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#### Fondazione Eni Enrico Mattei

## **Bundling Biodiversity**

Geoffrey Heal

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## **Bundling Biodiversity**

#### **Summary**

Biodiversity provides essential services to human societies. Many of these services are provided as public goods, so that they will typically be underprovided both by market mechanisms (because of the impossibility of excluding non-payers from using the services) and by government-run systems (because of the free rider problem). I suggest here that in some cases the public goods provided by biodiversity conservation can be bundled with private goods and their value to consumers captured in the price realized by the private goods. This may lead to an efficient level of provision.

**Keywords**: Local public goods, bundling, price discrimination, monopoly, environment, urban development

**JEL**: H41, Q2, R41

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## Bundling Biodiversity \*

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## 1 Introduction

Biodiversity provides many services to human societies. It raises the productivity and resilience of ecosystems, both natural and human-managed, and enhances their capacity to provide services to us. It provides us with insurance against pathogen attacks on the crops that provide essential foodstuffs. And it provides us with knowledge of novel and potentially valuable molecular and genetic structures. The importance of these services is such that biologists doubt that humans could survive the loss of a really major fraction of the world's biodiversity. Myers [9], Ehrlich and Naylor [10] and Heal et all [8] provide information about the role of biodiversity in preventing pathogen attacks on agriculture. Heal [6] provides an overview of these issues from an

<sup>\*</sup>I am grateful to Karl-Goran Maler, Antonio Rangel and Marty Weitzman for valuable conversations on this topic. Participants in the environmental economics seminar at Stanford and the NBER Environmental Summer Workshop also contributed greatly to refining my ideas. Author's e-mail address gmh1@columbia.edu and URL www.gsb.columbia.edu/faculty/gheal/. This is based on a longer paper, "Bundling Public and Private Goods", which is available on my web site.

economic perspective, and the volume edited by Daily [5] gives a good impression of humanity's dependence on a multitude of species. The distinguished biologist E.O. Wilson summarized this by his memorable statement about small invertebrates - bugs in common parlance - "We need them and they don't need us".

From an economic perspective conserving biodiversity provides one very sharp challenge: many of the services provided by biodiversity are public goods. Knowledge, one of the most important goods that come from biodiversity, is the quintessential public good. By raising the productivity and resilience of ecosystems biodiversity provides a form of infrastructure, a metaphor that is pursued further in Heal [6]. Infrastructure services are usually public goods. As we are well aware, market economies do not normally work well for public goods. The inability of producers to exclude those who do not pay implies that the return to providing public goods is small, and the free rider problem also suggests that even in a non-market context governments will have difficulty in providing public goods at an efficient level. So the importance of biodiversity provides a challenge to economists: we need to invent mechanisms for conserving this at an economically efficient level in spite of the fact that it is providing a number of services that are public goods.

In fact the market has already done some of this job for us. There are a number of cases of entrepreneurs bundling private goods with public goods and in the process earning a reward to the provision of the public good, the presence of which increases the willingness of their clients to pay for the private goods that they sell. Ecotourism is an example that is relevant to biodiversity conservation. As I note in more detail below, in southern Africa it has often proven most profitable for ranchers to stop cattle ranching and restore their land to its natural state, with native vegetation and animals, so as to charge tourists for viewing the animals. In restoring the native flora and fauna they are providing a public good, biodiversity conservation, and this good is enhancing the willingness of tourists to pay to visit their land. So they capture some at least of the value of the public good in enhanced willingness to pay for the private good. In general there appear to be many aspects of tourism that are based on the use of public goods to enhance willingness to pay for private goods - beautiful scenery, cultural heritages, unique biodiversity and other generators of tourism all are public goods whose existence generates demand for private goods such as transportation, accommodation and food. In Heal [7] I cite some striking examples of housing development that also appear to be relying on the provision of public goods associated with the housing to enhance its value and the willingness of buyers to pay for it. Indeed the whole phenomenon of smart growth can be viewed in this light. All of these are examples of the bundling of public and private goods, and ecotourism is the one that corresponds most closely to the bundling of biodiversity with private goods.

