

# Notes

## Chapter 1

- 1 UN 2002, 2010.
- 2 Sen 2003: 330.
- 3 Weikard (1999) as cited in Scholtes (2011).
- 4 Scholtes 2011.
- 5 1990 *HDR*: 38 (UNDP–HDRO 1990; see inside back cover for a list of *HDRs*).
- 6 1994 *HDR*: 19 (UNDP–HDRO 1994; see inside back cover for a list of *HDRs*).
- 7 2010 *HDR*: 2; emphasis added (UNDP–HDRO 2010; see inside back cover for a list of *HDRs*).
- 8 WCED 1987: 57–59; emphasis added.
- 9 Solow 1973.
- 10 USEIA 2008.
- 11 Commission on Sustainable Development 1997, paragraph 12.
- 12 Baumol, Litan and Schramm 2007.
- 13 FAO 1996.
- 14 UNDESA 2011a.
- 15 Brown and others 2001.
- 16 On strong sustainability, see Barbier, Markandya and Pearce (1990) and Ross (2009).
- 17 Daly 2005.
- 18 UNEP 2011; OECD 2010a.
- 19 UNDESA 2011a.
- 20 Perrings and Pearce 1994; Barbier, Burgess and Folke 1994.
- 21 See Nordhaus (2004), who estimates a slowdown of 0.86 percent a year.
- 22 Babbage 2010.
- 23 See Weitzman (2009a), Stern and Taylor (2007), IPCC (1997), and Dietz and Neumayer (2007).
- 24 Weitzman 2009b.
- 25 This stands in contrast to the Stern Review’s proposal of a long-term discount rate of 1–2 percent (Stern 2007), itself much lower than commonly used rates of 4–5 percent.
- 26 Solow 1993: 168.
- 27 Economists have defined sustainability in terms of living standards, consumption or utility. Consumption-based definitions are favoured by advocates of weak sustainability, such as Dasgupta and Heal (1974), Hartwick (1977) and Solow (1974). Utility-based definitions, such as that offered by Neumayer (2010a), consider a path to be sustainable if people become progressively more efficient at attaining greater utility.
- 28 Anand and Sen 1994, 2000; Sen 2010.
- 29 The concept originated in the work of Adams (1965), Homans (1961) and Blau (1964).
- 30 Rawls 1971.
- 31 The priority of poverty eradication in the search for sustainable development has been reaffirmed in several UN declarations, including the 1992 Rio Declaration on Environment and Development (UN 1992), the resolution on the Programme for the Further

Implementation of Agenda 21 (UN 1997) and the 2002 Johannesburg Declaration (UN 2002).

- 32 Anand and Sen (2000: 2,038), emphasis in original.
- 33 Of course, some policies can be neutral in impacts, but these are omitted for simplicity.
- 34 See Brown (2003).
- 35 A caveat arises for solutions not in quadrant 1 because major improvements in one dimension cause small deteriorations in the other. Would any solution that improves both dimensions slightly be preferred? It can be argued that a policy that improves both dimensions should be preferred only if it benefits groups that are objectively worse off. In other words, a policy that enhances sustainability but worsens equity should be preferred only if the most disadvantaged future generations that will benefit from the change would have been worse off than the poorest today.

## Chapter 2

- 1 2010 *HDR*: chapter 2 (UNDP–HDRO 2010; see inside back cover for a list of *HDRs*).
- 2 On this issue, see UNECE (2011) for a recent review.
- 3 The ratio of per capita greenhouse gas emissions in very high to those in low, medium and high HDI countries was 3.7 in 1990 and 3.3 in 2005. Underlying the small drop in the ratio, total greenhouse gas emissions have grown much faster in developing countries, partly because of their faster population growth.
- 4 The differences are 4.4 times for carbon dioxide emissions, 1.3 times for methane and 2.1 times for nitrous oxide.
- 5 The strong correlations between both the levels and changes in environmental impacts and the HDI also suggest that the link between these two phenomena has not changed much over time. This contrasts, for example, with life expectancy and income, where levels but not changes are correlated, indicating changes over time in the underlying processes. See 2010 *HDR* (UNDP–HDRO 2010; see inside back cover for a list of *HDRs*) and Georgiadis, Pineda and Rodríguez (2010).
- 6 Grossman and Krueger 1995.
- 7 Hughes, Kuhn and others 2011.
- 8 Grossman and Krueger (1995) suggested a peak, in most cases, before a country reached a per capita income of \$8,000 (in 1985 dollars). Other studies have identified different thresholds.
- 9 See statistical table 6. Gross national income (GNI) per capita data are from the World Bank (<http://data.worldbank.org/indicator/NY.GNP.PCAP.PP.CD>).
- 10 See statistical table 6.
- 11 An exogenous variable is independent of the state of other variables in a causal model—that is, its value

is determined by factors outside the causal system examined (Wooldridge 2003).

- 12 Doubling net forest depletion as a percentage of GNI increases overall inequality 2 percent (or 0.42 percentage point), while doubling particulate emission damage as a percentage of GNI increases overall inequality by a massive 26 percent (or 5.6 percentage points).
- 13 The number of years since women received the formal right to vote and the contraceptive prevalence rate are instruments for the Gender Inequality Index (GII). In particular, a 10 percent increase in gender inequality (measured by the GII) leads to a 1.13 point (or 150 percent) increase in net forest depletion as a percentage of GNI. For details on the method and results, see Fuchs and Kehayova (2011).
- 14 The IHDI is a measure of the average level of human development in a society once inequality is taken into account. It captures the HDI of the average person in society, which is less than the aggregate HDI when there is inequality in the distribution of health, education and income. Under perfect equality, the HDI and IHDI are equal; the greater the difference between the two, the greater the inequality. See Alkire and Foster (2010).
- 15 As we reviewed in last year’s report, global inequality across people is an important measure, but most studies are limited to income. Almost all agree that inequality is high, though there is no consensus on recent trends (Anand and Segal 2008). Sala-i-Martin (2006), providing estimates for 1970–2000 by integrating the income distributions of 138 countries, found that mean per capita incomes had risen, but inequality had not. Other studies—such as Milanovic (2009)—concluded the opposite. Still others—such as Bourguignon and Morrisson (2002)—found no change.
- 16 Pradhan, Sahn and Younger 2003.
- 17 O’Donnell and others 2008.
- 18 This is consistent with earlier studies (for example, Neumayer 2003 and Becker, Philipson and Soares 2003). Becker, Philipson and Soares monetize life expectancy and create a measure of “full” income—which rose 140 percent in developed countries from 1965 to 1995 and 192 percent in developing countries.
- 19 2010 *HDR*: 32 (UNDP–HDRO 2010; see inside back cover for a list of *HDRs*). Other studies have highlighted similar points; see, for example, McGillivray (2011).
- 20 According to the 2010 *HDR* (UNDP–HDRO 2010; see inside back cover for a list of *HDRs*), primary completion rates have risen from 84 percent in 1991 to 94 percent today. Expected years of schooling have also risen—from 9 years in 1980 to 11 years today.
- 21 Hertz and others 2007.
- 22 For example, in a study over 1960–1995, Checchi (2001) found that inequality in years of schooling

