Appendix 2: Significance of Transfer Entropy coefficients

Results for each permutation of age groups from each country. Tables include transfer entropy estimates, the effective transfer entropy estimates, standard errors and p-values based on bootstrap replications of the Markov chains under the null hypothesis of statistical independence.

Table 1: Significance of Transfer Entropy coefficients

X	Y	country	te	ete	se	p-value
	1	Austria	0.03	0.02	0.00	0.00
		Belgium	0.03	0.02	0.00	0.00
		Bulgaria	0.01	0.00	0.00	0.24
		Croatia	0.02	0.00	0.00	0.17
		Estonia				
			0.03	0.01	0.00	0.00
	aged5to9	France	0.02	0.01	0.00	0.04
		Germany Greece	0.01	0.00	0.00	0.61
		Netherlands	0.04	0.02	0.01	0.02
			0.02	0.01	0.00	0.01
		Portugal				
		Slovakia	0.05	0.04	0.00	0.00
		Spain	0.02	0.01	0.00	0.01
		Austria	0.02	0.00	0.00	0.09
		Belgium	0.01	0.00	0.00	0.58
		Bulgaria	0.03	0.01	0.01	0.03
		Croatia	0.02	0.01	0.01	0.20
		Estonia	0.03	0.02	0.00	0.00
	aged10to14	France	0.01	0.00	0.00	0.18
aged0to4	agearouter	Germany	0.01	0.00	0.00	0.19
		Greece	0.02	0.00	0.01	0.41
		Netherlands	0.04	0.03	0.00	0.00
		Portugal	0.02	0.01	0.00	0.01
		Slovakia	0.04	0.03	0.00	0.00
		Spain	0.04	0.02	0.00	0.00
		Austria	0.04	0.02	0.00	0.00
		Belgium	0.01	0.00	0.00	0.49
		Bulgaria	0.03	0.01	0.01	0.02
		Croatia	0.02	0.01	0.00	0.06
		Estonia	0.03	0.02	0.00	0.00
	aged15to19	France	0.02	0.01	0.00	0.05
		Germany	0.01	0.00	0.00	0.27
		Greece	0.03	0.02	0.01	0.04
		Netherlands	0.05	0.03	0.00	0.00
		Portugal	0.03	0.01	0.01	0.01
		Slovakia	0.06	0.04	0.00	0.00
		Spain	0.03	0.02	0.00	0.00
		Austria	0.04	0.02	0.00	0.00
		Belgium	0.02	0.00	0.00	0.10
		Bulgaria	0.02	0.01	0.00	0.12
		Croatia	0.05	0.04	0.01	0.00
		Estonia	0.02	0.01	0.00	0.01
		France	0.02	0.01	0.00	0.07
	aged20to24	Germany	0.01	0.00	0.00	0.14
		Greece	0.05	0.04	0.01	0.00
		Netherlands	0.04	0.02	0.00	0.00
		Portugal	0.03	0.01	0.01	0.01
		Slovakia	0.04	0.03	0.00	0.00
		Spain	0.04	0.02	0.00	0.00
	1					

Table 2: Significance of Transfer Entropy coefficients

X	Y	country	te	ete	se	p-value
		Austria	0.03	0.02	0.00	0.00
		Belgium	0.02	0.01	0.00	0.04
		Bulgaria	0.03	0.02	0.00	0.00
		Croatia	0.04	0.03	0.01	0.00
		Estonia	0.04	0.03	0.00	0.00
	105, 04	France	0.02	0.01	0.00	0.03
	aged25to34	Germany	0.03	0.01	0.00	0.00
		Greece	0.04	0.03	0.01	0.00
		Netherlands	0.07	0.06	0.00	0.00
		Portugal	0.03	0.02	0.01	0.01
		Slovakia	0.04	0.03	0.00	0.00
		Spain	0.06	0.04	0.00	0.00
		Austria	0.03	0.02	0.00	0.00
aged0to4		Belgium	0.02	0.01	0.00	0.02
		Bulgaria	0.02	0.01	0.01	0.10
		Croatia	0.05	0.04	0.00	0.00
		Estonia	0.03	0.02	0.00	0.00
	aged35to44	France	0.02	0.01	0.00	0.01
	aged35t044	Germany	0.03	0.02	0.00	0.00
		Greece	0.02	0.00	0.01	0.46
		Netherlands	0.06	0.05	0.00	0.00
		Portugal	0.03	0.02	0.00	0.00
		Slovakia	0.04	0.03	0.00	0.00
		Spain	0.05	0.04	0.00	0.00
	aged45to54	Austria	0.03	0.02	0.00	0.00
		Belgium	0.03	0.01	0.00	0.00
		Bulgaria	0.03	0.02	0.00	0.01
		Croatia	0.04	0.03	0.01	0.00
		Estonia	0.02	0.01	0.00	0.02
		France	0.03	0.02	0.00	0.00
		Germany	0.02	0.01	0.00	0.03
		Greece	0.02	0.00	0.01	0.56
		Netherlands	0.07	0.06	0.00	0.00
		Portugal	0.04	0.03	0.00	0.00
		Slovakia	0.04	0.03	0.00	0.00
		Spain	0.04	0.03	0.00	0.00
		Austria	0.03	0.01	0.00	0.00
		Belgium	0.03	0.01	0.00	0.01
		Bulgaria	0.03	0.02	0.00	0.01
		Croatia	0.04	0.03	0.01	0.00
		Estonia	0.01	0.00	0.00	0.27
	aged55to64	France	0.03	0.02	0.00	0.00
		Germany Greece	0.02	0.01	0.00	0.01
			0.02	0.01	0.01	0.20
		Netherlands	0.04	0.02		0.00
		Portugal	0.02	0.01	0.00	0.04
		Slovakia	0.03	0.02	0.00	0.00
		Spain Austria	0.03	0.02	0.00	0.00
		Belgium	0.02	0.01	0.00	
		Bulgaria	0.02	0.01	0.00	0.14
		Croatia	0.03		0.00	
		Estonia	0.03	0.02	0.01	0.00
		France	0.01	0.00	0.00	0.00
	aged65+	Germany	0.03	0.02	0.00	0.00
	aged65+	Greece	0.02	0.01	0.00	0.00
		TICCCC	0.02	0.00		
			0.04	0.03	0.00	0.00
		Netherlands	0.04	0.03	0.00	0.00
		Netherlands Portugal	0.02	0.01	0.01	0.04
		Netherlands				

Table 3: Significance of Transfer Entropy coefficients

X	Y	country	te	ete	se	p-value
	1	Austria	0.04	0.03	0.00	0.00
		Belgium	0.01	0.00	0.00	0.55
		Bulgaria	0.01	0.00	0.00	0.24
		Croatia	0.02	0.01	0.01	0.11
		Estonia	0.02	0.01	0.00	0.02
		France	0.03	0.02	0.00	0.00
	aged0to4	Germany	0.05	0.04	0.00	0.00
		Greece	0.01	0.00	0.01	0.84
		Netherlands	0.02	0.01	0.00	0.08
aged5to9		Portugal	0.04	0.02	0.00	0.00
		Slovakia	0.04	0.03	0.00	0.00
		Spain	0.01	0.00	0.00	0.81
		Austria	0.03	0.01	0.00	0.00
		Belgium	0.00	0.00	0.00	1.00
		Bulgaria	0.02	0.01	0.00	0.01
		Croatia	0.02	0.01	0.01	0.13
		Estonia	0.03	0.01	0.00	0.00
	aged10to14	France	0.01	0.00	0.00	0.48
		Germany	0.00	0.00	0.00	0.99
		Greece	0.01	0.00	0.01	0.88
		Netherlands	0.04	0.02	0.00	0.00
		Portugal	0.01	0.00	0.01	0.44
		Slovakia	0.02	0.00	0.00	0.15
		Spain	0.01	0.00	0.00	0.44
	aged15to19	Austria	0.07	0.05	0.00	0.00
		Belgium	0.01	0.00	0.00	0.78
		Bulgaria	0.02	0.01	0.00	0.02
		Croatia	0.04	0.02	0.01	0.00
		Estonia	0.04	0.03	0.00	0.00
		France	0.02	0.01	0.00	0.03
		Germany	0.01	0.00	0.00	0.77
		Greece	0.02	0.01	0.01	0.33
		Netherlands	0.04	0.03	0.00	0.00
		Portugal	0.02	0.00	0.00	0.17
		Slovakia	0.02	0.00	0.00	0.21
		Spain	0.02	0.01	0.00	0.03
		Austria	0.03	0.01	0.00	0.00
		Belgium	0.02	0.01	0.00	0.07
		Bulgaria	0.02	0.00	0.00	0.19
		Croatia	0.04	0.02	0.01	0.00
		Estonia	0.02	0.01	0.00	0.05
	aged20to24	France	0.02	0.01	0.00	0.01
		Germany	0.04	0.02	0.00	0.00
		Greece	0.03	0.02	0.01	0.03
		Netherlands	0.04	0.02	0.00	0.00
		Portugal	0.02	0.00	0.00	0.15
		Slovakia	0.04	0.03	0.00	0.00
		Spain	0.03	0.01	0.00	0.00

Table 4: Significance of Transfer Entropy coefficients

X Y Country te ete se	p-value 0.00 0.02 0.02 0.00 0.00 0.00 0.00
Belgium 0.02 0.01 0.00 Bulgaria 0.02 0.01 0.00 Croatia 0.03 0.02 0.01 Estonia 0.03 0.02 0.00 France 0.03 0.02 0.00 Germany 0.05 0.04 0.00 Metherlands 0.07 0.06 0.00 Portugal 0.03 0.01 0.01 Slovakia 0.03 0.02 0.00 Spain 0.04 0.03 0.00	0.02 0.02 0.00 0.00 0.00 0.00
aged25to34 Bulgaria 0.02 0.01 0.00 Croatia 0.03 0.02 0.01 Estonia 0.03 0.02 0.00 France 0.03 0.02 0.00 Germany 0.05 0.04 0.00 Greece 0.03 0.02 0.01 Netherlands 0.07 0.06 0.00 Portugal 0.03 0.01 0.01 Slovakia 0.03 0.02 0.00 Spain 0.04 0.03 0.00	0.02 0.00 0.00 0.00 0.00
aged25to34 Croatia 0.03 0.02 0.01 Estonia 0.03 0.02 0.00 France 0.03 0.02 0.00 Germany 0.05 0.04 0.00 Greece 0.03 0.02 0.01 Netherlands 0.07 0.06 0.00 Portugal 0.03 0.01 0.01 Slovakia 0.03 0.02 0.00 Spain 0.04 0.03 0.00	0.00 0.00 0.00 0.00
aged25to34 Estonia 0.03 0.02 0.00 France 0.03 0.02 0.00 Germany 0.05 0.04 0.00 Greece 0.03 0.02 0.01 Netherlands 0.07 0.06 0.00 Portugal 0.03 0.01 0.01 Slovakia 0.03 0.02 0.00 Spain 0.04 0.03 0.00	0.00 0.00 0.00
aged25to34 France 0.03 0.02 0.00 Germany 0.05 0.04 0.00 Greece 0.03 0.02 0.01 Netherlands 0.07 0.06 0.00 Portugal 0.03 0.01 0.01 Slovakia 0.03 0.02 0.00 Spain 0.04 0.03 0.00	0.00
Germany 0.05 0.04 0.00 Greece 0.03 0.02 0.01 Netherlands 0.07 0.06 0.00 Portugal 0.03 0.01 0.01 Slovakia 0.03 0.02 0.00 Spain 0.04 0.03 0.00	0.00
Germany 0.05 0.04 0.00 Greece 0.03 0.02 0.01 Netherlands 0.07 0.06 0.00 Portugal 0.03 0.01 0.01 Slovakia 0.03 0.02 0.00 Spain 0.04 0.03 0.00	0.00
Greece 0.03 0.02 0.01 Netherlands 0.07 0.06 0.00 Portugal 0.03 0.01 0.01 Slovakia 0.03 0.02 0.00 Spain 0.04 0.03 0.00	
Netherlands 0.07 0.06 0.00 Portugal 0.03 0.01 0.01 Slovakia 0.03 0.02 0.00 Spain 0.04 0.03 0.00	0.03
Portugal 0.03 0.01 0.01 Slovakia 0.03 0.02 0.00 Spain 0.04 0.03 0.00	0.00
Slovakia 0.03 0.02 0.00 Spain 0.04 0.03 0.00	0.02
Spain 0.04 0.03 0.00	0.00
_	0.00
Austria 0.04 0.05 0.00	0.00
Belgium 0.02 0.01 0.00	0.06
9	
Bulgaria 0.02 0.01 0.01	0.15
Croatia 0.04 0.03 0.01	0.00
Estonia 0.02 0.01 0.00	0.06
aged35to44 France 0.04 0.02 0.00	0.00
Germany 0.06 0.05 0.00	0.00
Greece 0.01 0.00 0.01	0.57
Netherlands 0.05 0.04 0.00	0.00
Portugal 0.03 0.01 0.00	0.01
Slovakia 0.02 0.01 0.00	0.04
Spain 0.04 0.03 0.00	0.00
Austria 0.04 0.03 0.00	0.00
Belgium 0.02 0.01 0.00	0.02
Bulgaria 0.03 0.02 0.01	0.01
Croatia 0.04 0.02 0.01	0.00
Estonia 0.02 0.01 0.00	0.00
aged5to9 France 0.04 0.02 0.00	0.00
aged45to54 Germany 0.04 0.03 0.00	0.00
Greece 0.02 0.01 0.01	0.28
Netherlands 0.05 0.03 0.00	0.00
Portugal 0.04 0.03 0.00	0.00
Slovakia 0.03 0.01 0.00	0.01
Spain 0.03 0.02 0.00	0.01
Austria 0.04 0.03 0.00	0.00
	0.04
<u> </u>	
Bulgaria 0.04 0.03 0.00	0.00
Croatia 0.03 0.01 0.01	0.00
Estonia 0.01 0.00 0.00	0.65
aged55to64 France 0.03 0.02 0.00	0.00
Germany 0.04 0.03 0.00	0.00
Greece 0.03 0.01 0.01	0.09
Netherlands 0.03 0.02 0.00	0.00
Portugal 0.02 0.01 0.00	0.02
Slovakia 0.02 0.01 0.00	0.04
Spain 0.02 0.00 0.00	0.09
Austria 0.02 0.01 0.00	0.04
Belgium 0.01 0.00 0.00	0.21
Bulgaria 0.05 0.04 0.00	0.00
Croatia 0.03 0.02 0.01	0.02
Estonia 0.02 0.01 0.00	0.03
France 0.04 0.03 0.00	0.00
aged65+	0.00
	0.07
Greece 0.03 0.02 0.01	0.02
Greece 0.03 0.02 0.01 Netherlands 0.02 0.01 0.00	0.02
Netherlands 0.02 0.01 0.00	
Netherlands 0.02 0.01 0.00 Portugal 0.03 0.02 0.00	0.00
Netherlands 0.02 0.01 0.00	

