

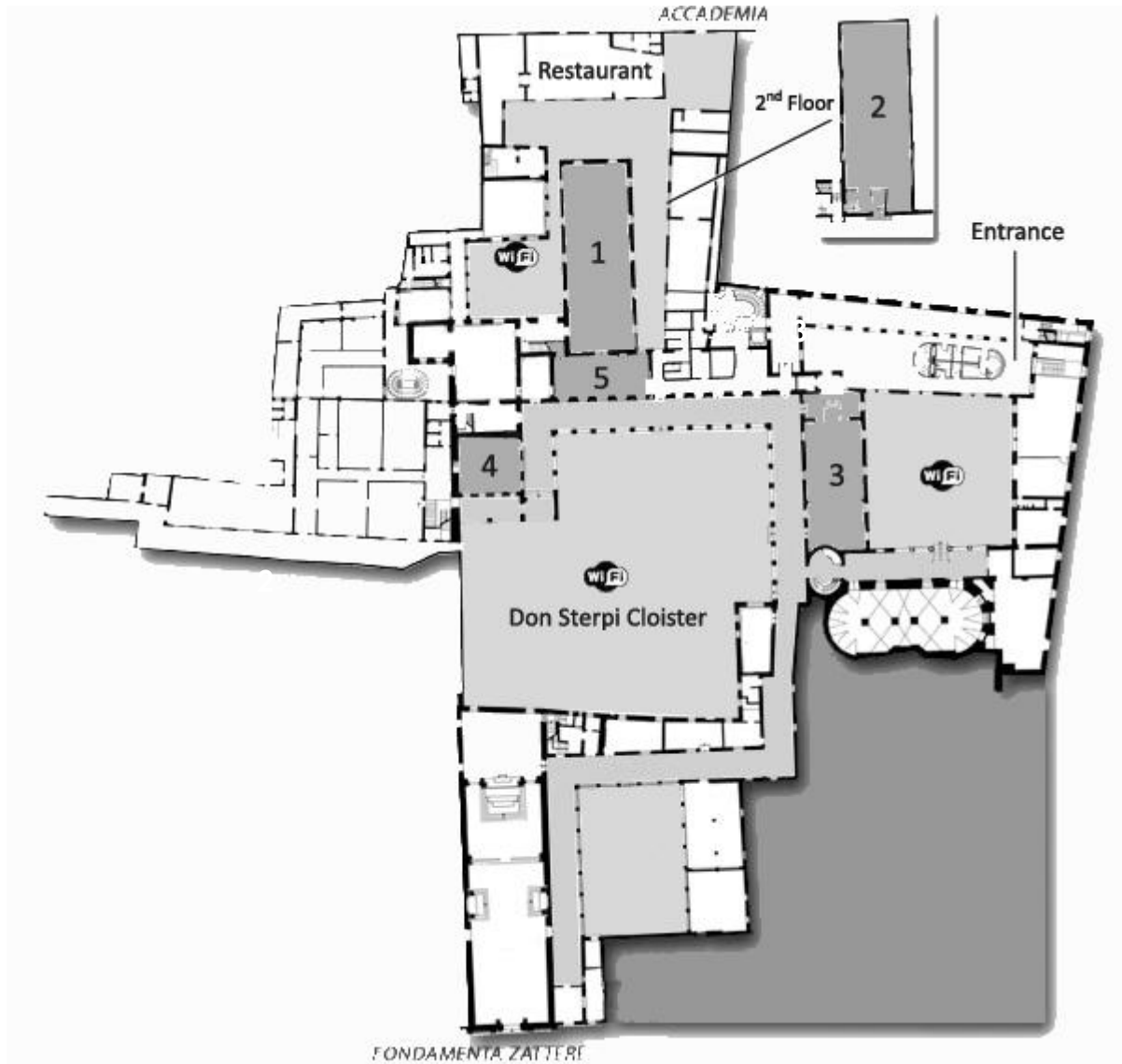


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Map of the Conference Venue



1. AULA MAGNA
2. SALA GOLDONI (2nd floor)
3. SALA VIVALDI
4. SALA CANOVA
5. AULA MAGNA FOYER



Welcome Letter

Welcome to the 12th Annual BIOECON Conference "From the Wealth of Nations to the Wealth of Nature: Rethinking Economic Growth" hosted by Fondazione Eni Enrico Mattei in association with the Basque Centre for Climate Change, Conservation International, the International Union for Conservation of Nature, and the United Nations Environment Programme.

As we all know, The United Nations proclaimed 2010 to be the International Year of Biodiversity, and people all over the world are working to safeguard this irreplaceable natural wealth and reduce biodiversity loss. This year the Conference is focused on the role of ecosystems and their contribution to economic growth. Today, more than ever, it is widely recognized that biodiversity and ecosystems provide services of great economic value to humans. But the way in which we organize our economic activities and manage ecosystems does not often reflect this. In this conference we will present papers that explore the economic contributions of ecosystems and biodiversity protection, shedding light on the current institutional arrangements and economic organizations that do not effectively safeguard their value. Ecosystems and biodiversity are vital for current and future human wellbeing. We need to do more to protect them. As you will see from the programme book, each day is organized in plenary and parallel sessions ending with a panel discussion. This year, we will have two keynote lectures, one by professor Geoffrey Heal on "Sustainability, Nature's Services and Economic Progress", and the other by dr. Joshua Bishop on "The Economics of Ecosystems and Biodiversity (TEEB) Report for Business". Two specially-focused plenary panel discussions are also scheduled. The first will be focused on the theme of "Bringing science to action: insights from conservation practitioners," chaired by Conservation International. The second, focused on "Innovative participatory methods on valuation: a social take on biodiversity values", will be chaired by Fondazione Eni Enrico Mattei. We will also have a round table devoted to "The Inclusive Wealth Report", organized by the United Nations Environment Programme specially for this occasion. Apart from the usual work activity, and the productive results of the meeting, we hope that this Conference will be an occasion to establish links, partnerships and collaborations, which are always so vital in the scientific community.

We sincerely hope you will enjoy both the 12th Annual BIOECON Conference and your stay in Venice. The venue of the meeting, the Centro Culturale Don Orione Artigianelli, is an ancient monastery located just in the heart of the city, where you can have a fantastic view of the Giudecca Canal and start your own city tour comfortably.