- remained almost constant at low levels in Organisation for Economic Co-operation and Development countries, despite increases in average education attainment.
- 23** Atkinson, Piketty and Saez 2011.
- 24** HDRO calculations based on data from Milanovic (2011). We include a group of 29 developed countries for which we have income inequality observations for 1990, 1995, 2000 and 2005.
- 25** OECD 2011a.
- 26** OECD 2010a.
- 27** HDRO calculations based on data from Milanovic (2011) and Lopez-Calva and Lustig (2010: 10).
- 28** Lopez-Calva and Lustig 2010.
- 29** OECD 2010a.
- 30** Hughes, Irfan and others 2011.
- 31** Not only does the logarithmic term on income contribute mechanically to such slowing, so does the inevitable slowing of rising years of formal education, of advances in life expectancy in better off countries, and of convergence of low- and middle-income countries as their health and education gaps with rich countries narrow.
- 32** Environmental risks are modeled with the Environmental Risks Scenario, developed by Hughes, Irfan and others (2011). Inequality and insecurity factors are modeled with the Security First Scenario, developed by the United Nations Environment Programme (UNEP 2007). This involves socioeconomic and environmental stresses, economic and personal insecurity, significant domestic and global inequality, high levels of protectionism, barriers to migration, and more militarism and conflict.
- 33** Global warming potential measures the relative radioactive effect of a given substance. For the latest estimates, see IPCC (2007: chapter 2).
- 34** Of the scientists publishing most actively in the field, 98 percent support the idea that climate change is caused by human activity (Anderegg and others 2010). While some studies have pointed to mistakes in the Intergovernmental Panel on Climate Change reports (Khilyuk and Chilingar 2006; Church and others 2008), none has seriously questioned its key conclusions. Raupach and others 2007.
- 35** Aichele and Felbermayr 2010; Grether and Mathys 2009.
- 36** Carbon dioxide can remain in the atmosphere for thousands of years, unlike methane, which lasts about 12 years, and nitrous oxide, which lasts about 114 years. See Archer and Broikin (2008) and IPCC (2007).
- 37** See the Climate Analysis Indicators Tool of the World Resources Institute (<http://cait.wri.org>).
- 38** Areas above the 45th parallel north and below the 45th parallel south experienced a 2.66°C increase in average temperature for November–April during the 2000s over that during 1951–1980; areas between the coordinates saw a 0.66°C increase.
- 39** Cooper 2008.
- 40** Very high HDI countries had a more than 2 percent decline in precipitation.
- 41** For example, estimates show that rainfall is very likely (90 percent probability) to increase in high latitude areas and likely (66 percent probability) to fall in most subtropical regions and to increase in variability in equatorial areas (IPCC 2007; Dore 2005).
- 42** Christensen and others 2007.
- 43** The Intergovernmental Panel on Climate Change (IPCC 2007) projects increases of 0.18–0.59 metre under six scenarios, while other studies suggest that the increase could be as much as 2 metres. Ice thinning is expected to ultimately break up ice shelves, which is likely to accelerate sea level rise (Gregory and Huybrechts 2006; Jevrejeva and others 2006; Thomas and others 2004).
- 44** Anthoff 2010.
- 45** Wheeler 2011.
- 46** Vankoningsveld and others 2008.
- 47** Dasgupta and others 2009.
- 48** These figures refer to climatological, hydrological and meteorological natural disasters, as estimated from the Centre for Research on the Epidemiology of Disasters Emergency Events Database: International Disaster Database. An event is classified as a disaster if it meets at least one of the following criteria: 10 or more people died, 100 or more people were affected, a state of emergency was declared or international assistance was requested. But data may not be fully consistent across countries. Population growth increases the number of people affected and thus the number of the events classified as disasters. See also Neumayer and Barthel (2011) on the effects of awareness and reporting bias.
- 49** IPCC 2007. Changes in atmospheric moisture affect moisture absorption capacity, leading to a greater probability of intense precipitation and associated natural disasters.
- 50** Knutson and others 2010.
- 51** The numbers could also reflect people's greater exposure to natural hazards (for example, settlement in previously uninhabited areas) and increased vulnerability.
- 52** Wood, Sebastian and Scherr 2000.
- 53** Two UN bodies—the Food and Agriculture Organization and the Secretariat of the United Nations Convention to Combat Desertification—produce estimates, but their approach has been criticized in academic circles; see Veron, Paruelo and Oesterheld (2006).
- 54** Hanasaki and others (2008); UNEP (2009).
- 55** World Water Assessment Programme 2009.
- 56** Ball 2001.
- 57** These shares are the total land area–weighted average for each HDI group.
- 58** Estimates differ by method and data coverage: assessments based on satellite images in 2002 indicate 23 percent lower deforestation rates than those reported in FAO (2001). Source data from official or informal institutions are often inaccurate and incomplete, and detailed information is lacking on forest composition, maturity, disturbance, canopy cover and quality. See Grainger (2010). Some countries, such as Brazil, have made major achievements in reducing deforestation ([www.undp.org/latinamerica/biodiversity-superpower/](http://www.undp.org/latinamerica/biodiversity-superpower/)).
- 59** See Meyfroidt, Rudel and Lambin (2010). Bhutan and El Salvador have reportedly used more land abroad than they have reforested within their boundaries.
- 60** Gan and McCarl 2007.
- 61** Mayer and others 2005, 2006.
- 62** Würtenberger, Koellner and Binder 2005.
- 63** In 2007 annual average per capita consumption was 28.7 kilograms in developed countries and 9.5 kilograms in least developed countries (FAO 2010a).
- 64** Data on current catch are from FAO Fisheries and Aquaculture Information and Statistics Service 2009; sustainable yield is from FAO (2005).
- 65** FAO 2010a.
- 66** FAO 2010a.
- 67** For instance, Peru's introduction of individual fishing rights over its anchovy fishery, the *anchoveta*, is cited as key to improving the sustainability of its fishing stock (Fréon and others 2008; Schreiber forthcoming).
- 68** Grossman and Krueger 1995.
- 69** McGranahan and others 2001.
- 70** OECD 2010b.
- 71** Bettencourt and others 2007.
- 72** Dodman 2009.
- 73** Lehrer 2010.
- 74** See [www.unesco.org/water/wwap/facts\\_figures/basic\\_needs.shtml](http://www.unesco.org/water/wwap/facts_figures/basic_needs.shtml).
- 75** Tachamo and others 2009; Pepper 2007.
- 76** Urban pollution is defined as suspended particulates less than 10 microns in diameter (PM10), expressed in micrograms per cubic metre (World Bank 2011a).
- 77** Calculations are based on urban population-weighted averages.
- 78** See UNDESA (2006).
- 79** The thresholds for greenhouse gases are total accumulated emissions over the next 50 years likely to keep temperature change within 2°C (1,678 gigatonnes), no deforestation and global fresh water withdrawals of 5,000 cubic kilometres a year, which we expressed in per capita terms for our analysis. There is considerable uncertainty and estimated variance around these thresholds in the scientific community. For more information on global environmental thresholds, see, for example Rockström and others (2009) and Meinshausen and others (2009). Greenhouse gas emissions combine 2005–2007 averages for carbon dioxide and 2005 data, the latest available, for methane, nitrous oxide and other greenhouse gases. Forest data from 2000 and 2010 are used to calculate deforestation. Total water withdrawals are based on averages from the 2000s, and data on improved water access are for 2008. Data on air pollution are averages over 2006–2008. Thresholds for the local impacts are regional medians. See statistical table 6 for data sources.
- 80** The earliest observation from the 1990s and latest from the 2000s were used to calculate changes over time.
- 81** However, Costa Rica is among the few countries in Latin America that has experienced an increase in income inequality during the last decade despite the growth boom that preceded the global economic crisis of 2008. Inequality in health and education fell over the same period.
- 82** UNEP 2010.