In the balance of this paper I summarize a formal model of this phenomenon. A profit-maximizing firm provides a private good and also a public good that affects people's willingness to pay for the private good, as in the case of ecotourism cited

above. If this firm can price discriminate perfectly, and in some cases even if it cannot, then it will provide the public and private goods at levels that are Pareto efficient. So we identify a case in which the market can solve the problem of allocating public goods efficiently. The next section presents a simple version of the model, and subsequent sections develop this further. The final section considers briefly applications in the area of biodiversity conservation.

# 2 Monopoly, Price Discrimination & Bundling Public & Private Goods.

Consider a firm that produces a private good for sale to a group of buyers  $i \in N$  and also produces a public good that affects the welfare levels of these buyers.  $h_i$  is the amount of the private good sold to the i-th buyer and e is the provision of the public good, the same for all buyers. Buyer i has an income level of  $y_i$  and a utility function  $u_i$  ( $y_i$ ,  $h_i$ , e). The utility function  $u_i$  is assumed to be differentiable and strictly concave. Prior to any production occurring, buyers have initial endowments of the various arguments of their utility functions given by ( $y_{i0}$ ,  $h_{i0}$ ,  $e_0$ ).

Suppose that as a result of production the amounts of the private and public goods consumed by i change to  $(h_{i0} + \Delta h_i, e_0 + \Delta e)$ . The we define agent i's willingness to pay for this change as the value  $w_i$  that solves the equation

$$u_i(y_{i0}, h_{i0}, e_0) = u_i(y_{i0} - w_i, h_{i0} + \Delta h_i, e_0 + \Delta e)$$
(1)

It is the reduction in income that leaves the agent just as well off after the change as before, a standard definition (Varian [11]).

The producer faces a cost function  $c\left(\Delta h_1, ..., \Delta h_N, \Delta e\right)$  which is denominated in units of income y. The function c is differentiable and strictly convex, showing increasing marginal costs of providing both goods. I assume that the producer is profit-maximizing and is able to price discriminate fully, extracting from each buyer his or her willingness to pay for any combination of public and private goods. The problem facing the developer is therefore to choose  $\Delta h_i$  and  $\Delta e$  so as to maximize profits, given by

subject the constraints given by the definition of willingness to pay in (1). Profits here are the difference between total willingness to pay and total costs. If we simplify and assume that  $\partial c/\partial h_i = \partial c/\partial h \, \forall i$ , so that the cost of the private good does not depend on the identity of the buyer, then the first order conditions are

$$\frac{\partial c/\partial e}{\partial c/\partial h} = \frac{\mathsf{X}}{i} \frac{\partial u_i/\partial e}{\partial u_i/\partial h_i} \tag{2}$$

which are identical to the familiar characterization of the efficient provision of a public good, namely that the marginal rate of transformation should equal the sum of the marginal rates of substitution (for more details see Heal [7]). We thus have the following proposition:

**Proposition 1** If utility functions are strictly concave and the cost function strictly convex, then a profit-maximizing producer who provides a private and a public good and can practice first order price discrimination will provide an economically efficient combination of the public and private goods.

Even though there is no market for the public good, the fact that its extent affects the willingness to pay for private goods will ensure that it is provided efficiently, as long as this willingness to pay can be captured by those selling the private goods. In a competitive market for the private good this willingness to pay could not be captured by sellers, but would be dissipated by competition and would accrue to the buyers as consumer surplus. Some buyers might therefore be better off under competition but the allocation of resources to the public good would no longer be efficient. And of course a separate market for the pubic good would not reach an efficient level of provision because of the classical free rider problem.

#### 2.1 A Generalization

The explanation above makes it clear that the phenomenon formalized in proposition 1 is in fact more general that the context in which it is presented. It depends only on the fact that there is a good for which there is no market. In the absence of this market the producer has the power to improve the consumer's welfare via adjustments to the output mix as well as via the total amount of the private good placed on the market, and can charge for this. Similar results will therefore hold whenever there are unmarketed goods provided by a supplier of private goods who can price discriminate. We can formulate a more general result as follows.