Wishing you all a very happy stay and hoping that the 12th Annual BIOECON Conference will be a great success, we would like to extend our thanks to all BIOECON partners and to those who have generously contributed to this Conference.

Paulo A.L.D. Nunes and the Organising Committee



General Information

PRESENTATION INFORMATION

Please bring your presentation file in a USB memory stick and save it also in a .pdf version as back-up. Each presenter must load his/her file in the computer which is in the assigned presentation room. The time slot allowed to each presenter is 30 minutes, which includes 20 minutes of presentation plus 5 minutes of talk by the discussant and 5 minutes of general discussion and questions from the audience. The last speaker of each session is also its moderator.

COFFEE BREAKS AND LUNCHES

Coffee breaks will be served in the Don Sterpi Cloister (see map on page 2).
Lunches will be served in the San Trovaso Restaurant (see map on page 2).
Please see the Programme Overview for the daily coffee break and lunch schedule.

INTERNET

A wireless Internet connection is available in the Conference rooms inside the Centro Culturale Don Orione Artigianelli and the cost is € 12 for the duration of the conference. Get your personal username and password from the Reception of the Centro Culturale Don Orione Artigianelli. As per the Italian law you will be asked to provide a copy of your ID card or passport.

REGISTRATION AND INFORMATION DESK

The Registration and Information Desk is located in the Aula Magna Foyer (see map on page 2). The Conference Secretariat will be pleased to provide the following services:

- general Conference information;
- your Conference package;
- transport and tourist information.



About BIOECON

BIOdiversity and Economics for CONservation (BIOECON) is an interdisciplinary network aiming to advance economic theory and policy for biodiversity conservation. BIOECON assembles economists, lawyers and scientists from leading European academic and research institutions and main European policy organisations working on design and implementation of cutting edge economic incentives for biodiversity conservation.

The network is the outgrowth of a project supported by the European Commission under the Fifth Framework Programme contributing to the implementation of Key Action 2: Global Change, Climate and Biodiversity within the Energy, Environment and Sustainable Development Programme. Fourteen academic and research institutions co-operate in the project headed by the University College of London. Prominent policy organisations also collaborate with the Network to the enhancement of its activities.

The principal aim of BIOECON is to investigate the economic and policy driven forces responsible for decline of biodiversity, and accordingly, to develop and implement tools, i.e. incentive mechanisms, that could halt if not reverse the effects of these forces.

If the objectives of the BIOECON project were to assess, systematise and agree the social science of incentive design for biodiversity conservation at the local, national and global levels, the aims of the derived BIOECON network are: (i) to utilise a multidisciplinary approach to assess the social forces behind biodiversity change; (ii) to assess the ecological and socio-economic consequences of this change, (iii) to comprehend the interplay of these consequences; and (iv) to provide concrete policy responses for addressing biodiversity change. These overarching aims are pursued via individual projects on all three levels of biodiversity, namely the genetic, species, and ecosystem level.



Programme Overview

SUNDAY 26 September 2010

18.30 – 19.30 REGISTRATION AND WELCOME COCKTAIL

MONDAY 27 September 2010

08.30 - 08.45 REGISTRATION
08.45 - 09.00 WELCOME ADDRESS
09.00 - 10.30 PLENARY SESSION I
10.30 - 11.00 COFFEE BREAK
11.00 - 13.00 PARALLEL SESSIONS A1 – A 4
13.00 - 14.00 LUNCH
14.00 - 15.30 PARALLEL SESSIONS B1 – B4
15.30 - 16.00 COFFEE BREAK
16.00 - 17.30 PARALLEL SESSIONS C1 – C4
17.30 - 18.30 PLENARY DISCUSSION PANEL I
18.30 - 19.15 UNEP ROUND TABLE
20.30 CONFERENCE SOCIAL DINNER

TUESDAY 28 September 2010

09.00 - 10.30 PLENARY SESSION II
10.30 - 11.00 COFFEE BREAK
11.00 - 13.00 PARALLEL SESSIONS D1 - D4
13.00 - 14.00 LUNCH
14.00 - 15.30 PARALLEL SESSIONS E1 – E4
15.30 - 16.00 COFFEE BREAK
16.00 - 17.30 PARALLEL SESSIONS F1 – F4
17.30 - 18.30 PLENARY DISCUSSION PANEL II



Detailed Programme

SUNDAY 26 September 2010

18.30 – 19.30 REGISTRATION AND WELCOME COCKTAIL, Don Sterpi Cloister

MONDAY 27 September 2010

08.30 - 08.45 REGISTRATION, Aula Magna Foyer

08.45 – 09.00 WELCOME ADDRESS AULA MAGNA

Carlo CARRARO, Ca' Foscari University of Venice and Fondazione Eni Enrico Mattei, Italy
Timothy SWANSON, The Graduate Institute- Geneva, Switzerland

09.00 - 10.30 PLENARY SESSION I AULA MAGNA

Chair: Paulo A.L.D. Nunes

Sustainability, nature's services and economic progress
Geoffrey HEAL, Columbia Business School, USA

10.30 - 11.00 COFFEE BREAK, Don Sterpi Cloister

11.00 - 13.00 PARALLEL SESSIONS A1 - A4

11:00-13:00 PARALLEL SESSION A1 AULA MAGNA

Chair: Timothy Swanson

Jonah BUSCH, Conservation International, USA
Mechanisms for increasing the biodiversity benefit of reducing emissions from deforestation
Discussant: Timothy Swanson

Rafat ALAM, Grant MacEwan University, Canada
Species conservation with green consumerism
Discussant: Helen Ding

Helen DING, Fondazione Eni Enrico Mattei, Italy
Modeling climate change and biodiversity effects on the value of ecosystem goods and services:
an empirical investigation on the European forest ecosystem
Discussant: Rafat Alam

Timothy SWANSON, The Graduate Institute- Geneva, Switzerland
A policy framework analysing financial mechanisms for international conservation
Discussant: Jonah Busch

11:00-13:00

PARALLEL SESSION A2

SALA GOLDONI

Chair: Maria Loureiro

Petronella CHAMINUKA, Wageningen University, The Netherlands

Tourist preferences for ecotourism in rural communities adjacent to Kruger National Park: a choice experiment approach

Discussant: Maria Loureiro

Kiriaki REMOUNDOU, Athens University of Economics and Business, Greece

More is not always preferred to less: evidence from the use of a public bad in a tax reallocation scheme to value marine ecosystem services in the West Black Sea

Discussant: Zoltán Szabó

Zoltán SZABÓ, Corvinus University of Budapest, Hungary

Increasing the validity of valuing biodiversity: reducing protest responses by deliberative monetary valuation

Discussant: Kiriaki Remoundou

Maria LOUREIRO, Universidade de Santiago de Compostela, Spain

An alternative approach to identifying protest attitudes in choice experiments

Discussant: Petronella Chaminuka

11:00-13:00

PARALLEL SESSION A3

SALA VIVALDI

Chair: Ahmad Jafari Samimi

Elodie BRAHIC, CEMAGREF / LAMETA, France

Which instruments to preserve forest biodiversity?