## Chapter 3

- 1** Ash and others 2010; Brulle and Pellow 2006; Pastor 2007; Sze and London 2008; United Church of Christ 1987.
- 2** When the plant exploded in 1957, nearby ethnic Russians were evacuated and resettled, but the Tatar people were left to suffer the effects of contamination (Agyeman, Ogneva-Himmelberger and Campbell 2009).

- 3 The shares of the population with access to an improved water source and improved sanitation are Millennium Development Goal indicators relating to environmental sustainability (goal 7). A household is considered deprived if it relies on dung, wood or charcoal for cooking; if it lacks access to clean drinking water (or if the water is more than 30 minutes away); and if it lacks improved sanitation (or shares it with other households). See Alkire and Santos (2010).
- 4 Since last year's *HDR*, these estimates were updated for 19 countries and presented for the first time for an additional 5. Countries with MPI data include 11 in the Arab States, 9 in East Asia and the Pacific, 23 in Europe and Central Asia, 18 in Latin America and the Caribbean, 5 in South Asia and 37 in Sub-Saharan Africa. There are 103 countries that have complete data on environmental deprivations—the descriptive analysis focuses on these countries. Data for the Arab States are not given because low poverty levels render the results potentially unreliable.
- 5 These aggregates are for the 2000s; the survey dates span 2000–2010. Population data correspond to each country's survey year here and in the following analysis.
- 6 The MPI reflects deprivations across three dimensions, each weighted equally, and 10 indicators. For more details, see *Technical note 4*.
- 7 However, low poverty may conceal poverty that exists subnationally. In Ghana, for instance, poverty is 10 times higher in Greater Accra than in Northern Ghana, and other countries also exhibit sharp area-based differences. And in Europe and Central Asia, groups such as Roma are likely to be much more deprived than national poverty measures would suggest.
- 8 UNICEF Madagascar Water Sanitation and Hygiene 2007.
- 9 The exercise was also carried out with controls for HDI group and regional fixed effects, but they were not jointly significant and thus were dropped. The total sample consisted of 73 country-year observations. Fifty-two country-year observations were not included in the exercise: those whose poverty was based on lower or upper bounds (see Alkire and Santos 2010), those missing an environmental indicator and those whose MPI value was less than 0.032 because the small number of poor people in these countries (less than 8.5 percent) makes the results potentially unreliable. The 30 countries missing nonenvironmental indicators were retained, but the analysis controlled for their absence.
- 10 De Oliveira 2008.
- 11 Hall and Lobina 2008.
- 12 Da Costa, Cohen and Schaeffer 2007; De Oliveira and Laan 2010.
- 13 UN Habitat 2003
- 14 Milton and others 2010; UNICEF 2010; Argos and others 2010.
- 15 UNDP Water Governance Programme 2010.
- 16 UNDP Water Governance Programme 2010.
- 17 IMF 2004; statistical table 5; see also Djibouti on the Austro-Arab Chamber of Commerce's Arab Countries Profile ([www.aacc.at](http://www.aacc.at)).
- 18 See IDA at work: Nepal (<http://go.worldbank.org/TXVG8LJ8LO>).
- 19 Peru Ministry of Housing, Construction and Sanitation 2006.
- 20 IADB 2008.
- 21 Meier and others 2010.
- 22 World Water Assessment Programme 2006.
- 23 The Spearman correlation is .6 for temperature anomalies (1951–1980, compared with 2000–2008). When we consider only those statistically significant changes, which could be interpreted as suggestive of climate change, the result is nearly unchanged.
- 24 A weak negative correlation disappears altogether when we exclude Indonesia from the sample and when we consider only statistically significant changes over time for the full sample.
- 25 For a recent review, see Skoufias, Rabassa and Olivieri (2011).
- 26 Environmental risk factors include indoor smoke from solid fuel use; outdoor air pollution; inadequate water, sanitation and hygiene; solar ultraviolet radiation; climate change; lead; mercury; occupational carcinogens; occupational airborne particulates; and second-hand smoke (Prüss-Üstün and others 2008).
- 27 World Bank 2008a.
- 28 Prüss-Üstün and others 2008.
- 29 Prüss-Üstün and others 2008. Estimates are based on 2004 WHO country health statistics. The use of solid fuels is a reliable indicator of exposure to indoor air pollution, but over time, as improved stoves and decent ventilation come into widespread use, the two will not be as closely correlated.
- 30 Between 1990 and 2005 the percentage of urban households with access to gas increased from 19 percent to 82 percent (Vennemo and others 2009).
- 31 Data based on 2004 WHO burden of disease data.
- 32 Smith, Mehta and Maeusezahl-Feuz 2004.
- 33 Shandra, Shandra and London 2008.
- 34 Correlation = .82,  $p < .05$ .
- 35 Fieldwork by the Oxford Poverty and Human Development Initiative ([www.ophi.org.uk/policy/multidimensional-poverty-index/mpicase-studies/](http://www.ophi.org.uk/policy/multidimensional-poverty-index/mpicase-studies/)).
- 36 Fieldwork by Indrajit Roy ([www.ophi.org.uk/policy/multidimensional-poverty-index/mpicase-studies/](http://www.ophi.org.uk/policy/multidimensional-poverty-index/mpicase-studies/)).
- 37 Kjellstrom and others 2006.
- 38 Riojas-Rodríguez and others 2006.
- 39 Blacksmith Institute 2007.
- 40 On Hong Kong Special Administrative Region, China, see Wong and others (2008, 2010); on Shanghai, see Kan and others (2008), as cited in HEI (2010).
- 41 Friends of the Earth 2004.
- 42 Mitchell and Dorling 2003; Brainard and others 2002.
- 43 Kruije and Bouwman 2004.
- 44 Kockler 2005.
- 45 Viel and others 2010; Laurian 2008.
- 46 UN Water 2010a. Data are from Prüss-Üstün and others (2008).
- 47 Prüss-Üstün and Corvalán 2006.
- 48 UN Water 2010a. Data are from Prüss-Üstün and others (2008).
- 49 Prüss-Üstün and Corvalán 2006.
- 50 Prüss-Üstün and others 2008.
- 51 World Bank 2008b.
- 52 UN Water 2010a.
- 53 For example, sexual violence can result when women have to relieve themselves in the open after nightfall (UN Water 2006).
- 54 Costello and others 2009.
- 55 Lindsay and Martens 1998.
- 56 Hales and others 2002.
- 57 Checkley and others 2000, 2004; Speelman and others 2000; Lama and others 2004.
- 58 Nelson and others 2009.
- 59 Green, King and Morrison 2009; Galloway McLean 2010. King, Smith and Gracey (2009) review the literature.
- 60 2010 *HDR*; statistical table 13 (UNDP–HDRO 2010; see inside back cover for a list of *HDRs*).
- 61 Independent Evaluation Group 2008.
- 62 Daka and Ballet 2011.
- 63 Khandker and others 2009a.
- 64 Khandker and others 2009b.
- 65 Flora and Findis 2007.
- 66 Nankhuni and Findeis 2004.
- 67 Senbet 2010.
- 68 Ndiritu and Nyangena 2010.
- 69 Walker 2010.
- 70 FAO (2010b) data. “Economically active population” refers to the number of people constituting the labour supply and refers to all employed and unemployed people (including those seeking work for the first time).
- 71 World Resources Institute 2005. Aside from small-scale agriculture, the collection of wild foods, materials and medicines are the main sources of environmental income.
- 72 Pattanayak and Sills 2001.
- 73 Vincent 2011; UNFPA 2009.
- 74 IWGIA 2008.
- 75 Sobrevila 2008.
- 76 Sobrevila 2008.
- 77 World Bank 2008c.
- 78 Galloway McLean 2010.
- 79 Hertel and Rosch 2010. For a review, see Nellemann and others (2009).
- 80 Nellemann and others 2009.
- 81 Millennium Ecosystem Assessment 2005.
- 82 Fraser and others 2010.
- 83 Yonghuan and others 2007.
- 84 2007/2008 *HDR* (UNDP–HDRO 2008; see inside back cover for a list of *HDRs*).
- 85 World Bank 2009.
- 86 Lobell, Schlenker and Costa-Roberts 2011.
- 87 Lobell and others 2008.
- 88 Nelson and others 2010.
- 89 Thornton and others 2009.
- 90 The Food and Agriculture Organization estimates that if gender access to productive resources were equal, yields would increase 20–30 percent and agricultural output would rise 2.5–4 percent on average (FAO 2010b: 5).
- 91 Nellemann and others 2009.
- 92 FAO 2010b.
- 93 Ulimwengu and Ramadan 2009.
- 94 Hertel, Burke and Lobell 2010.
- 95 Ivanic and Martin 2008.
- 96 Cranfield, Preckel and Hertel 2007.
- 97 Jacoby, Rabassa and Skoufias forthcoming.
- 98 See [www.fao.org/forestry/28811/en/](http://www.fao.org/forestry/28811/en/).
- 99 FAO 2011.
- 100 Agarwal 2010b: 37; FAO 2010b: 16.
- 101 Mayers 2007.
- 102 Vedeld and others 2004: meta-study examining 54 case studies (33 in Africa).
- 103 Mitra and Mishra 2011.
- 104 Yemiru and others 2010.
- 105 Based on surveys covering 2002–2008 (Volker and Waible 2010). Similar findings are reached by Pattanayak and Sills (2001) for Brazil and McSweeney (2004) and Takasaki, Barham and Coomes (2004) for Honduras.