Let the utility function be  $u_i(y_i, g_i^m, x, x_i)$  where as before  $y_i$  is a measure of income or wealth,  $g_i^m$  is a vector of goods provided by a discriminating monopolist, x is a vector of public goods for which there are no markets and  $x_i$  is a vector of private goods consumed by agent i for which there are also no markets. As an illustration, components of  $x_i$  might be person-specific externalities or endowments of goods for which there is no market. As before we define an initial position  $u_i(y_{i0}, g_{i0}^c, g_{i0}^m, x_0, x_{i0})$  and a change from this

$$u_i (y_{i0} - w_i, g_{i0}^m + \Delta g_i^m, x_0 + \Delta x, x_{i0} + \Delta x_i)$$

and define willingness to pay as the value of  $w_i$  that satisfies

$$u_i(y_{i0}, g_{i0}^c, g_{i0}^m, x_0, x_{i0}) = u_i(y_{i0} - w_i, g_{i0}^m + \Delta g_i^m, x_0 + \Delta x, x_{i0} + \Delta x_i)$$

Here we are allowing possible changes in all arguments of the utility function: the change in income is of course a proxy for changes in the consumption of other goods. A monopolistic supplier of the goods  $g_i$ , x and  $x_i$  chooses the variations in these from the initial endowments so as to maximize his profits subject to his revenues being the total of willingness to pay and costs being given by a cost function:

$$\max \quad \times \quad w_i - c\left(\Delta x, \Delta x_1..\Delta x_N, \Delta g_1^m, ..., \Delta g_N^m, \right)$$

subject to

$$u_i(y_{i0}, g_{i0}^c, g_{i0}^m, x_0, x_{i0}) = u_i(y_{i0} - w_i, g_{i0}^m + \Delta g_i^m, x_0 + \Delta x, x_{i0} + \Delta x_i)$$

Here we can prove the following:

**Proposition 2** Assume that utility functions are strictly concave and the cost function strictly convex. A profit-maximizing firm has a monopoly over the supply of a set of private goods and also determines the supplies of public goods and non-traded private goods, all of which enter agents' utility functions. If this firm price discriminates, then the resulting allocation of resources will be Pareto efficient.

## 3 Discrete Choices

So far we have assumed the scale of the scale of the public good to be a continuous variable. In many cases, including environmental cases, this is not so: a site is either preserved or developed, a species preserved or not, etc. Both conservation and development may have to occur at a minimum viable scale if they are to occur at all, forcing a choice of one or the other. In an example to be discussed below, farmers in southern Africa can either use their land for cattle ranching or for game ranching (populating it with native flora and fauna) but cannot do both. The cattle eat the local vegetation and the local carnivores eat the cattle, so farmers have to choose one or the other. In this discrete choice case all of the above results carry over, and there is an interesting extension to second best cases in which not all willingness to pay can be extracted by the seller.

Assume now that the public good is either provided, P, or not, N, and that there are no other options. Everything else is as in the model of section 2. If the developer chooses P and private goods  $\Delta h_i$  then agent i's willingness to pay is given by

$$u_i(y_{i0}, h_{i0}, e_0) = u_i(y_{i0} - w_i, h_{i0} + \Delta h_i, P)$$

which we denote  $w_i(h_i, \Delta h_i, P)$ . Otherwise it is  $w_i(h_i, \Delta h_i, N)$ . The developer maximizes profits by finding the most profitable strategy conditional on choosing P, then doing the same conditional on choosing N, and then choosing the overall maximum.

Formally the first stage of the problem is

$$\max_{h_i} w_i (h_i, \Delta h_i, P) - c (\Delta h_1, ..., \Delta h_N, P)$$
(3)

where  $c(\Delta h_1, ..., \Delta h_N, P)$  is the cost of the vector  $\Delta h_1, ..., \Delta h_N$  given the decision to provide the public good. Let  $\Pi(P)$  be the profit that results from solving this problem and  $\Delta h^*(P)$  be a vector giving the maximizing choice of production of the private good. Using the obvious extension of this notation, finding the best strategy conditional on choosing N involves solving

$$\max_{h_i} \underset{i}{\text{w}_i (h_i, \Delta h_i, N) - c(\Delta h_1, ..., \Delta h_N, N)}$$
(4)

and we denote the resulting profits and strategies by  $\Pi(N)$  and  $\Delta h^*(N)$ . Clearly the producer will choose P rather than N if and only if  $\Pi(P) \geq \Pi(N)$  and in this case will implement  $\Delta h^*(P)$ .

We can readily show once again that the socially optimal choice satisfies the same inequalities as the most profitable choice, so that we have an extension of the earlier results: the profit-maximizing private producer who price discriminates fully will choose a level of public good provision that is socially optimal. The discreteness of the choice makes no difference.