Table 5: Significance of Transfer Entropy coefficients

X	Y	country	te	ete	se	p-value
	-	Austria	0.05	0.04	0.00	0.00
		Belgium	0.01	0.00	0.00	0.27
		Bulgaria	0.03	0.02	0.01	0.00
		Croatia	0.02	0.01	0.01	0.11
		Estonia	0.03	0.02	0.00	0.00
		France	0.05	0.04	0.00	0.00
	aged0to4	Germany	0.06	0.05	0.00	0.00
		Greece	0.01	0.00	0.01	0.82
		Netherlands	0.02	0.01	0.00	0.05
		Portugal	0.05	0.04	0.00	0.00
		Slovakia	0.02	0.01	0.00	0.01
		Spain	0.03	0.01	0.00	0.00
		Austria	0.03	0.02	0.00	0.00
		Belgium	0.02	0.00	0.00	0.19
		Bulgaria	0.02	0.01	0.01	0.03
		Croatia	0.02	0.01	0.01	0.11
		Estonia	0.02	0.01	0.00	0.09
	15. 0	France	0.02	0.01	0.00	0.02
	aged5to9	Germany	0.02	0.01	0.00	0.02
aged10to14		Greece	0.01	0.00	0.01	0.77
		Netherlands	0.02	0.00	0.00	0.17
		Portugal	0.03	0.02	0.00	0.00
		Slovakia	0.03	0.02	0.00	0.00
		Spain	0.02	0.01	0.00	0.12
	aged15to19	Austria	0.06	0.05	0.00	0.00
		Belgium	0.01	0.00	0.00	0.53
		Bulgaria	0.02	0.00	0.00	0.19
		Croatia	0.03	0.02	0.00	0.00
		Estonia	0.03	0.01	0.00	0.00
		France	0.02	0.01	0.00	0.00
		Germany	0.02	0.01	0.00	0.01
		Greece	0.01	0.00	0.01	0.73
		Netherlands	0.04	0.02	0.00	0.00
		Portugal	0.02	0.00	0.00	0.28
		Slovakia	0.02	0.01	0.00	0.07
		Spain	0.02	0.01	0.00	0.13
		Austria	0.03	0.02	0.00	0.01
		Belgium	0.02	0.01	0.00	0.03
		Bulgaria	0.01	0.00	0.00	0.35
		Croatia	0.04	0.02	0.01	0.00
		Estonia	0.01	0.00	0.00	0.41
	aged20to24	France	0.03	0.02	0.00	0.00
	ageu201024	Germany	0.06	0.05	0.00	0.00
		Greece	0.03	0.01	0.01	0.11
		Netherlands	0.03	0.02	0.00	0.00
		Portugal	0.02	0.01	0.00	0.06
		Slovakia	0.04	0.03	0.00	0.00
		Spain	0.02	0.00	0.00	0.17

Table 6: Significance of Transfer Entropy coefficients

Belgium 0.02 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.02 0.00
Belgium 0.02 0.00 0.00 0.00 Bulgaria 0.01 0.00 0.01 0.00 Croatia 0.04 0.02 0.01 0.00 Estonia 0.01 0.00 0.00 0.00 France 0.03 0.02 0.00 0.00 Germany 0.05 0.04 0.00 0.00 Retherlands 0.04 0.03 0.00 0.00 Portugal 0.03 0.01 0.00 0.00 Slovakia 0.03 0.01 0.00 0.00 Spain 0.02 0.00 0.00 0.00 Bulgaria 0.04 0.03 0.00 0 Bulgaria 0.04 0.03 0.00 0 Bulgaria 0.01 0.00 0.00 Croatia 0.04 0.02 0.01 0.00 Bulgaria 0.01 0.00 0.01 Croatia 0.04 0.02 0.01 0.00 Bulgaria 0.01 0.00 0.01 0.00 Greece 0.02 0.01 0.00 0.00 France 0.05 0.04 0.00 0.00 Greece 0.02 0.01 0.01 0.00 Spain 0.02 0.01 0.00 0.00 France 0.05 0.04 0.00 0.00 Greece 0.02 0.01 0.01 0.00 Austria 0.06 0.04 0.00 0.00 Slovakia 0.03 0.02 0.01 0.00 0.00 Spain 0.02 0.01 0.00 0.00 Spain 0.02 0.01 0.00 0.00 Austria 0.04 0.03 0.00 0.00 Belgium 0.02 0.01 0.00 0.00 Austria 0.04 0.03 0.00 0.00 Belgium 0.02 0.01 0.00 0.00	0.08 0.39 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.01 0.02 0.00
Bulgaria 0.01 0.00 0.01 0.00	0.39 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.54 0.02 0.02 0.00
Austria 0.04 0.02 0.01 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.70 0.70 0.00
aged25to34 Estonia 0.01 0.00	0.70 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.01 0.01 0.02 0.00
aged25to34 France	0.00 0.00 0.00 0.10 0.00 0.01 0.19 0.00 0.01 0.54 0.01 0.26 0.00 0.00 0.00 0.00 0.00
aged25to34 Germany	0.00 0.10 0.00 0.00 0.01 0.19 0.00 0.01 0.54 0.01 0.26 0.00 0.00 0.00 0.00 0.00 0.00
Greece 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.00 0.02 0.01 0.00 0.02 0.01 0.00 0.02 0.00	0.10 0.00 0.00 0.01 0.01 0.01 0.01 0.054 0.01 0.026 0.00 0.00 0.00 0.00 0.00 0.00
Netherlands	0.00 0.00 0.01 0.19 0.00 0.01 0.05 4 0.01 0.26 0.00 0.0
Portugal 0.03 0.01 0.00 0.00	0.00 0.01 0.19 0.00 0.01 0.54 0.26 0.00 0.25 0.00 0.00 0.00 0.00 0.00
Slovakia 0.03 0.01 0.00 0.0	0.01 0.19 0.00 0.01 0.54 0.01 0.26 0.00 0.25 0.00 0.03 0.00 0.00 0.00
Spain 0.02 0.00	0.19 0.00 0.01 0.54 0.01 0.26 0.00 0.00 0.25 0.00 0.03 0.00 0.00 0.00
Austria 0.04 0.03 0.00 0 Belgium 0.02 0.01 0.00 0 Bulgaria 0.01 0.00 0.01 0 Croatia 0.04 0.02 0.01 0 Estonia 0.01 0.00 0.00 0 France 0.05 0.04 0.00 0 Germany 0.06 0.05 0.00 0 Greece 0.02 0.01 0.01 0 Netherlands 0.06 0.04 0.00 0 Portugal 0.02 0.01 0.00 0 Slovakia 0.03 0.02 0.00 0 Spain 0.02 0.01 0.00 0 Austria 0.04 0.03 0.00 0 Belgium 0.02 0.01 0.00 0	0.00 0.01 0.54 0.01 0.26 0.00 0.00 0.25 0.00 0.03 0.00 0.00 0.00
Belgium 0.02 0.01 0.00 0 Bulgaria 0.01 0.00 0.01 0 Croatia 0.04 0.02 0.01 0 Estonia 0.01 0.00 0.00 0 France 0.05 0.04 0.00 0 Germany 0.06 0.05 0.00 0 Greece 0.02 0.01 0.01 0 Netherlands 0.06 0.04 0.00 0 Portugal 0.02 0.01 0.00 0 Spain 0.02 0.01 0.00 0 Belgium 0.02 0.01 0.00 0 Belgium 0.02 0.01 0.00 0	0.01 0.54 0.01 0.26 0.00 0.00 0.25 0.00 0.03 0.00 0.00 0.00
Bulgaria 0.01 0.00 0.01 0 Croatia 0.04 0.02 0.01 0 Estonia 0.01 0.00 0.00 0 France 0.05 0.04 0.00 0 Germany 0.06 0.05 0.00 0 Greece 0.02 0.01 0.01 0 Netherlands 0.06 0.04 0.00 0 Portugal 0.02 0.01 0.00 0 Slovakia 0.03 0.02 0.00 0 Spain 0.02 0.01 0.00 0 Austria 0.04 0.03 0.00 0 Belgium 0.02 0.01 0.00 0	0.54 0.01 0.26 0.00 0.00 0.25 0.00 0.03 0.00 0.00 0.00
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	0.01 0.26 0.00 0.00 0.25 0.00 0.03 0.00 0.00 0.00
aged35to44 Estonia 0.01 0.00 0.00 0 France 0.05 0.04 0.00 0 Germany 0.06 0.05 0.00 0 Greece 0.02 0.01 0.01 0 Netherlands 0.06 0.04 0.00 0 Portugal 0.02 0.01 0.00 0 Slovakia 0.03 0.02 0.01 0.00 0 Spain 0.02 0.01 0.00 0 Austria 0.04 0.03 0.00 0 Belgium 0.02 0.01 0.00 0	0.26 0.00 0.00 0.25 0.00 0.03 0.00 0.00
aged35to44 France 0.05 0.04 0.00 0 Germany 0.06 0.05 0.00 0 Greece 0.02 0.01 0.01 0 Netherlands 0.06 0.04 0.00 0 Portugal 0.02 0.01 0.00 0 Slovakia 0.03 0.02 0.00 0 Spain 0.02 0.01 0.00 0 Austria 0.04 0.03 0.00 0 Belgium 0.02 0.01 0.00 0	0.00 0.00 0.25 0.00 0.03 0.00 0.00
Germany	0.00 0.25 0.00 0.03 0.00 0.00 0.00
Greece 0.02 0.01 0.01 0 Netherlands 0.06 0.04 0.00 0 Portugal 0.02 0.01 0.00 0 Slovakia 0.03 0.02 0.00 0 Spain 0.02 0.01 0.00 0 Austria 0.04 0.03 0.00 0 Belgium 0.02 0.01 0.00 0	0.25 0.00 0.03 0.00 0.00 0.00
Netherlands 0.06 0.04 0.00 0 Portugal 0.02 0.01 0.00 0 Slovakia 0.03 0.02 0.00 0 Spain 0.02 0.01 0.00 0 Austria 0.04 0.03 0.00 0 Belgium 0.02 0.01 0.00 0	0.00 0.03 0.00 0.00 0.00
Portugal 0.02 0.01 0.00 0 Slovakia 0.03 0.02 0.00 0 Spain 0.02 0.01 0.00 0 Austria 0.04 0.03 0.00 0 Belgium 0.02 0.01 0.00 0	0.03 0.00 0.00 0.00
Slovakia 0.03 0.02 0.00 0 Spain 0.02 0.01 0.00 0 Austria 0.04 0.03 0.00 0 Belgium 0.02 0.01 0.00 0	0.00 0.00 0.00
Spain 0.02 0.01 0.00 0 Austria 0.04 0.03 0.00 0 Belgium 0.02 0.01 0.00 0	0.00
Austria 0.04 0.03 0.00 0 Belgium 0.02 0.01 0.00 0	0.00
Belgium 0.02 0.01 0.00 0	
	0.01
	0.07
	0.00
aged LUTO 14	0.73
2god/5to5/	0.00
Germany 0.06 0.05 0.00 0	0.00
	0.14
	0.00
<u> </u>	0.00
	0.02
	0.07
	0.00
<u> </u>	0.00
<u> </u>	0.00
	0.01
	0.92
aged55tob4	0.00
ů – – – – – – – – – – – – – – – – – – –	0.00
	0.19
	0.00
	0.00
	0.35
-	0.63
	0.00
	0.00
<u> </u>	0.00
	0.00
	0.55
agedb5+	0.00
Germany 0.05 0.04 0.00 0	0.00
	0.52
	0.03
	0.00
	0.91
Spain 0.02 0.00 0.00 0	0.15

