

ENTWINED | 2012 Annual Report



- Moving forward in a complex world

Annual report 2012
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Director's view

On behalf of the ENTWINED programme, I am pleased to present ENTWINED's 2012 Annual Report, which summarizes our accomplishment and activities through 2012. This is our programme's penultimate year and our 6th productive year of operation.

ENTWINED's researchers are studying the link between environment and trade. This is an area that is, as much as ever, a critical aspect to the sustainable development challenges we face. Not least because of the increasingly integrated global economy (partly via trade) and the emergence of national and regional initiatives and the trials of multilateral collaboration. Some claim that our multilateral efforts to meet and manage the global environmental challenges we face are floundering. For example, confusion and a lack of leadership around the Rio+20 Summit, lack of commitment under the United Nations climate change negotiations, and continued deadlock on the Doha Round of negotiations under the World Trade Organization.

However, there is progress and opportunity and ENTWINED's research seeks to identify applied and practical ways we can move forward on these critical issues. Through 2012, ENTWINED has continued to deliver research of the highest scientific quality that lay the ground for our efforts to engage with our network of practitioners.

Sincerely,



Mark Sanctuary
Programme Director – ENTWINED
IVL Swedish Environmental Research Institute
10th of April 2013



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This is ENTWINED

In response to a Mistra call for research on “policy alternatives for managing the trade and environment interface” ENTWINED – Environment and Trade in a World of Interdependence – was initiated in January 2007.

The program’s aim is to investigate how to better integrate environmental aspects into international trade negotiations in our increasingly entwined global economy. Mistra has awarded funding for ENTWINED for a seven-year period, through to the end of 2013. The research program is about changing the way we manage trade and environment. We provide scientific knowledge and tools to support European negotiators and stakeholders in integrating environmental aspects into the international trade regime.

Our current research examines the legal and economic implications of border carbon adjustments, the impact of eco-labeling initiatives and how sustainable development objectives can be operationalized under the World Trade Organization (WTO). In recognition of the complexity of the challenges, ENTWINED’s approach builds on deep expertise and a broad consideration of the issues.



Photo from the ENTWINED Workshop at WTO Public Forum, Geneva.

Our research

ENTWINED's research provides a scientific basis for designing policy to address critical sustainable development challenges. The issues pursued through 2012 are built around four main headings, each focusing on a distinct level of institutional organization; multilateral, unilateral and private initiatives. At the same time the work recognizes the inter-connectedness of trade and environment governance across these three levels.

The following is a comprised list of the research questions pursued over 2012.

The treatment of environmental policies in the WTO

How can accountability mechanisms be extended at the WTO to environmental and sustainability concerns within existing mandates?

This work will include crosswalks to the work on voluntary standards described below.

Can lessons be drawn from WTO experience for enhanced transparency and accountability in MEAs, and vice versa?

Why do parties in environmental disputes typically prefer to let their disputes be resolved through negotiations in the TBT Committee rather than before a WTO Panel?

Trade and Green Industrial Policy

What lessons from industrial policy can be applied to "green industrial policy"? More specifically, what lessons can be applied to the support of renewable energy sectors?

What strengths, weaknesses, opportunities and threats can be identified by comparing and contrasting green industrial initiatives that are currently underway in Spain, Germany and China?

Is there a need to discuss waivers or exceptions to, or agreed interpretations of, trade law, and amendments to investment law, to leverage constructive green industrial policy and limit the deployment of destructive green industrial policy?

To what extent does lobbying by special interest groups have an impact on the level of biofuel usage?

Trade and the Impact of Voluntary Environmental Standards

What are the social, economic and environmental impacts of sustainability standards operating in the global market, and how are these impacts distributed geographically and across global supply chains?

Border Carbon Adjustments

What are the principles of good practice that can help policymakers design border carbon adjustment measures?

How do climate policies, including border adjustments, in industrialized countries affect trade partners?

Program outputs 2012

In order to make our results as approachable as possible the program has created a publication format called Issue Briefs. The purpose of our Issue Briefs is to have a publication series that can sum up our results in an easy to read format in order to reach busy policy makers, reporters and business people.

The Issue Briefs are designed to be easily identified as an ENTWINED product, both in logotype, layout and colors. In addition to the briefs the program also have a Policy Report format, designed so as to allow for somewhat longer publications with more in depth data, but still graphically identifiable as a product from ENTWINED.

The response regarding the briefs and reports has been very positive from a large amount of key stakeholders and commented on regarding how approachable they make our research results. This year the program has published four ENTWINED Issue Briefs and two Policy Reports.