Discussant: Ahmad Jafari Samimi

Géraldine FROGER, Centre for the Study on Globalisation, Conflicts, Territories and Vulnerabilities, University of Versailles Saint Quentin-en-Yvelines, France

The efficiency of the Costa Rican payment for environmental services program under discussion

Discussant: Knut Per Hasund

Knut Per HASUND, Swedish University of Agricultural Sciences and Swedish Board of Agriculture, Sweden

Indicator-based agri-environmental payments for the efficient supply of public goods

Discussant: Géraldine Froger

Ahmad Jafari SAMIMI, University of Mazandaran, Iran

Environmental performance index and economic growth: evidence from some developing countries

Discussant: Elodie Brahic

11:00-13:00 **PARALLEL SESSION A4**

SALA CANOVA

Chair: Karl Wurster

John D. CLARKE, Telfer School of Management, University of Ottawa, Canada
Proactive adaptation to climate change: Building bridges between science and local government

Discussant: Karl Wurster

Federica ROCCISANO, Medalics, Research Centre for Mediterranean Relations, Italy
The wellbeing of future generations: new perspectives on economic growth

Discussant: Rajinder Sidhu

Rajinder SIDHU, Punjab Agricultural University, India
Economic valuation of innovative agriculture conservation technologies and practices in Indian Punjab

Discussant: Federica Roccisano

Karl WURSTER, U.S. Agency for International Development, Morocco
Analyzing the impact of charcoal harvest and land management type on vegetation regeneration in the Tambacounda region of Senegal

Discussant: John D. Clarke

13.00 - 14.00 **LUNCH**, San Trovaso Restaurant

14.00 - 15.30 **PARALLEL SESSIONS B1 – B4**

14:00-15:30 **PARALLEL SESSION B1**

AULA MAGNA

Chair: Shiri Shamir

Sebastian STRUNZ, Leuphana University of Lüneburg, Germany
Management of ecosystem resilience as optimal self-protection: A simple, but often non-convex problem

Discussant: Shiri Shamir

Christine BERTRAM, Kiel Institute for the World Economy, Germany
Integrating biodiversity indices into a multi-species optimal control model

Discussant: Sebastian Strunz

Shiri SHAMIR, University of Haifa, Israel
An interior optimal species preservation policy for the symbiotic Noah's ark problem

Discussant: Christine Bertram

14:00-15:30 **PARALLEL SESSION B2**

SALA GOLDONI

Chair: Andrea Ghermandi

John ROLFE, Centre for Environmental Management - CQUniversity, Australia
Valuing protection of the Great Barrier Reef with choice modelling by management policy options

Discussant: Andrea Ghermandi

Tamara FIGUEREDO MARTÍN, Centro de Investigaciones de Ecosistemas Costeros, Cuba
Economical feasibility of the implementation of the Jardines de la Reina National Marine Park

Discussant: John Rolfe

Andrea GHERMANDI, Ca' Foscari University of Venice and Fondazione Eni Enrico Mattei, Italy
Mapping the global values of recreation in coastal ecosystems: results from a meta-analysis

Discussant: Tamara Figueredo Martín

Chair: Johannes Sauer

Danesh MIAH, Institute of Forestry and Environmental Sciences, University of Chittagong, Bangladesh

Growth in national income and forest transition in Bangladesh

Discussant: Johannes Sauer

Jihad C. ELNABOULSI, CRESE, SJEFG, Université de Franche-Comté, France

Environmental regulation under firms' strategic interdependence

Discussant: Danesh Miah

Johannes SAUER, University of Manchester, UK

On the empirics of ecosystem services schemes: technology, risk and compliance

Discussant: Jihad C. Elnaboulsi

Chair: Paul Mwebaze

Marko HEISKANEN, University of Eastern Finland, Finland

Incorporating biodiversity considerations into conversion of grasslands to CDM plantations

Discussant: Paul Mwebaze

Solenn LEPLAY, SupAgro Montpellier, UMR LAMETA, France

Local and national REDD income under alternative designs: theory and illustration from Sumatra

Discussant: Marko Heiskanen

Paul MWEBAZE, Environmental Economics Research Hub, Crawford School of Economics & Government, Australia

Quantifying the value of ecosystem services: A case study of honeybee pollination in the UK

Discussant: Solenn Leplay

16:00-17:30 PARALLEL SESSION C1

AULA MAGNA

Chair: David Simpson

Ajay Kumar MAHAPATRA, Regional Plant Resource Center, India
Environment and poverty: exploring relationship between trade in natural products, cash income and livelihood in sub tropical forest regions of Eastern India

Discussant: David Simpson

Kaysara KHATUN, Basque Centre for Climate Change, Spain
Competing ecosystem services: An assessment of carbon and timber in the tropical forests of Central America

Discussant: Ajay Kumar Mahapatra

David SIMPSON, National Center for Environmental Economics, US Environmental Protection Agency, USA
How many times could you replicate polyface farm? A schematic model of ecosystem services in agriculture

Discussant: Kaysara Khatun

16:00-17:30 PARALLEL SESSION C2

SALA GOLDONI

Chair: Susan Durden

Daija ANGELI, Technische Universität Berlin, Germany
Social benefits of implementing a national strategy on biological diversity in Germany

Discussant: Susan Durden

Carlos MARTIN-CANTARINO, Multidisciplinary Institute for the Environmental Studies, University of Alicante, Spain

May current scientific ecological knowledge be part of the problem?: the role of scientific advice in promoting (or hindering) biodiversity conservation - A case study at El Hondo Nature Park (SE Spain)

Discussant: Daija Angeli

Susan DURDEN, U. S. Army Corps of Engineers, Institute for Water Resources, USA
The value of biodiversity - decision making for public lands

Discussant: Carlos Martin-Cantarino

16:00-17:30 PARALLEL SESSION C3

SALA VIVALDI

Chair: Bethany Cooper

Jorge GUTIERREZ-GARCIA, Alfred-Weber-Institut, Universität Heidelberg, Germany
Pesticide use and wildlife loss: a bioeconomic model of the optimal pesticide policy

Discussant: Luca Di Corato

Luca DI CORATO, Swedish University of Agricultural Sciences, Sweden
An equilibrium model of habitat conservation under uncertainty and Irreversibility

Discussant: Jorge Gutiérrez-García

Bethany COOPER, School of Business, La Trobe University, Australia
Urban water restrictions: what drives compliance behaviour?

