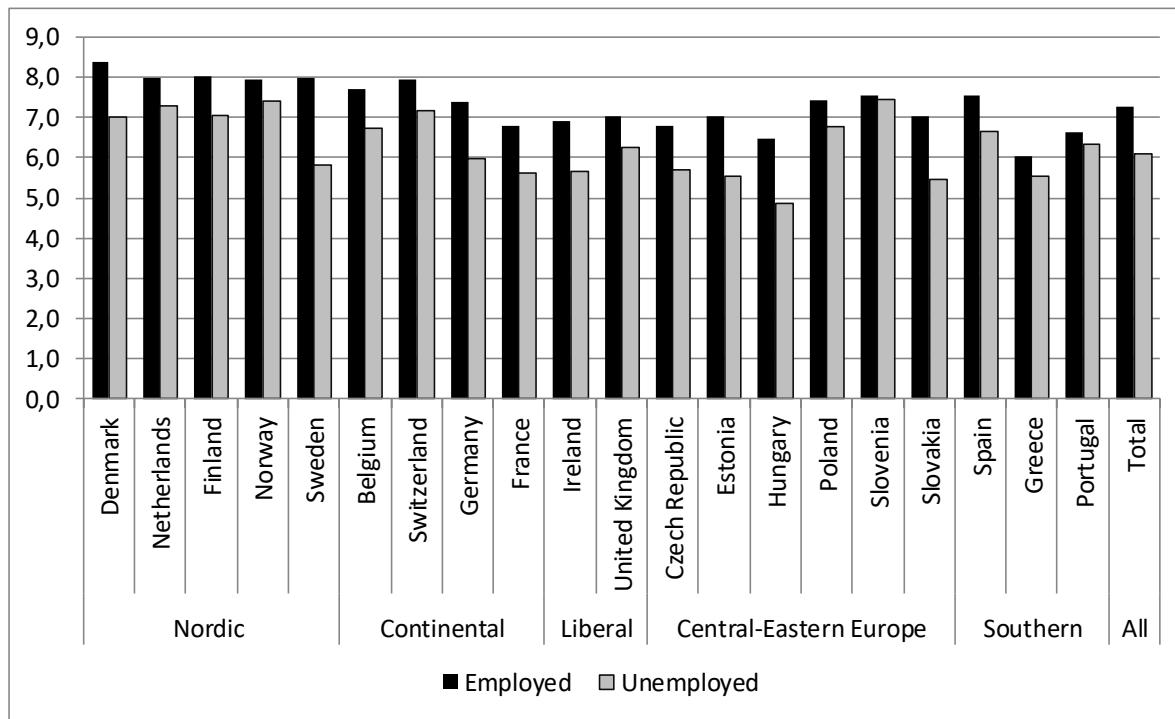


Figure A1: Life satisfaction among employed and unemployed aged under 35 years by country



Source ESS data, 2010 wave.

Note: Weighted by post stratification weights.

Appendix Table A1: Individual level variables and their definition

Dependent variable	Well-being	11-point scale on life satisfaction (All things considered, how satisfied are you with your life nowadays?)
Explanatory variables	Current employment status	employed (ref); unemployed; out of labour market (including students)
	Unemployment experience	No unemployment in past 5 years (ref); unemployment in past 5 years
	Financial hardship	How is the respondent's household coping on their present income? Coping or easily coping (ref) compared to difficult/very difficult to cope
controls	Self-defined health status	"How is your health in general? Would you say it is very good/good/fair/bad/very bad?" Given the distribution of responses in our sample is positively skewed the variable is dichotomised between those who say their health is fair to very bad and those who say it is good/very good.
	Frequent socialise	6-point scale capturing how often respondents meet socially with friends, relatives and neighbours (0 = never and 6 = daily)
	Someone for support	Binary variable capturing whether or not the respondent has someone to talk to about personal issues
	Household type	Using the household grid we identify whether the respondent is living with either or both parents, whether the respondent is living with a partner, and if not, whether the respondent was previously married.

Additional controls: gender, age, education level, children under 18 in the household, marital status.