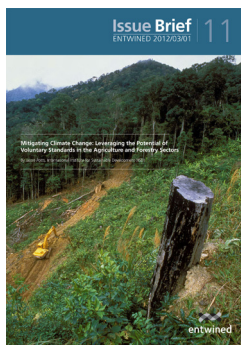
Published Issue Briefs during 2012

Mitigating Climate Change: Leveraging the Potential of Voluntary Standards in the Agriculture and Forestry Sectors

Author: Jason Potts

Jason Potts' brief aims to facilitate more effective use of voluntary standards in mitigating climate change in the agriculture and forestry sectors.

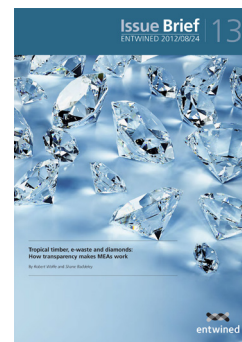
It provides an overview of the state of play of different standards initiatives agriculture and forestry sectors, as well as the opportunities and challenges associated with using such instruments in climate-mitigation strategies



Tropical timber, e-waste and diamonds: How transparency makes MEAs work

Author: Robert Wolfe and Shane Baddeley

In this brief research on how transparency mechanisms contribute to the implementation of multilateral environmental agreements (MEAs) is summarized. By comparing how these mechanisms operate in three MEAs, the brief aims to help policymakers identify opportunities for improving accountability in international agreements.



Environmental Measures in the WTO TBT Committee: Between Transparency and Adjudication

Author: Henrik Horn, Petros C. Mavroidis, Erik N. Wijkström

This brief draws attention to WTO TBT Committee's work on environmental issues. The authors suggest that the work in this committee provides important insights into the relationship between national environmental policies and the WTO Agreement, and to the role of the WTO more generally



It ain't easy: The complexities of creating a regime for border carbon adjustment

Author: Aaron Coseby

This brief aims to highlight some of the difficulties involved in elaborating a working BCA regime. It demonstrates both the tensions between the various possible BCA objectives and the necessarily imperfect options that are available for bridging the tension between regime effectiveness and compliance with trade law. This brief highlights some of the more difficult decisions that would have to be made in actually designing such a mechanism.



Outreach

ENTWINED works with a range of stakeholders, both nationally and internationally. One of ENTWINED's key partners is Sweden's National Board of Trade (Kommer-skollegium), with whom ENTWINED is working closely with. ENTWINED also engages representatives from the private sector and academia at universities in Sweden, Europe and the US. Furthermore, our international reach leverages the networks that ENTWINED's partners have access to.

ENTWINED communicates with its target groups primarily by disseminating publications, hosting and participating in seminars, workshops and conferences, and via our website.

The ENTWINED newsletter has a subscriber list of trade and environment practitioners and scholars, and the letter is sent out approximately two times a year. New research results and ENTWINED events are the primary focus of the letter.

The approach taken to disseminating ENTWINED's publications is tailored to each type of publication. For example ENTWINED's Issue Briefs are disseminated through the post and email, at our events, and on our website. Printed and produced copies of our Issue Briefs are distributed to trade and environment practitioners in Sweden and abroad. The Issue Briefs are also distributed at events ENTWINED hosts or participates in.

We also rely on our networks and contacts when disseminating our policy reports and Issue Briefs. For example IISD is supporting the dissemination of ENTWINED's outputs with its network of 4 000 practitioners and 1 500 media contacts.

The ENTWINED's website www.entwined.se has had 940 unique visitors during 2012 with the most visited site being our publication site. This is a weak result relative to previous years. For example, in 2011, ENTWINED had 2500 unique visitors to its website. This dip in website visits is partially due to the fact that during 2012 ENTWINED did not host any events with the same visibility as our 2011 events, which created a lot of traffic to the website. We are currently implementing changes to ensure visitor traffic to ENTWINED's website increases in 2013.



Photo from the ENTWINED Workshop at WTO Public Forum, Geneva.

ENTWINED 2012 Academic Working Papers

The following is an inventory of working papers that were delivered in 2012 or are in the process of being revised and submitted to scientific journals. Some of the papers were first posted on ENTWINED's website in previous years, but have undergone revision during 2012. The inventory also notes papers that have been accepted for publication and are forthcoming.

"Alternative Climate Policies and Intertemporal Emissions", RFF Discussion paper 12-16 (April) by Carolyn Fischer and Stephen Salant.