## 4 Global Public Goods

In fact in some ways having discrete choices strengthens the results. We can use the results on provision of public goods involving discrete choices to extend the analysis of earlier sections to a more general class of situations, situations in which the provider of the public good cannot hope to capture all of the population's willingness to pay for this. This could happen for several reasons, the most obvious of which is that the good is valued by people who are not in a position to buy the private good. These are the classic cases of existence value, value attributed to a good by those who will never use it. Biodiversity conservation, to be discussed more below, provides a good illustration: landowners may gain from conserving rare species and charging ecotourists for viewing them, but there will generally be many who value the existence of these species yet are not in a position to view them. Landowners will be unable to tap their willingness to pay. Another possibility is that it is the producer's inability to price discriminate fully that prevents him from appropriating all of the value created by providing the public good. He may have no mechanism for obtaining information on willingness to pay.

Suppose that for either of these reasons, or for others, the producer can appropriate only a fraction  $\alpha \in (0,1)$  of the population's willingness to pay for the bundle of public and private goods. Then using the model and notation above the

profits from provision and non-provision, given previously by (3) and (4), now become respectively  $\max \alpha = w_i(h_i, P) - c(\Delta h_1, ..., \Delta h_N, P)$  and  $\max \alpha = w_i(h_i, N) - c(\Delta h_1, ..., \Delta h_N, N)$ . So the decision to provide turns on the inequality

$$\max_{i} \alpha \underset{i}{\overset{\mathsf{X}}{=}} w_{i}\left(h_{i}, P\right) - c\left(\Delta h_{1}, ..., \Delta h_{N}, P\right) \leqslant \max_{i} \alpha \underset{i}{\overset{\mathsf{X}}{=}} w_{i}\left(h_{i}, N\right) - c\left(\Delta h_{1}, ..., \Delta h_{N}, N\right)$$

Clearly if

$$\max_{i} \begin{array}{c} \times \\ \max \end{array} \begin{array}{c} \times \\ w_{i}\left(h_{i},P\right) - \max_{i} \end{array} \begin{array}{c} \times \\ w_{i}\left(h_{i},N\right) > c\left(\Delta h_{1},...,\Delta h_{N},P\right) - c\left(\Delta h_{1},...,\Delta h_{N},N\right) \end{array}$$

so that provision is most profitable when all willingness to pay is captured, and so is socially optimal, then for some  $1 > \alpha^*$  it is still true that for  $\alpha > \alpha^*$ 

$$\begin{array}{ccc}
\tilde{A} & \times & ! \\
\alpha & \max & w_i(h_i, P) - \max & w_i(h_i, N) & > c(\Delta h_1, ..., \Delta h_N, P) - c(\Delta h_1, ..., \Delta h_N, N)
\end{array}$$

So in spite of the inability to appropriate the full willingness to pay, the developer's optimal strategy still coincides with the socially optimal choice, provided that a sufficiently large fraction of willingness to pay is captured.

## 5 Illustrations

Eco-tourism provides an important environmental context for this phenomenon. In southern Africa it has often proven most profitable for farmers to stop farming and restore their land to its natural state, with native biodiversity, so as to charge tour managers for bringing tourists to view the animals. The extent to which this has happened has taken many conservationists by surprise, to the extent that about 18% of the land area of the southern third of Africa (South Africa, Namibia, Botswana, Zimbabwe, Tanzania, Mozambique and Angola) is now given over to "game ranching", as this is called. In Zimbabwe the land devoted to conservation has increased nine fold in the last quarter of a century. (Heal [6], Bond [1], Cumming [2], [3], Cumming and Bond [4]) The impact of this profit-oriented development on conservation has been far-reaching and positive, with the populations of many species rebounding from threatened levels. The game ranchers are providing public goods, the conservation of species, and are "bundling" these with private goods, accommodation and tour guiding. In many cases they are local monopolists and can probably price discriminate. These cases may be an important illustration of the last version of our results, in that they involve discrete choices between conservation and development and are clearly situations where the continuation of species via habitat conservation is of value to many people who will never visit the sites as paying tourists. Only a fraction of the world's willingness to pay can be appropriated, but this appears to be sufficient to ensure conservation.