Appendix Table A2: Macro-level indicators by country, 2004 and 2010

		Job security					Employment security/Employability						Income security		Context		
		EPL regular contracts (v1)		EPL temporary contracts (v1)		Perceived insecurity 2004		ALMP exp (cat.2-7) in % GDP/unempl.	ALMP partic. stocks (cat 2-7) in % of labour force	av. unempl. over 5 years, total 15-74		av. unempl. over 5 years, youth 15-34		PLMP exp (cat.8-9) in % GDP/unemp	Trade Union Density		
	YEAR	2004	2010	2004	2010	2004	2010	2004	2010	1999-2003	2005-2009	1999-2003	2005-2009	2004	2010	2004	2010
BE	Belgium	1,81	2,00	2,38	2,38	11,9	9,8	0,06	0,07	4,78	6,46	7,2	7,8	11,1	12,7	0,32	0,27
CZ	Czech Republic	3,31	3,05	0,50	1,31	21,8	32,1	0,02	0,03	1,15	1,23	8,0	6,3	11,2	9,1	0,03	0,05
DK	Denmark	2,13	2,13	1,38	1,38	10,8	10,4	0,26	0,22	5,06	6,52	4,7	4,4	6,1	6,1	0,51	0,24
EE	Estonia	2,74	1,81	1,88	1,88	9,2	3,2	0,00	0,01	0,17	0,91	11,9	7,5	14,5	9,6	0,02	0,05
FI	Finland	2,17	2,17	1,56	1,56	10,4	8,2	0,08	0,10	3,81	4,09	10,8	7,5	15,7	10,8	0,20	0,21
FR	France	2,47	2,38	3,63	3,63	25,8	23,3	0,08	0,09	5,54	5,65	9,6	8,4	14,0	13,1	0,19	0,16
DE	Germany	2,87	2,87	1,00	1,00	15,3	11,3	0,08	0,08	3,94	4,19	8,6	9,1	8,2	10,6	0,22	0,19
GR	Greece	2,80	2,80	2,75	2,75	25,6	37,6	0,01	0,02	0,41	1,83	10,6	9,0	18,5	16,1	0,04	0,06
HU	Hungary	2,00	2,00	1,13	1,13	11,6	18,1	0,04	0,05	2,1	4,89	6,1	8,0	8,5	12,4	0,06	0,07
IE	Ireland	1,44	1,27	0,63	0,63	8,6	21,0	0,12	0,06	3,59	4,31	4,5	6,4	5,4	8,6	0,20	0,21
NL	Netherlands	2,88	2,82	0,94	0,94	12,6	13,5	0,20	0,18	4,67	4,45	2,9	3,6	3,6	4,2	0,45	0,39
NO	Norway	2,33	2,33	2,75	3,00	9,5	4,6	0,15	0,14	2,7	2,35	3,7	3,2	6,6	5,3	0,15	0,14
PL	Poland	2,23	2,23	1,75	1,75	21,6	13,4	0,02	0,06	2,88	4,09	17,3	11,3	24,3	15,8	0,05	0,04
PT	Portugal	4,42	4,13	2,56	1,94	11,0	16,5	0,08	0,05	2,68	3,62	4,7	8,2	6,7	12,2	0,19	0,13
SK	Slovakia	2,22	2,22	0,63	1,63	46,7	45,2	0,00	0,02	4,29	3,83	18,0	12,5	23,5	16,2	0,02	0,04
SI	Slovenia	2,65	2,65	1,81	1,81	7,0	9,9	0,04	0,05	1,63	2,57	6,5	5,5	9,7	8,8	0,06	0,09
ES	Spain	2,36	2,36	3,25	3,00	11,2	14,2	0,06	0,04	9,79	12,82	12,4	11,0	17,0	15,6	0,14	0,16
SE	Sweden	2,61	2,61	1,44	0,81	11,0	8,5	0,13	0,10	3,68	4,38	5,7	7,1	8,2	12,0	0,21	0,09
CH	Switzerland	1,60	1,60	1,13	1,13	5,2	5,6	0,14	0,11	1,62	1,47	3,1	3,9	4,3	5,5	0,23	0,17
UK	United Kingdom	1,20	1,20	0,38	0,38	10,3	15,8	0,01	0,01	0,34	0,23	5,2	5,7	7,2	8,6	0,04	0,04
	Source	OECD database	OECD database	ESS		OECD database		OECD database	LFS agg. data		LFS agg. data		OECD database	ICTWSS database			