"Between Transparency and Adjudication: Environmental Measures in the WTO TBT Committee", ENTWINED working paper by Henrik Horn, Petros Mavroidis and Erik Wijkström (Forthcoming in Journal of World Trade).

"Climate policy and fiscal constraints: Do tax interactions outweigh carbon leakage?", RFF Discussion paper 12-19 (August) by Carolyn Fischer and Alan Fox.

"Competing Environmental Labels", RFF Discussion paper (Forthcoming in Journal of Economics and Management Strateg) by Carolyn Fischer and Thomas Lyon.

"Cost-Effective Unilateral Climate Policy Design: Size Matters", Statistics Norway Discussion Papers No. 664, September 2011 by Christoph Böhringer, Carolyn Fischer, and Knut Einar Rosendahl.

"Emissions leakage and subsidies for pollution abatement. Pay the polluter or the supplier of the remedy?", Statistics Norway discussion paper 708 by Carolyn Fischer, Mads Greaker and Knut Einar Rosendahl.

"How does the price of electricity affect imports? A study of Swedish manufacturing firms.", ENTWINED Working Paper by Shon Fergusson and Mark Sanctuary.

"The judgment by the European Court of Justice on the Aviation Directive Makes Little Economic Sense", ENTWINED working paper by Henrik Horn (2012).

"Trade, Transboundary Pollution and Market Size", ENTWINED Working Paper by Rikard Forslid, Toshihiro Okubo and Mark Sanctuary.

"On Compliance in the WTO: Enforcement Amongst Unequal Disputants", Briefing Paper published by CUTS International No. 4/2012 by Petros C Mavroidis.

"Regulatory Transparency in MEAs: Controlling exports of tropical timber, e-waste and conflict diamonds", Revised version by Robert Wolfe and Shane Baddeley.

"Trade and Resources: Welfare Effects of the Lake Victoria Fisheries Boom", Working Paper in Economics No 534, School of Business, Economics and Law at University of Gothenburg by Håkan Eggert, Mads Greaker and Asmerom Kidane.

ENTWINED Policy Reports

- "Locating Accountability - Conceptual and categorical challenges in the literature. By Anna Drake, Mark Halle, Robert Wolfe
- "A Guide for the Concerned: Guidance on the elaboration and implementation of border carbon adjustment". By Aaron Cosbey et. al.

ENTWINED outputs published in peer reviewed journals: 2008 onward

- "The permissible Reach of National Environmental Policies," Journal of World Trade 42(6), 2008, 1107-1178 by Henrik Horn and Petros C. Mavroidis.
- "The Burden of Proof in Environmental Disputes in the WTO: Legal Aspects," European Energy and Environmental Law Review 18(2), 2009 by Henrik Horn and Petros C. Mavroidis.
- "Does trade help or hinder the conservation of natural resource?," Review of Environmental Economics and Policy (2010) 4(1): 103-121 by Carolyn Fischer.
- "The Global Effects of Subglobal Climate Policies," B.E Journal of Economic Analysis & Policy 10 (2) (Symposium): Article 13 (2010) by Christoph Boehringer, Carolyn Fischer and Knut Einar Rosendahl.
- "Trade, GMOs and Environmental Risk: Are Current Policies Likely to Improve Welfare?," Environmental and Resource Economics Volume 48, Number 4, 587-608 by Håkan Eggert and Mads Greaker.
- "Climate Change and the WTO: Legal Issues Concerning Border Tax Adjustments," Japanese Yearbook of International Law 53, 2010 by Henrik Horn and Petros C. Mavroidis.
- "Global Warming and the World Trading System" by Charnovitz et al. Book review by Carolyn Fischer and Petros C. Mavroidis on published in the Journal of Economic Literature Vol. 48, No. 3 September 2010.
- "The Burden of Proof in Trade Disputes and the Environment", Journal of Environmental Economics and Management Vol. 62, No. 1, pp. 15-29, 2011 by Henrik Horn.
- "Trade's growing footprint", Nature: Climate Change (News and Views) Vol. 1 No. 3 pp. 146-147, 2011 by Carolyn Fischer.
- "To BTA or not to BTA?," forthcoming in World Economy, 2012 by Henrik Horn and Petros Mavroidis.
- "Comparing Policies to Combat Emissions Leakage: Border Tax Adjustments versus Rebates", forthcoming in Journal of Environmental Economics and Management by Carolyn Fischer and Alan Fox.
- "Strategic Environmental Policy" by Mads Greaker forthcoming in Encyclopedia of Environmental and Resource Economics, Jason Shogren and Per Fredrikson (eds.) 2012.
- "Protectionism and multilateral accountability during the Great Recession: Drawing inferences from dogs not barking", forthcoming in Journal of World Trade 46:4, August 2012, by Robert Wolfe.
- "The Role of Trade and Competitiveness Measures in US Climate Policy", American Economic Review, May 2011, Vol. 101, No. 3: Pages 258-262 by Carolyn Fischer.