Table 7: Significance of Transfer Entropy coefficients

X Y aged0t	504	country Austria Belgium Bulgaria Croatia Estonia France Germany Greece Netherlands Portugal Slovakia Spain Austria Belgium	te 0.03 0.01 0.02 0.02 0.05 0.05 0.03 0.02 0.05 0.04 0.04	ete 0.02 0.00 0.00 0.01 0.01 0.04 0.02 0.01 0.04 0.03 0.03	se 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.0	p-value 0.00 0.62 0.23 0.07 0.02 0.00 0.01 0.02 0.00
aged0t	504	Belgium Bulgaria Croatia Estonia France Germany Greece Netherlands Portugal Slovakia Spain Austria	0.01 0.02 0.02 0.05 0.05 0.03 0.02 0.05 0.04	0.00 0.00 0.01 0.01 0.04 0.02 0.01 0.04 0.03	0.00 0.01 0.01 0.00 0.00 0.00 0.01 0.00 0.01	0.62 0.23 0.07 0.02 0.00 0.00 0.01
aged0t	504	Bulgaria Croatia Estonia France Germany Greece Netherlands Portugal Slovakia Spain Austria	0.02 0.02 0.02 0.05 0.05 0.03 0.02 0.05 0.04 0.04	0.00 0.01 0.01 0.04 0.02 0.01 0.04 0.03	0.01 0.01 0.00 0.00 0.00 0.01 0.00 0.01	0.23 0.07 0.02 0.00 0.00 0.01 0.02
aged0t	504	Croatia Estonia France Germany Greece Netherlands Portugal Slovakia Spain Austria	0.02 0.02 0.05 0.05 0.03 0.02 0.05 0.04 0.04	0.01 0.01 0.04 0.04 0.02 0.01 0.04 0.03	0.01 0.00 0.00 0.00 0.01 0.00 0.01	0.07 0.02 0.00 0.00 0.01 0.02
aged0f	504	Estonia France Germany Greece Netherlands Portugal Slovakia Spain Austria	0.02 0.05 0.05 0.03 0.02 0.05 0.04 0.04	0.01 0.04 0.04 0.02 0.01 0.04 0.03	0.00 0.00 0.00 0.01 0.00 0.01	0.02 0.00 0.00 0.01 0.02
aged0t	504	France Germany Greece Netherlands Portugal Slovakia Spain Austria	0.05 0.05 0.03 0.02 0.05 0.04 0.04	0.04 0.04 0.02 0.01 0.04 0.03	0.00 0.00 0.01 0.00 0.01	0.00 0.00 0.01 0.02
aged0t	504	Germany Greece Netherlands Portugal Slovakia Spain Austria	0.05 0.03 0.02 0.05 0.04 0.04	0.04 0.02 0.01 0.04 0.03	0.00 0.01 0.00 0.01	0.00 0.01 0.02
agedui	.04	Greece Netherlands Portugal Slovakia Spain Austria	0.03 0.02 0.05 0.04 0.04	0.02 0.01 0.04 0.03	0.01 0.00 0.01	0.01 0.02
		Netherlands Portugal Slovakia Spain Austria	0.02 0.05 0.04 0.04	0.01 0.04 0.03	0.00	0.02
		Portugal Slovakia Spain Austria	0.05 0.04 0.04	0.04	0.01	
		Slovakia Spain Austria	0.04	0.03		በ በበ
		Spain Austria	0.04		0.00	0.00
		Austria		0.05	0.00	0.00
				0.05	0.00	0.00
		Dolgium	0.04	0.03	0.00	0.00
		Deigium	0.03	0.02	0.00	0.00
		Bulgaria	0.02	0.01	0.00	0.09
		Croatia	0.02	0.00	0.01	0.15
		Estonia	0.01	0.00	0.00	0.29
154	- 0	France	0.04	0.03	0.00	0.00
aged5t	.09	Germany	0.01	0.00	0.00	0.96
		Greece	0.02	0.01	0.01	0.12
		Netherlands	0.02	0.00	0.00	0.12
		Portugal	0.03	0.01	0.00	0.03
		Slovakia	0.02	0.01	0.00	0.01
aged15to19		Spain	0.03	0.02	0.00	0.00
		Austria	0.02	0.01	0.00	0.01
		Belgium	0.02	0.00	0.00	0.15
		Bulgaria	0.01	0.00	0.01	0.70
		Croatia	0.01	0.00	0.01	0.63
		Estonia	0.02	0.00	0.00	0.15
110	N . 1.4	France	0.02	0.01	0.00	0.02
aged10	жо14	Germany	0.00	0.00	0.00	0.99
		Greece	0.02	0.00	0.01	0.19
		Netherlands	0.02	0.01	0.00	0.04
		Portugal	0.01	0.00	0.00	0.78
		Slovakia	0.01	0.00	0.00	0.38
		Spain	0.02	0.01	0.00	0.07
		Austria	0.02	0.01	0.00	0.02
		Belgium	0.01	0.00	0.00	0.32
		Bulgaria	0.01	0.00	0.01	0.49
		Croatia	0.03	0.02	0.01	0.00
		Estonia	0.02	0.00	0.00	0.12
100		France	0.03	0.02	0.00	0.00
aged20	Jto24	Germany	0.04	0.03	0.00	0.00
		Greece	0.02	0.00	0.01	0.22
		Netherlands	0.02	0.01	0.00	0.05
		Portugal	0.02	0.01	0.00	0.07
		Slovakia	0.06	0.04	0.00	0.00
		Spain	0.01	0.00	0.00	0.83

Table 8: Significance of Transfer Entropy coefficients

Austria
Belgium 0.01 0.00 0.00 0.00 0.00 Bulgaria 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Bulgaria 0.01 0.00 0.00 0 Croatia 0.03 0.02 0.01 0 Estonia 0.01 0.00 0.00 0 France 0.03 0.02 0.00 0 Germany 0.05 0.04 0.00 0 Rotherlands 0.03 0.02 0.00 0 Portugal 0.03 0.02 0.00 0 Slovakia 0.04 0.03 0.00 0.00 Spain 0.01 0.00 0.00 0 Austria 0.03 0.02 0.00 0 Belgium 0.02 0.01 0.00 0 Bulgaria 0.01 0.00 0.00 0 Bulgaria 0.01 0.00 0.00 0 Estonia 0.02 0.01 0.01 0.00 0 France 0.05 0.04 0.00 0 Germany 0.05 0.04 0.00 0
Austria 0.03 0.02 0.01 0.00 0.00 0.00 0.00 0.00 0.00
Belgium 0.02 0.01 0.00 0.00 0.00 0.00 0.00 0.00
Aged25to34 France
Germany
Greece 0.02 0.01 0.01 0.01 0.01 Netherlands 0.03 0.02 0.00
Netherlands
Portugal 0.03 0.02 0.00 0 0 0 0 0 0 0 0
Slovakia 0.04 0.03 0.00 0.0
Spain 0.01 0.00
Austria 0.03 0.02 0.00 0 Belgium 0.02 0.01 0.00 0 Bulgaria 0.01 0.00 0.00 0 Croatia 0.02 0.01 0.01 0.0 Estonia 0.02 0.01 0.00 0 France 0.05 0.04 0.00 0 Germany 0.05 0.04 0.00 0
Belgium 0.02 0.01 0.00 0 Bulgaria 0.01 0.00 0.00 0 Croatia 0.02 0.01 0.00 0.01 Estonia 0.02 0.01 0.00 0 France 0.05 0.04 0.00 0 Germany 0.05 0.04 0.00 0
Bulgaria 0.01 0.00 0.00 0 Croatia 0.02 0.01 0.00 0 Estonia 0.02 0.01 0.00 0 France 0.05 0.04 0.00 0 Germany 0.05 0.04 0.00 0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
aged35to44 France 0.05 0.04 0.00 0 Germany 0.05 0.04 0.00 0
aged35to44 Germany 0.05 0.04 0.00 0
Netherlands 0.02 0.01 0.00 0
Portugal 0.02 0.01 0.00 0
Slovakia 0.04 0.02 0.00 0
Spain 0.01 0.00 0.00 0
Austria 0.03 0.01 0.00 0
Belgium 0.02 0.00 0.00 0
Bulgaria 0.01 0.00 0.00 0
Croatia 0.02 0.01 0.00 0
Fetonia 0.02 0.01 0.00 0
aged15to19 France 0.04 0.03 0.00 0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Greece 0.03 0.02 0.01 0
Netherlands 0.04 0.02 0.00 0
Portugal 0.03 0.02 0.01 0
Slovakia 0.03 0.02 0.00 0
Spain 0.01 0.00 0.00 0
Austria 0.04 0.03 0.00 0
Belgium 0.02 0.01 0.00 0
Bulgaria 0.02 0.01 0.00 0
Croatia 0.02 0.01 0.01 0
Estonia 0.01 0.00 0.00 0
aged55to64 France 0.02 0.01 0.00 0
Germany 0.04 0.03 0.00 0
Greece 0.02 0.00 0.01 0
Netherlands 0.04 0.03 0.00 0
Portugal 0.02 0.01 0.00 0
Slovakia 0.02 0.01 0.00 0
Spain 0.02 0.00 0.00 0
Austria 0.01 0.00 0.00 0
Belgium 0.03 0.02 0.00 0
Bulgaria 0.03 0.02 0.00 0
Croatia 0.02 0.00 0.00 0
Estonia 0.01 0.00 0.00 0
aged65+ France 0.03 0.02 0.00 0
Germany 0.04 0.03 0.00 0
Greece 0.02 0.01 0.01 0
Netherlands 0.01 0.00 0.00 0
Portugal 0.03 0.02 0.01 0
Slovakia 0.01 0.00 0.00 0
Spain 0.03 0.02 0.00 0

Table 9: Significance of Transfer Entropy coefficients

X	Y	country	te	ete	se	p-value
	-	Austria	0.05	0.04	0.00	0.00
		Belgium	0.02	0.01	0.00	0.11
		Bulgaria	0.02	0.01	0.00	0.09
		Croatia	0.02	0.01	0.01	0.06
		Estonia	0.02	0.01	0.00	0.01
		France	0.03	0.02	0.00	0.00
	aged0to4	Germany	0.02	0.01	0.00	0.02
		Greece	0.03	0.01	0.01	0.06
		Netherlands	0.03	0.02	0.00	0.00
		Portugal	0.05	0.04	0.00	0.00
		Slovakia	0.00	0.00	0.00	0.99
		Spain	0.05	0.03	0.00	0.00
		Austria	0.02	0.01	0.00	0.06
		Belgium	0.04	0.03	0.00	0.00
		Bulgaria	0.02	0.01	0.01	0.04
		Croatia	0.02	0.00	0.01	0.12
		Estonia	0.02	0.00	0.00	0.19
	154.0	France	0.03	0.01	0.00	0.01
	aged5to9	Germany	0.01	0.00	0.00	0.61
aged20to24		Greece	0.03	0.01	0.01	0.03
		Netherlands	0.03	0.02	0.00	0.00
		Portugal	0.04	0.03	0.01	0.00
		Slovakia	0.01	0.00	0.00	0.37
		Spain	0.05	0.03	0.00	0.00
		Austria	0.03	0.02	0.00	0.00
		Belgium	0.03	0.02	0.00	0.00
		Bulgaria	0.02	0.00	0.00	0.22
		Croatia	0.01	0.00	0.01	0.55
		Estonia	0.02	0.01	0.00	0.02
	ogod10to14	France	0.01	0.00	0.00	0.24
	aged10to14	Germany	0.01	0.00	0.00	0.29
		Greece	0.02	0.00	0.01	0.26
		Netherlands	0.04	0.03	0.00	0.00
		Portugal	0.03	0.01	0.01	0.01
		Slovakia	0.02	0.00	0.00	0.19
		Spain	0.03	0.02	0.00	0.00
		Austria	0.07	0.06	0.00	0.00
		Belgium	0.03	0.01	0.00	0.01
		Bulgaria	0.03	0.01	0.00	0.01
		Croatia	0.01	0.00	0.00	0.91
		Estonia	0.02	0.01	0.00	0.05
	aged15to19	France	0.01	0.00	0.00	0.52
	agearotora	Germany	0.01	0.00	0.00	0.49
		Greece	0.02	0.00	0.01	0.35
		Netherlands	0.03	0.02	0.00	0.00
		Portugal	0.02	0.00	0.01	0.22
		Slovakia	0.02	0.01	0.00	0.02
		Spain	0.03	0.01	0.00	0.00

Table 10: Significance of Transfer Entropy coefficients

X	Y	country	te	ete	se	p-value
Λ	1	Austria	0.06	0.05	0.00	0.00
		Belgium	0.00	0.00	0.00	0.00
		Bulgaria	0.01	0.00	0.00	0.40
		Croatia	0.01	0.00	0.00	0.40
		Estonia	0.01	0.00	0.00	0.00
		France	0.03	0.02	0.00	0.00
	aged25to34	Germany	0.01	0.03	0.00	0.00
		Greece	0.00	0.00	0.00	0.00
		Netherlands	0.03	0.00	0.00	0.00
		Portugal	0.03	0.02	0.00	0.00
		Slovakia	0.01	0.01	0.00	0.05
		Spain	0.02	0.01	0.00	0.07
		Austria	0.05	0.04	0.00	0.00
		Belgium	0.02	0.01	0.00	0.00
		Bulgaria	0.02	0.01	0.00	0.15
		Croatia	0.02	0.01	0.00	0.13
		Estonia	0.04	0.03	0.00	0.00
		France	0.02	0.01	0.00	0.01
	aged35to44	Germany	0.03	0.02	0.00	0.00
		Greece	0.02	0.01	0.01	0.15
		Netherlands	0.02	0.01	0.00	0.02
		Portugal	0.02	0.00	0.00	0.20
		Slovakia	0.02	0.01	0.00	0.01
		Spain	0.02	0.01	0.00	0.03
		Austria	0.04	0.03	0.00	0.00
		Belgium	0.02	0.01	0.00	0.10
		Bulgaria	0.01	0.00	0.00	0.44
aged20to24		Croatia	0.02	0.01	0.01	0.09
		Estonia	0.02	0.01	0.00	0.02
	aged45to54	France	0.02	0.01	0.00	0.04
		Germany	0.01	0.00	0.00	0.22
		Greece	0.03	0.02	0.01	0.02
		Netherlands	0.02	0.01	0.00	0.01
		Portugal	0.02	0.01	0.01	0.07
		Slovakia	0.03	0.02	0.00	0.00
		Spain	0.02	0.01	0.00	0.07
		Austria	0.05	0.04	0.00	0.00
		Belgium	0.02	0.01	0.00	0.02
		Bulgaria	0.02	0.01	0.00	0.13
		Croatia	0.02	0.00	0.01	0.27
		Estonia	0.03	0.02	0.00	0.00
	aged55to64	France	0.01	0.00	0.00	0.51
	agoaootoo1	Germany	0.01	0.00	0.00	0.18
		Greece	0.03	0.01	0.01	0.04
		Netherlands	0.02	0.01	0.00	0.02
		Portugal	0.02	0.00	0.00	0.25
		Slovakia	0.02	0.00	0.00	0.21
		Spain	0.03	0.01	0.00	0.00
		Austria	0.03	0.02	0.00	0.00
		Belgium	0.03	0.02	0.00	0.00
		Bulgaria	0.03	0.02	0.00	0.00
		Croatia	0.02	0.00	0.01	0.18
		Estonia	0.03	0.02	0.00	0.00
	aged65+	France	0.02	0.01	0.00	0.10
	ı .	Germany	0.02	0.01	0.00	0.01
		Greece	0.02	0.00	0.01	0.42
					0.00	0.00
		Netherlands	0.00	0.00	0.00	0.98
		Netherlands Portugal	0.00	0.00	0.01	0.01
		Netherlands	0.00	0.00		