- 106** Agarwal 2010b.
- 107** Arnold, Kohlin and Persson 2006.
- 108** FAO 2010a.
- 109** Allison and others 2009.
- 110** Allison and others 2005. See also Allison and others (2009).
- 111** Secretariat of the Pacific Community 2011.
- 112** AUSAid and UNDP Pacific Centre 2008.
- 113** Cinner, Daw and McClanahan (2009), a small scale study of 434 households, from 9 coastal villages, from which there were 141 fishers.
- 114** Secretariat of the Pacific Community 2011.
- 115** Cheung and others 2009.
- 116** Iftikhar 2003. Affii and Warner 2008; Boano, Zetter and Morris 2008.
- 117** See, for instance, Miguel, Satyanath and Sergenti (2004), Hendrix and Glaser (2005), Boano, Zetter and Morris (2008) and Burke and others (2010).
- 118** Calculated on the basis of Demographic and Health Survey and Multiple Indicator Cluster Survey data, most recent year available since 2000.
- 119** These surveys are available for only a small number of countries because they are expensive and difficult to conduct. The questionnaires differ, so the resulting data are illustrative rather than strictly comparable.
- 120** Agarwal 2010b: 36, table 2.1.
- 121** Koolwal and Van de Walle 2010.
- 122** Kramarae and Spender 2000.
- 123** Illahi and Grimard 2000.
- 124** Wodon and Ying 2010.
- 125** Blackden and Wodon 2006.
- 126** To estimate the economic benefits of improvements in water supply, Hutton, Haller and Bartram (2006) assume that expanding access to water supply would save 30 minutes for each household per day.
- 127** See [www.sidym2006.com/eng/eng\\_doc\\_interes.asp](http://www.sidym2006.com/eng/eng_doc_interes.asp).
- 128** Boano and others 2008.
- 129** UNHCR 2002: 12.
- 130** Marchiori and others 2011.
- 131** 2009 *HDR*: chapter 4 (UNDP–HDRO 2009; see inside back cover for a list of *HDRs*).
- 132** UNEP 2009.
- 133** Miguel and others 2004; Hendrix and Glaser 2005; Raleigh and Urdal 2008; Fiola 2009; Burke and others 2010.
- 134** Evans 2010.
- 135** Homer-Dixon 1994.
- 136** Collier 2006.
- 137** Evans 2008; Collier 2007.
- 138** Boano and others 2008: 22.
- 139** Bartlett 2008.
- 140** Wheeler 2011
- 141** Boano and others 2008.
- 142** UN HABITAT Global Urban Indicators database ([www.unhabitat.org/stats/](http://www.unhabitat.org/stats/)). Slum households are defined as lacking in any of the following elements: access to improved water, access to improved sanitation, secure tenure, durable housing or sufficient living area.
- 143** Asia Summit on Climate Change and Indigenous Peoples 2009; see also the Asia Summit on Climate Change and Indigenous People ([www.tebtebba.org/index.php?option=com\\_content&view=article&id=47&Itemid=58](http://www.tebtebba.org/index.php?option=com_content&view=article&id=47&Itemid=58)).
- 144** Rodriguez-Oreggia and others 2010.
- 145** Brouwer, Akter and Brander 2007.
- 146** Nishikiori and others 2006. Oxfam International's 2005 report on the 2004 Asian tsunami's impact on women finds a similar pattern for floods.
- 147** Rose 1999.
- 148** Neumayer and Plumper 2007.
- 149** Neumayer and Plumper 2007.
- 150** Blankespoor and others 2010.
- 151** The probability of dying as a result of Hurricane Katrina was higher for people who were black and poor (Price 2008; 2007/2008 *HDR*: 81, box 2.3 [UNDP–HDRO 2008; see inside back cover for a list of *HDRs*]).
- 152** Baez, de la Fuente and Santos 2010.
- 153** Seballos and others 2011.
- 154** Alderman, Hoddinott and Kinsey (2006). Jensen (2000) found similar results in Côte d'Ivoire.
- 155** Baez and Santos (2007).
- 156** Alkire and Roche forthcoming.
- 157** Christiaensen, Do and Trung 2010.
- 158** UN 2010.
- 159** See the Mobile Alliance for Maternal Action ([www.mobilemamaalliance.org/issue.html](http://www.mobilemamaalliance.org/issue.html)).
- 160** Engelman 2011.
- 161** Engelman 2009: 5.
- 162** UNDESA 2011b.
- 163** We note, however, that even after the large decline in fertility during the 1970s and 1980s, population-related problems in Bangladesh remain serious, and a sense of complacency has led to less rigorous policy implementation and programme performance in recent years (Khan and Khan 2010).
- 164** Potts and Marsh 2010: p. 5.
- 165** United States National Academy of Sciences 1992: 26.
- 166** O'Neill and others 2010.
- 167** Wire 2009.
- 168** Of 6.2 births per woman for Chad, 4.4 for the Democratic Republic of Congo and 7.1 for Niger; see statistical table 4.
- 169** Mills, Bos and Suzuki 2010.
- 170** Filmer and Pritchett (2002) find a partial correlation between indicators of fuelwood scarcity and fertility in Pakistan, and Biddlecom, Axinn and Barber (2005) link poorer environmental quality and a greater reliance on public natural resources with higher fertility in Western Chitwan Valley, Nepal. National data for Nepal, however, indicate that environmental scarcity is associated with less demand for children (Loughran and Pritchett 1997).
- 171** Based on the most recent Demographic and Health Survey data ([www.measuredhs.com/accesssurveys/](http://www.measuredhs.com/accesssurveys/)).
- 172** Engelman 2009.
- 173** Nugent and Shandra 2009. However, why this result came about was not clear.
- 174** Norgaard and York 2005.
- 175** See [www.ipu.org/wmn-e/world.htm](http://www.ipu.org/wmn-e/world.htm) (accessed 14 July 2011). See statistical table 4 for country and regional data.
- 176** UNDESA 2010b.
- 177** Shandra, Shandra and London 2008.
- 178** Gallup World Poll data ([www.gallup.com/se/126848/worldview.aspx](http://www.gallup.com/se/126848/worldview.aspx)) for the most recent year available since 2007.
- 179** Differences between men and women are significant for perceived severity of climate change and government environmental efforts (at the 95 percent level) and for air quality and emissions policy (99 percent level) but not for satisfaction with water quality.
- 180** Arora-Jonsson 2011.
- 181** Agarwal 2009.
- 182** Walton 2010: 36.
- 183** Gallagher and Thacker 2008; Bernauer and Koubi 2009.
- 184** Boyce and others 1999.
- 185** Torras and Boyce 1998.
- 186** Torras 2006. Power is assessed using the Gini index, political rights and civil liberties, literacy rate, higher education, population density, Internet user density and female representation in government.
- 187** The principal components method was used to create an index of power equality using data on income inequality, adult literacy, Internet access, political rights and civil liberties, and political stability. The results are similar to those of Boyce and Torras (2002).
- 188** All these studies tend to test a variety of outcomes and to use a variety of datasets and specifications.
- 189** Gallagher and Thacker 2008; see also Torras and Boyce 1998.
- 190** Li and Reuveny 2006.
- 191** Neumayer 2002. Battig and Bernauer (2009) found similar results for 1990–2004 in 185 countries: democracy had a positive effect on political commitment to climate change mitigation, but the effects on policy outcomes—emissions levels and trends—were ambiguous.
- 192** Bernauer and Koubi 2009.
- 193** The term “countervailing power” was coined by Galbraith (1952).
- 194** Crotty and Rodgers forthcoming.
- 195** Fredriksson and others 2005.
- 196** Specifically, the results suggest that a 10 percent increase in the strength of NGOs (measured by number of environmental NGOs per capita) lowers sulphur dioxide levels 5.1–9.3 percent, smoke 5.7 percent and heavy particulates 0.8–1.5 percent. Additional estimates suggest an even greater impact after controlling for potential endogeneity and measurement error (Binder and Neumayer 2005).
- 197** Pellow 2004.