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NRM	46.2001	Mutasem EL-FADEL and E. BOU-ZEID (xlvii): Climate Change and Water Resources in the Middle East: Vulnerability, Socio-Economic Impacts and Adaptation					
NRM	47.2001	Eva IGLESIAS, Alberto GARRIDO and Almudena GOMEZ (xlvii): An Economic Drought Management Index to Evaluate Water Institutions' Performance Under Uncertainty and Climate Change					
CLIM	48.2001	Wietze LISE and Richard S.J. TOL (xlvii): Impact of Climate on Tourist Demand					
CLIM	49.2001	Francesco BOSELLO, Barbara BUCHNER, Carlo CARRARO and Davide RAGGI: Can Equity Enhance Efficiency? Lessons from the Kyoto Protocol					
SUST	50.2001	Roberto ROSON (xlviii): Carbon Leakage in a Small Open Economy with Capital Mobility					
SUST	51.2001	Edwin WOERDMAN (xlviii): <u>Developing a European Carbon Trading Market: Will Permit Allocation Distort Competition and Lead to State Aid?</u>					
		COMPENSION AND LEAD TO STATE AND!					
SUST	52.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept					
SUST	53.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe					
SUST SUST	53.2001 54.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment					
SUST SUST SUST	53.2001 54.2001 55.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign Direct Investment					
SUST SUST SUST	53.2001 54.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept  Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe  Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment  M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign  Direct Investment  Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International  Competitiveness? Some New Theoretical Insights					
SUST SUST SUST	53.2001 54.2001 55.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept  Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe  Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment  M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign  Direct Investment  Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International  Competitiveness? Some New Theoretical Insights  Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade:					
SUST SUST SUST	53.2001 54.2001 55.2001 56.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept  Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe  Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment  M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign  Direct Investment  Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International  Competitiveness? Some New Theoretical Insights  Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade:  Estimating the "Environmental Load Displacement" of Industrialised Countries  Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the					
SUST SUST SUST SUST SUST	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept  Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe  Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment  M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign  Direct Investment  Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International  Competitiveness? Some New Theoretical Insights  Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade:  Estimating the "Environmental Load Displacement" of Industrialised Countries  Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the  Environmental Restoration of Central and Eastern Europe					
SUST SUST SUST SUST SUST SUST	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001 59.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept  Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe  Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment  M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign  Direct Investment  Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International  Competitiveness? Some New Theoretical Insights  Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade:  Estimating the "Environmental Load Displacement" of Industrialised Countries  Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the  Environmental Restoration of Central and Eastern Europe  Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the  Environmental Dimensions of Eastern Enlargement, in particular for Poland					
SUST SUST SUST SUST SUST	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept  Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe  Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment  M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign  Direct Investment  Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International  Competitiveness? Some New Theoretical Insights  Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade:  Estimating the "Environmental Load Displacement" of Industrialised Countries  Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the  Environmental Restoration of Central and Eastern Europe  Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the  Environmental Dimensions of Eastern Enlargement, in particular for Poland  Carlo CARRARO, Alessandra POME and Domenico SINISCALCO (xlix): Science vs. Profit in Research:  Lessons from the Human Genome Project					