Table 11: Significance of Transfer Entropy coefficients

X	Y	acuntur	t o	oto		n volue
Λ	1	country Austria	0.05	ete	se	p-value
				0.04	0.00	0.00
		Belgium	0.02	0.01	0.00	0.07
		Bulgaria	0.02	0.01	0.00	0.10
		Croatia Estonia	0.01	0.00	0.01	0.38
			0.03	0.01	0.00	0.00
	aged0to4	France	0.03	0.02	0.00	0.00
		Germany	0.01	0.00	0.00	0.79
		Greece	0.03	0.01	0.01	0.03
		Netherlands	0.04	0.02	0.00	0.00
		Portugal	0.06	0.05	0.01	0.00
		Slovakia	0.01	0.00	0.00	0.71
		Spain	0.05	0.04	0.00	0.00
		Austria	0.03	0.02	0.00	0.00
		Belgium	0.03	0.02	0.00	0.00
		Bulgaria	0.01	0.00	0.00	0.33
		Croatia	0.01	0.00	0.01	0.32
		Estonia	0.02	0.01	0.01	0.03
	aged5to9	France	0.03	0.02	0.00	0.00
		Germany	0.01	0.00	0.00	0.41
		Greece	0.02	0.00	0.01	0.12
		Netherlands	0.04	0.02	0.00	0.00
		Portugal	0.06	0.05	0.00	0.00
aged25to34		Slovakia	0.02	0.00	0.00	0.14
		Spain	0.04	0.03	0.00	0.00
	aged10to14	Austria	0.04	0.02	0.00	0.00
		Belgium	0.02	0.01	0.00	0.03
		Bulgaria	0.01	0.00	0.00	0.24
		Croatia	0.02	0.01	0.01	0.10
		Estonia	0.02	0.00	0.00	0.12
		France	0.01	0.00	0.00	0.33
		Germany	0.01	0.00	0.00	0.28
		Greece	0.01	0.00	0.01	0.77
		Netherlands	0.03	0.02	0.00	0.00
		Portugal	0.05	0.04	0.00	0.00
		Slovakia	0.02	0.01	0.00	0.03
		Spain	0.03	0.01	0.00	0.01
		Austria	0.07	0.05	0.00	0.00
		Belgium	0.02	0.01	0.00	0.05
		Bulgaria	0.03	0.02	0.01	0.01
		Croatia	0.02	0.01	0.00	0.06
		Estonia	0.03	0.01	0.00	0.00
	115: 10	France	0.01	0.00	0.00	0.41
	aged15to19	Germany	0.01	0.00	0.00	0.56
		Greece	0.01	0.00	0.01	0.49
		Netherlands	0.02	0.01	0.00	0.02
		Portugal	0.04	0.03	0.00	0.00
		Slovakia	0.02	0.01	0.00	0.06
		Spain	0.02	0.01	0.00	0.05
		Austria	0.03	0.01	0.00	0.00
		Belgium	0.01	0.00	0.00	0.46
		Bulgaria	0.02	0.01	0.00	0.07
		Croatia	0.02	0.01	0.01	0.10
		Estonia	0.01	0.00	0.00	0.82
	100: 0:	France	0.01	0.00	0.00	0.23
	aged20to24	Germany	0.01	0.00	0.00	0.58
		Greece	0.01	0.00	0.01	0.79
		Netherlands	0.01	0.00	0.00	0.81
		Portugal	0.03	0.01	0.00	0.00
		Slovakia	0.03	0.02	0.00	0.01
		Spain	0.00	0.00	0.00	0.96
		~Pairi	0.00	0.00	0.00	0.50

Table 12: Significance of Transfer Entropy coefficients

X	Y	country	te	ete	se	p-value
	-	Austria	0.02	0.01	0.00	0.01
		Belgium	0.02	0.00	0.00	0.10
		Bulgaria	0.01	0.00	0.00	0.31
		Croatia	0.02	0.01	0.01	0.10
		Estonia	0.02	0.01	0.00	0.03
		France	0.03	0.02	0.00	0.00
	aged35to44	Germany	0.01	0.00	0.00	0.90
		Greece	0.02	0.01	0.01	0.13
		Netherlands	0.01	0.00	0.00	0.34
		Portugal	0.02	0.01	0.00	0.06
		Slovakia	0.03	0.02	0.00	0.00
		Spain	0.02	0.00	0.00	0.19
		Austria	0.04	0.03	0.00	0.00
		Belgium	0.02	0.00	0.00	0.22
		Bulgaria	0.02	0.01	0.00	0.05
		Croatia	0.03	0.02	0.01	0.01
		Estonia	0.02	0.01	0.00	0.07
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	France	0.02	0.01	0.00	0.01
	aged45to54	Germany	0.01	0.00	0.00	0.64
aged25to34		Greece	0.03	0.01	0.01	0.06
		Netherlands	0.02	0.01	0.00	0.02
		Portugal	0.04	0.03	0.00	0.00
		Slovakia	0.04	0.03	0.00	0.00
		Spain	0.02	0.00	0.00	0.22
	aged55to64	Austria	0.03	0.02	0.00	0.00
		Belgium	0.02	0.01	0.00	0.06
		Bulgaria	0.02	0.01	0.00	0.03
		Croatia	0.03	0.01	0.01	0.03
		Estonia	0.02	0.01	0.00	0.08
		France	0.01	0.00	0.00	0.36
		Germany	0.01	0.00	0.00	0.41
		Greece	0.02	0.01	0.01	0.10
		Netherlands	0.02	0.01	0.00	0.07
		Portugal	0.02	0.01	0.00	0.02
		Slovakia	0.03	0.01	0.01	0.03
		Spain	0.03	0.01	0.00	0.00
		Austria	0.03	0.02	0.00	0.00
		Belgium	0.02	0.01	0.00	0.00
		Bulgaria	0.03	0.02	0.00	0.00
		Croatia	0.02	0.01	0.01	0.04
		Estonia	0.04	0.03	0.00	0.00
	ogod65 l	France	0.02	0.01	0.00	0.01
	aged65+	Germany	0.02	0.01	0.00	0.01
		Greece	0.02	0.01	0.01	0.16
		Netherlands	0.01	0.00	0.00	0.87
		Portugal	0.04	0.03	0.00	0.00
		Slovakia	0.03	0.02	0.00	0.00
		Spain	0.03	0.02	0.00	0.00

Table 13: Significance of Transfer Entropy coefficients

aged35to44 aged10to4 aged35to44 aged10to4 aged15to9 aged35to44 aged15to9 aged35to44 aged15to9 aged35to44 aged15to9 aged35to44 aged10to44 aged10to40 aged35to90	X	Y	country	te	ete	se	p-value
aged35to44 aged10to4 Belgium 0.01 0.00 0.00 0.00 0.58 Estonia 0.03 0.02 0.00 0.00 France 0.01 0.00 0.00 0.03 Germany 0.01 0.00 0.00 0.00 Portugal 0.06 0.05 0.00 0.00 Fortugal 0.06 0.05 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Austria 0.03 0.02 0.00 0.00 Belgium 0.02 0.00 0.00 Austria 0.03 0.02 0.00 0.00 France 0.01 0.00 0.00 0.00 Respiration 0.05 0.03 0.00 0.00 Austria 0.03 0.02 0.00 0.00 France 0.01 0.00 0.00 0.00 Respiration 0.05 0.03 0.00 0.00 Respiration 0.05 0.03 0.00 0.00 Austria 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Respiration 0.02 0.01 0.00 0.00 France 0.01 0.00 0.00 0.00 Respiration 0.02 0.01 0.00 0.00 Respiration 0.02 0.01 0.00 0.00 France 0.01 0.00 0.00 0.00 Respiration 0.02 0.01 0.00 0.00 France 0.01 0.00 0.00 0.00 Respiration 0.02 0.00 0.00 Respiration 0.02 0.00 0.00 Respiration 0.02 0.00 0.00 0.00 Respiration 0.02 0.00 0.00 Respiration 0.02 0.00 0.00 0.00 Respiration 0.02 0.00 0.00 Respiration 0.03 0.02 0.00 0.00 Respiration 0.04 0.03 0.00 0.00 Respiration 0.04 0.00 0.00 0.00 Respiration 0.05 0.00 0.00 0.00 Respiration 0.00 0.00 0.00 Respiration 0.00 0.00 0.00		-					
aged3to44 aged10to4 aged3to4 aged3to44 aged3to4 age							
aged3to44 aged10to4 Estonia 0.03 0.00 0.00 0.00 Estonia 0.03 0.02 0.00 0.00 Estonia 0.03 0.02 0.00 0.00 France 0.01 0.00 0.00 0.24 Greece 0.02 0.00 0.01 0.26 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.06 0.05 0.00 0.00 Slovakia 0.01 0.00 0.00 0.03 Spain 0.05 0.03 0.00 0.00 Austria 0.03 0.02 0.00 0.00 Belgium 0.02 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.02 France 0.01 0.00 0.00 0.03 Slovakia 0.02 0.01 0.00 0.00 Fortugal 0.04 0.03 0.02 0.00 Slovakia 0.02 0.01 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.01 0.00							
aged3to44 Estonia 0.03 0.02 0.00 0.00 0.00 France 0.01 0.00 0.00 0.31 0.26 0.00 0.01 0.26 0.00 0.00 0.00 0.24 0.00 0.00 0.00 0.24 0.00							
aged3to4 France							
aged35to44 Germany 0.01 0.00 0.00 0.24 Greece 0.02 0.00 0.01 0.26 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.06 0.05 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Spain 0.05 0.03 0.00 0.00 Belgium 0.02 0.01 0.00 0.00 Belgium 0.02 0.01 0.00 0.08 Bulgaria 0.01 0.00 0.00 0.08 Estonia 0.01 0.00 0.00 0.06 Estonia 0.02 0.01 0.00 0.00 France 0.01 0.00 0.00 0.03 Germany 0.01 0.00 0.00 0.03 France 0.01 0.00 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 Bulgaria 0.01 0.00 0.00 0.00 Bulgaria 0.01 0.00 0.00 0.09 Estonia 0.01 0.00 0.00 0.09 Estonia 0.01 0.00 0.00 0.09 France 0.01 0.00 0.00 0.09 Estonia 0.01 0.00 0.00 0.09 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Fr							
aged35to44 aged10to14 Greece 0.02 0.00 0.01 0.26 Netherlands 0.03 0.02 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Belgium 0.02 0.01 0.00 0.00 0.08 Bulgaria 0.01 0.00 0.00 0.00 0.68 Greece 0.03 0.01 0.00 0.00 0.68 Greece 0.03 0.01 0.00 0.00 0.02 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Greece 0.03 0.01 0.00 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 Slovakia 0.03 0.01 0.00 0.00 Slovakia 0.03 0.01 0.00 0.00 Greece 0.03 0.01 0.00 0.00 0.00 Slovakia 0.03 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 0.09 Greece 0.02 0.00 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Greece 0.02 0.00 0.01 0.10 Netherlands 0.03 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0		aged0to4	Germany				
Netherlands							
aged35to44 aged10to14 aged15to44 aged15			Netherlands	0.03	0.02	0.00	0.00
aged35to44 aged10to14 aged15to9 Spain 0.05 0.03 0.00 0.00			Portugal	0.06	0.05	0.00	0.00
aged35to44 aged10to14 aged10to14 aged15to9 Austria A			Slovakia	0.01	0.00	0.00	0.31
aged3to44 aged10to14 aged13to44 aged10to14 aged15to9 Belgium 0.02 0.01 0.00 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 Remany 0.01 0.00 0.00 0.00 Remany 0.01 0.00 0.00 0.00 Remany 0.01 0.00 0.			Spain	0.05	0.03	0.00	0.00
aged5to9 Bulgaria 0.01 0.00 0.00 0.01			Austria	0.03	0.02	0.00	0.00
aged3to44 aged3to44 aged10to14 aged3to44 aged15to19 aged3to44 aged10to14 aged15to19 aged3to44 aged15to19 aged3to44 aged15to19 aged3to44 aged10to14 aged15to19 aged25to24 aged25to24 aged25to24 aged25to24 aged25to24 aged25to24 aged25to24 aged25to24 aged25to24 aged25to3 aged25to3 aged25to44 aged25to3 aged25			Belgium	0.02	0.01	0.00	0.08
aged35to44 aged35to44 aged10to14 Estonia 0.02 0.01 0.00 0.00 0.68 Germany 0.01 0.00 0.00 0.38 Greece 0.03 0.01 0.01 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Bulgaria 0.01 0.00 0.00 0.07 France 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Reference 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Reference 0.02 0.00 0.01 0.00 Slovakia 0.01 0.00 0.00 0.00 Fortugal 0.04 0.02 0.00 0.00 Fortugal 0.04 0.00 0.00 0.00 Fortugal 0.01 0.00 0.00 0.00 Fortugal 0.03 0.01 0.00 0.00 Fortugal 0.03 0.01 0.00 0.00 Fortugal 0.03 0.01 0.00 0.00 Fortugal 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Fortugal 0.01 0.00 0.00 0.00 France 0.02 0.01 0.00 0.00 Fortugal 0.00 0.00 0.00 0.00 Fortugal 0.00 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Fortugal 0.00 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Fortugal 0.00 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 0.00 Fortugal 0.00 0.00 0.00 0.00 Fortugal 0.00 0.00 0.00 0.00 0.00 0.00 Fortugal 0.00 0.00 0.00 0.00 0.00 0.00 Fortugal 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Bulgaria	0.01	0.00	0.00	0.18
aged3to4 France			Croatia	0.01	0.00	0.00	0.64
aged35to44 aged10to14 Germany 0.01 0.00 0.00 0.03 Greece 0.03 0.01 0.01 0.00 Netherlands 0.03 0.02 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 Slovakia 0.03 0.01 0.00 0.00 Slovakia 0.03 0.01 0.00 0.00 Belgium 0.01 0.00 0.00 0.69 Bulgaria 0.01 0.00 0.00 0.07 Croatia 0.01 0.00 0.00 0.99 Estonia 0.00 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.00 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.03 0.01 0.00 0.00 Remany 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Fortugal 0.04 0.02 0.00 0.00 Slovakia 0.01 0.00 0.00 Croatia 0.01 0.00 0.00 Greece 0.02 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Fortugal 0.03 0.02 0.00 0.00 Croatia 0.01 0.00 0.00 0.03 France 0.01 0.00 0.00 0.00 Greece 0.02 0.00 0.01 0.00 Croatia 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.02 Portugal 0.03 0.01 0.00 0.00 Greece 0.02 0.00 0.01 0.00 Greece 0.02 0.00 0.01 0.00 Slovakia 0.01 0.00 0.00 0.02 Croatia 0.02 0.01 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 Croatia 0.02 0.01 0.00 0.00 Croatia 0.02 0.01 0.00 0.00 France 0.01 0.00 0.00 0.00 Croatia 0.02 0.01 0.00 0.00 France 0.01 0.00 0.00 0.00 France 0.01			Estonia	0.02	0.01	0.00	0.02
aged35to44 aged10to14 aged15to44 aged15to44 aged15to44 aged15to44 aged15to44 aged15to44 aged15to44 aged15to44 aged15to19 aged15to44 aged15to19 aged15to44 aged15to19 aged20to24 aged20		agad5ta0	France	0.01	0.00	0.00	0.68
Netherlands		agedolos	Germany	0.01	0.00	0.00	0.38
aged35to44 aged10to14 Austria aged10to14 aged15to19 Austria				0.03	0.01	0.01	0.05
Slovakia 0.02 0.00 0.00 0.24			Netherlands	0.03	0.02	0.00	0.00
Austria 0.03 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Bulgaria 0.01 0.00 0.00 0.00 Bulgaria 0.01 0.00 0.00 0.00 Estonia 0.00 0.00 0.00 0.00 0.03 France 0.01 0.00 0.00 0.00 0.27 Greece 0.02 0.00 0.01 0.00 0.00 Portugal 0.04 0.02 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Spain 0.03 0.01 0.00 0.00 Spain 0.03 0.01 0.00 0.00 Portugal 0.04 0.02 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Bulgaria 0.03 0.01 0.00 0.00 Portugal 0.04 0.02 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Spain 0.03 0.01 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.03 France 0.01 0.00 0.00 0.00 Greece 0.02 0.00 0.01 0.18 Netherlands 0.02 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Portugal 0.03 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Portugal 0.03 0.01 0.00 0.00 Greece 0.02 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Portugal 0.03 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00			_	0.04		0.00	
Austria 0.03 0.01 0.00 0.00 Belgium						0.00	0.24
Belgium			_ ^				
aged35to44 aged10to14 Bulgaria 0.01 0.00 0.00 0.00 0.92 Estonia 0.00 0.00 0.00 0.93 France 0.01 0.00 0.00 0.00 0.27 Gereace 0.02 0.00 0.01 0.00 0.00 Portugal 0.04 0.02 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Spain 0.03 0.01 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Estonia 0.03 0.01 0.00 0.00 Bulgaria 0.03 0.01 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Bulgaria 0.03 0.02 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Germany 0.01 0.00 0.00 0.32 France 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Greece 0.02 0.00 0.01 0.00 Belgium 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Croatia 0.02 0.01 0.00 0.00 France 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.05 Germany 0.01 0.00 0.00 0.05 Germany 0.01 0.00 0.00 0.05							
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Slovakia 0.01 0.00 0.00 0.42							
Spain 0.03 0.01 0.00 0.00							
Austria 0.06 0.04 0.00 0.00 Belgium 0.01 0.00 0.00 0.76 Bulgaria 0.03 0.02 0.00 0.00 Croatia 0.01 0.00 0.00 0.94 Estonia 0.01 0.00 0.00 0.00 0.32 France 0.01 0.00 0.00 0.03 Germany 0.01 0.00 0.00 0.03 Gerece 0.02 0.00 0.01 0.18 Netherlands 0.02 0.01 0.00 0.00 Portugal 0.03 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.01 Slovakia 0.01 0.00 0.00 0.01 Spain 0.01 0.00 0.00 0.01 Austria 0.03 0.02 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Croatia 0.02 0.01 0.00 0.00 France 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Germany 0.01 0.00 0.00 0.52 Germany 0.01 0.00 0.00 0.52 Germany 0.01 0.00 0.00 0.50							
Belgium 0.01 0.00 0.00 0.76							
Bulgaria 0.03 0.02 0.00 0.00 Croatia 0.01 0.00 0.00 0.94 Estonia 0.01 0.00 0.00 0.32 France 0.01 0.00 0.00 0.75 Germany 0.01 0.00 0.01 0.18 Netherlands 0.02 0.01 0.00 0.02 Portugal 0.03 0.01 0.00 0.01 Slovakia 0.01 0.00 0.00 0.21 Spain 0.01 0.00 0.00 0.21 Spain 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.76 Bulgaria 0.02 0.01 0.00 0.02 Croatia 0.02 0.01 0.00 0.02 Estonia 0.01 0.00 0.00 0.20 France 0.01 0.00 0.00 0.52 Germany 0.01 0.00 0.00 0.52 Germany 0.01 0.00 0.00 0.61 Greece 0.02 0.01 0.01 0.07							
Aged15to19 Croatia 0.01 0.00 0.00 0.94							
$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$			_				
France							
Germany 0.01 0.00 0.00 0.39							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		aged15to19					
Netherlands 0.02 0.01 0.00 0.02							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Netherlands				0.02
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Portugal	0.03	0.01	0.00	0.01
Austria 0.03 0.02 0.00 0.00 Belgium 0.01 0.00 0.00 0.76 Bulgaria 0.02 0.01 0.00 0.02 Croatia 0.02 0.01 0.00 0.06 Estonia 0.01 0.00 0.00 0.20 France 0.01 0.00 0.00 0.52 Germany 0.01 0.00 0.00 0.61 Greece 0.02 0.01 0.01 0.07			Slovakia	0.01	0.00	0.00	0.41
Belgium 0.01 0.00 0.00 0.76 Bulgaria 0.02 0.01 0.00 0.02 Croatia 0.02 0.01 0.00 0.06 Estonia 0.01 0.00 0.00 0.20 France 0.01 0.00 0.00 0.52 Germany 0.01 0.00 0.00 0.61 Greece 0.02 0.01 0.01 0.07			Spain	0.01	0.00	0.00	0.21
Bulgaria 0.02 0.01 0.00 0.02 Croatia 0.02 0.01 0.00 0.06 Estonia 0.01 0.00 0.00 0.20 France 0.01 0.00 0.00 0.52 Germany 0.01 0.00 0.00 0.61 Greece 0.02 0.01 0.01 0.07			Austria	0.03	0.02	0.00	0.00
Bulgaria 0.02 0.01 0.00 0.02 Croatia 0.02 0.01 0.00 0.06 Estonia 0.01 0.00 0.00 0.20 France 0.01 0.00 0.00 0.52 Germany 0.01 0.00 0.00 0.61 Greece 0.02 0.01 0.01 0.07							
Aged20to24 Croatia 0.02 0.01 0.00 0.06 Estonia 0.01 0.00 0.00 0.20 France 0.01 0.00 0.00 0.52 Germany 0.01 0.00 0.00 0.61 Greece 0.02 0.01 0.01 0.07				0.02	0.01	0.00	0.02
aged20to24 France 0.01 0.00 0.00 0.52 Germany 0.01 0.00 0.00 0.61 Greece 0.02 0.01 0.01 0.07				0.02	0.01	0.00	0.06
Germany 0.01 0.00 0.00 0.61 Greece 0.02 0.01 0.01 0.07			Estonia	0.01	0.00	0.00	0.20
Germany 0.01 0.00 0.00 0.61 Greece 0.02 0.01 0.01 0.07		ampd20+o24	France	0.01	0.00	0.00	0.52
		ageu201024	Germany	0.01	0.00	0.00	0.61
Netherlands 0.03 0.01 0.00 0.00				0.02		0.01	0.07
			Netherlands	0.03	0.01	0.00	0.00
Portugal 0.02 0.01 0.00 0.03							
Slovakia 0.03 0.02 0.00 0.00							
Spain 0.01 0.00 0.00 0.62			Spain	0.01	0.00	0.00	0.62