## Chapter 4

- 1** Barrett 2009.
- 2** Ervin and others 2010.
- 3** UNDESA 2009; OECD 2010c; IEA 2010; UN Rio Preparatory Committee Meeting 2011 publications ([www.uncsd2012.org/rio20/index.php?page=view&type=13&nr=28&menu=24](http://www.uncsd2012.org/rio20/index.php?page=view&type=13&nr=28&menu=24)).
- 4** REN21 2010: 47.
- 5** Newell, Phillips and Mulvaney 2011.
- 6** UN 2011.
- 7** Bernard 2010: 1–2.
- 8** Dinkelman 2008.
- 9** Khandker and others 2009b.
- 10** [www.ophi.org.uk/policy/multidimensional-poverty-index/mpi-case-studies/](http://www.ophi.org.uk/policy/multidimensional-poverty-index/mpi-case-studies/).
- 11** Zacune 2011.
- 12** This is compared with the New Policies Scenario, which takes into account countries' broad policy commitments and plans, even where not yet implemented. Under this scenario, through 2035, carbon dioxide emissions rise over 21 percent relative to 2008. Fossil fuels—mainly coal and natural gas—remain dominant in this scenario, but their share of total generation drops from 68 percent to 55 percent,

- as nuclear and renewable sources expand and the amount of carbon dioxide emitted per unit of electricity generated falls by a third (see IEA and others 2010).
- 13** Renewable Energy Policy Network for the 21st Century 2011.
- 14** Under the New Policies Scenario world primary energy demand increases some 36 percent between 2008 and 2035, or 1.2 percent a year. More than 80 percent of electricity demand is from non—Organisation for Economic Co-operation and Development (OECD) countries (IEA and others 2010: 4 and 8).
- 15** OECD 2010c.
- 16** On Kenya, Okello (2005); on Guatemala, Bruce and others (2004).
- 17** AGECC 2010.
- 18** Renewable Energy Policy Network for the 21st Century 2010.
- 19** Eberhard and others 2008.
- 20** Around 80 percent of renewable power generated in 2010 came from hydropower, which also accounted for around a third of new renewable capacity added between 2010 and 2011. Renewable Energy Policy Network for the 21st Century 2010.
- 21** Geothermal power grew at an annual rate of 4 percent, ethanol production 23 percent, wind power 27 percent and solar photovoltaic 60 percent (Renewable Energy Policy Network for the 21st Century 2011: figure 2).
- 22** Transparency International 2011.
- 23** The Pew Charitable Trusts 2010.
- 24** Glemarec 2011.
- 25** Kammen, Kapadia and Fripp 2004.
- 26** Renewable Energy Policy Network for the 21st Century 2010: 9.
- 27** IEA, UNDP and UNIDO 2010.
- 28** Burniaux and Chateau 2011.
- 29** Badiani and Jessoe 2011.
- 30** World Bank 2009.
- 31** On Indonesia, Kojima and Bacon (2006); on Iran, Global Subsidies Initiative (2011).
- 32** Norton Rose Group 2011.
- 33** United States Environmental Protection Agency 2011. Emissions fell about 6 percent in 2008–2009, due mainly to the economic recession, which led to fuel switching as the price of coal rose and the price of natural gas fell.
- 34** India Prime Minister's Council on Climate Change 2008; Stern and Taylor 2010.
- 35** ec.europa.eu/clima/policies/package/index\_en.htm.
- 36** IEA, UNDP and UNIDO 2010.
- 37** See [www.righttowater.info/progress-so-far/](http://www.righttowater.info/progress-so-far/). Such legislation exists also in Kazakhstan and in four Western European countries.
- 38** Leonhardt 2011.
- 39** Klopfenstein and others 2011.
- 40** Sarkar and others 2010.
- 41** See [www.undp.org/water/community-water-initiative.shtml](http://www.undp.org/water/community-water-initiative.shtml).
- 42** Fishman 2011.
- 43** World Bank 2007.
- 44** Duflo and Pande 2007.
- 45** Dudley and Stolton 2003.
- 46** Mulongoy and Gidda 2008.
- 47** [www.unicef.org/wash/](http://www.unicef.org/wash/).
- 48** Inter-American Development Bank 2010.
- 49** Nepal Water for Health 2004.
- 50** Baker and others 2011.
- 51** Roseinweig 2008.
- 52** World Bank 2011a.
- 53** See Perez and others (2011); [www.stanford.edu/group/jennadavis/index.html](http://www.stanford.edu/group/jennadavis/index.html); Lwin Oo 2010; Wilkinson, Moilwa and Taylor 2004.
- 54** UNDESA 2010b.
- 55** Engelman 2011.
- 56** Potts and Marsh 2010.
- 57** [www.unfpa.org/stronger\\_voices](http://www.unfpa.org/stronger_voices).
- 58** [www.ehproject.org/phe/adra-nepalfinal.html](http://www.ehproject.org/phe/adra-nepalfinal.html).
- 59** [www.ehproject.org/phe/phe.html](http://www.ehproject.org/phe/phe.html).
- 60** Grandia 2005; Guatemala Instituto Nacional de Estadística 1999, 2009.
- 61** Mansour, Mansour and Swesy 2010.
- 62** Bangladesh Ministry of Health and Family Welfare 2004; UNDESA 2009.
- 63** Kenya National Coordinating Agency for Population and Development 2008.
