# INVESTMENT FOR DEVELOPMENT: CHALLENGES AHEAD

## **EPILOGUE**

The evolving TNC universe, along with the emerging investment policy setting, poses three sets of key challenges for investment for development:

- to strike the right policy balance (liberalization versus regulation; rights and obligations of the State and investors);
- to enhance the critical interfaces between investment and development, such as those between foreign investment and poverty, and national development objectives;
- to ensure coherence between national and international investment policies, and between investment policies and other public policies.

All this calls for a new investment-development paradigm and a sound international investment regime that effectively promotes sustainable development for all.

### **Backdrop**

Since the first World Investment Report in 1991, TNC's have evolved immeasurably, partly in response to the opportunities and challenges presented by the process of globalization. New players, markets and organizational forms have emerged. At the same time, the process has included a vast expansion of the private sector into previously regulated areas of the economy. It is also associated with a series of recurrent financial and economic crises. These crises have triggered, among others, serious and profound questions regarding the implicit social contract on which the balance between public and private governance is built, both nationally and internationally. It is now increasingly argued that, in the face of globally critical policy and development challenges such as recurrent financial crises, climate change and food security, and the true urgency of actions required at the institutional, technological and economic levels, a new approach to harnessing markets for development is required. This new approach has important ramifications for the investment-development nexus.

## The evolving nature of the TNC universe

The opportunities and challenges offered by the global economy - encouraged and fostered by government policies, economic growth, competition, technological change and social developments - have resulted in changes to TNC strategies and structures. At the same time TNCs are an integral part of the process of globalization, impacting on and determining trends and developments. In particular, they have played a role in shaping the nature and characteristics of existing and emerging international markets and industries. There have been notable changes in the strategy and composition of FDI, for example in the increasing share of services in FDI flows, and the rise of extractive industries, infrastructure and agriculture as major areas of TNC activity, especially in developing countries (WIR00, WIR04, WIR07, WIR08, WIR09). As TNCs have widened and deepened their international expansion into new markets, especially in emerging economies, key issues of particular salience for the current and future role of TNCs in development include:

The rise of integrated international networks. Dynamic competition between TNCs has resulted in a fine-grained splitting of value chain activities and their dispersion. Initially primarily focused on production and operations (including by services companies), this dispersal of activities across borders, but coordinated under the auspices of one firm, was first referred to as "integrated international production" (WIR93). Increasingly, however, similar coordination is being achieved between independent or, rather, loosely dependent entities, which can perhaps be referred to as "integrated international networks". This has implications for a wider use of non-equity modes of TNC operation in host countries, as discussed below. Moreover the dispersal of the value chain internationally is increasingly across the whole gamut of TNC functions (but to different degrees), including R&D and design (WIR05). In the latter case, TNCs are both benefiting from and helping to build indigenous clusters of innovative activities in emerging markets.

Widening use of non-equity modalities. Over the past two decades or so, the expansion of various non-equity modes of TNC activity in host countries has become a significant feature of the emerging global division of labour. These non-equity modes include various types of international supplier and distribution relationships, e.g. international subcontracting in manufacturing industries such as automobiles, electronics and garments (Giroud and Mirza, 2006); contract farming in agriculture and food processing

EPILOGUE 155

(WIR09); international franchising in fast food retail stores; variations of build-own-operate-transfer arrangements and other concessions in infrastructure projects (WIR08); and management contracts in international hotel chains (UNCTAD, 2007c). The increased use of non-equity modes by TNCs may foster greater levels of interaction and diffusion of knowledge to domestic firms. This has been particularly salient in recent years in sectors such as infrastructure and agriculture, where non-equity forms of TNC activity have contributed to economic upgrading and institution-building in host countries (WIR07, WIR08, WIR09).

A broader range and types of TNC players. With TNCs' exponential expansion worldwide has come the rise (or re-emergence) of different types and forms, some with quite distinctive business models. This wider range of forms can be categorized in different ways: by internal and external coordination of TNC activity (as discussed above); by origin, as evidenced by the rise of TNCs from developing and transition economies (WIR06); by ownership, for example the expansion of FDI by state-owned TNCs, sovereign wealth funds (also state-owned) and private-equity funds; and by structure, such as "umbrella groups" from emerging countries (i.e. small family-owned firms managed collectively). These categories are not mutually exclusive, nor complete; however, in addition to representing competition for existing TNCs, these players also open up opportunities and risks for host countries.

The ascent of TNCs from the South, for instance, raises two particular issues. First, a re-emphasis of the fact that created asset-seeking strategies (e.g. acquisition of know-how, brands and distribution networks) by TNCs are becoming more prevalent. Secondly, the rise of South-South FDI is increasing opportunities for developing host countries (as these new players bring unique assets, skills and business models to the fray), as well as boosting and deepening

competition with developed country TNCs in areas where the latter previously possessed greater market power (*WIR06*).

The development dimension in the TNC "universe". The TNC universe delineated above has critical implications for development. From the perspective of development stakeholders, a wide-ranging discussion of economic power arises from, among others, TNC control of technology and markets in global value chains. For instance, how is this power yielded to control domestic suppliers of agricultural produce in developing countries (WIR09) and how might this impact on food security? In this respect, many TNCs have been targeted by civil society and suffered loss of reputation due to exposure of, among others, their labour, environmental or human rights practices.

Partly because of this, but also because integrated international networks have a multiplicity of stakeholders with different interests, corporate self-regulation is increasingly important. This has led to various types of initiatives under the banner of good corporate citizenship or corporate social responsibility (CSR), such as compliance with voluntary environmental or labour standards, and bilateral and multi-stakeholder initiatives. Partnerships with NGOs can form an integral part of the value-creating process of TNCs, as can various types of agreements that fit under the overall rubric of public-private partnerships (PPPs). In large-scale infrastructure projects, for instance, PPPs may best be realized by combining and balancing the various resources, assets and objectives which public and private/TNC partners can bring to bear. While some headway has been made, TNCs need to do more to factor in the development dimension and the public interest into their business decision-making, and to find the right balance between the "bottom line" of business shareholders and the "bottom line" of development stakeholders. This has become a major challenge for firms today.