Engaging end-users and supporting collaboration

An important complement to our dissemination activities are the seminars, workshops and conferences. These activities serve not only as further support for the dissemination of our results, but also to provide forums where the research team gathers feedback from our end-users. ENTWINED continued to organize public-policy conferences and workshops with a strong academic and scientific base, leveraging our existing platform and making the best use of our resources. Through these activities, ENTWINED has reached over 1400 individuals. We present an account of these activities in Table 1, below.

Table 1 – ENTWINED’s seminars, workshops and conferences for 2012

Title of presentation	Event name and Location	Date	Approximate Participation
Alternative Intertemporal Emissions Leakage	ASSA Meeting in Chicago, IL.	January 6	40
Alternative Intertemporal Emissions Leakage	Santa Barbara, CA	January 19	20
Risk Management and Certification: An Opportunity for Finance	Citigroup. Rainforest Alliance Certification and Risk Workshop	January 20	NA
Alternative Intertemporal Emissions Leakage	University of Arizona, Tucson, Department of Economics Seminar	January 24	35
Legal and Economic Principles of World Trade Law	American Law Institute Council Meeting.	January 26	50
Emission leakage and subsidies for pollution abatement: Pay the polluter or the supplier of the remedy?	Umeå University seminar	March	20
Alternative Intertemporal Emissions Leakage	Biofuel workshop, Hafjell, Norway	March 19	30
Alternative Intertemporal Emissions Leakage	Gothenburg University seminar in Environmental Economics	March 20	25
Alternative Climate Policies and Intertemporal Emissions Leakage	Colorado School of Mines, Department of Economics Seminar, Golden, CO.	April 20	35
Regulatory Transparency in Trade in Raw Material	OECD Workshop in Paris	May 10-11	100
Climate Policies and Fiscal Constraints	UC-Santa Barbara, Bren School, Research Seminar	May 14	20
Making Sustainability Standards Work for Those Most in Need	Presentation of SSI data related to risk management and certification. Rio de Janeiro	June 16	74
Certified Green: The Role and Impacts of Certification in the Green Economy	Presentation of SSI data related to risk management and certification. Rio de Janeiro	June 17	35
Strategic Technology Policy for Emission Intensive, Traded Industries	EAERE Annual Meeting, Prague	June 30	40
Border Carbon Adjustments	EAERE Annual Meeting, Prague	June 30	25
Climate Policies and Fiscal Constraints	AERE Summer Workshop Asheville, N.C	July 5	25
Alternative Climate Policies and Intertemporal Emissions Leakage.	CESifo workshop on the Green Paradox, Venice	July 20	35
Border Carbon Adjustments	European Economic Association, Malaga, Spain	August 28	20
Does a renewable fuel standard for biofuels reduce climate costs?	CREE workshop, Oslo	September	30
Climate Policy and Fiscal Constraints.	Workshop on the Role of Border Measures in the Design of Unilateral Climate Policy, RFF Washington	September 4-5	50
The Role of Border Measures in the Design of Unilateral Climate Policy.	RFF First Wednesday Seminar, Washington	September 5	100
Overlapping Policies for Green Energy: Mixing It Up or Mixed Up?	WTO Public Forum 2012: Ideas Workshop on Renewable Energy Policies and Trade, Geneva	September 24	40
Why is it important to enhance the transparency of non-tariff measures?	WTO Public Forum Workshop, Geneva	September 25	100
Can plurilaterals be multilateralized	WTO Public Forum Workshop, Geneva	September 26	100
WTO Public Forum event on the Treatment of Transparency Obligations under the WTO	WTO Public Forum Workshop arranged by ENTWINED in co-operation with IISD., Geneva	September 26	96
ENTWINED external workshop	IISD, Geneva	September 27	30
Improving Transparency as a Tool for the Implementation of the WTO Agreement on Agriculture.	CATPRN annual workshop, Toronto	September 29	50
Limits to Limiting Emissions	PAKT Conference, “The Green Growth Dilemma”, Berlin	October 16	100