- 64** [www.pathfind.org/site/PageServer?pagename=Programs\\_Vietnam\\_Projects\\_HIV\\_RH\\_Integration](http://www.pathfind.org/site/PageServer?pagename=Programs_Vietnam_Projects_HIV_RH_Integration).
- 65** Roudi 2009.
- 66** UNFPA 2010.
- 67** Lopez Carr and Grandia 2011.
- 68** ITU 2011.
- 69** The GSMA Development Fund, the Cherie Blaire Foundation for Women and Vital Wave Consulting 2010.
- 70** [www.mobilemamaalliance.org/opportunity.html](http://www.mobilemamaalliance.org/opportunity.html).
- 71** For example, Costa Rica went from a deforestation rate of 0.8 percent a year between 1990 and 2000 to a reforestation rate of 0.9 percent in the subsequent decade, and India increased its reforestation rate from 0.2 percent a year between 1990 and 2000 to 0.5 percent a year between 2000 and 2010 (FAO 2011).
- 72** Nagendra 2011.
- 73** Ostrom 1992.
- 74** Agarwal 2001; Gupte 2004.
- 75** Agarwal 2010a.
- 76** Molnar and others 2004.
- 77** Corrigan and Granziera 2010.
- 78** UNDP, UNEP, World Bank and WRI 2005.
- 79** <http://us.macmillan.com/horizontalinequalitiesandconflict>.
- 80** Leisher and others 2010.
- 81** Leisher and others 2010.
- 82** UNDP and GEF 2010.
- 83** Baud and others 2011; Martin 2011.
- 84** Ervin and others 2010.
- 85** Ervin and others 2010.
- 86** Roper, Utz and Harvey 2006.
- 87** Gupta and Leung 2011.
- 88** Government of India and UNDP Disaster Risk Management Programme 2008.
- 89** Chung and others 2002.
- 90** Duval-Diop and Rose 2008.
- 91** See Grosh and others (2008) and Tucker (2010).
- 92** UKaid—DFID 2011.
- 93** Fuchs 2011.
- 94** See Arnall and others (2010).
- 95** Lieuw-Kie-Song 2009.
- 96** South Africa Department of Environmental Affairs and UNEP 2011.
- 97** UNDP 2011c.
- 2** IPCC 2007.
- 3** Chang and Grabel 2004; Rodrik 2006.
- 4** See Aghion (2009); Rodrik (2005); Lin 2010.
- 5** IPCC 2011.
- 6** UNDP 2011a.
- 7** Grasso 2004.
- 8** Even if the importance of distributional aspects is increasingly recognized; see, for example, OECD (2010a).
- 9** Atkinson and Stiglitz 1980.
- 10** Oxfam International 2007.
- 11** Cadman and others 2010.
- 12** Weitzman 2009a, 2009b; Torras 2011.
- 13** <http://go.worldbank.org/5JP4U774N0>.
- 14** See [www.opensecrets.org/influence/index.php](http://www.opensecrets.org/influence/index.php).
- 15** World Bank 2010c.
- 16** Transparency International 2011.
- 17** Rodrik, Subramanian and Trebbi 2004; Iyigun and Rodrik 2004.
- 18** Speck 2010.
- 19** Willenbockel 2011.
- 20** OECD 2010c.
- 21** Ghana Ministry of Energy and World Bank 2004.
- 22** World Bank 2008b.
- 23** Wang and others 2011.
- 24** Gearty 2010. No such right has been recognized in the Universal Declaration of Human Rights or the International Covenant on Economic, Social and Cultural Rights.
- 25** Earthjustice 2004, 2008. Debate over the recognition of environmental human rights is ongoing within the human rights community. Some argue that recognizing a third generation of rights (one in which the protection of humans is not the central focus) would devalue the concept of human rights and divert attention from the need to implement existing civil, political, economic and social rights fully. Others assert the inherent value of recognizing a right to have the environment protected. See Boyle (2010). Fukuda-Parr 2007; Nussbaum 1998, 2006; Sen 2009; Vizard, Fukuda-Parr and Elson 2011.
- 27** Sen 2009
- 28** Boyce 2011.
- 29** However, the legislation preserves Parliament's discretion to authorize any interference with environmental rights: May (2006).
- 30** See Pedersen (2008).
- 31** See the Swedish Environment Protection Agency ([www.naturvardsverket.se/en/In-English/Start/Enjoying-nature/The-right-of-public-access/](http://www.naturvardsverket.se/en/In-English/Start/Enjoying-nature/The-right-of-public-access/)).
- 32** Every person has the right to a clean and healthy environment, which includes the right to have the environment protected for the benefit of present and future generations through legislative and other measures (Constitution of Kenya 2010, Chapter 5, Part 2). Since 1972 more than half of UN member states have added constitutional guarantees concerning the environment (Earthjustice 2007).
- 33** Article 44 of the 1994 Constitution of the Federal Democratic Republic of Ethiopia says that "government shall endeavor to ensure that all Ethiopians live in a clean and healthy environment" and Article 92 that "the design and implementation of programmes and of development shall not damage or destroy the environment."
- 34** Constitution of the Republic of Cameroon 1996, Article 47(2).