Source: OECD Indicators of employment protection (time series data): <http://www.oecd.org/els/emp/oecdindicatorsofemploymentprotection.htm>; Eurostat EU Labour Force Survey (EU-LFS): <http://ec.europa.eu/eurostat/web/lfs/data/database>; OECD.stats (Labour): <https://stats.oecd.org>; ICTWSS: Database on Institutional

Characteristics of Trade Unions, Wage Setting, State Intervention and Social Pacts in 51 countries between 1960 and 2014: <http://www.uva-aias.net/en/ictwss>, version 2014.

Notes: EPL regular and temporary contracts, no data for 2004 for SI and EE, replaced by earliest available data (2008); ALMP participant stocks 2004: GR, PL, SI no data, replaced by 2002 (GR), 2005 (PL and SI); ALMP participant stocks 2010: UK no data, replaced by 2009. TU density 2004: 2003 for EE and SI; TU density 2010: 2009 for CZ, 2011 for EE, 2008 for HU.

Appendix Table A3: Random Effects Model of Life Satisfaction without controls for financial difficulty: Individual level variables

		Under 35 years Indiv level	Under 35 years Add institutional
Ref: Employed	Currently Unemp	-0.698***	-0.697***
	Current out lab market	0.127***	0.127***
Ref: no past unem	Unemp past 5 yrs	-0.426***	-0.424***
Ref: Male	Female	0.023	0.023
Ref: (V)Good Health	Health fair to bad	-0.907***	-0.908***
Ref: Age 30-34	Age 15-19	0.574***	0.574***
	Age 20-24	0.217***	0.216***
	Age 25-29	0.133***	0.133***
	Frequent Socialise	0.184***	0.183***
	Someone for support	0.551***	0.550***
Ref: do not live with parents	Live with one parent	-0.145***	-0.143***
	Live with two parents	0.163***	0.166***
	Child(ren) under 18	-0.008	-0.008
	Live with Partner	0.532***	0.532***
	Widowed	-1.138***	-1.133***
	Separated/divorced	-0.235***	-0.235***
	< lower secondary	-0.332***	-0.337***
	Lower secondary	-0.335***	-0.336***
	Upper secondary	-0.226***	-0.224***
	Post-secondary	-0.219***	-0.220***
Institutional	% Feel Insecure		-1.102***
	ALMP spend		0.770*
	PLMP spend		0.050
	Constant	5.895***	5.973***
	N weighted	23,263	23,263
	N unweighted	21,130	21,130

*** p<0.01, ** p<0.05, * p<0.1

Appendix Table A4: Cross-level interactions: Individual Employment Status and institutional factors 35 to 64 years

	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
Individual level Vars						
Currently Unemp	-0.521***	-0.842***	-0.333***	-0.459***	-0.424***	-0.302***
Current OLM	-0.0406	-0.197***	-0.119***	-0.0832**	-0.0392	-0.111***
Unemployed in past 5 years	-0.367***	-0.691***	-0.316***	-0.410***	-0.391***	-0.456***
Control Variables ¹	✓	✓	✓	✓	✓	✓
Country level * Individual employment status						
EPL regular contracts ²	-1.129**					
Unem * EPL regular contracts	-0.0661					
OLM* EPL regular contracts	0.355*					
Past Un * EPL regular contracts	-0.0456					
EPL temp contracts ²		-0.265				
Unem*EPL temp contracts		0.033				
OLM *EPL temp contracts		0.394**				
Past Unem * EPL temp		0.327**				
Un Rate Average 5 years ²			-0.903**			
Unemp * Un rate			0.173*			
OLM * Un rate			-0.137			
Past unemp * Un rate			-0.184			
PLMP ²				1.063***		
Unemp *PLMP				0.064		
OLM * PLMP				0.284		
Past unemp * PLMP				0.110		
Almp ²					1.635***	
Unem*ALMP					-0.094	
OLM *ALMP					0.175	
Past unemp * ALMP					0.040	
% Feel Insecure						-1.572***
Unemp*% feel insecure						0.161
OLM*% feel insecure						-0.255
Past unemp * % feel insecure						0.243*
Constant	6.507***	5.892***	6.375***	5.804***	5.628***	6.535***
Unweighted N	37,356	37,356	37,356	37,356	37,356	37,356