Table 14: Significance of Transfer Entropy coefficients

aged25to34 Austria Austria Austria Austria Auged25to34 Austria Austria Austria Auged25to34 Austria A	X	Y	country	te	ete	se	p-value
Belgium		_					
aged25to34 Bulgaria 0.02 0.00 0.00 0.08							
aged25to34 Croatia							
aged25to34 Estonia 0.02 0.00 0.00 0.13							
aged35to44 France							
aged35to44 Germany 0.01 0.00 0.00 0.16							
aged35to44 Retherlands		aged25to34					
Portugal 0.02 0.00 0.00 0.02							
Slovakia 0.03 0.01 0.00 0.00			Netherlands	0.06	0.05	0.00	0.00
Spain			Portugal	0.02	0.00	0.00	0.22
Austria			Slovakia	0.03	0.01	0.00	0.00
Austria			Spain	0.01	0.00	0.00	0.33
aged45to54 Bulgaria 0.02 0.01 0.00 0.01 0.035 Estonia 0.01 0.00 0.00 0.00 0.19 France 0.02 0.00 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.00 0.01 0.00 0.00 0.01 0.00 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.00 0.01 0.00				0.03	0.02	0.00	0.00
aged45to44 Bulgaria 0.02 0.01 0.00 0.01 Croatia 0.02 0.00 0.01 0.35 Estonia 0.01 0.00 0.00 0.19 France 0.02 0.00 0.00 0.01 0.90 Netherlands 0.02 0.01 0.00 0.00 0.00 Slovakia 0.04 0.03 0.00 0.00 0.00 Spain 0.01 0.00 0.00 0.00 0.00 Bulgaria 0.02 0.01 0.00 0.00 Spain 0.01 0.00 0.00 0.00 0.00 France 0.02 0.01 0.00 0.00 Spain 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Estonia 0.02 0.01 0.00 0.00 Gerece 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Germany 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Spain 0.02 0.01 0.00 0.00 Gerece 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Reference 0.01 0.00 0.00 0.00 Gerece 0.01 0.00 0.00 0.00 France 0.01 0.00 0.00 0.00 Bulgaria 0.02 0.01 0.00 0.00 Bulgaria 0.04 0.03 0.00 0.00 France 0.03 0.02 0.00 0.00			Belgium	0.00	0.00	0.00	0.98
aged45to54 Aged45to54 Estonia 0.02 0.00 0.01 0.35				0.02	0.01	0.00	0.01
aged35to44 Estonia 0.01 0.00 0.00 0.19				0.02	0.00	0.01	0.35
aged35to44 France			Estonia				
aged35to44 Germany 0.01 0.00 0.00 0.61 Greece 0.00 0.00 0.01 0.99 Netherlands 0.02 0.01 0.00 0.02 Portugal 0.03 0.02 0.00 0.00 Slovakia 0.04 0.03 0.00 0.00 Spain 0.01 0.00 0.00 0.60 Spain 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.03 Croatia 0.01 0.00 0.00 0.03 Estonia 0.02 0.01 0.00 0.03 Germany 0.01 0.00 0.00 0.62 Estonia 0.02 0.01 0.00 0.06 Estonia 0.02 0.01 0.00 0.06 Germany 0.01 0.00 0.00 0.40 Greece 0.01 0.00 0.00 0.40 Greece 0.01 0.00 0.00 0.02 Portugal 0.02 0.01 0.00 0.02 Slovakia 0.02 0.01 0.00 0.02 Spain 0.02 0.01 0.00 0.00 Spain 0.02 0.01 0.00 0.00 Belgium 0.02 0.01 0.00 0.00 Greace 0.01 0.00 0.00 0.00 France 0.03 0.02 0.00 0.00 Greatia 0.04 0.03 0.00 0.00 Greatia 0.03 0.02 0.00 0.00 Greace 0.02 0.01 0.01 0.07 Estonia 0.03 0.02 0.00 0.00 Greace 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 France 0.03 0.02 0.00 0.00 Greece 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Portugal 0.04		,,,,,,	France				
Austria Aust		aged45to54					
Portugal 0.03 0.02 0.00 0.00							0.99
Slovakia 0.04 0.03 0.00 0.00			Netherlands	0.02	0.01	0.00	0.02
Spain 0.01 0.00 0.00 0.60			Portugal	0.03	0.02	0.00	0.00
Austria 0.02 0.01 0.00 0.02 Belgium 0.01 0.00 0.00 0.03 Groatia 0.01 0.00 0.00 0.06 Estonia 0.02 0.01 0.00 0.00 Greece 0.01 0.00 0.00 0.00 Spain 0.02 0.01 0.00 0.00 Groatia 0.01 0.00 0.00 0.00 Greece 0.01 0.00 0.00 0.01 Spain 0.02 0.01 0.00 0.00 Greatia 0.04 0.03 0.00 0.00 Belgium 0.02 0.01 0.00 0.00 Groatia 0.02 0.01 0.00 0.00 France 0.03 0.02 0.00 0.00 Greece 0.03 0.02 0.00 0.00 Greece 0.03 0.02 0.00 0.00 Greece 0.02 0.01 0.00 0.00 France 0.03 0.02 0.00 0.00 Greece 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.03 0.02 0.00 0.00			Slovakia	0.04	0.03	0.00	0.00
Belgium	aged35to44		Spain	0.01	0.00	0.00	0.60
Bulgaria 0.02 0.01 0.00 0.03 Croatia 0.01 0.00 0.00 0.62 Estonia 0.02 0.01 0.00 0.06 France 0.01 0.00 0.00 0.36 Germany 0.01 0.00 0.01 0.74 Netherlands 0.02 0.01 0.00 0.02 Portugal 0.02 0.01 0.00 0.02 Slovakia 0.02 0.01 0.00 0.02 Spain 0.02 0.01 0.00 0.01 Austria 0.04 0.03 0.00 0.00 Belgium 0.02 0.01 0.00 0.02 Bulgaria 0.04 0.03 0.00 0.00 Croatia 0.02 0.00 0.01 0.27 Estonia 0.03 0.02 0.00 0.00 Greece 0.03 0.02 0.00 0.00 Greece 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.00 Slovakia 0.02 0.01 0.00 0.00 Slovakia 0.02 0.01 0.00 0.00 Contigal 0.04 0.03 0.00 0.00 Cont			Austria	0.02	0.01	0.00	0.02
Aged55to64 Croatia 0.01 0.00 0.00 0.62			Belgium	0.01	0.00	0.00	0.40
aged55to64 Estonia 0.02 0.01 0.00 0.06			Bulgaria	0.02	0.01	0.00	0.03
aged55to64 France			Croatia	0.01	0.00	0.00	0.62
aged55to64 Germany 0.01 0.00 0.00 0.40 Greece 0.01 0.00 0.01 0.74 Netherlands 0.02 0.01 0.00 0.02 Portugal 0.02 0.01 0.00 0.02 Slovakia 0.02 0.01 0.00 0.08 Spain 0.02 0.00 0.00 0.10 Austria 0.04 0.03 0.00 0.00 Belgium 0.02 0.01 0.00 0.02 Bulgaria 0.04 0.03 0.00 0.00 Croatia 0.02 0.00 0.01 0.27 Estonia 0.03 0.02 0.00 0.00 France 0.03 0.02 0.00 0.00 Gerece 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.00			Estonia	0.02	0.01	0.00	0.06
Germany 0.01 0.00 0.00 0.40 Greece 0.01 0.00 0.01 0.74 Netherlands 0.02 0.01 0.00 0.02 Portugal 0.02 0.00 0.00 0.02 Slovakia 0.02 0.01 0.00 0.08 Spain 0.02 0.00 0.00 0.10 Austria 0.04 0.03 0.00 0.00 Belgium 0.02 0.01 0.00 0.02 Bulgaria 0.04 0.03 0.00 0.00 Croatia 0.02 0.00 0.01 0.27 Estonia 0.03 0.02 0.00 0.00 Gremany 0.03 0.02 0.00 0.00 Greece 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.00		1554 04	France	0.01	0.00	0.00	0.36
Netherlands		aged55to64	Germany	0.01	0.00	0.00	0.40
Portugal 0.02 0.00 0.00 0.22			Greece	0.01	0.00	0.01	0.74
Slovakia 0.02 0.01 0.00 0.08			Netherlands	0.02	0.01	0.00	0.02
Spain 0.02 0.00 0.00 0.10			Portugal	0.02	0.00	0.00	0.22
Austria 0.04 0.03 0.00 0.00 Belgium 0.02 0.01 0.00 0.02 Bulgaria 0.04 0.03 0.00 0.00 Croatia 0.02 0.00 0.01 0.27 Estonia 0.03 0.02 0.00 0.00 France 0.03 0.02 0.00 0.00 Germany 0.03 0.02 0.00 0.00 Greece 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.00			Slovakia	0.02	0.01	0.00	0.08
Belgium 0.02 0.01 0.00 0.02 Bulgaria 0.04 0.03 0.00 0.00 Croatia 0.02 0.00 0.01 0.27 Estonia 0.03 0.02 0.00 0.00 France 0.03 0.02 0.00 0.00 Germany 0.03 0.02 0.00 0.00 Retece 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.02			Spain	0.02	0.00	0.00	0.10
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			Austria	0.04	0.03	0.00	0.00
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			Belgium	0.02	0.01	0.00	0.02
Estonia 0.03 0.02 0.00 0.00 France 0.03 0.02 0.00 0.00 Germany 0.03 0.02 0.00 0.00 Greece 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.02			Bulgaria	0.04	0.03	0.00	0.00
France 0.03 0.02 0.00 0.00 Germany 0.03 0.02 0.00 0.00 Greece 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.02			Croatia	0.02	0.00	0.01	0.27
Germany 0.03 0.02 0.00 0.00 Greece 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.02			Estonia	0.03	0.02	0.00	0.00
Germany 0.03 0.02 0.00 0.00 Greece 0.02 0.01 0.01 0.05 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.02		aged65+	France	0.03	0.02	0.00	0.00
Netherlands 0.03 0.02 0.00 0.00 Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.02			Germany	0.03	0.02	0.00	0.00
Portugal 0.04 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.02			Greece	0.02	0.01	0.01	0.05
Slovakia 0.02 0.01 0.00 0.02			Netherlands	0.03	0.02	0.00	0.00
			Portugal	0.04	0.03	0.00	0.00
Spain 0.03 0.02 0.00 0.00			Slovakia	0.02	0.01	0.00	0.02
			Spain	0.03	0.02	0.00	0.00