## Chapter 5

- 1** Frankel and Bosetti 2011.

- 35 Constitution of the Republic of Namibia 1990, Article 25(2).
- 36 Bruch, Coker and VanArsdale 2007.
- 37 Costa Rica, El Salvador and Honduras do not recognize environmental rights for indigenous peoples, and the constitutions of Guatemala, Panama, Paraguay and Peru refer to land but not natural resources (Aguilar and others 2010).
- 38 Political Constitution of 1992, Republic of Paraguay, Article 66.
- 39 According to the Constitution of the Co-operative Republic of Guyana Act 1980: "The state shall protect the environment for the benefits of present and future generations" (Article 149J.2); "Everyone has a right to an environment that is not harmful to his or her health or well-being" (Article 149J.1); and "Indigenous Peoples shall have the right to the protection and promulgation of their languages, cultural heritage and way of life" (Article 149G).
- 40 Vidal 2011.
- 41 May 2006. Other countries whose national courts have explicitly recognized the enforceability of such rights include Argentina, Columbia, Costa Rica and Portugal. Jackson and Rosencranz 2003.
- 42 UNDP Bhutan 2008.
- 43 Sen 2006.
- 44 Shelton 2010.
- 45 American Electric Power Co. v. Connecticut, 10-174. For discussion, see *New York Times* (2011).
- 46 Biggar and Middleton 2010.
- 47 Fifty percent or more of people in 61 of 137 countries surveyed do not have confidence in the judicial system and the courts (<https://worldview.gallup.com>).
- 48 See Constitutional Protections of the Right to Information (<http://right2info.org>).
- 49 Pudgephatt 2009.
- 50 Foulon, Lanoie and Laplante 2002.
- 51 Jin, Wang and Wheeler 2010.
- 52 Wang and others 2002; Bennear and Olmstead (2006) also confirmed this in the context of water utility suppliers in Massachusetts (United States) over 1990–2003.
- 53 For example, the 1998 United Nations Economic Commission for Europe Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters (Aarhus Convention) and the Inter-American Strategy for the Promotion of Public Participation in Decision Making for Sustainable Development.
- 54 UNEP 2007, chapter 8.
- 55 See [www.rema.gov.nv](http://www.rema.gov.nv).
- 56 Newell and others 2011.
- 57 Newell and others 2011.
- 58 Lloyd-Smith and Bell 2003.
- 59 Byrne and others 2007.
- 60 Newell 2008.
- 61 Crotty and Rodgers forthcoming.
- 62 UNDP–UNEP Poverty-Environment Initiative 2008.
- 63 Transparency International calculations based on the Conference of Parties documentation, pollution data from 2006 (UN Stats Division 2010) and Climate Risk Index 2010 by Germanwatch (Transparency International 2011).
- 64 Ballesteros and others 2009.
- 65 [www.un-redd.org/Home/tabid/565/Default.aspx](http://www.un-redd.org/Home/tabid/565/Default.aspx).
- 67 In Eastern Cameroon, for example, a United Nations Development Programme (UNDP) initiative gave the Baka people access to video cameras to document how climate change is damaging the forests where they live, and the resulting documentary was used in advocacy work at the 2009 Global Indigenous Summit on Climate Change (UNDP 2010).
- 68 Buckingham 2010.
- 69 Agarwal (2009, 2010b) found that the overall forest condition was significantly higher where executive committees had more than two women than where they had two women or fewer and that the higher the percentage of women on the executive committee, the lower the percentage of degraded forest area. Schreckenberg and Luttrell (2009).
- 70 Buffum, Lawrence and Tempel 2010.
- 71 Glemarec 2011.
- 72 Bloomberg New Energy Finance and UNEP 2010.
- 73 Kim and others 2009.
- 74 Glemarec 2011.
- 75 The global estimated needs exclude payments for ecosystem services. See Glemarec (2011).
- 76 For the Global Environment Facility over 2007–2010 China attracted 12 percent of funds approved, India 10 percent and the Russian Federation 6 percent. But China and India have a per capita allocation of only \$0.10 and \$0.09, far below the median of \$0.43, while the Russian Federation receives \$0.51. See [www.gefonline.org](http://www.gefonline.org).
- 77 See CIF 2011.
- 78 GEF 2009.
- 79 OECD 2011a; [www.oecd.org/document/35/0,3746,en\\_2649\\_34447\\_47515235\\_1\\_1\\_1\\_1,00.html](http://www.oecd.org/document/35/0,3746,en_2649_34447_47515235_1_1_1_1,00.html). Percentage calculated based on UN Millennium Project (2005) table 7.
- 81 There is not even a consensus on a working definition of new and additional finance. The European Commission has requested that all EU member states declare their own working definitions, with the goal of having a common and unified definition by 2013. See Bird, Brown and Schalatek (2011).
- 82 Sanchez 2010.
- 83 World Bank 2010b.