SUST SUST SUST SUST SUST SUST	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001 59.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept  Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe  Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment  M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign  Direct Investment  Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International  Competitiveness? Some New Theoretical Insights  Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade:  Estimating the "Environmental Load Displacement" of Industrialised Countries  Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the  Environmental Restoration of Central and Eastern Europe  Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the  Environmental Dimensions of Eastern Enlargement, in particular for Poland  Carlo CARRARO, Alessandra POME and Domenico SINISCALCO (xlix): Science vs. Profit in Research:  Lessons from the Human Genome Project  Efrem CASTELNUOVO, Michele MORETTO and Sergio VERGALLI: Global Warming, Uncertainty and					
SUST SUST SUST SUST SUST SUST ETA	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001 59.2001 60.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept  Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe  Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment  M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign  Direct Investment  Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International  Competitiveness? Some New Theoretical Insights  Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade:  Estimating the "Environmental Load Displacement" of Industrialised Countries  Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the  Environmental Restoration of Central and Eastern Europe  Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the  Environmental Dimensions of Eastern Enlargement, in particular for Poland  Carlo CARRARO, Alessandra POME and Domenico SINISCALCO (xlix): Science vs. Profit in Research:  Lessons from the Human Genome Project  Efrem CASTELNUOVO, Michele MORETTO and Sergio VERGALLI: Global Warming, Uncertainty and  Endogenous Technical Change: Implications for Kyoto  Gian Luigi ALBANO, Fabrizio GERMANO and Stefano LOVO: On Some Collusive and Signaling Equilibria in					
SUST SUST SUST SUST SUST SUST ETA CLIM	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001 59.2001 60.2001 61.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign Direct Investment Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International Competitiveness? Some New Theoretical Insights Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade: Estimating the "Environmental Load Displacement" of Industrialised Countries Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the Environmental Restoration of Central and Eastern Europe Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the Environmental Dimensions of Eastern Enlargement, in particular for Poland Carlo CARRARO, Alessandra POME and Domenico SINISCALCO (xlix): Science vs. Profit in Research: Lessons from the Human Genome Project Efrem CASTELNUOVO, Michele MORETTO and Sergio VERGALLI: Global Warming, Uncertainty and Endogenous Technical Change: Implications for Kyoto Gian Luigi ALBANO, Fabrizio GERMANO and Stefano LOVO: On Some Collusive and Signaling Equilibria in Ascending Auctions for Multiple Objects Elbert DIJKGRAAF and Herman R.J. VOLLEBERGH: A Note on Testing for Environmental Kuznets Curves					
SUST SUST SUST SUST SUST SUST ETA CLIM PRIV	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001 59.2001 60.2001 61.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign Direct Investment Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International Competitiveness? Some New Theoretical Insights Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade: Estimating the "Environmental Load Displacement" of Industrialised Countries Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the Environmental Restoration of Central and Eastern Europe Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the Environmental Dimensions of Eastern Enlargement, in particular for Poland Carlo CARRARO, Alessandra POME and Domenico SINISCALCO (xlix): Science vs. Profit in Research: Lessons from the Human Genome Project Efrem CASTELNUOVO, Michele MORETTO and Sergio VERGALLI: Global Warming, Uncertainty and Endogenous Technical Change: Implications for Kyoto Gian Luigi ALBANO, Fabrizio GERMANO and Stefano LOVO: On Some Collusive and Signaling Equilibria in Ascending Auctions for Multiple Objects					
