**Appendices**

**World Values Survey question wording**

Sourced from the 2012 World Values Survey questionnaire (www.worldvaluessurvey.org).

***Voluntary association membership***

“Now I am going to read off a list of voluntary organizations. For each organization, could you tell me whether you are an active member, an inactive member or not a member of that type of organization?”

Response categories: Church or religious organization; Sport or recreational organization; Art, music or educational organization; Labor Union; Political party; Environmental organization; Professional association; Humanitarian or charitable organization; Other organization.

***Employment status***

“Are you employed now or not? If yes, about how many hours a week? If more than one job: only for the main job:”

Response categories:

* Yes, has paid employment: Full time employee (30 hours a week or more); Part time employee (less than 30 hours a week); Self employed.
* No, no paid employment: Retired/pensioned; Housewife not otherwise employed; Student; Unemployed; Other.

***Income***

“On this card is an income scale on which 1 indicates the lowest income group and 10 the highest income group in your country. We would like to know in what group your household is. Please, specify the appropriate number, counting all wages, salaries, pensions and other incomes that come in.”

***University degree***

“What is the highest educational level that you have attained?” [NOTE: if respondent indicates to be a student, code highest level s/he expects to complete]

Response categories: No formal education; Incomplete primary school; Complete primary school; Incomplete secondary school: technical/vocational type; Complete secondary school: technical/vocational type; Incomplete secondary: university-preparatory type; Complete secondary: university-preparatory type; Some university-level education, without degree; University-level education, with degree.

***Age***

“Can you tell me your year of birth, please? 19\_\_\_\_” (write in last two digits)

“This means you are \_\_\_\_ years old” (write in age in two digits)

***Gender***

(Code respondent’s sex by observation):Male; Female.

***Postmaterialism (12-item index)***

“People sometimes talk about what the aims of this country should be for the next ten years. On this card are listed some of the goals which different people would give top priority. Would you please say which one of these you, yourself, consider the most important? And which would be the next most important?”

Response categories: A. A high level of economic growth; B. Making sure this country has strong defense forces; C. Seeing that people have more say about how things are done at their jobs and in their communities; D. Trying to make our cities and countryside more beautiful.

“If you had to choose, which one of the things on this card would you say is most important? And which would be the next most important?”

Response categories: E. Maintaining order in the nation; F. Giving people more say in important government decisions; G. Fighting rising prices; H. Protecting freedom of speech.

“Here is another list. In your opinion, which one of these is most important? And what would be the next most important?”

Response categories: I. A stable economy; J. Progress toward a less impersonal and more humane society; K. Progress toward a society in which Ideas count more than money; L. The fight against crime.

A, B, E, G, I and L are said to be materialist priorities whereas C, D, F, H, J and K are said to be postmaterialist priorities. From these items, Inglehart’s 12-item index of postmaterialism is constructed, an additive index ranging from 0 to 5 (1997, p. 130).

***Married***

“Are you currently:”

Response categories: Married; Living together as married; Divorced; Separated; Widowed; Single.

Both ‘Married’ and ‘Living together as married’ are considered ‘married’ in the marital status variable, to include those living together in a de facto relationship.

***Trust***

“Generally speaking, would you say that most people can be trusted or that you need to be very careful in dealing with people?”

Response categories: Most people can be trusted; Need to be very careful.

***Religious***

“Independently of whether you attend religious services or not, would you say you are:”

Response categories: A religious person; Not a religious person; An atheist.

**Table A1: World Values Survey case selection and sample size**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Country | Pre-crisis survey |  N | Post-crisis survey |  N |
| Australia | 2005 | 1,421 | 2012 | 1,477 |
| Chile  | 2006 | 1,000 | 2011 | 1,000 |
| Cyprus  | 2006 | 1,050 | 2011 | 1,000 |
| Germany  | 2006 | 2,064 | 2013 | 2,046 |
| Japan | 2005 | 1,096 | 2010 | 2,443 |
| Netherlands | 2006 | 1,050 | 2012 | 1,902 |
| New Zealand | 2004 | 954 | 2011 | 841 |
| Poland  | 2005 | 1,000 | 2012 | 966 |
| Romania | 2005 | 1,776 | 2012 | 1,503 |
| Slovenia | 2005 | 1,037 | 2011 | 1,069 |
| South Korea | 2005 | 1,200 | 2010 | 1,200 |
| Spain  | 2007 | 1,200 | 2011 | 1,189 |
| Sweden | 2006 | 1,003 | 2011 | 1,206 |
| United States | 2006 | 1,249 | 2011 | 2,232 |
| Total  |   | 17,100 |   | 20,074 |

*Note:* Shaded countries experienced a recession during the global financial crisis of 2008–2009, defined as two or more consecutive quarters of negative growth.