- 84 At the lower end is the United Nations Framework Convention on Climate Change estimate of about \$200 billion in additional financial flows by 2030. The McKinsey & Company (2009) estimate of \$800 billion to stabilize carbon dioxide at 450 parts per million is in the middle of the range. The numbers reported by the Stern Review ranged from \$600 billion to \$1,200 billion a year, depending on the emission targets (see UNDESA 2009). A recent Intergovernmental Panel on Climate Change (2011) report estimated the annual infrastructure and technology investment costs of moving to a low greenhouse gas economy at \$136–\$510 billion a year for the next decade and at \$149–\$718 billion a year for 2021–2030. The higher cost scenario would stabilize atmospheric carbon dioxide concentration at 450 parts per million.
- 85 This is an update of the \$86 billion figure, equivalent to 0.2 percent of Organisation for Economic Co-operation and Development (OECD) GDP, in UNDP–HDRO 2007/08, using the latest information available.
- 86 Parry, Lowe and Hanson 2009.
- 87 Stockholm International Peace Research Institute 2010.
- 88 See IEA (2010); calculations based on UNESCO Institute for Statistics ([www.uis.unesco.org](http://www.uis.unesco.org)) and World Bank 2011b.
- 89 Climate Funds Update 2011 ([www.climatefundsupdate.org/graphs-statistics/pledged-deposited-disbursed](http://www.climatefundsupdate.org/graphs-statistics/pledged-deposited-disbursed)).
- 90 Not all these estimates can be broken out separately into water and sanitation, but those that can range from \$4.5 billion to \$13 billion for water and from \$2.2 billion to \$17 billion for sanitation (Fonesca and Cardone 2005).
- 91 On innovative financing, see OECD (2010c).
- 92 See UN Water 2010a.
- 93 ILO 2010.
- 94 Although worldwide nearly 40 percent of the working-age population is legally covered by contributory old-age pension schemes, only 26 percent have effective coverage. And while 75 percent of people over age 64 receive some kind of pension in high-income countries, less than 20 percent do in low-income countries, with a median of just over 7 percent (see ILO 2010).
- 95 OECD 2010b.
- 96 The ILO (2008) estimates the cost would not exceed 0.5 percent of GDP in Bangladesh, Cameroon, Guinea, India, Pakistan, Senegal and Viet Nam, for example; while for Burkina Faso, Ethiopia, Kenya, Nepal and Tanzania the costs are 0.7–0.8 percent of GDP.
- 97 See Cichon and Hagemeyer (2006).
- 98 "Adaptive social protection" is a term coined by researchers at the Institute of Development Studies, Sussex, to bring together thinking about social protection, disaster risk reduction and climate change adaptation (Davies, Oswald and Mitchell 2009).
- 99 Our calculations indicate that an additional \$15–\$28 billion is needed to incorporate adaptation into the Millennium Development Goals. Calculations based on Frankhauser and Schmidt-Traub (2010) and the UN Millennium Project: Estimated Costs of meeting the Millennium Development Goals in all countries ([www.unmillenniumproject.org/reports/costs\\_benefits2.htm](http://www.unmillenniumproject.org/reports/costs_benefits2.htm)) (table 7).
- 100 Leading Group on Innovative Financing for Development 2010.
- 101 Griffith-Jones, Ocampo and Stiglitz 2010.
- 102 This estimate is slightly higher than Schmidt's (2008) estimate for a tax of 0.005 percent of \$34 billion a year.
- 103 Other areas included are the Extractive Industries Transparency Initiative, Consultative Group on Agriculture, 3ie Evaluation Initiative, Global Environment Facility, UN Adaptation Fund, advanced market commitments, Montreal Protocol, International Finance Facility for Immunisation, Climate Investment Funds and International Monetary Fund surveillance. See Birdsall and Leo (2011).
- 104 IMF 2010.
- 105 European Parliament Committee on Economic and Monetary Affairs 2011.
- 106 Baker 2011.
- 107 SDR surpluses occur when a country's holdings exceed allocations. The largest SDR surplus countries include the United States, China, Japan, Libya, Saudi Arabia, Kuwait and Botswana.
- 108 Birdsall and Leo (2011). Willing governments would use a small portion of their SDR allocation to capitalize a third-party financing entity that would offer bonds on international capital markets backed by SDR reserves.
- 109 Climate Funds Update 2011 ([www.climatefundsupdate.org/graphs-statistics/pledged-deposited-disbursed](http://www.climatefundsupdate.org/graphs-statistics/pledged-deposited-disbursed)).
- 110 Newell and others 2011.
- 111 UNDP, and others, have developed a series of methodologies to assist such efforts: see [www.undp.org/climatestrategies](http://www.undp.org/climatestrategies).
- 112 Glemarec 2011.

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