SUST SUST SUST SUST SUST SUST ETA CLIM PRIV CLIM	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001 59.2001 60.2001 62.2001 63.2001 64.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign Direct Investment Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International Competitiveness? Some New Theoretical Insights Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade: Estimating the "Environmental Load Displacement" of Industrialised Countries Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the Environmental Restoration of Central and Eastern Europe Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the Environmental Dimensions of Eastern Enlargement, in particular for Poland Carlo CARRARO, Alessandra POME and Domenico SINISCALCO (xlix): Science vs. Profit in Research: Lessons from the Human Genome Project Efrem CASTELNUOVO, Michele MORETTO and Sergio VERGALLI: Global Warming, Uncertainty and Endogenous Technical Change: Implications for Kyoto Gian Luigi ALBANO, Fabrizio GERMANO and Stefano LOVO: On Some Collusive and Signaling Equilibria in Ascending Auctions for Multiple Objects Elbert DIJKGRAAF and Herman R.J. VOLLEBERGH: A Note on Testing for Environmental Kuznets Curves with Panel Data Paolo BUONANNO, Carlo CARRARO and Marzio GALEOTTI: Endogenous Induced Technical Change and the Costs of Kyoto					
SUST SUST SUST SUST SUST SUST ETA CLIM PRIV CLIM CLIM	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001 59.2001 60.2001 61.2001 62.2001 64.2001 65.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign Direct Investment Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International Competitiveness? Some New Theoretical Insights Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade: Estimating the "Environmental Load Displacement" of Industrialised Countries Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the Environmental Restoration of Central and Eastern Europe Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the Environmental Dimensions of Eastern Enlargement, in particular for Poland Carlo CARRARO, Alessandra POME and Domenico SINISCALCO (xlix): Science vs. Profit in Research: Lessons from the Human Genome Project Efrem CASTELNUOVO, Michele MORETTO and Sergio VERGALLI: Global Warming, Uncertainty and Endogenous Technical Change: Implications for Kyoto Gian Luigi AlbANO, Fabrizio GERMANO and Stefano LOVO: On Some Collusive and Signaling Equilibria in Ascending Auctions for Multiple Objects Elbert DIJKGRAAF and Herman R.J. VOLLEBERGH: A Note on Testing for Environmental Kuznets Curves with Panel Data Paolo BUONANNO, Carlo CARRARO and Marzio GALEOTTI: Endogenous Induced Technical Change and the Costs of Kyoto Guido CAZZAVILLAN and Ignazio MUSU (1): Transitional Dynamics and Uniqueness of the Balanced-Growth Path in a Simple Model of Endogenous Growth with an Environmental Asset					
SUST SUST SUST SUST SUST SUST ETA CLIM PRIV CLIM	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001 59.2001 60.2001 62.2001 63.2001 64.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign Direct Investment Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International Competitiveness? Some New Theoretical Insights Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade; Estimating the "Environmental Load Displacement" of Industrialised Countries Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the Environmental Restoration of Central and Eastern Europe Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the Environmental Dimensions of Eastern Enlargement, in particular for Poland Carlo CARRARO, Alessandra POME and Domenico SINISCALCO (xlix): Science vs. Profit in Research: Lessons from the Human Genome Project Efrem CASTELNUOVO, Michele MORETTO and Sergio VERGALLI: Global Warming, Uncertainty and Endogenous Technical Change: Implications for Kyoto Gian Luigi ALBANO, Fabrizio GERMANO and Stefano LOVO: On Some Collusive and Signaling Equilibria in Ascending Auctions for Multiple Objects Elbert DIJKGRAAF and Herman R.J. VOLLEBERGH: A Note on Testing for Environmental Kuznets Curves with Panel Data Paolo BUONANNO, Carlo CARRARO and Marzio GALEOTTI: Endogenous Induced Technical Change and the Costs of Kyoto Guido CAZZAVILLAN and Ignazio MUSU (1): Transitional Dynamics and Uniqueness of the Balanced-Growth Path in a Simple Model of Endogenous Growth with an Environmental Asset Giovanni BAIOCCHI and Salvatore DI FALCO (1): Investigating the Shape of the EKC: A Nonparametric					
SUST SUST SUST SUST SUST SUST ETA CLIM PRIV CLIM CLIM	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001 59.2001 60.2001 61.2001 62.2001 64.2001 65.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign Direct Investment Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International Competitiveness? Some New Theoretical Insights Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade: Estimating the "Environmental Load Displacement" of Industrialised Countries Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the Environmental Restoration of Central and Eastern Europe Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the Environmental Dimensions of Eastern Enlargement, in particular for Poland Carlo CARRARO, Alessandra POME and Domenico SINISCALCO (xlix): Science vs. Profit in Research: Lessons from the Human Genome Project Efrem CASTELNUOVO, Michele MORETTO and Sergio VERGALLI: Global Warming, Uncertainty and Endogenous Technical Change: Implications for Kyoto Gian Luigi ALBANO, Fabrizio GERMANO and Stefano LOVO: On Some Collusive and Signaling Equilibria in Ascending Auctions for Multiple Objects Elbert DIJKGRAAF and Herman R.J. VOLLEBERGH: A Note on Testing for Environmental Kuznets Curves with Panel Data Paolo BUONANNO, Carlo CARRARO and Marzio GALEOTTI: Endogenous Induced Technical Change and the Costs of Kyoto Guido CAZZAVILLAN and Ignazio MUSU (1): Transitional Dynamics and Uniqueness of the Balanced-Growth Path in a Simple Model of Endogenous Growth with an Environmental Asset Giovanni BAIOCCHI and Salvatore DI FALCO (1): Investigating the Shape of the EKC: A Nonparametric Approach					