### Evolving trends in investment policies

The TNC universe described earlier, i.e. the wider diversity and range of different kinds of firms and control arrangements under the TNC umbrella, has major policy implications for both home and host countries and at both national and international levels. For example, the rise of Southern TNCs has changed not only the investment policy perspective of governments of the South, but also that of the North. Partly for this reason, the pendulum has recently begun swinging towards a more balanced approach to the rights and obligations between investors and the State, with distinctive changes in the nature of investment policymaking. The defining parameters of these changes in investment policy making include the following:

**Dichotomy in policy directions**. There are simultaneous moves to further liberalize investment regimes and promote foreign investment in response to intensified competition

for FDI, on the one hand, and to regulate FDI in pursuit of public policy objectives, on the other. This "dichotomy" in policy directions is in contrast to the clearer trends of the 1950s-1970s (that focused on State-led growth) and the 1980s-early 2000s (that focused on market-led growth). Today's dichotomy results from a rebalancing of public and private interests in pursuit of market-harnessing development, with governments putting in place policies and mechanisms which enable and incentivize, as well as regulate market actors to better meet development objectives (fig. V.1). It was triggered by the various crises; however it also reflects the recognition that liberalization, if it is to generate sustainable development outcomes, has to be accompanied – if not preceded – by the establishment of proper regulatory and institutional frameworks.

Devising effective mechanisms for implementing adequate policy, regulatory and institutional frameworks, in a manner taking account of countries' different stages of economic, social and institutional development, is a challenging task. Multiple global crises (e.g. financial, food, energy, climate change) have reinforced calls for better regulation of the economy - including foreign investment – that has further spurred a series of international and domestic reform processes. Most prominent are regulatory changes in the financial sector, but there are also some in other areas of economic activity. Examples include recent efforts by UNCTAD, FAO, the World Bank and IFAD to establish principles for responsible investment in agriculture (WIR09), as well as global efforts for a future regime for combating climate change (chapter IV).

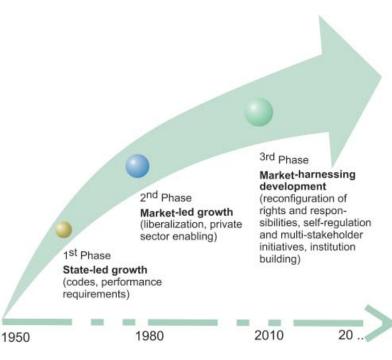


Figure V.1. The evolution of policy approaches towards foreign investment

Source: UNCTAD.

EPILOGUE 157

Striking the right balance between rules and laissez-faire poses a formidable policy challenge. This is closely linked to rebalancing the rights and obligations of the State and the investor; and adjustments at the national investment policy level are occurring to different degrees across sectors and types of regulations. This is a challenging task for several reasons. First, more regulation is a double-edged instrument: while regulation can enhance development gains, overregulation can be counterproductive. Secondly, many policy tools are available, but finding an adequate and effective policy mix between promotional and regulatory elements is difficult. Third, the new balanced approach needs to be rigorous, adapting to an economic and political environment that is constantly changing. Fourth, such a rebalancing process should not be hijacked by investment protectionism. In an increasingly interdependent world, "beggar-thyneighbour" policies are ultimately harmful to all countries, and undermine the longerterm development of countries that pursue such policies.

Above all, investment regulation is a must, and the key is not the quantity but the quality of regulation, i.e. its effectiveness and efficiency.

The balancing of public and private interests is also central to self-regulating corporate social responsibility initiatives. While participation in these types of initiatives is voluntary, such engagement increasingly comes with obligations to meet minimum requirements, typically in the area of corporate reporting. Especially in the supply chain context, participants' obligations have emerged as a key tool in strengthening the effectiveness and credibility of voluntary CSR initiatives. The continued growth of international CSR initiatives demonstrates both the private sector's interest in broader development issues, as well as the demand among global companies and investors for the kind of broad international voluntary

frameworks that a multilateral setting can provide. Indeed, self-regulation can play a complementary (but not sufficient) role in pursuing social and economic objectives, and hence should be further encouraged and enhanced.

Coherence between international and national investment policies. An increasing number of countries is giving greater emphasis to investment regulation and the protection of legitimate public concerns (chapter III). Ensuring coherence between international investment policies and domestic policies is crucial. For example, a number of investor-state dispute settlement (ISDS) cases related to investment protection have touched upon countries' legitimate public policy objectives. Closely related are systemic considerations arising from the manner in which IIAs interact with domestic policies. Both IIA-driven or domesticallydriven liberalization may have specific advantages and disadvantages (WIR04). The challenge lies in determining which combination of these best fits a country's policy and development context, to ensure that national and international policies reinforce and strengthen each other, ultimately fostering sustainable development.

Interaction between investment and other policies. Future policymaking needs to take into account the closer interaction between investment and other policies, including economic, social and environmental. A prominent example of these increasing interrelationships is the ongoing effort to reform the global financial system: the IIA regime needs to be carefully considered, as both regimes cover short- and long-term capital flows. Another example relates to industrial policies that deal with linkages and spillovers from investment, and the dissemination of technology (WIR01, WIR05). Besides economic policy, there is also a rising interrelationship between environmental and investment issues as manifested in, for example, the necessary incorporation of climate change considerations into investment policies, and vice versa (chapter IV). These interactions must be adequately addressed to create mutually beneficial outcomes and synergies between different areas of policymaking.

## Investment for development: building a better world for all

The challenge for policymakers is to fully comprehend the depth and complexity of the TNC universe and its new interface with the State and other development stakeholders, as well as the sheer magnitude of the opportunities and risks arising from the nature of the policy challenges confronting the world community. Policymakers need to manage relevant TNC interfaces in a manner that maximizes the development benefits of TNC involvement, while minimizing the risks. Key interfaces include the following:

The interface between TNCs and poverty.