¹ Models include all individual level controls listed in Table 2.

² The main effect for the institutional variable is the effect for the employed who are the reference group.

Model for EPL Temporary contracts would not converge until the dummy for financial difficulty was excluded from the model, hence the coefficients for current employment status are much stronger.

*** p<0.01, ** p<0.05, * p<0.1

Appendix Table A5: Cross-Level Interaction Models for Under 35 excluding controls for financial difficulty

	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
Individual level Vars						
Currently Unemp	-0.817***	-0.917***	-0.645***	-0.556***	-0.550***	-0.617***
Current OLM	0.001	0.038	0.011	0.236***	0.235***	0.101*
Unemployed in past 5 years	-0.548***	-0.481***	-0.476***	-0.415***	-0.412***	-0.492***
Control Variables ¹	yes	yes	yes	yes	yes	yes
Country level * Individual employment status						
EPL regular contracts ²	-0.940*					
Unem * EPL regular contracts	0.250*					
OLM* EPL regular contracts	0.341					
Past Un * EPL regular contracts	0.295					
EPL temp contracts ²		-0.179				
Unem*EPL temp contracts		0.239*				
OLM *EPL temp contracts		0.540**				
Past Unem * EPL temp		0.146				
Un Rate Average 5 years ²			-0.989**			
Unemp * Un rate			0.253*			
OLM * Un rate			-0.121			
Past unemp * Un rate			0.110			
PLMP ²				1.055**		
Unemp *PLMP				-0.414***		
OLM * PLMP				-0.584**		
Past unemp * PLMP				-0.0413		
ALMP ²					1.490***	
Unem*ALMP					-0.398***	
OLM *ALMP					-0.624**	
Past unemp * ALMP					-0.055	
% Feel Insecure						-1.526***
Unemp*% feel insecure						0.089
OLM*% feel insecure						-0.252
Past unemp * % feel insecure						0.229
Constant	6.250***	5.965***	6.217***	5.616***	5.481***	6.325***
N	23,263	23,263	23,263	23,263	23,263	23,263
Unweighted N	21,130	21,130	21,130	21,130	21,130	21,130

¹ Models include all individual level controls listed in table 2.

² The main effect for the institutional variable is the effect for the employed who are the reference group.

*** p<0.01, ** p<0.05, * p<0.1

Appendix Table A6 : Life Satisfaction Models with Level 2 Institutional Controls: Full Results for Models B and D in Table 2 (Main Text)

		Under 35 Model B	35-64 years Model D	
Ref: no difficulty	Financial Difficulty	-0.856 ***	-1.241 ***	
Ref: employed	Unemployed	-0.504 ***	-0.385 ***	
	Out of Lab Market	0.178 ***	-0.065 **	
Ref: no un 5 yrs	Unem in past 5 years	-0.349 ***	-0.382 ***	
Ref: male	Female	0.044 *	0.158 ***	
Ref: (v.)good health	Health (fair/bad/v. bad)	-0.830 ***	-0.789 ***	
Ref: 30-35	Age 15-19	0.509 ***		
	Age 20-24	0.214 ***		
	Age 25-29	0.128 ***		
Ref: 56-64	Age 35-55		0.248 ***	
	Frequent Socialise	0.169 ***	0.132 ***	
	Someone for support	0.547 ***	0.551 ***	
Ref: do not live with parents	Live with one parent	-0.155 ***	-0.064	
	Live with two parents	0.048	0.003	
	Child(ren) under 18	0.024	0.068 ***	
Ref :Single never married	Live with Partner	0.478 ***	0.392 ***	
	Widowed	-1.210 ***	-0.055	
	Separated/divorced	-0.166 *	-0.169 ***	
Ref: Third level ed.	< lower secondary	-0.163 ***	-0.109 ***	
	Lower secondary	-0.186 ***	-0.058 *	
	Upper secondary	-0.142 ***	-0.085 ***	
	Post Secondary	-0.129 *	-0.090 **	
Institutional	ALMP	0.630	1.110 *	
	PLMP	0.047	0.136	
	% Feel Insecure	-0.769 ***	-1.034 ***	
Observations	Constant	6.084 ***	6.030 ***	
	Unweighted N	21,130	37,356	