RFF Roundtable: Discussion on the Economics of Future US Fiscal and Carbon Policy	RFF, Washington	October 23	40
Climate Policy and Fiscal Constraints.	CCEP Carbon Tax Corporate Roundtable, Washington	October 23	40
Toward a New Climate Agreement: Conflict, Resolution and Governance	International Guidance for Border Carbon Adjustments to Address Carbon Leakage. Oslo.	November 13	30
Taming the tiger: Guidance on the elaboration and implementation of BCA	UNFCCC COP 18 side event, Doha Organized by ENTWINED in partnership with IETA.	November 29	15
The Necessity of CSS: Looking Beyond Fossil Power-Bio-CCS and other Industries.	UNFCCC COP 18 side event, Doha Organized by ENTWINED with the Belona Foundation.	December 1	12
Taming the tiger: Guidance on the elaboration and implementation of BCA	UNFCCC COP 18 side event, Doha Organized by ENTWINED with the Belona Foundation.	December 3	30



Photo from the ENTWINED Workshop at WTO Public Forum, Geneva.

Graduate supervision

At the end of 2006, Mistra allocated up to 2.2 MSEK in financial support for a PhD position under ENTWINED. This position would be integrated with ENTWINED's research agenda and would also provide the candidate with an opportunity to spend an internship year at the Swedish Ministry for Foreign Affairs. In 2007, ENTWINED opened a call for applications to the PhD position. Criteria for the successful candidate were:

- Be a qualified and eligible, or current, PhD student at your department within a relevant field of social sciences;
- Have an expressed interest in environmental policy, international relations, international law, economics, or similar;
- Include maximum one page describing their research interests;
- Speak and write fluent English;
- Start in 2008;

In 2008, ENTWINED awarded this position also to Alex Schmitt, a PhD Student in Economics at the Institute for International Economic Studies (IIES) at Stockholm University. He holds an M.A. from Simon Fraser University in Canada and a "Diplom" from the University of Regensburg in Germany. His main fields of interest are the economics

of climate change, computational economics and public finance.

Alex spent the academic year 2011/2012 at Yale University in the US. During his stay, he started a project on "Second-Best Environmental Taxation in Dynamic Models without Commitment", in which he looks at the interaction between environmental and other taxes, and its implications for optimal environmental policy. He finds that in a setting with distortionary taxation and lack of commitment to future policies, a Pigouvian tax, equating the marginal benefit of pollution to its marginal social cost, is neither optimal nor is it time-consistent.

In a related project, he considers a different source of time inconsistency, namely a stochastic change in governmental preferences, and investigates its quantitative implications on optimal climate policy in an integrated assessment model of climate change. He analyzes how the investment behavior of an incumbent government changes, compared to the first-best case, in a setting in which it can invest in different types of energy. In other words, he addresses the question to what extent a "green" government uses investment in the low-emission energy source to "tie its successor's hands", that is, to induce subsequent governments to reduce future CO2 emissions.