Foreign investment needs to be encouraged and enabled towards the poor and marginalized at the bottom of the pyramid. It has to be nuanced appropriately to take into account a gender-differentiated and intergenerational approach. Investment can help create employment opportunities for the poor and marginalized, and also help improve their access to basic goods and services. It is crucial for the interface between TNCs and poverty to develop viable business solutions, so as to ensure that investing in the bottom of the pyramid is not a pro bono or philanthropic activity. Instead it should form part and parcel of a sustainable and beneficial business model. The evolution of the TNC universe and TNC strategies means that the patterns and pathways of their impact on development have changed, and they need to be better understood and acted upon.

The interface between TNCs and national development strategies has gained in prominence because of evolving TNC strategies and

forms, and the revival of industrial policies. This nexus is especially crucial when critical development challenges, for instance, food security or climate change adaptation, are involved. Theoretical and practical issues arise, and must be addressed in the context of the wider interface between investment and development.

The interface between institutions and TNCs. Institutions, both formal and informal, have a significant impact on a country's ability to attract and benefit from foreign investment. In light of the importance of institution-building in facing globally critical issues, lessons need to be drawn on why in some cases countries are successful in building institutions and increasing the value derived from foreign investment, while in other cases they fail. Further attention needs to be paid by development partners to building institutions and enhancing their capacities.

Systemic challenge of investment for development. In the absence of a global approach to investment and development, the international investment relationship is governed by a highly atomized, multilayered and multifaceted regime, consisting of over 5,900 international investment agreements. Such a fragmented regime seriously lacks consistency between investment treaties, coherence between the national and international investment policies, and effective interaction between investment policies and other public policies. While countries continue to address these systemic challenges by fixing their individual investment regimes, the longer-term solution lies in a global approach to investment for development. Above all, the world needs a sound international investment regime that effectively promotes sustainable development for all.

The new TNC universe, along with the emerging investment policy setting, calls for a new investment-development paradigm.

#### References

Abbott, Frederick M. (2009). "Innovation and technology transfer to address climate change: lessons from the global debate on intellectual property and public health", ICTSD Global Platform on Climate Change, Trade Policies and Sustainable Energy, *Issue Paper*, No. 24. http://ictsd.org/downloads/2009/07/innovation-and-technology-transfer-to-address-climate-change.pdf (accessed 16 June 2010).

Aldy, Joseph E. and Robert N. Stavins (2007). "Introduction: international policy architecture for global climate change", in Joseph E. Aldy and Robert N. Stavins (eds.), *Architectures for Agreement: Addressing Global Climate Change in the Post-Kyoto World*. Cambridge: Cambridge University Press.

Arquit Niederberger, Anne and Raymond Saner (2005). "Exploring the relationship between FDI flows and CDM potential". *Transnational Corporations*, 14(1): 1–40.

Asian Development Bank (2006). Carbon Market Initiative: The Asia Pacific Carbon Fund. November 2006. www. adb.org/Documents/Others/Asia-Pacific-Carbon-Fund.pdf (accessed 16 June 2010).

Bahnsen, Niels, Christiana Figueres, Morten Pedersen, Sine Skov, Hans Jürgen Stehr and, Jonas Valdimarsson (2009). "Study on the potential use of micro-financing in support of CDM projects in LDC countries". Final report produced for the Ministry of Foreign Affairs of Denmark.

Barefoot, Kevin B. and Raymond J. Mataloni, Jr. (2009). "U.S. multinational companies – operations in the United States and abroad in 2007", *Survey of Current Business*, 89: 63–87.

Barton, John H. (2007). "Intellectual property and access to clean energy technologies in developing countries. an analysis of solar photovoltaic, biofuel and wind technologies", ICTSD Programme on Trade And Environment, *Issue Paper*, No. 2. www.iprsonline.org/unctadictsd/docs/BARTON DEC 2007.pdf (accessed 21 June 2010).

Basave, Kunhardt, Jorge and María Teresa Guitiérrez-Haces (2008). Mexican multinational companies maintained their expansion in an adverse economic environment, Emerging global markets players project. New York: Vale Columbia Center.

Baumert, Kevin A., Navroz K. Dubash and Jacob Werksman (2001). "Will international investment rules obstruct climate protection policies?", *Climate Notes*, World Resource Institute.

Baumert, Kevin A., Timothy Herzog and Jonathan Pershing (2005). Navigating the Numbers: Greenhouse Gas Data and International Climate Policy. World Resource Institute. http://pdf.wri.org/navigating\_numbers.pdf (accessed 1 June 2010).

Becker, Sascha O. and Marc-Andreas Muendler (2006). "The effect of FDI on job separation", CESifo Working Paper, No. 1864. Munich: CESifo GmbH.

Berthelèmy, Jean-Claude (2004). "Bilateral donors' interest vs. recipients' development motives in aid allocation: do all donors behave the same?". Paper presented at the HWWA conference, *the Political Economy of Aid*, Hamburg, 9–11 December.

Bonin, John P., IIftekhar Hasan and Paul Wachtel (2005). "Bank performance, efficiency and ownership in transition countries", *Journal of Banking and Finance*, 29: 31–53.

Boute, Anatole (2007). "Combating climate change and securing electricity supply: the role of investment protection law", European Environmental Law Review, 16(8): 227–248.

Boute, Anatole (2009). "The potential contribution of international investment protection law to combat climate change", *Journal of Energy and Natural Resources Law*, 27(3): 333–376.

Boute, Anatole (2010). "IIAs and 'green' FDI promotional aspects". Unpublished paper prepared for UNCTAD.