Table 15: Significance of Transfer Entropy coefficients

aged45to4 aged15to4 aged15to4 aged15to7 aged45to54 aged15to19 aged15to9 aged15to9 aged15to9 aged15to9 aged15to19 aged15to19 aged15to19 aged15to19 aged15to19 aged15to19 aged15to19 aged15to19 Austria Au	X	Y	country	te	ete	se	p-value
aged45to54 aged15to4 aged15to4 aged15to54 aged15to							
aged45to4 aged10to4 Bulgaria 0.01 0.00 0.00 0.03 Estonia 0.01 0.00 0.00 0.03 France 0.02 0.01 0.00 0.01 Gerece 0.02 0.01 0.00 0.01 Netherlands 0.04 0.03 0.00 0.00 Slovakia 0.01 0.00 0.00 0.03 Spain 0.05 0.04 0.00 0.00 Bulgaria 0.02 0.01 0.00 0.03 Belgium 0.02 0.01 0.00 0.03 Bulgaria 0.02 0.01 0.00 0.05 Bulgaria 0.02 0.01 0.00 0.05 Bulgaria 0.02 0.01 0.00 0.05 Gerece 0.03 0.01 0.00 0.00 France 0.02 0.00 0.01 0.00 Slovakia 0.01 0.00 0.00 0.05 Bulgaria 0.02 0.01 0.00 0.05 Bulgaria 0.02 0.01 0.00 0.05 France 0.02 0.00 0.00 0.05 Bulgaria 0.02 0.01 0.00 0.00 France 0.03 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 France 0.03 0.01 0.01 0.00 Slovakia 0.02 0.00 0.00 0.00 France 0.03 0.01 0.01 0.00 Slovakia 0.02 0.00 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 France 0.03 0.01 0.01 0.00 Slovakia 0.02 0.00 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 France 0.03 0.01 0.01 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.03 0.01 0.01 0.01 France 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.03 0.01 0.01 0.01 France 0.00 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.03 0.01 0.01 0.01 France 0.00 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.03 0.01 0.01 0.01 France 0.00 0.00 0.00 0.00 France 0.0					0.00		
aged45to54 aged10to4 Croatia						0.00	0.14
aged45to54 aged5to69 aged5to69 aged5to69 aged5to69 aged5to79 aged5to79 aged45to54 aged65to79 aged65to79 aged65to79 aged65to79 aged65to79 aged70to79			Croatia	0.01	0.00	0.01	0.33
aged45to4 Germany 0.02			Estonia	0.01	0.00	0.00	0.35
aged45to54 aged15to54 aged15to14 aged15to14 aged15to19 aged15to14 aged10to14 aged10to14 aged10to14 aged10to14 aged15to19 aged15		10. 4	France	0.02	0.01	0.00	0.01
aged45to54 aged15to4 aged15to14 aged15to14 aged15to19 aged15t		agedUto4	Germany	0.02	0.01	0.00	0.01
aged45to54 aged10to14 aged15to19 aged15to19 aged15to19 aged15to19 aged15to19 aged15to19 aged15to19 aged15to19 aged10to14 aged10to14 aged10to14 aged10to14 aged10to14 aged10to19 aged15to19 aged15to19 aged15to19 aged15to19 aged10to14 aged10			Greece	0.02	0.00	0.01	0.16
aged45to54 aged45to54 aged10to14 aged15to9 Austria A			Netherlands	0.04	0.03	0.00	0.00
aged45to54 aged45to54 aged15to9 Austria Aust			Portugal	0.06	0.04	0.01	0.00
aged45to54 aged10to14 aged15to9 Austria Austria Belgium Austria Aust			Slovakia	0.01	0.00	0.00	0.63
aged5to9 Belgium			Spain	0.05	0.04	0.00	0.00
aged5to9 Bulgaria 0.02 0.01 0.00 0.01 Croatia 0.01 0.00 0.01 0.55 Estonia 0.01 0.00 0.00 0.37 France 0.02 0.00 0.00 0.08 Germany 0.01 0.00 0.00 0.08 Gerece 0.03 0.01 0.01 0.00 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.04 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 Spain 0.04 0.03 0.02 0.00 0.00 Belgium 0.01 0.00 0.00 0.03 Bulgaria 0.02 0.01 0.00 0.03 Bulgaria 0.02 0.01 0.00 0.02 Croatia 0.01 0.00 0.01 0.89 Estonia 0.00 0.00 0.00 0.55 Spain 0.03 0.01 0.00 0.01 Netherlands 0.03 0.01 0.00 0.01 Portugal 0.04 0.02 0.00 0.00 Rotherlands 0.03 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Rotherlands 0.03 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Estonia 0.03 0.01 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 France 0.00 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 France 0.00 0.00 0.00 0.00 Rotherlands 0.02 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Greece 0.03 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.				0.02		0.00	0.03
aged5to9 aged5to9 aged5to9 aged5to9 aged5to9 aged5to9 aged5to9 aged5to9 aged6to9 Attail				0.02	0.01	0.00	0.05
aged5to9 Estonia 0.01 0.00 0.00 0.37 France 0.02 0.00 0.00 0.18 Germany 0.01 0.00 0.00 0.00 Greece 0.03 0.01 0.01 0.02 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.04 0.00 0.00 Slovakia 0.02 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Estonia 0.02 0.01 0.00 0.02 Croatia 0.01 0.00 0.00 0.33 France 0.03 0.01 0.01 0.00 Greece 0.03 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Estonia 0.03 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Estonia 0.01 0.00 0.00 0.00 France 0.00 0.00 0.00 0.00 Germany 0.01 0.00 0.00 0.00 France 0.00 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.00 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.00 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 France 0.00 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia			Bulgaria	0.02	0.01	0.00	0.01
aged45to4 France				0.01		0.01	
aged45to54 Germany 0.01 0.00 0.00 0.86			Estonia	0.01	0.00	0.00	0.37
aged45to54 aged15to14 aged15to14 aged15to14 aged15to14 aged15to14 aged15to14 aged20to24 Austria 0.03 0.02 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Austria 0.03 0.02 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Austria 0.03 0.01 0.00 0.00 Belgium 0.01 0.00 0.00 0.64 Austria 0.05 0.04 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Austria 0.05 0.04 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Austria 0.05 0.04 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Austria 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Austria 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Austria 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Austria 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00		aged5to9					
Aged45to54 Reference		agedotos					
aged45to54 aged10to14 Austria aged10to14 aged10to14 aged10to14 Austria aged10to14 aged10to14 aged10to14 aged10to14 Austria aged10to14 aged10to14 aged10to14 Austria aged10to14 aged10to14 Austria Belgium Croatia Croati							
Slovakia 0.02 0.00 0.00 0.13							
Austria 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0			_				
Austria 0.03 0.02 0.00 0.00 Belgium							
Belgium							
aged45to54 aged10to14 Bulgaria 0.02 0.01 0.00 0.01 0.89 Estonia 0.00 0.00 0.00 0.94 France 0.01 0.00 0.00 0.00 0.52 Germany 0.01 0.00 0.00 0.00 0.64 Greece 0.03 0.01 0.00 0.00 0.01 Netherlands 0.03 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Croatia 0.01 0.00 0.00 0.00 Germany 0.01 0.00 0.00 0.00 France 0.03 0.01 0.01 0.00 Gerece 0.03 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Fortugal 0.04 0.02 0.01 0.00 Slovakia 0.01 0.00 0.00 0.00 Slovakia 0.01 0.00 0.00 0.00 Fortugal 0.01 0.00 0.00 0.00 France 0.02 0.01 0.00 0.00 Germany 0.01 0.00 0.00 0.00 France 0.02 0.01 0.00 0.00 Germany 0.01 0.00 0.00 0.00 France 0.02 0.01 0.00 0.00							
aged10to14 April			_				
Estonia 0.00 0.00 0.00 0.94			_				
aged10to14 France							
aged10to14 Germany 0.01 0.00 0.00 0.64 Greece 0.03 0.01 0.01 0.01 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.04 0.02 0.00 0.00 Slovakia 0.01 0.00 0.00 0.85 Spain 0.03 0.02 0.00 0.00 Belgium 0.01 0.00 0.00 0.86 Bulgaria 0.03 0.01 0.00 0.00 Croatia 0.01 0.00 0.01 0.92 Estonia 0.01 0.00 0.00 0.35 France 0.00 0.00 0.00 0.79 Greece 0.03 0.01 0.00 0.02 Portugal 0.04 0.02 0.01 0.00 Slovakia 0.01 0.00 0.00 0.57 Spain 0.02 0.01 0.00 0.00 Austria 0.01 0.00 0.00 0.57 Spain 0.02 0.01 0.00 0.00 Austria 0.01 0.00 0.00 0.62 Belgium 0.01 0.00 0.00 0.89 Bulgaria 0.01 0.00 0.00 0.18 Croatia 0.02 0.01 0.00 0.00 France 0.02 0.01 0.00 0.00 Germany 0.01 0.00 0.00 0.30 France 0.02 0.01 0.00 0.00 Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.00 0.00 Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.00 0.00 Rotherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.00	aged45to54						
Greece		aged10to14					
Netherlands							
Portugal 0.04 0.02 0.00 0.00							
Slovakia 0.01 0.00 0.00 0.85							
Spain 0.03 0.02 0.00 0.00							
Austria 0.05 0.04 0.00 0.00 Belgium 0.01 0.00 0.00 0.86 Bulgaria 0.03 0.01 0.00 0.00 Croatia 0.01 0.00 0.01 0.92 Estonia 0.01 0.00 0.00 0.00 0.35 France 0.00 0.00 0.00 0.00 0.79 Greece 0.03 0.01 0.00 0.00 0.02 Portugal 0.04 0.02 0.01 0.00 0.02 Slovakia 0.01 0.00 0.00 0.57 Spain 0.02 0.01 0.00 0.00 0.57 Estonia 0.01 0.00 0.00 0.00 0.57 Spain 0.02 0.01 0.00 0.00 0.57 Spain 0.02 0.01 0.00 0.00 0.57 Spain 0.01 0.00 0.00 0.00 0.62 Belgium 0.01 0.00 0.00 0.00 0.62 Belgium 0.01 0.00 0.00 0.00 0.89 Bulgaria 0.01 0.00 0.00 0.00 0.30 France 0.02 0.01 0.00 0.00 0.30 France 0.02 0.01 0.00 0.00 0.55 Slovakia 0.01 0.00 0.00 0.55 Slovakia 0.01 0.00 0.00 0.00							
Belgium 0.01 0.00 0.00 0.86 Bulgaria 0.03 0.01 0.00 0.00 Croatia 0.01 0.00 0.01 0.92 Estonia 0.01 0.00 0.00 0.35 France 0.00 0.00 0.00 0.00 0.79 Greece 0.03 0.01 0.00 0.00 0.02 Portugal 0.04 0.02 0.01 0.00 Slovakia 0.01 0.00 0.00 0.00 Spain 0.02 0.01 0.00 0.00 Spain 0.02 0.01 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Bulgaria 0.01 0.00 0.00 0.00 Bulgaria 0.01 0.00 0.00 0.00 Bulgaria 0.01 0.00 0.00 0.00 Croatia 0.02 0.01 0.00 0.00 Bulgaria 0.01 0.00 0.00 0.89 Bulgaria 0.01 0.00 0.00 0.00							
aged15to19 Bulgaria 0.03 0.01 0.00 0.00 Croatia 0.01 0.00 0.01 0.92 Estonia 0.01 0.00 0.00 0.35 France 0.00 0.00 0.00 0.00 Germany 0.01 0.00 0.00 0.79 Greece 0.03 0.01 0.01 0.00 0.02 Portugal 0.04 0.02 0.01 0.00 0.02 Portugal 0.04 0.02 0.01 0.00 0.57 Spain 0.02 0.01 0.00 0.00 0.57 Spain 0.02 0.01 0.00 0.00 0.62 Belgium 0.01 0.00 0.00 0.62 Belgium 0.01 0.00 0.00 0.89 Bulgaria 0.01 0.00 0.00 0.18 Croatia 0.02 0.01 0.00 0.30 France 0.02 0.01 0.00 0.30 Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.01 0.03 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.00							
Austria 0.01 0.00 0.00 0.01 0.00 0.00 0.00 0.0							
Aged15to19 Estonia O.01 O.00 O.01 O.01 Netherlands O.02 O.01 O.00 O.00 Slovakia O.01 O.00 O.00			_				
Aged15to19 France Germany O.01 O.00 O.00 O.00 O.00 O.00 O.79 Greece O.03 O.01 O.01 O.00 O.02 O.01 O.00 O.00 O.05 Slovakia O.01 O.00 O.00 O.00 O.00 O.00 O.00 O.00							
Germany 0.01 0.00 0.00 0.79		1.2					
Greece 0.03 0.01 0.01 0.01 Netherlands 0.02 0.01 0.00 0.02 Portugal 0.04 0.02 0.01 0.00 0.00 Slovakia 0.01 0.00 0.00 0.57 Spain 0.02 0.01 0.00 0.00 0.62 Belgium 0.01 0.00 0.00 0.62 Belgium 0.01 0.00 0.00 0.89 Bulgaria 0.01 0.00 0.00 0.18 Croatia 0.02 0.00 0.01 0.25 Estonia 0.01 0.00 0.00 0.30 France 0.02 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.00 0.03 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.01		aged15to19	Germany				
Portugal 0.04 0.02 0.01 0.00				0.03	0.01	0.01	0.01
Slovakia 0.01 0.00 0.00 0.57			Netherlands	0.02	0.01	0.00	0.02
Austria 0.01 0.00 0.00 0.62 Belgium 0.01 0.00 0.00 0.89 Bulgaria 0.01 0.00 0.00 0.18 Croatia 0.02 0.00 0.01 0.25 Estonia 0.01 0.00 0.00 0.30 France 0.02 0.01 0.00 0.00 Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.01 0.00 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.05 Slovakia 0.02 0.01 0.00 0.00				0.04	0.02	0.01	0.00
Austria 0.01 0.00 0.00 0.62 Belgium 0.01 0.00 0.00 0.89 Bulgaria 0.01 0.00 0.00 0.18 Croatia 0.02 0.00 0.01 0.25 Estonia 0.01 0.00 0.00 0.30 France 0.02 0.01 0.00 0.00 Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.01 0.00 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.00			Slovakia	0.01	0.00	0.00	0.57
Belgium 0.01 0.00 0.00 0.89 Bulgaria 0.01 0.00 0.00 0.18 Croatia 0.02 0.00 0.01 0.25 Estonia 0.01 0.00 0.00 0.30 France 0.02 0.01 0.00 0.10 Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.01 0.00 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.01			Spain	0.02	0.01	0.00	0.00
aged20to24 Bulgaria 0.01 0.00 0.00 0.18 Croatia 0.02 0.00 0.01 0.25 Estonia 0.01 0.00 0.00 0.30 France 0.02 0.01 0.00 0.10 Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.01 0.00 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.01			Austria	0.01	0.00	0.00	0.62
aged20to24 Croatia 0.02 0.00 0.01 0.25 Estonia 0.01 0.00 0.00 0.30 France 0.02 0.01 0.00 0.10 Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.00 0.00 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.01			Belgium				
aged20to24 Croatia 0.02 0.00 0.01 0.25 Estonia 0.01 0.00 0.00 0.30 France 0.02 0.01 0.00 0.10 Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.00 0.00 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.01			Bulgaria	0.01	0.00	0.00	0.18
France 0.02 0.01 0.00 0.10 Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.01 0.03 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.01				0.02	0.00	0.01	0.25
Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.01 0.03 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.01			Estonia	0.01	0.00		0.30
Germany 0.01 0.00 0.00 0.59 Greece 0.03 0.01 0.01 0.00 Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.01		aged20to24					
Netherlands 0.03 0.01 0.00 0.00 Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.01		ageu201024	Germany	0.01	0.00	0.00	0.59
Portugal 0.01 0.00 0.00 0.55 Slovakia 0.02 0.01 0.00 0.01							
Slovakia 0.02 0.01 0.00 0.01							
			0				
Spain 0.02 0.00 0.00 0.21							
			Spain	0.02	0.00	0.00	0.21