*** p<0.01, ** p<0.05, * p<0.1

Table A7: Under 35 Years: Interactions between Personal Employment Status by Institutional Factors – With Unemployed as Reference Group

	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
Indiv Controls	yes	yes	yes	yes	yes	yes	yes
Level 1* Level 2 Interactions							
ALMP ¹	0.548*						
OLM * ALMP	0.245						
Emp * ALMP	0.705***						
Past Un*ALMP	-0.131						
PLMP expend ¹	0.263						
OLM*PLMP	0.196						
EMP * PLMP	0.667***						
Past un * PLMP	-0.0812						
EPL reg contract ¹	-0.308						
OLM*EPL regular	-0.203						
EMP* EPL regular	-0.567***						
Past un* EPL regular	0.207						
EPL temp contract ¹	0.254						
OLM * EPL Temp	-0.225						
Emp * EPL temp	-0.470***						
Past un* EPL Temp	0.155						
% feel insecure ¹				-1.349***			
OLM* % feel insecure				0.347*			
Emp* % feel insecure				0.194			
Past un*% feel insecure				0.234*			
Unemp rate (5yr mean) ¹					-0.713**		
OLM* un rate					0.292		
Emp*un rate					-0.0163		
Past un* Un ratex					0.146		
Union Density ¹						0.681**	
OLM* UD						-0.197	
Emp *UD						0.241	
Past un* UD						0.141	
Constant	5.713***	5.815***	6.380***	6.142***	6.384***	6.290***	5.741***
Observations	23,263	23,263	23,263	23,263	23,263	23,263	23,263

1 Models include all individual level controls listed in table 2

2 The main effect for the institutional variables is the effect for the unemployed who are the reference group

*** p<.01, ** p<.05 , *p<.10

Table A8: Under 35 Years: Interactions between Personal Employment Status by Institutional Factors – with those Outside the Labour Market as Reference Group

	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
Individual controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ALMP ¹	0.793***						
unem * ALMP	-0.245						
Emp * ALMP	0.460***						
Past Un*ALMP	-0.131						
PLMP expend ¹		0.459*					
Unem *PLMP		-0.196					
Emp * PLMP		0.472***					
Past un * PLMP		-0.0812					
EPL reg contract ¹			-0.511				
Unem*EPL regular			0.203				
Emp * EPL regular			-0.365***				
Past un* EPL regular			0.207				
EPL temp contract ¹				0.0295			
Unem * EPL Temp				0.225			
Emp * EPL temp				-0.245**			
Past un* EPL Temp				0.155			
% feel insecure ¹					-1.002***		
Unem* % feel insecure					-0.347*		
Emp* % feel insecure					-0.153		
Past un*% feel insecure					0.234*		
Unemp rate (5yr mean) ¹						0.422	
Unem * un rate						-0.292	
Emp*un rate						-0.308***	
Past un* Un ratex						0.146	
Union Density ¹							0.484**
Unem * UD							0.197
Emp *UD							0.438***
Past un* UD							0.141
Constant	5.713***	5.815***	6.380***	6.142***	6.384***	6.290***	5.741***
Observations	23,263	23,263	23,263	23,263	23,263	23,263	23,263

1 Models include all individual level controls listed in table 2

2 The main effect for the institutional variables is the effect for the OLM who are the reference group

*** p<.01, ** p<.05 , *p<.10