Photo from the ENTWINED Workshop at WTO Public Forum, Geneva

Financial Report

Entwined program budget and expenses										
KSEK										
Research Effort	Budgeted					Expenses incurred				
	2010	2 011	2 012	2 013	Total	2010	2 011	2 012	2 013	Balance
Fees excl overhead	3 750	3 750	3 750	3 750	15 000	3 107	4 294	3 566	0	4 032
Overhead	1 350	1 350	1 350	1 350	5 400	1 000	1 779	1 613	0	1 008
Publication and Website	0	0	0	0	0	0	0	0	0	0
Travel	0	0	0	0	0	0	0	0	0	0
Events	0	0	0	0	0	0	0	0	0	0
Value added tax (VAT)	0	0	0	0	0	0	0	0	0	0
Unallocated	0	0	0	0	0	0	0	0	0	0
Total	5 100	5 100	5 100	5 100	20 400	4 107	6 073	5 180	0	5 040
Communications	Budgeted					Expenses incurred				
	2010	2 011	2 012	2 013	Total	2010	2 011	2 012	2 013	Balance
Fees excl overhead	350	350	350	350	1 400	235	382	198	0	585
Overhead	350	350	350	350	1 400	235	382	198	0	585
Publication and Website	300	300	300	300	1 200	224	179	470	0	327
Travel	400	400	400	400	1 600	153	816	210	0	421
Events	500	500	500	500	2 000	142	531	402	0	925
VAT	0	0	0	0	0	42	274	76	0	-392
Unallocated	0	0	0	0	0	0	0	0	0	0
Total	1 900	1 900	1 900	1 900	7 600	1 028	2 565	1 555	0	2 452
Program Management	Budgeted					Expenses incurred				
	2010	2 011	2 012	2 013	Total	2010	2 011	2 012	2 013	Balance
Fees excl overhead	325	325	325	325	1 300	407	371	224	0	298
Overhead	325	325	325	325	1 300	355	371	224	0	350
Publication and Website	0	0	0	0	0	0	0	0	0	0
Travel	0	0	0	0	0	30	0	25	0	-55
Other	0	0	0	0	0	25	0	0	0	-25
VAT	0	0	0	0	0	230	230	231	0	-691
Unallocated	850	850	850	850	3 400	100	782	495	0	2 023
Total	1 500	1 500	1 500	1 500	6 000	1 146	1 755	1 200	0	1 900
PhD Support	Budgeted					Expenses incurred				
	2010	2 011	2 012	2 013	Total	2010	2 011	2 012	2 013	Balance
Fees excl overhead	335	350	350	350	1 385	335	296	305	0	449
Overhead	185	200	200	200	785	185	103	120	0	377
Publication and Website	0	0	0	0	0	0	0	0	0	0
Travel	0	0	0	0	0	0	0	0	0	0
Events	0	0	0	0	0	0	0	0	0	0
VAT	0	0	0	0	0	0	0	0	0	0
Unallocated	0	0	0	0	0	0	0	0	0	0
Total	520	550	550	550	2 170	520	399	425	0	826
Total	Budgeted					Expenses incurred				
	2010	2 011	2 012	2 013	Total	2010	2 011	2 012	2 013	Balance
Fees excl overhead	4 760	4 775	4 775	4 775	19 085	4 083	5 344	4 294	0	5 364
Overhead	2 210	2 225	2 225	2 225	8 885	1 774	2 636	2 156	0	2 319
Publication and Website	300	300	300	300	1 200	224	179	470	0	327
Travel	400	400	400	400	1 600	183	816	235	0	367
Events and Other	500	500	500	500	2 000	167	531	402	0	900
VAT	0	0	0	0	0	272	504	307	0	-1 083
Unallocated	850	850	850	850	3 400	100	782	495	0	2 023
Total	9 020	9 050	9 050	9 050	36 170	6 801	10 792	8 359	0	10 218

The ENTWINED Team

The research consortium brings together researchers from different disciplinary backgrounds, including international law, economics, policy and natural science. They are an international group comprised of leading trade and environmental policy researchers based mainly in Sweden, but also from Switzerland, Canada, and the United States. The following people form the research team:



Aaron Cosby, is Associate and Senior Advisor at the Trade and Investment Program, International Institute on Sustainable Development (IISD). Aaron is a development economist specializing in the areas of trade, investment and sustainable development; international environmental governance; and climate

change. He has published widely for 20 years in the area of trade and sustainable development, and for more than 12 years in the area of climate change and energy, and has consulted to governments, research institutes, academia, UN agencies, NGO's and IGO's. His current work focuses on the intersection of trade, investment and climate policy, with particular emphasis on issues surrounding competitiveness and leakage, green industrial policy, and investment policy for climate friendly foreign direct investment (FDI).



Carolyn Fischer is a tenured Senior Fellow at Resources for the Future (RFF) in Washington, DC. She holds a Ph.D. in Economics from the University of Michigan, Ann ArCarolyn Fischer is a tenured Fellow at Resources for the Future (RFF) in Washington, DC. She holds a Ph.D. in Economics from the University of Michigan,

Ann Arbor, and a B.A. in International Relations with honours from the University of Pennsylvania in Philadelphia, USA. Her research interests cover a variety of issues, both domestic and international, from resource use and decision making over time, to environmental and tax policy design, to behavioral economics. Specific to this project, she has written on the implications of multilateral trade agreements for the design and implementation of domestic environmental policies. She has also studied voluntary environmental policy mechanisms like ecolabels, the relationship between trade and invasive species management, and the role of trade in protecting endangered species. She has published widely in peer-reviewed journals and has also conducted policy analysis for the World Bank Group, the Asian Development Bank, and the Canadian National Round Table on the Environment and the Economy. Prior to her appointment at RFF, she served as a Staff Economist on the Council of Economic Advisors to the President during the Clinton Administration. She spent the fall of 2005

as a Fellow at the Norwegian Centre for Advanced Study, conducting research on climate and technology policies. She is also a Visiting Professor at Gothenburg University.