Bräutigam, Deborah (2010). "Africa's Eastern promise: What the West can learn from Chinese investment in Africa", *Foreign Affaires*, 5 January 2010. www.foreignaffairs.com/articles/65916/deborah-brautigam/africa's-eastern-promise

Broadman, Harry G. (2007). Africa's Silk Road: China and India's New Economic Frontier. Washington D.C.: World Bank.

Cannady, Cynthia (2009). "Access to climate change technology by developing countries: a practical strategy", ICTSD Global Platform on Climate Change, Trade Policies and Sustainable Energy, *Issue Paper*, No. 25. http://ictsd.org/downloads/2009/11/access-to-climate-change-technology-by-developing-countries-cannady.pdf (accessed 16 June 2010).

Cao, Haitao and Risong Ye (2009). "Analysing foreign direct investment by Chinese enterprises in ASEAN", *Taiwan Journal of Southeast Asian Studies*, 6(1): 109–146.

China, Council for the Promotion of International Trade (CCPIT) (2010). Survey on Current Conditions of and Intention for Outbound Investment by Chinese Enterprises, Beijing: CCPIT (in collaboration with UNCTAD and the European Commission).

CIEL (2010). "Avoiding potential conflicts between climate change policy and IIAs". Center for International Environmental Law, unpublished paper.

Correa, Carlos (2005). "Can the TRIPS Agreement foster technology transfer to developing countries?", in Keith Maskus and Jerome H. Reichman (eds.), *International Public Goods and Transfer of Technology under A Globalized Intellectual Property Regime*. Cambridge: Cambridge University Press.

Demirbag, Mehmet and Hafiz Mirza (2000). "Factors affecting international joint venture success: an empirical analysis of foreign-local partner relationships and performance in joint ventures in Turkey", *International Business Review*, 9(1): 1–35.

Desai, Mihir A., C. Fritz Foley and James R. Hines (2009). "Domestic effects of the foreign activities of US multinationals", *American Economic Journal: Economic Policy*, 1(1): 181–203.

Deutsche Bank (2009): "Sovereign wealth funds: state investments during the financial crisis", July. www.dbresearch.com/PROD/DBR INTERNET DE-PROD/PROD000000000244283.PDF

Deutsche Bundesbank (2006). "German foreign direct investment relationships: recent trends and macroeconomic effects", *Monthly Report*, September: 43–58.

Deutsche Bundesbank (2010). "The German balance of payments in the year 2009", Monthly Report, March.

DIHK (2009). "Auslandsinvestitionen in der Industrie: Frühjahr 2009", Ergebnisse der DIHK-Umfrage bei den Industrie- und Handelskammern, www.dihk.de

Dunning, John H. and Sarianna Lundan (2007). *Multinational Enterprises and the Global Economy*, second edition. Cheltenham, United Kingdom/ Northampton, MA: Edward Elgar.

EBRD (2009). Transition Report 2009: Transition in Crisis? London: EBRD.

Ernst & Young (2009). *The Business Response to Climate Change: Choosing the Right Path*. Ernst & Young. www. ey.com/GL/en/Services/Specialty-Services/Climate-Change-and-Sustainability-Services

European Central Bank (2009). Opinion of the European Central Bank of 16 October 2009 on a proposal for a directive of the European Parliament and of the Council on Alternative Investment Fund Managers and Amending Directives 2004/39/EC and 2009/.../EC. www.ecb.int/ecb/legal/pdf/en con 2009 81 f sign.pdf

European Private Equity & Venture Capital Association (2009). "New report shows impact of crisis on funding for Europe's businesses", Press Release, Brussels, December 3.

FAO, IIED and IFAD (2009). Land grab or development opportunity? Agricultural investment and international land deals in Africa. www.ifad.org/pub/land/land\_grab.pdf

Finchelstein, Diego (2009). "Different states, different internationalizations: a comparative analysis of the process of firms' internationalization in Latin America". Paper prepared for the 28th LASA International Congress, Rio de Janeiro, 11–14 June.

Fries, Steven and Anita Taci (2005). "Cost efficiency of banks in transition: Evidence from 289 banks in 15 post communist countries", *Journal of Banking and Finance*, 29: 55–81.

 $G20\ (2009a).\ Leaders'\ statement\ of\ the\ Pittsburgh\ Summit.\ 24-25\ September.\ www.pittsburghsummit.gov/mediacenter/129639.htm$ 

G20 (2009b). Communiqué of the Finance Ministers and Central Bank Governors Meeting. 7 November. www. g20.org/Documents/2009\_communique\_standrews.pdf

G20 (2010a). The G20 Toronto Summit Declaration. 26–27 June. http://g20.gc.ca/wp-content/uploads/2010/06/g20 declaration en.pdf

G20 (2010b). Communiqué of the Finance Ministers and Central Bank Governors Meeting. 23 April. www.g20. org/Documents/201004 communique WashingtonDC.pdf

G8 (2009a). "Promoting the global agenda". Joint declaration of the summit, L'Aquila, 8–10 July. www.g8italia2009. it/static/G8 Allegato/G8 G5 Joint Declaration.pdf

G8 (2009b). "Responsible leadership for a sustainable future". Leaders' declaration of the summit, L'Aquila, 8–10 July. www.g8italia2009.it/static/G8\_Allegato/G8\_Declaration\_08\_07\_09\_final,0.pdf

G8 (2010). G8 Muskoka declaration: recovery and new beginnings. Muskoka, Canada, 25–26 June. http://g8.gc.ca/wp-content/uploads/2010/06/declaration-eng.pdf (accessed 30 June 2010).

Gentry, Bradford S. and Jennifer J. Ronk (2007). "International investment agreements and investments in renewable energy", Bradford S. Gentry, Leslie Parker and Jennifer J. Ronk (eds.), From Barriers to Opportunities: Renewable Energy Issues in Law and Policy. Yale School of Forestry and Environmental Studies. http://environment.research.yale.edu/documents/downloads/0-9/11-03-Gentry Ronk.pdf (accessed 16 June 2010).