Discussant: Paolo Cominetti

16:00-17:30

PARALLEL SESSION C4

SALA CANOVA

Chair: Antti Miettinen

Johannes SAUER, University of Manchester, UK
The marginal cost of producing ecosystem services

Discussant: Antti Miettinen

Frank WÄTZOLD, University of Greifswald, Division of Landscape Economics, Germany
Does proactive biodiversity conservation save costs?

Discussant: Johannes Sauer

Antti MIETTINEN, MTT Agrifood Research Finland, Finland
On production costs of biodiversity zones on arable land and in forests adjacent to fields

Discussant: Frank Wätzold

17:30-18:30

PLENARY DISCUSSION PANEL I

AULA MAGNA

Moderator: Rosimeiry Portela, Conservation International, USA

Bringing science to action: insights from conservation practitioners

PANELISTS:

Andrew MITCHELL, Director, Global Canopy Programme, UK

Anil MARKANDYA, Scientific Director, Basque Centre for Climate Change, Spain

Celia HARVEY, Vice President of Global Change and Ecosystem Services, Conservation International, USA

18:30-19:15

UNEP ROUND TABLE

AULA MAGNA

The Inclusive Wealth Report

SPEAKERS:

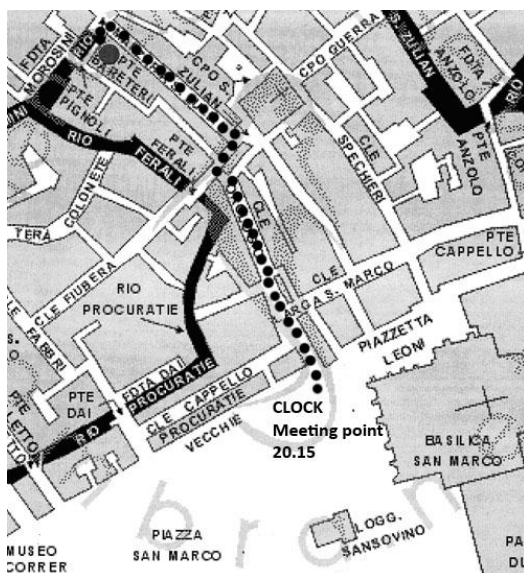
Karl-Göran MÄLER, Professor emeritus, The Beijer Institute, Sweden

Anantha Kumar DURAIAPPAH, Executive Director, International Human Dimensions Program, Germany

Åsa JANSSON, Researcher, The Beijer Institute, Sweden

20:30 CONFERENCE SOCIAL DINNER

Le Maschere Restaurant, San Marco Mercerie, 760, Venezia



The dinner will begin at 20.30. Should you want to reach the restaurant with the group, the meeting point is at 19.45 in the main entrance of the Centro Culturale Don Orione Artigianelli or at 20.15 under the big clock in St. Mark's Square. Should you prefer to reach the restaurant by yourself, you can take the waterbus from Zattere waterbus station to St. Mark's Square and starting from the big clock in St. Mark's Square take the street underneath the clock and go straight on until you pass the Ferrari store and Cartier store. Keeping going always straight on you should see a small bridge with the entrance of Starhotels Splendid Venice on your left.

TUESDAY 28 September 2010

09.00 - 10.30 PLENARY SESSION II

AULA MAGNA

Chair: Andreas Kontoleon

The Economics of Ecosystems and Biodiversity (TEEB): Overview and research implications

Joshua BISHOP, International Union for Conservation of Nature, Switzerland

10.30 - 11.00 COFFEE BREAK, Don Sterpi Cloister

11.00 - 13.00 PARALLEL SESSIONS D1 – D4

11:00-13:00 PARALLEL SESSION D1

AULA MAGNA

Chair: Andreas Kontoleon

Amjath BABU, Institute for Agricultural Policy and Market Research, Germany

Gifting for ecosystem services: Economic and ecological analysis of soil biodiversity services in agricultural lands

Discussant: Andreas Kontoleon

Traci BIRGE, ARONIA Research Institute - Åbo Akademi University and Novia University of Applied Sciences, Finland

Using social-ecological inventory to identify ecosystem services and stewards of traditional rural biotopes in SW Finland

Discussant: Norman Kwikiriza

Norman KWIKIRIZA, Biodiversity International, Uganda

Estimating the role of spatial varietal diversity on crop productivity within an abatement framework: a case of banana in Uganda

Discussant: Traci Birge

Andreas KONTOLEON, Department of Land Economy, University of Cambridge, UK

Dependence of the poor on biodiversity: which poor, what biodiversity?