Håkan Eggert is a Researcher in Economics University of Gothenburg, Sweden. He earned his Ph.D. in Economics in 2001 with a thesis on problems related to commercial fisheries. The thesis work was part of the Mistra-funded program Sustainable Coastal Zone Management. Håkan Eggert has been actively in-

involved in developing an Environmental Social Science Masters Program at University of Gothenburg, and has served as Director of Studies and Chairman for this Programme. He has published papers on bioeconomics, risk, production, compliance and valuation, usually with a link to marine resources. He has also served as an advisor to the Swedish Environmental Protection Agency for the Commission on the Marine Environment appointed by the Swedish government and the public report Fishy Fishing: Decision-Making and Economic Performance in Swedish Fishery Policy, appointed by the Ministry of Finance.



Mads Greaker is affiliated with the Department of Economics, University of Gothenburg, Sweden, in a part-time capacity. Among other responsibilities, he coordinates the Master Course "Environmental Economics—International Issues," together with Håkan Eggert in which trade and the environ-

ment constitute a major part. Mads Greaker earned his Ph.D. in Economics from the University of Oslo in 2002. His thesis was on the relationship between industrial organization, international competitiveness and environmental regulations. He has published several papers on various aspects of the Porter-hypothesis, on eco-labeling and protectionism, as well as on the economics of climate change. He heads the research group for Petroleum and Environmental Economics at Statistics Norway in Oslo.



Mark Halle is the director of the International Institute for Sustainable Development's (IISD's) office in Europe, and also of its global programme on Trade and Investment. A dual citizen of the United States and Italy, he has spent the bulk of his career in international environmental affairs. He began

as a Programme Officer in the Policy Planning Unit of the United Nations Environment Programme, moving to the World Wildlife Fund International, responsible for its programme in China. He then helped to establish the Conservation for Development Centre in IUCN—the World Conservation Union—moving on to become, successively, the Director of Field Operations, the Director of Development, and finally the Director for Global Policy and Partnerships. He left IUCN in 1997 to set up the IISD Office in Europe. He is also the founder and first Chairman of the International Centre for Trade and Sustainable Development, and sits on a wide range of boards and advisory committees for trade-related organizations in Europe, Asia, Latin America and Australia. He frequently lectures and publishes on trade, investment and environmental issues.



Henrik Horn, Professor of International Economics, is since 2006 Senior Research Fellow at the Research Institute of Industrial Economics (IFN) in Stockholm. Horn is also a Non-Resident Senior Fellow at Bruegel, a Brussels-based think tank, and a Research Fellow in the International Trade and Industrial Organization Programs of the Centre for Economic Policy Research, London, and an Editorial Board member of the *Journal of World Trade* and the *World Trade Review*.

Horn has worked in various research areas, including International Economics, Industrial Organization, Labor Economics and Economics of Sports. For the past 15 years, Horn's research has mainly been focused on issues at the intersection between Economics and Law, and in particular economic and legal aspects of international integration agreements, such as the WTO and the EU, and competition and regulation issues. He was Chief Reporter (jointly with Petros C. Mavroidis) for the American Law Institute project *Principles of World Trade Law: The World Trade Organization*. He has served as a Judge in the Swedish Supreme Court for antitrust cases, and worked for four years in the Economic Research and Analysis Division of the WTO.



Petros C. Mavroidis is an Edwin B. Parker Professor of Law at Columbia Law School, New York, and Professor of Law at the University of Neuchâtel, Switzerland, as well as a Research Fellow at the Centre for Economic Policy Research (CEPR). He studied in Brussels and Berkeley before completing his Ph.D. thesis in Heidelberg, Germany.

He teaches Trade Law and has been visiting various institutions, including European University Institute (Florence) and Princeton University. Mavroidis was with the Legal Service of the GATT/WTO from 1992 through 1996, and has also worked for the OECD Trade and Competition Directorate. He has consulted for the European Commission, and the World Bank. His core interests are in the study of international trade, and he has published extensively in the area. He is, along with Henrik Horn, Chief Reporter for the American Law Institute (ALI) for the same long-term project described above. His current research is focused on dispute settlement in the WTO. Together with Horn, he recently prepared a comprehensive data set on the WTO dispute settlement system. He has been recently appointed full professor at EUI, Florence and will be on leave from Columbia Law School for the next five years, from 2011 until 2015.



