080	0.014
No social transfer income	Reference	Reference	Reference
Social transfer income	-0.693**	-0.302*	-0.306*
Liberal	Reference	Reference	Reference
Social democratic	-0.852**	-0.458	-0.641**
Corporatist	-0.104	-0.212	-0.068
Southern	-1.520**	-1.236**	-0.405*
<i>Changes from wave1 to wave3</i>			
No change	Reference	Reference	Reference
Married	0.680**	0.121	0.342
Separated	0.001	0.846	1.165**
More children	-0.208	-0.114	0.125
Less children	-0.475	-0.721*	-0.636*
More adults	0.580*	0.811**	0.302
Less adults	-0.121	-0.090	-0.203
Constant	1.613*	0.825	4.712**

N = 2,928, Pseudo R² = 0.112

FE=full employment; PE=partial employment; PEX=partial exclusion; FEX=full exclusion

*significant at the 10% level; ** significant at the 5% level

Source: EUROSTAT, ECHP 1994, 1996.

7 Conclusions and Discussion

The first issue dealt with in this paper pertains to the distribution of flexible labour across the various countries of the EU, comparing the results of the ECHP with the 1996 Labour Force Survey. Next, time measures of longitudinal employment were used, whereby the focus was particularly on the transitions between the various longitudinal employment statuses. The employment statuses were called employment profiles because they picture the employment history over a 36-month period of observation. An empirical model was developed to explain the transitions between these statuses and various multinomial regression models were estimated using the ECHP data. We were particularly interested in transitions from insecure employment and partial exclusion into secure employment or full exclusion.

Existing cross-sectional statistics showed clearly that the labour markets across the various countries are rather different in terms of unemployment levels, extent of regulation, share of flexible labour, employment growth and share of the informal economy. Therefore, our purpose was to examine whether the use of longitudinal information would change the comparative picture substantially. Because of the short length of the observation period, particularly in the smaller countries, quite low numbers of transitions in terms of longitudinal employment status were observed. Partly due to this and theoretical reasons explained before, it was decided to cluster the countries into the four 'ideal-typical' classification derived from Esping-Andersen and others.

Looking at the figures on flexible labour across the various countries a first test was obtained about whether the Southern countries should be considered a separate welfare state or employment regime or should be considered part of the corporatist type. It appeared that the share of flexible labour is indeed very much higher in the Southern countries. Next, looking at the distribution of employment profiles across the regime types, it was found that mobility from partial exclusion and insecure jobs into secure and permanent jobs is higher in the liberal and social-democratic countries than in the South. On the other hand, permanent employment appears to be more stable in Southern countries. The opposite holds for flexible jobs being more fragile in the South. Both results might be due to the high level of employment protection regulation in the Southern region. The employment opportunities in the South to escape unemployment are generally fewer.

Overall, remarkable stability with respect to permanent employment was observed. More than 85% of the permanent workers remained in their job between 1993 and 1995. On the other hand, there is substantial mobility between secure and insecure jobs. The image of a segmented labour market with secure jobs on the one side and flexible, insecure jobs on the other is far

from reality in either employment regime. The closer the attachment to the labour market, the higher the income is for the various status groups compared to the people in secure employment. Next, looking at transitions from one longitudinal employment profile into another, confirms our previous results. Upward mobility is higher in the liberal and social-democratic countries and lower in the South. In addition, downward mobility is higher in the South. The Southern regime is, therefore, performing worse in terms of enhancing job mobility and preventing labour market exclusion.

Although we only had three waves for analysing transitions across the various employment regime types, the results so far reported in this paper show remarkable differences across the three distinct 'ideal-types' of employment regimes. The analyses certainly need longer time-series to arrive at conclusions that are more robust, but the results are sufficiently encouraging to continue with this dynamic approach of testing regime-type differences using these excellent panel surveys.

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Appendix

Transition rate of employment status between 1995 and 1996 by employment regime¹⁾

	PE	TC	CW	OA	NW	Total
Liberal						
PE	88.7	2.1	0.8	1.3	7.3	100
TC	32.2	39.0	3.2	2.2	23.4	100
CW	28.8	3.5	26.9	3.4	37.4	100
OA	43.4	5.0	3.2	21.5	26.9	100
NW	8.6	1.7	2.5	0.8	86.4	100
Total	46.2	3.1	2.3	1.4	47.1	100
Social Democratic						
PE	91.8	0.7	0.6	1.5	5.5	100
TC	27.4	32.1	6.6	10.1	23.8	100
CW	22.8	11.9	34.8	3.3	27.4	100
OA	36.2	6.3	1.5	32.6	23.5	100
NW	19.3	3.1	0.9	1.4	75.4	100
Total	46.0	2.9	1.3	2.2	47.7	100
Corporatist						
PE	89.6	1.6	0.7	1.2	6.9	100
TC	27.5	39.2	0.3	2.1	30.9	100
CW	33.0	1.6	26.6	13.8	25.1	100
OA	58.2	3.9	2.1	23.6	12.2	100
NW	6.7	3.5	0.3	0.3	89.2	100
Total	45.3	4.1	0.7	1.1	48.8	100
Southern						
PE	87.3	2.6	1.1	0.8	8.3	100
TC	21.0	48.3	2.2	2.8	25.8	100
CW	15.7	12.4	28.2	5.7	37.9	100
OA	31.3	15.4	7.1	21.7	24.6	100
NW	3.4	2.8	0.9	0.3	92.5	100
Total	25.4	5.2	1.4	0.8	67.2	100

PE = permanent employment; TC = temporary contract; CW = casual work; OA = other arrangement; NW = not working (unemployed or non-participant).

1) Excluding Finland

Source: *EUROSTAT, ECHP 1995-1996*.

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