Giroud, Axèle and Hafiz Mirza (2006). "Factors determining supply linkages between transnational corporations and local suppliers in ASEAN", *Transnational Corporations*, 15(3): 1–32.

Grubb, Michael, Christiaan Vrolijk and Duncan Brack (eds.) (1999). The Kyoto Protocol: A Guide and Assessment. London: RIIA.

Gu, Jing (2009). "China's private enterprises in Africa and the implications for African development", *European Journal of Development Research*, 21(4): 570–587.

Hanson, Gordon H., Raymond J. Mataloni and Matthew J. Slaughter (2005). "Expansion abroad and the domestic operations of U.S. multinationals", working paper.

Hausmann, Ricardo (2001). "Prisoners of geography", Foreign Policy, January: 23-34.

HSBC Global Research (2009). A climate for recovery: the colour of stimulus goes green, HSBC Bank plc. http://globaldashboard.org/wp-content/uploads/2009/HSBC\_Green\_New\_Deal.pdf (accessed 8 June 2010).

Hunter, David and Steve Porter (1999). "International environmental law and foreign direct investment", in Daniel Bradlow and Alfred Escher (eds.), *Legal Aspects Of Foreign Direct Investment*. London: Kluwer Law International.

ICTSD (2008). "Climate change, technology transfer and intellectual property rights". Background Paper to Trade and Climate Change Seminar, Copenhagen, June 18–20. http://ictsd.org/downloads/2008/10/cph\_trade\_climate\_tech transfer ipr.pdf (accessed 16 June 2010).

IEA (2007). World Energy Outlook 2007. Paris: OECD.

IEA (2009). World Energy Outlook. Vienna: IEA.

IISD (2009). Climate change and international investment agreements: obstacles or opportunities? Draft for discussion prepared by Fiona Marshall and Deborah Murphy. International Institute for Sustainable Development. www. iisd.org/pdf/2009/bali 2 copenhagen iias.pdf (accessed 8 June 2010).

IMF (2009). "Interview-global economic crisis: agreement with banks limit crisis in emerging Europe", *IMF Survey Magazine*, October.

IMF (2009). "Agreement with Banks Limits Crisis in Emerging Europe", *IMF Survey online*. www.imf.org/external/pubs/ft/survey/so/2009/int102809a.htm

IMF (2010a). World Economic Outlook: Rebalancing Growth. Washington, D.C.: IMF.

IMF (2010b). "IMF proposes 'green fund' for climate change financing", *IMF Survey online*. www.imf.org/external/pubs/ft/survey/so/2010/NEW013010A.htm (accessed 8 June 2010).

International Financial Services London (2009). "Sovereign wealth funds 2009", IFSL Research, March. www. ifsl.org.uk/output/ReportItem.aspx?NewsID=20

IPCC (2007). Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge, United Kingdom and New York: Cambridge University Press. www.ipcc.ch/pdf/assessment-report/ar4/wg3/ar4-wg3-ts.pdf (accessed 16 June 2010).

Jackson, James K. (2009). U.S. direct investment abroad: trends and current issues. United States Congressional Research Service. http://relooney.fatcow.com/0 New 6184.pdf

Japan, METI (2010a). Dai 43-Kai Gaishi-kei Kigyo no Doko. Tokyo: Ministry of Economies, Trade and Industry.

Japan, METI (2010b). Dai 38-Kai Wagakuni Kigyo no Kaigai Jigyo Katsudo. Tokyo: Ministry of Economies, Trade and Industry.

JBIC (2009). The role and function of the Japan Bank for International Cooperation, JBIC. www.jbic.go.jp/en/about/role-function/pdf/jbic-brochure-english.pdf (accessed 16 June 2010).

JBIC (2010). "Survey report on overseas business operations by Japanese manufacturing companies: results of JBIC FY2009 survey: outlook for Japanese outward direct investment", *Journal of JBIC International Research Office*, 4: 4–62.

Johnson, Lise (2009). "International investment agreements and climate change: the potential for investor-State conflicts and possible strategies for minimizing it", *Environmental Law Reporter*, 39(12): 11147–11160.

Johnstone, Nick, Ivan Haščič and David Popp (2010). "Renewable energy policies and technological innovation: Evidence based on patent counts", *Environmental and Resource Economics*, 45(1): 133–155.

Kasterine, Alexander and David Vanzetti (2010). "The effectiveness, efficiency and equity of market based and voluntary measures to mitigate greenhouse gas emissions from the agri-food sector", in UNCTAD (ed.), *Trade and Environment Review 2009/10 - Promoting Poles of Clean Growth to Foster the Transition to a More Sustainable Economy.* New York and Geneva: United Nations.

Kirkegaard, Jacob F., Thilo Haneman and Lutz Weischer (2009). "It should be a breeze: harnessing the potential of open trade and investment flows in the wind energy industry", *Working Paper Series*, No. WP 09-14. Washington, D.C.: World Resource Institute, Peterson Institute for International Economics.

KPMG (2010). Global business outlook survey, March. www.kpmg.com/Global/en/IssuesAndInsights/Articles-Publications/Documents/Global-Business-Outlook-Mar-10.pdf

Krautheim, Sebastian (2009). "Export-supporting FDI", Deutsche Bundesbank Discussion Paper, 20/2009. www. bundesbank.de

Kuroiwa, Ikuo, Hiroshi Kuwamori and Hajime Sato (2009). "The triangular trade – the shock transmission mechanism in the Asia-Pacific region", in Satoshi Inomata and Yoko Uchida (eds.), *Asia beyond the Crisis: Visions from International Input-Output Analyses*. Tokyo: IDE-JETRO.

Liang, Guoyong (2004). New Competition: Foreign Direct Investment and Industrial Development in China, ERIM Research in Management Series, 47, Rotterdam: RSM, Erasmus University.

Lima, Luís Afonso and Octavio de Barros (2009). "The growth of Brazil's direct investment abroad and the challenges it faces", *Columbia FDI Perspectives*, No. 13, August 17. New York: Vale Columbia Center on Sustainable International Investment.