Table 16: Significance of Transfer Entropy coefficients

X	Y	country	te	ete	se	p-value
	1	Austria	0.02	0.00	0.00	0.11
		Belgium	0.02	0.00	0.00	0.11
		Bulgaria	0.01	0.00	0.00	0.93
		Croatia	0.02	0.00	0.00	0.01
		Estonia	0.01	0.00	0.00	0.04
		France	0.02	0.00	0.00	0.65
	aged25to34	Germany	0.01	0.03	0.00	0.00
		Greece	0.04	0.03	0.00	0.00
		Netherlands	0.05	0.01	0.00	0.02
		Portugal	0.03	0.03	0.00	0.00
		Slovakia	0.02	0.01	0.00	0.00
		Spain	0.03	0.02	0.00	0.00
		Austria	0.03	0.01	0.00	0.01
		Belgium	0.02	0.00	0.00	0.02
		Bulgaria	0.01	0.00	0.00	0.30
		Croatia	0.01	0.00	0.00	0.18
		Estonia	0.01	0.00	0.00	0.94
		France	0.01	0.00	0.00	0.35
	aged35to44		0.01	0.00	0.00	0.00
		Germany Greece	0.03	0.02	0.00	0.00
		Netherlands	0.01	0.00	0.01	0.47
		Portugal	0.03	0.02	0.00	0.00
		Slovakia	0.02	0.01	0.00	0.03
aged45to54		Spain	0.04	0.02	0.00	0.00
O		Austria	0.02	0.01	0.00	0.01
		Belgium	0.02	0.01	0.00	0.03
		Bulgaria	0.02	0.00	0.00	0.10
		Croatia	0.01	0.00	0.00	0.09
		Estonia	0.00	0.00	0.00	0.57
		France	0.01	0.00	0.00	0.52
	aged55to64	Germany	0.01	0.00	0.00	0.36
		Greece	0.01	0.00	0.00	0.80
		Netherlands	0.01	0.00	0.00	0.05
		Portugal	0.02	0.00	0.00	0.03
		Slovakia	0.02	0.00	0.00	0.13
		Spain	0.01	0.00	0.00	0.04
		Austria	0.02	0.01	0.00	0.08
		Belgium	0.04	0.02	0.00	0.00
		Bulgaria	0.02	0.01	0.00	0.03
		Croatia	0.03	0.02	0.00	0.00
		Estonia	0.01	0.00	0.01	0.73
	aged65+	France	0.03	0.02	0.00	0.00
		Germany Greece				
			0.02	0.01	0.01	0.06
		Netherlands	0.02	0.01		0.03
		Portugal	0.04	0.02	0.00	0.00
		Slovakia	0.01	0.00	0.00	0.71
-		Spain	0.04	0.02	0.00	0.00

Table 17: Significance of Transfer Entropy coefficients

X	Y	country	te	ete	se	p-value
	-	Austria	0.03	0.02	0.00	0.00
		Belgium	0.02	0.01	0.00	0.03
		Bulgaria	0.01	0.00	0.00	0.46
		Croatia	0.02	0.01	0.01	0.04
		Estonia	0.02	0.01	0.00	0.04
	104 . 4	France	0.02	0.01	0.00	0.01
	aged0to4	Germany	0.02	0.01	0.00	0.02
		Greece	0.03	0.01	0.01	0.02
		Netherlands	0.03	0.02	0.00	0.00
		Portugal	0.05	0.04	0.00	0.00
		Slovakia	0.01	0.00	0.00	0.61
		Spain	0.04	0.03	0.00	0.00
		Austria	0.02	0.01	0.00	0.04
		Belgium	0.02	0.01	0.00	0.07
		Bulgaria	0.02	0.00	0.00	0.07
		Croatia	0.02	0.00	0.01	0.26
		Estonia	0.01	0.00	0.00	0.67
	aged5to9	France	0.01	0.00	0.00	0.22
		Germany	0.01	0.00	0.00	0.38
		Greece	0.03	0.01	0.01	0.04
		Netherlands	0.03	0.02	0.00	0.00
		Portugal	0.05	0.03	0.00	0.00
		Slovakia	0.01	0.00	0.00	0.56
		Spain Austria	0.04	0.03	0.00	0.00
		Belgium	0.02	0.01	0.00	0.08
		Bulgaria	0.01	0.00	0.00	0.08
		Croatia	0.01	0.00	0.00	0.50
		Estonia	0.01	0.00	0.00	0.86
aged55to64		France	0.01	0.00	0.00	0.59
	aged10to14	Germany	0.01	0.00	0.00	0.19
		Greece	0.03	0.02	0.01	0.01
		Netherlands	0.05	0.04	0.00	0.00
		Portugal	0.03	0.02	0.01	0.00
		Slovakia	0.01	0.00	0.00	0.94
		Spain	0.03	0.01	0.00	0.01
		Austria	0.06	0.04	0.00	0.00
		Belgium	0.01	0.00	0.00	0.35
		Bulgaria	0.02	0.01	0.00	0.03
		Croatia	0.01	0.00	0.00	0.36
		Estonia	0.01	0.00	0.00	0.38
	aged15to19	France	0.01	0.00	0.00	0.72
		Germany	0.01	0.00	0.00	0.38
		Greece	0.03	0.02	0.01	0.00
		Netherlands	0.04	0.03	0.00	0.00
		Portugal	0.03	0.01	0.00	0.01
		Slovakia	0.01	0.00	0.00	0.65
		Spain	0.03	0.02	0.00	0.00
		Austria	0.02	0.01	0.00	0.01
		Belgium Bulgaria	0.01	0.00	0.00	0.96
		Croatia	0.02	0.01	0.00	0.01
		Estonia	0.02	0.01	0.01	0.03
		France	0.02	0.00	0.00	0.08
	aged 20 to 24	Germany	0.02	0.00	0.00	0.01
		Greece	0.01	0.00	0.00	0.71
		Netherlands	0.03	0.00	0.01	0.01
		Portugal	0.01	0.00	0.00	0.49
		Slovakia	0.01	0.01	0.00	0.03
		Spain	0.03	0.02	0.00	0.00
	I	- I -				L 0.00