Discussant: Amjath Babu

11:00-13:00 PARALLEL SESSION D2

SALA GOLDONI

Chair: Carlos Adrián Saldarriaga Isaza

Dafna M. DiSEgni, School of Management, University of Haifa, Israel

Estimating the economic value of climate change effect on ecosystem services via fluctuations in genuine saving index of sustainability

Discussant: Carlos Adrián Saldarriaga Isaza

Mattia CAI, University of Padua and Fondazione eni Enrico Mattei, Italy

Climate and tourism in Tuscany: responsiveness of tourist inflows to climate variation

Discussant: Surendra Kumar Sharma

Surendra Kumar SHARMA, Environmental Research Institute and Carman School, India

The role of social forestry in poverty alleviation – a case study from India

Discussant: Mattia Cai

Carlos Adrián SALDARRIAGA ISAZA, Universidad Nacional de Colombia, Colombia

Cost-effectiveness analysis of species conservation: an application to a biological corridor in Chile

Discussant: Dafna M. DiSegni

Chair: Giulia Macagno

Rob LILIEHOLM, The University of Maine, School of Forest Resources, USA
Wildlands and woodlands. A vision for the New England landscape

Discussant: Giulia Macagno

Abu SUMON, UNDP Bangladesh, Bangladesh

Incentive based conservation planning and management through ecological zoning and community based ecotourism in ecologically critical areas of Bangladesh

Discussant: Margaret M. Calderon

Margaret M. CALDERON, Institute of Renewable Natural Resources, University of the Philippines, Philippines

Payments for environmental and cultural services and the conservation of the Ifugao rice terraces

Discussant: Abu Sumon

Giulia MACAGNO, School of Advanced Studies in Venice Foundation (SSAV) -Ca' Foscari University of Venice and Fondazione Eni Enrico Mattei, Italy

The influence of agricultural landscape on tourism flows: An application to Tuscany

Discussant: Rob Lilieholm

Chair: Felicita Scapini

Inge LIEKENS, Unit Environmental Modelling, VITO, Belgium
Spatial elements in a valuation function for nature development

Discussant: Felicita Scapini

Maia DAVID, AgroParisTech - INRA, UMR Economie Publique, France

Agri-environmental policies when the spatial pattern of biodiversity reserves matters

Discussant: Katrin Rehdanz

Katrin REHDANZ, Christian-Albrechts University of Kiel, Germany

Species diversity and human well-being: a spatial econometric approach

Discussant: Maia David

Felicita SCAPINI, University of Florence, Italy

Spatial issues in biodiversity conservation – the case of the Maremma Regional Park

Discussant: Inge Liekens

14.00 - 15.30 PARALLEL SESSIONS E1 – E4

14:00-15:30 PARALLEL SESSION E1

AULA MAGNA

Chair: Stuart Whitten

Frans DE VRIES, Stirling Management School, University of Stirling, UK
On spatial coordination, site clustering and agglomeration payment: the case of wetland management
Discussant: Stuart Whitten

Davinder Kumar GROVER, Agro – Economic Research Centre, Punjab Agricultural University, India
Conservation agriculture, livestock and livelihood strategies in Indian Punjab: synergies and trade offs
Discussant: Frans de Vries

Stuart WHITTEN, CSIRO Sustainable Ecosystems, Australia
Conserving biodiversity through private land managers: integrating adaptive management, economic design and field experience
Discussant: Davinder Kumar Grover

14:00-15:30 PARALLEL SESSION E2

SALA GOLDONI

Chair: Duncan Knowler

Maarten PUNT, Wageningen University, The Netherlands
Planning marine protected areas: a 1 multiple use game
Discussant: Duncan Knowler

Isis SPINOLA-SCHWARTZ, Sustainable Plans International, USA
Valuing housing and social services in Marin County
Discussant: Maarten Punt

Duncan KNOWLER, Simon Fraser University, Canada
A multi-scale framework for evaluating the costs and benefits of alternative management strategies against invasive plants
Discussant: Isis Spinola-Schwartz

14:00-15:30 PARALLEL SESSION E3

SALA VIVALDI

Chair: Aline Chiabai

Ngoc Thi Khanh QUACH, Nha Trang University, Vietnam
Creation of marine reserves and incentives for biodiversity conservation
Discussant: Aline Chiabai

Ana RUIZ-FRAU, School of Ocean Sciences, Bangor University, UK
Societal preference and non-use values of marine protected areas revealed by choice experiments
Discussant: Ngoc Thi Khanh Quach

Aline CHIABAI, Basque Centre for Climate Change BC3, Spain
Valuing the impacts of sea level rise on coastal habitats and ecological services: case study for the Basque Country
Discussant: Ana Ruiz-Frau

Chair: Anders Skonhoft

Fan ZHANG, School of Physical, Environmental and Mathematical Sciences, University of New South Wales, Australian Defence Force Academy, Australia
Evaluation of the potential economic benefits of NSW-IMOS using improved ocean forecasts

Discussant: Anders Skonhoft

Ayumi ONUMA, Faculty of Economics, Keio University, Japan
Optimum population and long-run conservation of natural capital stock

Discussant: Fan Zhang

Anders SKONHOFT, Norwegian University of Science and Technology, Norway
The maximum sustainable yield management of an age structured salmon population. Fishing vs. conservation

*Discussant: Ayumi Onuma**Chair: Chiara Traversi*

Nicholas HANLEY, Management School, University of Stirling, UK
Economic values of species management options in human-wildlife conflicts: hen harriers in Scotland

Discussant: Chiara Traversi

Elena OJEA, Basque Centre of Climate Change, Spain
Classifying ecosystem services for economic valuation: the case of forest water services

Discussant: Nicholas Hanley

Chiara TRAVISI, Fondazione Eni Enrico Mattei, Italy
Economic assessment of forest ecosystem services losses: cost of policy inaction

*Discussant: Elena Ojea**Chair: Daniel Gregg*

Stefan BAUMGÄRTNER, Leuphana University of Lüneburg, Germany
Pitfalls and potential of institutional change: Rain-index insurance and the sustainability of rangeland management

Discussant: Daniel Gregg

Rahim DARMA, Hasanuddin University, Indonesia
The development of local organization function for agricultural development in indonesia

Discussant: Stefan Baumgärtner

Daniel GREGG, Centre for Environmental Management - CQUniversity, Australia
Agriculture vs. the Environment on the Australian rangelands: The case for an alternative to competitive tenders for procuring environmental outcomes

Discussant: Rahim Darma

Chair: Nir Becker

Jianhua ZHOU, School of economics and management, Beijing Forestry University, China
 Governing the commons: A case study of the Tricholoma Matsutake resource management

Discussant: Nir Becker

Philippe DELACOTE, INRA- Laboratoire d'Economie Forestière, France
 Forest products as safety net, deforestation and the tragedy of the commons

Discussant: Jianhua Zhou

Nir BECKER, Tel-Hai Academic College, Israel
 A comparative analysis of nature reserves pricing systems

*Discussant: Philippe Delacote**Chair: Tom Dedeurwaerdere*

Julia TOUZA, University of Vigo Spain
 Strategic interactions in provision of international environmental public goods