Liu, Xiaming, Chengang Wang and Yingqi Wei (2010). "Do local manufacturing firms benefit from transactional linkages with multinational enterprises in China?", *Journal of International Business Studies*, 40(7): 1113–1130.

Lütken, Søren Ender and Axel Michaelowa, (2008). Corporate Strategies and the Clean Development Mechanism. Cheltenham: Edward Elgar.

Mackellar, Landis, Andreas Wörgötter and Julia Wörz (2002). "Economic development problems of landlocked countries", *Transition Economics Series*, No. 14. Vienna: Institute for Advanced Studies.

Mann, Howard (2001). Private rights, public problems. International Institute for Sustainable Development and WWF. www.iisd.org/pdf/trade citizensguide.pdf

Mariotti, Sergio, Marco Mutinelli and Lucia Piscitello (2003). "Home country employment and foreign direct investment: evidence from the Italian case", *Cambridge Journal of Economics*, 27: 419–431.

Marshall, Fiona (2009). "Investment, ICSID and climate change: turning obstacles into opportunities". Presentation given at the conference, *The Global Institutional Architecture and the Financial Crisis – An Opportunity for Sustainable Development?*, Berlin, 14–15 September. http://ecologic.eu/soef/ineg/downloads/Marshall.pdf.

McKinsey & Company (2009). Pathways to a Low-Carbon Economy. Version 2 of the Global Greenhouse Gas Abatement Cost Curve. McKinsey & Company. www.worldwildlife.org/climate/WWFBinaryitem11334.pdf

McKinsey Global Institute (2009). The new power brokers: How oil, Asia, hedge funds, and private equity are shaping global capital markets. www.mckinsey.com

Miles, Kate (2008). "International investment law and climate change: issues in the transition to a low carbon world". Paper presented at the Society of International Economic Law Inaugural Conference, Geneva, 15–17 July.

Moody's Investor Services (2010). Sovereign Contagion Risk -- Part I: Assessing the Impact on Banking Systems of Southern Europe, Ireland and the UK, Special Comment. Moody's Investors Service. http://v3.moodys.com

National Science Board (2010). Science and Engineering Indicators 2010. Arlington: National Science Foundation.

Nunnenkamp, Peter, Gustavo Canavire and Luis Triveno (2004). "Targeting aid to the needy and deserving: nothing but promises?", *Kiel Working Paper*, No. 1229. Kiel: Kiel Institute for World Economics.

OECD (2009). Aid Effectiveness: a Progress Report on Implementing the Paris Declaration. Paris: OECD.

OECD (2010). "Promoting transparency and exchange of information for tax purposes", A Background Information Brief, 25 March.

OPIC (2004). OPIC environmental handbook. Overseas Private Investment Corporation. www.opic.gov/sites/default/files/docs/opic\_env\_handbook.pdf

Ozawa, Terutomo (2009). The Rise of Asia: The "Flying-Geese" Theory of Tandem Growth and Regional Agglomeration. Cheltenham: Edward Elgar.

Page, Sheila and Dirk Willem te Velde (2004). "Foreign direct investment by African countries". Paper prepared for InWent / UNCTAD meeting on FDI in Africa, Addis Ababa, 22–24 November. www.odi.org.uk/resources/download/4688.pdf

Private Equity Intelligence (2009). "Private equity fundraising in difficult times", Private Equity Sportlight, October

Reichman, Jerome H. and Rochelle Cooper Dreyfuss (2007). "Harmonization without consensus: critical reflections on drafting a substantive patent law treaty", *Duke Law Journal*, 57: 85–130.

Reinaud, Julia (2008). "Issues behind competitiveness and carbon leakage: focus on heavy industry", *IEA Information Paper*, IEA. www.iea.org/papers/2008/Competitiveness and Carbon Leakage.pdf

REN21 (2009). Renewables Global Status Report: 2009 Update. Paris: Renewable Energy Policy Network for the 21st Century Secretariat.

RiskMetrics (2009). "An analysis of proxy voting and engagement policies and practices of the Sovereign Wealth Funds", *IRRCi SWF Report*, October 2009. http:// riskmetrics.com

Seres, Stephen and Erik Haites (2008). Analysis of technology transfer in CDM projects, Report prepared for the UNFCCC Registration & Issuance Unit CDM/SDM. Clean Development Mechanism. http://cdm.unfccc.int/Reference/Reports/TTreport/TTrep08.pdf (accessed 1 June 2010).

Seres, Stephen, Erik Haites and Kevin Murphy (2009). "Analysis of technology transfer in CDM projects: an update", *Energy Policy*, 37(11): 4919–4926.

Shim, Yong Ho, Ki Youn Kim, Ji Yeon Cho, Jin Kyung Park and Bong Gyou Lee (2009). "Strategic priority of green ICT policy in Korea: applying analytic hierarchy process", *World Academy of Science, Engineering and Technology*, 58: 16–20.

Slaughter, Matthew J. (2010). "How U.S. multinational companies strengthen the U.S. economy", revised update, Business Roundtable and United States Council For International Business, March.

Sohlman, Sascha (2009). Kinas relationer med Afrika ur ett handelsperspektiv. Stockholm: Kommerskollegium (Swedish National Board of Trade).

Sovereign Wealth Funds Institute (2009a). "Sovereign Wealth Fund Market Size by Quarter". www.swfinstitute. org.

Sovereign Wealth Funds Institute (2009b). "Consensus Demand Meter". www.swfinstitute.org/research.php

Standard & Poor's (2009). "LBO Performance in Europe falls behind expectations as recession bites", Ratings Direct, September 2009.

State Street (2009). "Sovereign wealth funds: emerging from the financial crisis". www.statestreet.com/vision/papers/sovereign-wealth-funds IV-1.html

Stern, Nicholas (2007). The Economics of Climate Change: the Stern Review. Cambridge and New York: Cambridge University Press.