Table 18: Significance of Transfer Entropy coefficients

Austria	X	Y	country	te	ete	se	p-value
Belgium		_					_
aged25to44 aged35to44 aged35to44 aged35to64 aged3t							
aged25to34 Austria Au							
aged25to34 Estonia							
aged25to34							
aged55to64 Germany 0.04 0.02 0.00 0.00							
aged55to64 Greece		aged25to34					
Netherlands							
aged55to64 Portugal 0.01 0.00 0.00 0.04 Spain 0.04 0.03 0.00 0.00 0.04 Spain 0.04 0.03 0.00 0.00 0.09 Belgium 0.01 0.00 0.00 0.05 Estonia 0.01 0.00 0.00 0.05 Estonia 0.01 0.00 0.00 0.00 Greece 0.02 0.01 0.00 0.00 Portugal 0.02 0.01 0.00 0.00 Portugal 0.02 0.01 0.00 0.01 Slovakia 0.02 0.01 0.00 0.05 Estonia 0.01 0.00 0.00 Portugal 0.02 0.01 0.00 0.05 Estonia 0.01 0.00 0.00 Estonia 0.01 0.00 0.00 Portugal 0.02 0.01 0.00 0.00 Estonia 0.01 0.00 0.05 Estonia 0.01 0.00 0.05 Estonia 0.01 0.00 0.05 Estonia 0.01 0.00 0.00 0.03 Estonia 0.01 0.00 0.00 0.03 Estonia 0.01 0.00 0.00 0.03 Estonia 0.01 0.00 0.00 0.00 Portugal 0.02 0.01 0.00 0.00 Portugal 0.02 0.00 0.00 0.00 Portugal 0.02 0.00 0.00 0.00 Estonia 0.03 0.02 0.00 0.00 Esto							
Slovakia 0.02 0.01 0.00 0.04							
Austria 0.02 0.01 0.00 0.09				0.02	0.01	0.00	0.04
Austria 0.02 0.01 0.00 0.09			Spain	0.04	0.03	0.00	0.00
aged35to44 Aged35to44 Bulgaria 0.02 0.01 0.00 0.05 Croatia 0.03 0.01 0.01 0.00 0.64 Estonia 0.01 0.00 0.00 0.07 Germany 0.03 0.01 0.00 0.00 0.00 Prance 0.02 0.00 0.01 0.00 0.00 Portugal 0.02 0.01 0.00 0.00 0.00 Portugal 0.02 0.01 0.00 0.00 0.17 Spain 0.04 0.03 0.00 0.00 0.05 Bulgaria 0.01 0.00 0.00 0.00 Croatia 0.03 0.02 0.01 0.00 0.03 France 0.02 0.01 0.00 0.00 0.38 France 0.02 0.01 0.00 0.00 0.38 France 0.02 0.01 0.00 0.00 0.03 Gerece 0.01 0.00 0.00 0.00 0.00 Portugal 0.02 0.00 0.00 0.00 0.00 France 0.04 0.03 0.02 0.00 0.00 France 0.04 0.03 0.02 0.00 0.00 France 0.04 0.03 0.02 0.00 0.00 Portugal 0.05 0.03 0.00 0.00 0.00 0				0.02	0.01	0.00	0.09
aged35to44 Aged35to44 Estonia Croatia			Belgium	0.01	0.00	0.00	0.38
aged35to44 Aged35to44 Estonia Croatia			Bulgaria	0.02	0.01	0.00	0.05
aged35to44 Estonia 0.01 0.00 0.00 0.64 France 0.02 0.01 0.00 0.00 Germany 0.03 0.01 0.00 0.00 Greece 0.02 0.00 0.01 0.24 Netherlands 0.04 0.03 0.00 0.00 Portugal 0.02 0.01 0.00 0.00 Slovakia 0.02 0.01 0.00 0.00 Spain 0.04 0.03 0.00 0.00 Estonia 0.02 0.01 0.00 0.05 Belgium 0.01 0.00 0.00 0.55 Bulgaria 0.01 0.00 0.00 0.69 Croatia 0.03 0.02 0.01 0.00 Greece 0.01 0.00 0.00 0.38 France 0.02 0.01 0.00 0.03 Germany 0.00 0.00 0.00 0.03 France 0.02 0.01 0.00 0.00 Greece 0.01 0.00 0.00 0.00 Portugal 0.02 0.01 0.00 0.02 Slovakia 0.01 0.00 0.00 0.03 Spain 0.03 0.02 0.00 0.00 Portugal 0.02 0.00 0.00 0.00 Austria 0.02 0.00 0.00 0.00 Estonia 0.03 0.02 0.00 0.00 Greece 0.01 0.00 0.00 0.00 Estonia 0.03 0.02 0.00 0.00 Croatia 0.03 0.02 0.00 0.00 Estonia 0.03 0.02 0.00 0.00 Estonia 0.03 0.02 0.00 0.00 France 0.04 0.03 0.00 0.00 Greece 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 France 0.04 0.03 0.02 0.00 0.00 Greece 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.03 0.00 0.00				0.03	0.01	0.01	0.00
aged35to44 France			Estonia				
aged55to64 Germany 0.03 0.01 0.00 0.00 Greece 0.02 0.00 0.01 0.24 Netherlands 0.04 0.03 0.00 0.00 Portugal 0.02 0.01 0.00 0.10 Slovakia 0.02 0.01 0.00 0.01 Spain 0.04 0.03 0.00 0.00 Austria 0.02 0.01 0.00 0.05 Belgium 0.01 0.00 0.00 0.55 Bulgaria 0.01 0.00 0.00 0.69 Croatia 0.03 0.02 0.01 0.00 0.03 Estonia 0.01 0.00 0.00 0.03 France 0.02 0.01 0.00 0.03 Germany 0.00 0.00 0.00 0.00 Greece 0.01 0.00 0.00 0.00 Portugal 0.02 0.00 0.00 0.00 Portugal 0.02 0.00 0.00 0.00 Portugal 0.02 0.00 0.00 0.00 Spain 0.03 0.02 0.00 0.00 Austria 0.02 0.00 0.00 0.00 Belgium 0.02 0.01 0.00 0.00 Croatia 0.03 0.02 0.00 0.00 Bulgaria 0.03 0.02 0.00 0.00 Croatia 0.03 0.02 0.00 0.00 Estonia 0.03 0.02 0.00 0.00 Greace 0.01 0.00 0.00 France 0.04 0.03 0.00 0.00 Greece 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 Greece 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 France 0.04 0.03 0.02 0.00 0.00 Greece 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.03 0.00 0.00 Portugal 0.05 0.03 0.00 0.00 Portugal 0.05 0.03 0.00 0.00		100	France				
Austria Aust		aged35to44					
Portugal 0.02 0.01 0.00 0.10							
Portugal 0.02 0.01 0.00 0.10			Netherlands	0.04	0.03	0.00	0.00
Spain 0.04 0.03 0.00 0.00				0.02	0.01	0.00	0.10
Austria 0.02 0.01 0.00 0.05 Belgium 0.01 0.00 0.00 0.69 Bulgaria 0.01 0.00 0.00 0.01 Estonia 0.01 0.00 0.00 0.03 France 0.02 0.01 0.00 0.00 Greece 0.01 0.00 0.00 0.00 Spain 0.03 Spain 0.03 0.02 0.01 0.00 Portugal 0.02 0.00 0.00 0.00 Spain 0.03 0.02 0.00 0.00 Belgium 0.01 0.00 0.00 0.00 Greece 0.01 0.00 0.00 0.00 0.00 Spain 0.03 0.02 0.00 0.00 Belgium 0.03 0.02 0.00 0.00 Croatia 0.03 0.02 0.00 0.00 Belgium 0.03 0.02 0.00 0.00 Greece 0.01 0.00 0.00 0.00 Spain 0.03 0.02 0.00 0.00 Belgium 0.02 0.01 0.00 0.00 Greatia 0.03 0.02 0.00 0.00 France 0.04 0.03 0.02 0.00 0.00 Germany 0.03 0.02 0.00 0.00 France 0.04 0.03 0.02 0.00 0.00 Germany 0.03 0.02 0.00 0.00 France 0.04 0.03 0.02 0.00 0.00 Germany 0.03 0.02 0.00 0.00 France 0.04 0.03 0.02 0.00 0.00 France 0.04 0.03 0.02 0.00 0.00 France 0.04 0.03 0.02 0.00 0.00 France 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.01			Slovakia	0.02	0.00	0.00	0.17
Belgium	aged55to64		Spain	0.04	0.03	0.00	0.00
Bulgaria 0.01 0.00 0.00 0.69			Austria	0.02	0.01	0.00	0.05
Aged45to54 Croatia 0.03 0.02 0.01 0.01			Belgium	0.01	0.00	0.00	0.55
Estonia 0.01 0.00 0.00 0.38			Bulgaria	0.01	0.00	0.00	0.69
France			Croatia	0.03	0.02	0.01	0.01
aged45to54 Germany			Estonia	0.01	0.00	0.00	0.38
Germany 0.00 0.00 0.00 1.00		1454 54	France	0.02	0.01	0.00	0.03
Netherlands		aged45to54	Germany	0.00	0.00	0.00	1.00
Portugal 0.02 0.00 0.00 0.22			Greece	0.01	0.00	0.01	0.74
Slovakia 0.01 0.00 0.00 0.33 Spain 0.03 0.02 0.00 0.00 Austria 0.02 0.00 0.00 0.16 Belgium 0.02 0.01 0.00 0.09 Bulgaria 0.03 0.02 0.00 0.00 Croatia 0.03 0.02 0.01 0.00 Estonia 0.03 0.02 0.01 0.00 Estonia 0.03 0.02 0.00 0.00 France 0.04 0.03 0.00 0.00 Germany 0.03 0.02 0.00 0.00 Greece 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.15			Netherlands	0.03	0.02	0.00	0.00
Spain 0.03 0.02 0.00 0.00			Portugal	0.02	0.00	0.00	0.22
Austria 0.02 0.00 0.00 0.16 Belgium 0.02 0.01 0.00 0.09 Bulgaria 0.03 0.02 0.01 0.00 Croatia 0.03 0.02 0.01 0.00 Estonia 0.03 0.02 0.00 0.00 France 0.04 0.03 0.00 0.00 Germany 0.03 0.02 0.00 0.00 Gerece 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.15			Slovakia	0.01	0.00	0.00	0.33
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			Spain	0.03	0.02	0.00	0.00
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			Austria	0.02	0.00	0.00	0.16
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			Belgium	0.02	0.01	0.00	0.09
Estonia 0.03 0.02 0.00 0.00 France 0.04 0.03 0.00 0.00 Germany 0.03 0.02 0.00 0.00 Greece 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.15			Bulgaria	0.03	0.02	0.00	0.00
France 0.04 0.03 0.00 0.00 Germany 0.03 0.02 0.00 0.00 Greece 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.15			Croatia	0.03	0.02	0.01	0.00
Germany 0.03 0.02 0.00 0.00 Greece 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.15			Estonia	0.03	0.02	0.00	0.00
Germany 0.03 0.02 0.00 0.00 Greece 0.01 0.00 0.01 0.37 Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.15		0 = 0 = 0 = 0	France	0.04	0.03	0.00	0.00
Netherlands 0.03 0.02 0.00 0.00 Portugal 0.05 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.15		aged65+		0.03	0.02	0.00	0.00
Portugal 0.05 0.03 0.00 0.00 Slovakia 0.02 0.01 0.00 0.15			Greece	0.01	0.00	0.01	0.37
Slovakia 0.02 0.01 0.00 0.15			Netherlands	0.03	0.02	0.00	0.00
			Portugal	0.05	0.03	0.00	0.00
Spain 0.03 0.02 0.00 0.00			Slovakia	0.02	0.01	0.00	0.15
			Spain	0.03	0.02	0.00	0.00

Table 19: Significance of Transfer Entropy coefficients

	Y		4.0	-4-		
X	Y	country	te	ete	se	p-value
		Austria	0.02	0.01	0.00	0.03
		Belgium	0.02	0.00	0.00	0.11
		Bulgaria	0.01	0.00	0.00	0.36
		Croatia	0.01	0.00	0.01	0.49
		Estonia	0.03	0.01	0.00	0.02
	aged0to4	France	0.01	0.00	0.00	0.25
		Germany	0.03	0.02	0.00	0.00
		Greece	0.02	0.00	0.01	0.10
		Netherlands	0.02	0.01	0.00	0.00
		Portugal	0.03	0.02	0.00	0.00
		Slovakia	0.02	0.01	0.00	0.05
		Spain	0.03	0.02	0.00	0.00
		Austria	0.01	0.00	0.00	0.97
		Belgium	0.02	0.01	0.00	0.03
		Bulgaria	0.02	0.00	0.00	0.07
		Croatia	0.01	0.00	0.01	0.47
		Estonia	0.01	0.00	0.00	0.30
	1540	France	0.01	0.00	0.00	0.25
	aged5to9	Germany	0.02	0.01	0.00	0.01
		Greece	0.02	0.00	0.01	0.25
		Netherlands	0.02	0.00	0.00	0.06
		Portugal	0.02	0.01	0.00	0.02
		Slovakia	0.02	0.01	0.00	0.06
		Spain	0.02	0.01	0.00	0.01
		Austria	0.01	0.00	0.00	0.41
		Belgium	0.02	0.00	0.00	0.11
		Bulgaria	0.02	0.00	0.00	0.10
		Croatia	0.01	0.00	0.00	0.91
		Estonia	0.01	0.00	0.00	0.81
aged65+		France	0.01	0.00	0.00	0.47
	aged10to14	Germany	0.02	0.01	0.00	0.03
		Greece	0.02	0.01	0.01	0.09
		Netherlands	0.04	0.02	0.00	0.00
		Portugal	0.01	0.02	0.00	0.31
		Slovakia	0.01	0.00	0.00	0.81
		Spain	0.01	0.00	0.00	0.01
			0.02	0.01	0.00	0.07
		Austria		0.01	0.00	
		Belgium	0.01			0.38
		Bulgaria	0.02	0.01	0.00	0.02
		Croatia	0.01	0.00	0.01	0.94
		Estonia	0.01	0.00	0.00	0.30
	aged15to19	France	0.01	0.00	0.00	0.63
		Germany	0.02	0.01	0.00	0.01
		Greece	0.02	0.00	0.01	0.31
		Netherlands	0.01	0.00	0.00	0.16
		Portugal	0.01	0.00	0.00	0.40
		Slovakia	0.01	0.00	0.00	0.31
		Spain	0.03	0.01	0.00	0.00
		Austria	0.01	0.00	0.00	0.65
		Belgium	0.01	0.00	0.00	0.79
		Bulgaria	0.02	0.00	0.00	0.09
		Croatia	0.01	0.00	0.00	0.33
		Estonia	0.03	0.02	0.00	0.00
		France	0.02	0.01	0.00	0.11
	aged20to24	Germany	0.02	0.01	0.00	0.01
		Greece	0.01	0.00	0.01	0.71
		Netherlands	0.02	0.01	0.00	0.03
		Portugal	0.01	0.00	0.00	0.95
		Slovakia	0.04	0.03	0.00	0.00
		Spain	0.03	0.03	0.00	0.00
	L	Spani	0.00	0.02	0.00	0.00

Table 20: Significance of Transfer Entropy coefficients

X	Y	country	te	ete	se	p-value
		Austria	0.01	0.00	0.00	0.58
		Belgium	0.00	0.00	0.00	0.97
		Bulgaria	0.01	0.00	0.01	0.22
		Croatia	0.01	0.00	0.01	0.43
		Estonia	0.02	0.01	0.00	0.02
	1051 04	France	0.01	0.00	0.00	0.40
	aged25to34	Germany	0.06	0.05	0.00	0.00
		Greece	0.01	0.00	0.01	0.67
		Netherlands	0.03	0.02	0.00	0.00
		Portugal	0.01	0.00	0.00	0.65
		Slovakia	0.03	0.02	0.00	0.00
		Spain	0.04	0.03	0.00	0.00
		Austria	0.01	0.00	0.00	0.49
		Belgium	0.02	0.01	0.00	0.03
		Bulgaria	0.01	0.00	0.00	0.81
		Croatia	0.02	0.00	0.00	0.12
		Estonia	0.02	0.00	0.00	0.13
	aged35to44	France	0.01	0.00	0.00	0.12
	aged35t044	Germany	0.04	0.03	0.00	0.00
		Greece	0.01	0.00	0.01	0.44
		Netherlands	0.03	0.02	0.00	0.00
		Portugal	0.02	0.00	0.00	0.22
105 1		Slovakia	0.02	0.01	0.00	0.02
aged65+		Spain	0.04	0.02	0.00	0.00
		Austria	0.02	0.01	0.00	0.03
		Belgium	0.01	0.00	0.00	0.60
		Bulgaria	0.00	0.00	0.00	0.96
		Croatia	0.02	0.00	0.01	0.24
		Estonia	0.03	0.02	0.00	0.01
	aged45to54	France	0.02	0.01	0.00	0.06
		Germany	0.03	0.02	0.00	0.00
		Greece	0.01	0.00	0.01	0.35
		Netherlands	0.01	0.00	0.00	0.13
		Portugal	0.03	0.01	0.00	0.02
		Slovakia	0.02	0.01	0.00	0.01
		Spain	0.02	0.01	0.00	0.00
		Austria	0.02	0.01	0.00	0.01
		Belgium	0.01	0.00	0.00	0.26
		Bulgaria Croatia	0.00	0.00	0.00	0.89
		Estonia	0.01	0.00		0.68
			0.03	0.02	0.00	0.00
	aged55to64	France	0.01	0.00	0.00	0.63
		Germany Greece	0.03	0.02	0.00	0.00
		Netherlands	0.00	0.00	0.01	
			0.03	0.02	0.00	0.00
		Portugal Slovakia	0.04	0.03	0.00	0.00
		Spain	0.01	0.00	0.00	0.57