SUST SUST SUST SUST SUST SUST ETA CLIM PRIV CLIM CLIM CLIM	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001 59.2001 60.2001 62.2001 63.2001 64.2001 65.2001 66.2001	Richard N. COOPER (xlviii): The Kvoto Protocol: A Flawed Concept Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign Direct Investment Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International Competitiveness? Some New Theoretical Insights Roldan MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade: Estimating the "Environmental Load Displacement" of Industrialised Countries Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the Environmental Restoration of Central and Eastern Europe Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the Environmental Dimensions of Eastern Enlargement, in particular for Poland Carlo CARRARO, Alessandra POME and Domenico SINISCALCO (xlix): Science vs. Profit in Research; Lessons from the Human Genome Project Effrem CASTELNUOVO, Michele MORETTO and Sergio VERGALLI: Global Warming, Uncertainty and Endogenous Technical Change: Implications for Kyoto Gian Luigi ALBANO, Fabrizio GERMANO and Stefano LOVO: On Some Collusive and Signaling Equilibria in Ascending Auctions for Multiple Objects Elbert DIJKGRAAF and Herman R.J. VOLLEBERGH: A Note on Testing for Environmental Kuznets Curves with Panel Data Paolo BUONANNO, Carlo CARRARO and Marzio GALEOTTI: Endogenous Induced Technical Change and the Costs of Kyoto Guido CAZZAVILLAN and Ignazio MUSU (1): Transitional Dynamics and Uniqueness of the Balanced-Growth Path in a Simple Model of Endogenous Growth with an Environmental Asset Giovanni BAIOCCHI and Salvatore DI FALCO (1): Investigating the Shape of the EKC: A Nonparametric Approach Marzio GALEOTTI, Alessandro LANZA and Francesco PAULI (1): Desperately Seeking (Environmental) Kuz					
SUST SUST SUST SUST SUST SUST SUST ETA CLIM PRIV CLIM CLIM CLIM CLIM CLIM	53.2001 54.2001 55.2001 56.2001 57.2001 58.2001 59.2001 60.2001 61.2001 62.2001 64.2001 65.2001 66.2001 67.2001	Richard N. COOPER (xlviii): The Kyoto Protocol: A Flawed Concept Kari KANGAS (xlviii): Trade Liberalisation, Changing Forest Management and Roundwood Trade in Europe Xueqin ZHU and Ekko VAN IERLAND (xlviii): Effects of the Enlargement of EU on Trade and the Environment M. Ozgur KAYALICA and Sajal LAHIRI (xlviii): Strategic Environmental Policies in the Presence of Foreign Direct Investment Savas ALPAY (xlviii): Can Environmental Regulations be Compatible with Higher International Competitiveness? Some New Theoretical Insights Roldam MURADIAN, Martin O'CONNOR, Joan MARTINEZ-ALER (xlviii): Embodied Pollution in Trade: Estimating the "Environmental Load Displacement" of Industrialised Countries Matthew R. AUER and Rafael REUVENY (xlviii): Foreign Aid and Direct Investment: Key Players in the Environmental Restoration of Central and Eastern Europe Onno J. KUIK and Frans H. OOSTERHUIS (xlviii): Lessons from the Southern Enlargement of the EU for the Environmental Dimensions of Eastern Enlargement, in particular for Poland Carlo CARRARO, Alessandra POME and Domenico SINISCALCO (xlix): Science vs. Profit in Research: Lessons from the Human Genome Project Efrem CASTELNUOVO, Michele MORETTO and Sergio VERGALLI: Global Warming, Uncertainty and Endogenous Technical Change: Implications for Kyoto Gian Luigi ALBANO, Fabrizio GERMANO and Stefano LOVO: On Some Collusive and Signaling Equilibria in Ascending Auctions for Multiple Objects Elbert DIJKGRAAF and Herman R.J. VOLLEBERGH: A Note on Testing for Environmental Kuznets Curves with Panel Data Paolo BUONANNO, Carlo CARRARO and Marzio GALEOTTI: Endogenous Induced Technical Change and the Costs of Kyoto Guido CAZZAVILLAN and Ignazio MUSU (1): Transitional Dynamics and Uniqueness of the Balanced-Growth Path in a Simple Model of Endogenous Growth with an Environmental Asset Giovanni BAIOCCHI and Salvatore DI FALCO (1): Investigating the Shape of the EKC: A Nonparametric Approach					

NRM	70.2001	Lee J. ALSTON, Gary D. LIBECAP and Bernardo MUELLER (li): Land Reform Policies, The Sources of Violent Conflict and Implications for Deforestation in the Brazilian Amazon
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		under Increasing-Block Prices					
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LIII	13.2002	\					
		Policymaking with Multiple Instruments					
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(xlvi) This paper was presented at the Sixth Meeting of the Coalition Theory Network organised by the Fondazione Eni Enrico Mattei and the CORE, Université Catholique de Louvain, Louvain-la-Neuve, Belgium, January 26-27, 2001

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