*Source:* WVS technical reports: [www.worldvaluessurvey.org/WVSContents.jsp](http://www.worldvaluessurvey.org/WVSContents.jsp)

**Table A2: World Values Survey variables, coding, and means**

|  |  |  |  |
| --- | --- | --- | --- |
|   |   | **Wave 5 (2004–2007)**  | **Wave 6 (2010–2013)** |
| **Variable** | **Codes** | **Mean** | **SD** | **Mean** | **SD** |
| *Dependent variable* |  |  |  |  |  |
| Civic engagement scale | Scale from 0 (low) to 18 (high) | 2.38 | 1.15 | 2.30 | 1.12 |
|  |  |  |  |  |  |
| *Independent variables (country level)* |  |  |  |  |
| Log of years democracy | From PolityIV-durable (Norris 2015) | 3.89 | 0.77 | 3.89 | 0.77 |
| GDP growth | Average annual %: 2003-2004 / 2008-2009 | 3.40 | 1.65 | −0.25 | 2.08 |
| Historically Protestant | 1 = yes, 0 = no (yes = Australia, Germany, Netherlands, New Zealand, Sweden, United States) | 0.43 | 0.51 | 0.43 | 0.51 |
|  |  |  |  |  |  |
| *Independent variables (individual level)* |  |  |  |  |
| Employment status | 1 = labor force participant, 2 = unemployed, 3 = other (includes retired/housewife/students) | 1.90 | 0.97 | 1.85 | 0.96 |
| Income | Scale from 1 (lowest income category) to 10 (highest income category) | 4.94 | 2.38 | 4.83 | 2.11 |
| University degree | 1 = yes, 0 = no | 0.16 | 0.37 | 0.23 | 0.42 |
| Age range  | 1 = 18-29, 2 = 30-49, 3 = 50 and over  | 2.24  | 0.76  | 2.32  | 0.75  |
| Gender (female) | 1 = female, 0 = male | 0.53  | 0.50  | 0.53  | 0.50  |
| Postmaterialist (12-item) | 0 = materialist, 2-4 = mixed, 5 = postmaterialist | 2.22  | 1.20  | 2.23  | 1.17  |
| Married | 1 = married (including de facto relationships), 0 = not married | 0.65 | 0.48 | 0.65 | 0.48 |
| Trust | 1 = most people can be trusted, 0 = need to be very careful | 0.32 | 0.47 | 0.37 | 0.48 |
| Religious | 1 = religious, 0 = not religious / an atheist | 0.57 | 0.49 | 0.52 | 0.50 |
| N |   | 17,936 |   | 20,576 |   |

**Table A3: Membership trends in different types of voluntary association**

|  |  |  |  |
| --- | --- | --- | --- |
|   | **Old social movement membership** | **New social movement membership** | **Non-political association membership** |
|   | 2004-2007 | 2010-2013 | Change | 2004-2007 | 2010-2013 | Change | 2004-2007 | 2010-2013 | Change |
| Netherlands | 0.58 | 0.40 | −0.18\*\* | 0.46 | 0.31 | −0.15\*\* | 1.25 | 1.16 | −0.09 |
| Chile | 0.54 | 0.40 | −0.15\*\* | 0.44 | 0.29 | −0.15\*\* | 0.77 | 0.72 | −0.05 |
| Cyprus | 0.77 | 0.62 | −0.14\* | 0.27 | 0.30 | 0.02 | 0.58 | 0.51 | −0.07 |
| Sweden | 1.09 | 0.96 | −0.13\*\* | 0.55 | 0.52 | −0.03 | 1.11 | 0.91 | −0.21\*\* |
| Spain | 0.26 | 0.17 | −0.08\*\* | 0.20 | 0.14 | −0.07\*\* | 0.39 | 0.32 | −0.07 |
| Slovenia | 0.57 | 0.48 | −0.08 | 0.35 | 0.32 | −0.02 | 0.74 | 0.74 | 0.00 |
| Japan | 0.39 | 0.32 | −0.07\* | 0.13 | 0.09 | −0.04\* | 0.69 | 0.55 | −0.14\*\* |
| Poland | 0.38 | 0.32 | −0.06 | 0.22 | 0.18 | −0.05 | 0.35 | 0.35 | 0.00 |
| United States | 1.25 | 1.20 | −0.05 | 0.65 | 0.68 | 0.02 | 0.85 | 0.78 | −0.07 |
| South Korea | 0.31 | 0.28 | −0.02 | 0.20 | 0.23 | 0.03 | 0.79 | 0.66 | −0.12\* |
| Germany | 0.35 | 0.38 | 0.03 | 0.21 | 0.28 | 0.06 | 0.84 | 0.87 | 0.03 |
| Australia | 0.77 | 0.82 | 0.06 | 0.61 | 0.67 | 0.06 | 1.21 | 1.31 | 0.09 |
| New Zealand | 0.88 | 0.96 | 0.08 | 0.82 | 0.83 | 0.01 | 1.49 | 1.55 | 0.07 |
| Romania | 0.20 | 0.30 | 0.11\*\* | 0.03 | 0.11 | 0.09\*\* | 0.06 | 0.26 | 0.20\*\* |
| Total | 0.60 | 0.54 | −0.05\*\* | 0.37 | 0.35 | −0.01 | 0.79 | 0.76 | −0.03\* |

*Note*: Old social movement association membership is measured on a scale of 0-6, reflecting membership in either a union, a political party, or a professional association. New social movement association membership is measured on a scale of 0-4, reflecting membership in either an environmental organization or a humanitarian/charitable organization. Non-political association membership is measured on a scale of 0-8, reflecting membership in either a church or religious organization, sport or recreational organization, art, music or educational organization, or an ‘other’ organization. Active memberships count two points towards each scale, and inactive memberships, one point. Shaded countries experienced a recession during the global financial crisis.