Stern, Nicholas (2009). A Blueprint for a Safer Planet. London: Bodley Head.

Tamiotti, Ludivine and Vesile Kulaçoglu (2009). "National climate change mitigation measures and their implications for the multilateral trading system: key findings of the WTO/UNEP report on trade and climate change", *Journal of World Trade*, 43(5): 1115–1144.

Te Velde, Dirk W. and Dirk Bezemer (2006). "Regional integration and foreign direct investment in developing countries", *Transnational Corporations*, 15(2): 41–70.

Temasek (2009). Temasek Review 2009: Shaping Our Journey. Singapore: Temasek Holdings.

The Boston Consulting Group (2009). The 2009 BCG Multilatinas: A Fresh Look at Latin America and How a New Breed of Competitors Are Reshaping the Business Landscape. www.bcg.com/publications

Tomlinson, Sue, Perlin Zorla and Claire Langley (2008). *Innovation and Technology Transfer: Framework for a Global Climate Deal*. London: E3G/Chatham House.

UNCTAD (1998). World Investment Report 1998: Trends and Determinants. New York and Geneva: United Nations

UNCTAD (1999a). Investment Policy Review: Uzbekistan. New York and Geneva: United Nations.

UNCTAD (1999b). World Investment Report 1999: Foreign Direct Investment and the Challenge of Development. New York and Geneva: United Nations.

UNCTAD (2001). World Investment Report 2001: Promoting Linkages. New York and Geneva: United Nations.

UNCTAD (2003). FDI in Landlocked Developing Countries at a Glance. New York and Geneva: United Nations

UNCTAD (2004). World Investment Report 2004: The Shift Towards Services. New York and Geneva: United Nations.

UNCTAD (2005). World Investment Report 2005: Transnational Corporations and the Internationalization of R&D. New York and Geneva: United Nations.

UNCTAD (2006). World Investment Report 2006: FDI from Developing and Transition Economies – Implications for Development. New York and Geneva: United Nations.

UNCTAD (2007a). World Investment Report 2007: Transnational Corporations, Extractive Industries and Development. New York and Geneva: United Nations.

UNCTAD (2007b). Bilateral Investment Treaties 1995–2006: Trends in Investment Rulemaking. New York and Geneva: United Nations. www.unctad.org/en/docs/iteiia20065 en.pdf

UNCTAD (2007c). FDI and Tourism: The Development Dimension. New York and Geneva: United Nations.

UNCTAD (2008a). World Investment Report 2008: Transnational Corporations and the Infrastructure Challenge. New York and Geneva: United Nations.

UNCTAD (2008b). Guidance on Corporate Responsibility Indicators in Annual Reports. New York and Geneva: United Nations.

UNCTAD (2009a). World Investment Report 2009: Transnational Corporations, Agricultural Production and Development. New York and Geneva: United Nations.

UNCTAD (2009b). Economic Development in Africa 2009: Strengthening Regional Economic Integration for Africa's Development. New York and Geneva: United Nations.

UNCTAD (2009c). Latest developments in investor-State dispute settlement, *IIA Monitor*, No. 1. www.unctad.org/en/docs/webdiaeia20096 en.pdf

UNCTAD (2009d). The Role of International Investment Agreements in Attracting Foreign Direct Investment to Developing Countries, UNCTAD Series on International Investment Policies for Development. New York and Geneva: United Nations. www.unctad.org/Templates/webflyer.asp?docid=12543&intItemID=2068&lang=1 (accessed 16 June 2010).

UNCTAD (2009e). "Review of corporate responsibility reporting: the largest transnational corporations and climate change related disclosure". Report presented at twenty-sixth session of the Intergovernmental Working Group of Experts on International Standards of Accounting and Reporting, Geneva, 7–9 October. TD/B/C.II/ISAR/CRP.7.

UNCTAD (2009f). Trade and Development Report 2009: Responding to the Global Crisis: Climate change mitigation and development. New York and Geneva: United Nations.

UNCTAD (2009g). *Investment Policy Monitor*, No. 1, 4 December. www.unctad.org/en/docs/webdiaeia200911\_en.pdf

UNCTAD (2009h). *The Biofuels Market: Current Situation and Alternative Scenarios*, UNCTAD/DITC/BCC/2009/1. New York and Geneva: United Nations.

UNCTAD (2009i). "Trade and investment opportunities and challenges under the Clean Development Mechanism (CDM)". Note by the UNCTAD secretariat for the Expert meeting on trade and climate change, Geneva, 1–3 April. TD/B/C.I/EM.1/2.

UNCTAD (2009j). The Least Developed Countries Report 2009: The State and Developmental Governance. New York and Geneva: United Nations.

UNCTAD (2010a). Economic Development for Africa Report 2010: South-South cooperation: Africa and the New Partnership for Development. New York and Geneva: United Nations.

UNCTAD (2010b). "Latest developments in investor-State dispute settlement", *IIA Issues Note*, No. 1. www.unctad.org/en/docs/webdiaeia20103\_en.pdf

UNCTAD (2010c). Trade and Environment Review 2009/10: Promoting Poles of Clean Growth to Foster the Transition to a More Sustainable Economy. New York and Geneva: United Nations.

UNCTAD (2010d). *Global Investment Trends Monitor*, No. 3, fourth quarter of 2009 and first quarter of 2010. www.unctad.org/en/docs/webdiaeia20104\_en.pdf

UNCTAD (2010e). *Investment Policy Monitor*, No. 2, 20 April. www.unctad.org/en/docs/webdiaeia20102\_en.pdf

UNCTAD (2010f). "Assessment of liberalization and facilitation of FDI in thirteen APEC economies". Unpublished paper prepared for the APEC secretariat.

UNCTAD (forthcoming a). World Investment Prospects Survey 2010–2012. New York and Geneva: United Nations.

UNCTAD (forthcoming b). Exploring Alternatives to Investment Treaty Arbitration and the Prevention of Investor-State Disputes. New York and Geneva: United Nations.