Discussant: Tom Dedeurwaerdere

Nicola GALLAI, Laboratoire Montpelliérain d'Econométrie Théorique et Appliquée and Institut National de la Recherche Agronomique, France
 Ecosystem services in a general equilibrium setting: The case of insect pollination

Discussant: Julia Touza

Tom DEDEURWAERDERE, Université catholique de Louvain, Centre for the Philosophy of Law, Belgium

Institutionalizing global genetic-resource commons: Towards alternative models for facilitating access in the global biodiversity regime

*Discussant: Nicola Gallai**Moderator: Paulo A.L.D. Nunes, Fondazione Eni Enrico Mattei, Italy***Innovative participatory methods on valuation: a social take on biodiversity values**

PANELISTS:

Pushpam KUMAR, Professor, University of Liverpool, Ecological and Economic Foundation co-ordinator, TEEB, UK

Peter CARTER, Associate Director, Head of Sustainable Development Unit, European Investment Bank, Luxembourg

Rudolf S. DE GROOT, Professor, Wageningen University, and TEEB, Germany.



Keynote Speakers' Profile



Joshua BISHOP, International Union for Conservation of Nature, Switzerland

Joshua Bishop is a natural resource and environmental economist whose work focuses on the interface of conservation and development. In his current position at IUCN, Dr Bishop seeks to promote economically efficient approaches to nature conservation, while also presenting the case for conservation in economic terms. A particular focus is on how to enhance the contribution of nature conservation to poverty reduction through the use of market-based mechanisms. Prior to joining IUCN, in 2002, Dr Bishop worked for several years at the International Institute for Environment and Development (IIED), in London, where he conducted applied research on a range of topics in the economics of land use change, including studies of macro-economic policy and the environment, timber trade policy, forecasting supply and demand for forest products, valuation of non-marketed forest benefits, the economics of soil conservation, and market-based approaches to forest and water conservation. Dr Bishop previously worked in West Africa as a consultant economist to the European Commission and the World Bank, as a conservation extension agent with IUCN, and as a development volunteer with the US Peace Corps in Mali. Dr Bishop holds a BA from Yale University, an MPP from Harvard University, and a PhD from University College London.



Geoffrey HEAL, Columbia Business School, USA

Geoffrey Heal, Paul Garrett Professor of Public Policy and Corporate Responsibility at Columbia Business School, graduate from Cambridge University and is noted for contributions to economic theory (including general equilibrium theory, social choice theory, the theory of choice under uncertainty and game theory) and environmental economics. Author of eighteen books and about two hundred articles, he is a Fellow of the Econometric Society, Past President of the Association of Environmental and Resource Economists, recipient of its prize for publications of enduring quality and a Life Fellow, a member of the Scientific Advisory Board of the Environmental Protection Agency and a Director of the Union of Concerned Scientists. Recent books on sustainability and the environment include *Nature and the Marketplace*, *Valuing the Future* and *When Principles Pay*. He chaired a committee of the National Academy of Sciences on valuing ecosystem services, was a Commissioner of the Pew Oceans Commission, and Chairs the Advisory Board of the Coalition for Rainforest Nations. He has been a principal in two start-up companies, is a Coordinating Lead Author for the IPCC and a member of the Investment Committee of an environmental private equity fund.



List of Participants

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Partners



FONDAZIONE ENI ENRICO MATTEI

Fondazione Eni Enrico Mattei (FEEM) is a nonprofit, nonpartisan research institution devoted to the study of sustainable development and global governance. Officially recognized by the President of the Italian Republic in 1989 and in full operation since 1990, FEEM has grown to become a leading research centre, providing timely and objective analysis on a wide range of environmental, energy and global economic issues.

FEEM's mission is to improve – through the rigor of its research – the credibility and quality of decision-making in public and private spheres. This goal is achieved by creating an international and multidisciplinary network of researchers working on several innovative programmes, by providing and promoting training in specialized areas of research, by disseminating research results through a wide range of outreach activities, and by delivering directly to policy makers via participation in various institutional fora.

FEEM's operations are inspired by some guiding principles. FEEM sets a bold research agenda addressing big questions and emerging issues in the economic and social context. While strictly linked with the academic community, it embraces intellectual curiosity and supports risk-taking in pursuing research. Its agenda emphasizes real world issues and the policy relevance of the outputs.

FEEM brings together researchers from various fields at different levels of experience, in order to fertilize ideas and foster the accumulation of human capital inside and outside the organization.

FEEM promotes excellence, boldness of ideas and creativeness, but quality, rigor and impact remain the distinctive features of its activity. Research outputs are theoretically sound, fact-based, and generally validated by the scientific community through peer review processes. FEEM aims at translating analyses into practical ideas, and at presenting them in user-friendly formats to inform and shape the public debate.

While remaining thoroughly Italian in location and perspective, FEEM promotes the international dimension of activities by selecting topics of global importance, by creating networks and partnerships in various countries, and by attracting researchers trained and working abroad.



BASQUE CENTRE FOR CLIMATE CHANGE

The BC3 is an excellence research centre created in 2008 as jointly promoted by the Basque government and the Basque University, with the goal of contributing to knowledge on the causes and impacts of climate change, as well as drive advancements in high level research on these issues. The BC3 has been created both as part of the determined commitment of the Basque government to the promotion of science and research and as an initiative to recruit internationally renowned researchers for the Basque science system.

BC3's research project revolves around four main lines of research: analysis of the adaptation measures to the climate change impacts, research on policies for the mitigation of GHGs emissions, grasping the international dimensions of climate policies and support of the research to complement and inform climate policy making in the Basque Country.

To that end, in 2010 the BC3 relied on a multidisciplinary team of 19 people led by Prof Anil Markandya, an authority in this field. For the following years, the BC3 has set itself the goal to raise the number up to the thirty members of staff projected for 2012.

Despite its humble size, the centre has the capability of generating an important added value for the Basque and the European research system as well as pushing the climate change field as one of the preferential areas of research. The BC3 also has the advantage of its International Scientific Assessment Committee (ISAC), made up by six scientists of global renown: Professor Martin Parry (United Kingdom), Professor David Ulph (United Kingdom), Professor Bert Mertz (Netherlands), Professor Pedro Maria Echenique, Professor Paulina Beato and Inés Macho-Stadler, PhD (Spain).