Jason Potts is Senior Advisory to the Sustainable Markets and Responsible Trade (SMART) Program at the International Institute for Sustainable Development. Through his role at IISD Mr. Potts has led cutting edge research on the linkages between corporate social responsibility, sustainable supply

chain management and international trade policy, competition policy and commodity policy. Mr. Potts is Coordinator and co-founder of the Sustainable Commodity Initiative and Founding President of the Finance Alliance for Sustainable Trade (FAST). Prior to joining IISD, Mr. Potts worked with the Trade, Employment and Competitiveness Program at the International Development Research Centre, as well as the North American Commission for Environmental Cooperation's "Trade and Environment" Branch on issues at the nexus of trade, environment and international development. In addition to acting as a Director for FAST and Equiterre, Mr. Potts acts as an advisor to a host of multi-stakeholder and multi-lateral initiatives.



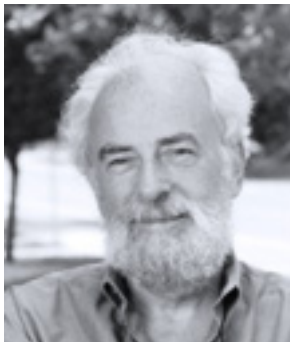
Mark Sanctuary is a Researcher and Project Manager at IVL Swedish Environmental Research Institute, and a researcher at The Beijer Institute of Ecological Economics. Mark is the program manager for ENTWINED and his current research interests focus mainly on environmental and international economics. At

IVL, Mark has led and managed several projects including a long-term initiative with the several Chinese government agencies on climate policy. Prior to IVL, Mark worked at the United Nations Environment Program's Economics and Trade Branch in Geneva. In this capacity, he managed and facilitated several international environmental research projects in cooperation with multilateral organizations such as the OECD and the World Bank and worked closely with several leading financial institutions including Swiss Re and Munich Re. Mark has a Master of Science in Economics from the Stockholm School of Economics and is expecting to finish his dissertation in economics in 2013 at Stockholm University.



Maria Kardborn is the Communications Manager for ENTWINED and works at IVL Swedish Environmental Research Institute at the department for Business Development and Marketing. Maria has previously worked as a Communication Specialist at Volvo Cars. Maria's educational background includes a bachelor's

degree in Media and Communication Science from the University of Gothenburg, project management from Skövde College and an education in Change Management at the University of Gothenburg.



Robert Wolfe is Professor in the School of Policy Studies at Queen's University in Kingston, Canada, and an IISD Associate in the Trade and Investment Program. He was a foreign service officer for many years, serving abroad in Dhaka, Bangladesh and in the Canadian Delegation to the Organization

for Economic Co-operation and Development in Paris. His Ottawa assignments included the International Economic Relations Division, the Uruguay Round negotiation team, and the G-7 Summit team. After completing a doctorate in Political Studies, he joined Queen's in 1995, where he teaches policy analysis and trade policy in the MPA program. He is a Director of the Queen's Annual Institute on Trade Policy, which offers training for mid-career professionals. Dr. Wolfe has published widely on trade policy and negotiations, and on international transparency mechanisms.

Programme Board

One of the important features of all Mistra research programmes is the appointment of a Programme Board. Through regular meetings with the research team, the Programme Board helps manage ENTWINED. This body is entrusted with responsibility for the direction of the programme.

ENTWINED's board members are:

- Lars Anell, Chair of ENTWINED's board, is currently chair of the Swedish Research Council and is a Senior Advisor at Global Challenge, an independent Swedish think tank.
- Catarina Hedlund is Deputy Director, International Trade Policy Affairs, Ministry of Foreign Affairs, Sweden.
- Lena Johansson is Director General at the National Board of Trade, Sweden.
- Bengt Kriström is Professor of Resource Economics and Research Director, CERE, SLU-Umeå and Umeå University, Sweden.
- Göran Nilsson is Vice President Special Projects, SCA Forest Products AB, Sweden.
- Anders Rune is Chief economist at the Association of Swedish Engineering Industries, and Managing Director Teknikföretagens Förlag AB, Sweden.

The research programme ENTWINED – Environment and Trade in a World of Interdependence – examines the interplay between the global trade regime and environmental policies promulgated by governments and private entities with a particular focus on the treatment of transboundary problems. ENTWINED is actively engaged with policy makers and other stakeholders to the Trade and Environment Debate.

The team includes researchers specializing in environmental and natural resource economics, international economics and trade law. The programme has its focus in Sweden, but engages leading experts in other locations, including Geneva, New York, Washington and Montreal. The ENTWINED programme is funded by the Swedish Foundation for Strategic Environmental Research, Mistra, see www.entwined.se