UNCTAD (forthcoming c). Expropriation. UNCTAD Series on Issues in International Investment Agreements. New York and Geneva: United Nations.

UNCTAD (forthcoming d). Fair and Equitable Treatment. UNCTAD Series on Issues in International Investment Agreements. New York and Geneva: United Nations..

UNCTAD (forthcoming e). Investment and Enterprise Responsibility Review. New York and Geneva: United Nations

UNCTAD (forthcoming f). Promoting Low-carbon Investments: A Survey of Investment Promotion Agencies. New York and Geneva: United Nations.

UNCTAD and ICTSD (2003). "Intellectual property rights: implications for development", Policy Discussion Paper. UNCTAD-ICTSD Project on IPRs and Sustainable Development.

UNCTAD and OECD (2010). Third report on G20 investment measures. www.unctad.org/en/docs/unctad\_oecd2010\_en.pdf

UNCTAD, FAO, IFAD and the World Bank Group (2010). "Principles for responsible agricultural investment that respects rights, livelihoods and resources". Discussion note presented at the second session of the Investment, Enterprise and Development Commission, Geneva, 26–30 April. TD/B/C.II/CRP.3.

UNCTAD, OECD and WTO (2009). Report on G20 Trade and Investment Measures. www.unctad.org/en/docs/wto oecd unctad2009 en.pdf

 $UNCTAD,\ OECD\ and\ WTO\ (2010).\ Report\ on\ G20\ Trade\ and\ Investment\ Measures\ (September\ 2009\ to\ February\ 2010).\ www.unctad.org/en/docs/wto_oecd_unctad2010d1_en.pdf$ 

UN-DESA (2009). World Economic and Social Survey: Promoting Development, Saving the Planet. New York: United Nations.

UN-DESA (2010). World Economic Situation and Prospects 2010: Update as of mid-2010. New York: United Nations.

UNEP (2008). Investing in a climate for change: engaging the finance sector. United Nations Environment Programme. www.unep.fr/shared/publications/pdf/WEBx0140xPA-InvestClimateChange.pdf (accessed 16 June 2010).

UNEP FI (2009). Financing a global deal on climate change, Green paper produced by the United Nations Environment Programme Finance Initiative Climate Change Working Group. www.unepfi.org/fileadmin/documents/FinancingGlobalDeal.pdf (accessed 4 June 2010).

UNEP Risoe (2010). CDM/JI Pipeline Analysis and Database, March 1.

UNFCCC (1992). United Nations Framework Convention on Climate Change. New York: United Nations.

UNFCCC (2007). Investment and Financial Flows to Address Climate Change. Bonn: United Nations.

UNIDO (2007). Africa Foreign Investor Survey 2005. Vienna: UNIDO.

United Nations (1969). Vienna Convention on the Law of Treaties. Vienna, 23 May 1969 (entry into force, 27 January 1980). United Nations Treaty Series. Vol. 1155: 331. http://untreaty.un.org/ilc/texts/instruments/english/conventions/1 1 1969.pdf (accessed 8 June 2010).

United Nations (1998). Kyoto Protocol to the United Nations Framework Convention on Climate Change. United Nations. http://unfccc.int/resource/docs/convkp/kpeng.pdf (accessed 1 June 2010).

United Nations Commission on Sustainable Development (1997). "Rio Declaration on environment and development: application and implementation". Report of the Secretary-General at the fifth session of the Commission on Sustainable Development, New York, 10 February. E/CN.17/1997/8.

United Nations Development Programme (2005). *UN Millennium Project 2005: Investing in Development – A Practical Plan to Achieve the Millennium Development Goals.* London and Sterling, United States: Earthscan.

United Nations International Law Commission (1998). "First report on prevention of transboundary damage from hazardous activities". Report prepared by Pemmaraju Sreenivasa Rao, Special Rapporteur for the fiftieth session of the International Law Commission, 3 April. A/CN.4/487/Add.1.

United Nations International Law Commission (2006). "Fragmentation of international law: difficulties arising from the diversification and expansion of international law". Report of the Study Group of the International Law Commission for its fifty-eighth session, 13 April. A/CN.4/L.682.

United States Bureau of Economic Analysis (2010). International transactions, March 2010.

United States Department of State (2009). Report of the Advisory Committee on International Economic Policy Regarding the Model Bilateral Investment Treaty. Presented on September 30, 2009. www.state.gov/e/eeb/rls/othr/2009/131098.htm (accessed 17 June 2010).

Van Buskirk, Robert, Essel Ben Hagan, Alfred Ofosu Ahenkorah, Michael A. McNeil (2007). "Refrigerator efficiency in Ghana: tailoring an appliance market transformation program design for Africa", *Energy Policy* (35): 2401–2411.

WBCSD (2005). Energy & Climate Change: sharpening the focus for action – a business perspective, World Business Council for Sustainable Development. www.wbcsd.org/DocRoot/OmqW76IlujjUoBtpjbEx/cop11-perspective. pdf (accessed 27 April 2010).

World Bank (2009a). World Investment and Political Risk. Washington, D.C.: World Bank.

World Bank (2009b). MIGA Annual Report 09. Management's Discussion and Analysis. Washington, D.C.: World Bank.

World Bank (2009c). World Development Report 2010: Development and Climate Change. Washington, D.C.: World Bank.

World Bank (2009d). Development and Climate Change: The World Bank Group at Work. Washington, D.C.: World Bank.

WTO (2009). Overview of Developments in the International Trading Environment. Annual Report by the Director-General, 18 November. WT/TPR/OV/12.

Wu, Dong (2010). "Powering the green leap forward: China's wind energy sector", in UNCTAD (ed.), *Trade and Environment Review 2009/10*. New York and Geneva: United Nations.

Zhan, James (2009). "Global FDI flows in the shadow of the financial crisis: What is happening now and in the near future?". Speech given at the Global Think Tank Summit, Beijing, 4 July.