CONSERVATION INTERNATIONAL

Conservation International (CI) achieves strategic and lasting conservation outcomes through its work with a vibrant network of global partners. CI is focused on addressing urgent environmental threats as well as the longterm health of Earth's most vital land and marine ecosystems. Working with more than 1,000 partners worldwide, from multinational corporations to local community groups, CI has protected 1.2 million square kilometers on land, in freshwater habitats and at sea—an area large enough to be seen from space.

CI works in more than 40 countries in Latin America, Africa, Asia and the Pacific. CI makes a difference by developing bold, science-based conservation strategies; focusing on the role of biodiversity conservation in improving human well-being; and catalyzing partners to work toward shared goals. The work of CI is demonstrating that conservation can benefit humanity by allowing ecosystems to continue supporting life and so provide the core services that humanity needs; offering ways for communities to create livelihoods from sustainable products; and preserving local aesthetic, cultural and spiritual values. CI leverages conservation achievement through partnerships, engaging nongovernmental groups, local communities, private businesses and government agencies as partners, and providing financial, technical and other support to hundreds of local and international organizations whose visions complement our own. Through these relationships, CI shapes policies, motivate public and private sector change, help communities steward their local resources and encourage the public to embrace conservation.



INTERNATIONAL UNION FOR CONSERVATION OF NATURE

IUCN, International Union for Conservation of Nature, helps the world find pragmatic solutions to our most pressing environment and development challenges. It supports scientific research, manages field projects all over the world and brings governments, non-government organizations, United Nations agencies, companies and local communities together to develop and implement policy, laws and best practice.

IUCN is the world's oldest and largest global environmental network - a democratic membership union with more than 1,000 government and NGO member organizations, and almost 11,000 volunteer scientists in more than 160 countries.

IUCN's work is supported by more than 1,000 professional staff in 60 offices and hundreds of partners in public, NGO and private sectors around the world. The Union's headquarters are located in Gland, near Geneva, Switzerland.



UNITED NATIONS ENVIRONMENT PROGRAMME - DEPI

The United Nations Environment Programme (UNEP) coordinates United Nations environmental activities, assisting developing countries in implementing environmentally sound policies and practices. It was founded as a result of the United Nations Conference on the Human Environment in June 1972 and has its headquarters in Nairobi, Kenya. UNEP also has six regional offices and various country offices.

UNEP is the designated authority of the United Nations system in environmental issues at the global and regional level. Its mandate is to coordinate the development of environmental policy consensus by keeping the global environment under review and bringing emerging issues to the attention of governments and the international community for action.

The Division of Environmental Policy Implementation (DEPI) is responsible for the implementation of environmental policy in order to foster sustainable development at global, regional and national levels. It is also UNEP's focal Division for capacity building, which characterizes most of UNEP's work.

In cooperation with international and national partners DEPI adopts an integrated approach in providing technical assistance, advisory services, and strengthening the environmental management capacity of developing countries and countries with economies in transition. The activities of the Division are needs driven; based on global regional and national priorities.



Graphic Project



Gegenschein
2007
Oil on Graphite and
Cement Medium
48" x 60"

Ann Marie HEAL

The graphic design of this Programme Book was created by Silvia Bertolin (FEEM), inspired by Ann Marie Heal art work "Gegenschein", oil on graphite and cement medium, 2007.

Ann Marie Heal is a painter and printmaker who was born in Bridgeport, Connecticut. She was raised in a rural area nearby where she rode horses in the forests, observed flocks of birds of many kinds, and counted wildflowers growing along the paths, meadows and streams.

After graduating from Barnard College of Columbia University, she lived and worked in New York City with an acute awareness of the dwindling number of living species. Her art work from 2003 to 2005 focused on endangered birds, myths of animal and human interaction such as Leda and the Swan, and drawings of animals in the Museum of Natural History that she exhibited in a number of group shows in New York. After learning printmaking (intaglio, silkscreen and lithography) in 2003 and assisting the artist Kiki Smith, she received a Neiman fellowship and an Agnes Martin scholarship, and went on to be awarded the degree of Master of Fine Arts from Columbia University's School of the Arts in 2007. During this time she created a new medium using materials extracted from the earth - cement and graphite- to heighten the importance of the images of the natural world in her drawings, prints and paintings.

The Nabi Gallery in New York, New York exhibited Heal's prints, paintings and drawings of birds and imaginary habitats in the show "Fantastical Forms" in 2010. In addition, she has also exhibited her work at Andre Zarre Gallery and the Leroy Neiman Gallery.

Recently, Heal's painting "The Last Snow," a meditation on the effects of climate change, was featured in a publication of Greenpeace. Also this year, the National Resources Defense Council published and cited her mixed media work "Yggdrasil (World Tree)" as an example of environmentally consciousness art. In 2009 the New York Times reviewed the group exhibition "Up and Coming: Emerging Printmakers Make Their Mark" at The Hunterdon Museum in Clinton, New Jersey and wrote that her "splendidly free and energetic work in the show includes colourful, Surrealist-oriented prints" that combine "traditional techniques with new materials or creative tools."

These works among others, can be viewed at www.annmarieheal.com.

Today Heal lives and works in New York City and Vieques, Puerto Rico.



HOW TO REACH THE WORKSHOP VENUE

The conference will take place at the Centro Culturale Don Orione Artigianelli (<http://www.donorione-venezia.it>), a religious and cultural institute located in the historic centre of the city, a few steps from the *Accademia Bridge*. Please find below information about how to reach the Conference venue.

From Piazzale Roma road taxi and bus terminal

From Piazzale Roma road taxi and bus terminal you can take the **ACTV waterbus** (vaporetto) **number 51 or 61**, along the Giudecca Canal, and get off at “Zattere” waterbus station. The drive takes approx. 13 minutes and the price of a one way ticket is € 6,50. Once you are at Zattere, walk towards your right along the waterfront, then turn on your left soon after the great Church of Gesuati. The entrance of the Centro Culturale Don Orione Artigianelli is at number 909/A behind the same Church.

Otherwise, from Piazzale Roma road taxi and bus terminal you can choose another, more tourist way along the Gran Canal: take the **ACTV waterbus** (vaporetto) **number 1** (direction *Lido*) and get off at “Accademia” waterbus station. The drive takes approx. 30 minutes and the price of a one way ticket is € 6,50. Once you are at Accademia follow on your left the “Rio Terrà Foscarini” street: the Centro Culturale Don Orione Artigianelli is located after about 200 metres on your right, opposite to Sant’Agnese Church.

Details on the waterbus timetables and prices are available in the ACTV website at: <http://www.actv.it/en>.

From the Venice Santa Lucia Railway Station

From the Venice Santa Lucia Railway Station, it is possible to choose between the following ACTV waterbus:

Number 51 (direction *Lido*) along the Giudecca Canal. Get off at “Zattere” waterbus station. The drive takes approx. 16 minutes and the price of a one way ticket is € 6,50. Once you are at Zattere, walk towards your right along the waterfront, then turn on your left soon after the great Church of Gesuati. The entrance of the Centro Culturale Don Orione Artigianelli is at number 909/A behind the same Church.

Number 1 (direction *Lido*), a more tourist way along the Gran Canal. Get off at “Accademia” waterbus station. The drive takes approx. 20-25 minutes and the price of a one way ticket is € 6,50. Once you are at Accademia follow on your left the “Rio Terrà Foscarini” street: the Centro Culturale Don Orione Artigianelli is located after about 200 metres on your right, opposite to Sant’Agnese Church.

Details on the waterbus timetables and prices are available in the ACTV website at: <http://www.actv.it/en>.

HOW TO REACH THE MAIN AIRPORTS

The **Venice Marco Polo Airport** can be reached directly by water or, once you are in Piazzale Roma, (car and bus terminal), also by road.

The most direct way is taking the Alilaguna waterbus from “Zattere” waterbus station, going directly to the airport. The drive takes approx. 70 minutes and the price of one way ticket is € 15,00 (luggage included). From “Zattere” waterbus station you can take the BLUE and RED Alilaguna lines which run from 9.10 to 19.10 and from 7.40 to 18.40 respectively.

If you need to reach the airport in different times you can go to “San Marco” or “San Zaccaria” waterbus stations where you can take the BLUE Alilaguna waterbus until 22.25 and 22.29 respectively.

Further information about the Alilaguna waterbus is available at:
<http://www.alilaguna.it/index.en.html>.

The fastest way to get to the airport by water is taking a water taxi. The price is based on the number of people and can vary after 20.00, on Sundays and public holidays. From the city centre to the airport the fare is approximately € 110.00 for up to 4 people and the journey time is about 30 minutes. You may pre-book the water taxi service by calling +39.041.5415084 or by on line reservation at www.venicewelcome.com/servizi/taxi/taxi-form-ing.htm.

In order to reach the Venice Airport from Piazzale Roma, car and bus terminal, you can take a road bus or a road taxi.

The number 5 ACTV bus (www.actv.it, +39.041.2424), the orange bus, travels between Piazzale Roma and the Marco Polo Airport with a journey time of approximately 25 minutes. On weekdays and Saturdays regular departures are between 4.40 and 24.40 every 15/30 minutes. On Sundays and public holidays regular departures are every 30 minutes. Ticket costs €2,50.

The ATVO Express Coach Service (www.atvo.it, +39.0422.315381), the blue bus, from Piazzale Roma to the Marco Polo Airport departs approximately every 30 minutes with a journey time of about 20 minutes. The service is guarantee every day from 5.00 to 20.50 and a single ticket costs € 3,00, luggage included.

A private road taxi from Piazzale Roma to the Venice airport costs approximately € 30.00. Road taxis are provided by the Cooperativa Radio Taxi and they are available 24 hours a day. For booking and tariffs please call the Cooperativa at +39.041.5952080.

The **Treviso Canova Airport** can be reached only by road bus or a road taxi from Piazzale Roma, car and bus terminal.

The ATVO buses (www.atvo.it, +39.0422.315381) travel between Piazzale Roma and the Treviso Canova Airport with a journey time of about 1 hour and 10 minutes. The service is guarantee every day from 5.00 to 19.30 and a single ticket costs € 5,00, luggage included.

A road taxi from Piazzale Roma to the Treviso Airport costs approximately € 70.00.

USEFUL LINKS

www.actv.it is the web-site of the public transportation in Venice.

www.alilaguna.it is the web-site of the public water-bus service between the Marco Polo Venice Airport and Venice downtown.

www.atvo.it is the site of the bus company that connect Piazzale Roma to the Marco Polo Venice Airport.

www.veniceairport.it is the web-site of the Marco Polo Venice Airport.

www.trevisoairport.it is the web-site of the Canova Treviso Airport.

www.veneziasi.it is a useful web-site for accommodation booking and tourist information.

Further tourist information may be obtained by visiting any of the following sites.

www.ombra.net is a very useful site with detailed maps of the city.

www.veniceword.com is an excellent, constantly up-dated guide to what's on in Venice, plus all the usual tourist information.

www.aguestinvenice.com has brief but up-to-date information on events in the city.

The official site of the Tourist Board of Venice is a useful source of practical information
<http://www.turismovenezia.it/venezia/default.asp>

www.invenicetoday.com is a good pictorial guide to the treasures of Venice.

USEFUL NUMBERS

Emergency Numbers

Police emergency call	113
Police-(European Mobile Phone Users)	112
Fire Department	115
Car breakdown Service	116
First aid	118
Operator international calls	170

Lost and Found

Lost items on public water transport	+39.041.2722179
Lost items on public road transport	+39.041.2722723

Transportation

Marco Polo Venice Airport

Flight Information Office	+39.041.2609260
Lost and Found	+39.041.2609222
Customs Office	+39.041.2699311
Airport Parking	+39.041.5415913

Bus and water bus

boat and bus information	+39.041.2424
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Railway

Railway information	from Italy	89.20.21
	from abroad	+39.06.68475475
Train Station		+39.041.524.2303
Lost Property		+39.041.785238

Water Taxis

Water taxi info and reservations 24h/24h	+39.041.5222303
Marco Polo Venice Airport	+39.041 5415084

Land Taxis

Radiotaxi 24h/24h	+39.041.5952080
Venice, P. Roma (car terminal)	+39.041.5237774
Venice, Lido (S.M. Elisabetta)	+39.041.5265974
Venice, info and reservations office in the airport	+39.041.5416363
Tourist information board	+39.041.5298730

NOTES

A series of horizontal dashed lines for writing notes.