



Curriculum Vitae

Personal information

Surname / First name **Iraldo Fabio**
Telephone +39.02.58316810
E-mail f.iraldo@sssup.it
fabio.iraldo@unibocconi.it

Nationality Italian
Date of birth 08 December 1968
Gender Male

Work experience

Corporate Environmental Management, Life-Cycle Management, Economics and Management of Voluntary Certification Schemes, Environmental Innovation and Competitiveness, Sustainable marketing, Environmental reporting, Stakeholder engagement, Environmental Innovation and Green technologies, Green Public Procurement, Corporate Social Responsibility, Health and Safety Management, Environmental Economics, Public Policies for Sustainable Local Development.

December 2006 – today

Occupation or position held Research Director
Main activities and responsibilities Responsible of research projects on sustainable products and services development, EcoDesign, environmental product innovation, green marketing, Green Procurement Policies and Supply-chain Management
Name and address of employer CeSiSP, Centre for the Development of Product Sustainability, Via all'Opera Pia 15; I-16145 Genova, Italy
Type of business or sector Inter-university Research Centre

November 2006 – today

Occupation or position held Associate Professor of Environmental Management
Main activities and responsibilities Responsible of research projects on environmental management, sustainable product management, environmental innovation, environment-related competitiveness, impacts of environmental policies and voluntary certification schemes on companies and industrial sectors
Name and address of employer Scuola Superiore Sant'Anna, Via S. Zeno 2, 52016, Pisa – Italy
Type of business or sector University

June 1995 – today

Occupation or position held | Research Director
 Main activities and responsibilities | Responsible of research projects on environmental management, eco-labelling, integrated product policy, green procurement, health and safety management, local sustainability, environmental reporting, green marketing
 Name and address of employer | IEFE Bocconi, Via Roentgen 1, 20136, Milano – Italy
 Type of business or sector | University

June 1997 – today

Occupation or position held | Teaching and Research Assistant
 Main activities and responsibilities | Training courses on environmental, safety and social management, project manager of researches in these fields
 Name and address of employer | SDA – Business School, Via Bocconi 8, 20136, Milano – Italy
 Type of business or sector | Business School

1995 – 1997

Occupation or position held | Researcher at the Economic Research Department
 Main activities and responsibilities | Economic studies on sector dynamics
 Name and address of employer | Pirelli S.p.A., Viale Sarca 242, 20133, Milano – Italy
 Type of business or sector | Private corporation

Education and training

2001

Title of qualification awarded | PhD
 Principal subjects/occupational skills covered | Public Policies for Resource Development and the Environment
 Name and type of organisation providing education and training | University of Venice – IUAV

1994

Title of qualification awarded | Degree in Economics and Social Disciplines
 Principal subjects/occupational skills covered | Economics and Social Sciences
 Name and type of organisation providing education and training | Università Luigi Bocconi, Milano

Personal skills and competences

Mother tongue(s) | **Italian**
 Other languages |
European level ()*

English
Spanish

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
5	Proficient user	5	Proficient user	5	Proficient user	5	Proficient user	5	Proficient user
3	Basic user	3	Basic user	3	Basic user	3	Basic user	3	Basic user

(*) *Common European Framework of Reference for Languages*

Other professional experiences

- Consultant of the *European Commission – Directorate General Environment* for several Impact Assessment studies, including Stakeholder Consultations, such as the SCP- Sustainable Consumption and Production Action Plan, GPP-Green Public Procurement Strategies and the European Commission Reg. 761/2001 (EMAS – Eco-Management and Audit Scheme) and European Commission Reg. 1980/2000 (EU Eco-label)
- Consultant of the Italian *Ministry for the Environment* and of the National Environmental Agency on the management and promotion of these two EU voluntary policy instruments.
- Consultant of *UNEP, UNCTAD, OECD* and *EUROSTAT* on the ISO14000 series standards and environmental management
- Consultant of *DG Enterprise – EcoInnovation Unit*, for the development of workshops and seminars on Eco-Innovation and ETAP-related issues (ETAP forum, EuropaInnova meetings, PRO-INNO Europe initiative).
- Coordinator of the first empirical project on ECAP – Environmental Compliance Action Plan, funded by LIFE+ Programme.
- Consultant of *TOROC (Torino Olympic Committee)* for the implementation of Sustainability-oriented strategies, including the approach to Green Procurement during the Winter Olympic Games
- Consultant of *ASSOLOMBARDA* (trade association of the industrial enterprises in Lombardy Region) on the valorisation of the opportunities of Green Public Procurement in corporate strategies
- Consultant of *Milan Municipality* in the candidacy process for the international *EXPO 2015* (responsible for the environmental part of the Dossier), with particular emphasis on the EMAS registration and on the Green Public Procurement strategies to be developed for the event
- Coordinator of a study on Green Public Procurement procedures and modalities for *Qualitambiente* (the association between more than 50 Italian local authorities certified according to ISO 14001 and registered in EMAS) and experimental application in many involved municipalities
- Coordinator of the study “The use of EMAS and Ecolabel in Green Public Procurement”, on behalf of *OSIGA* (Observatory on Environmental Management System, sustained by many public and private bodies, including Regional and Local governments, Environmental Protection agencies, accredited verifiers, and companies)
- Scientific coordinator of a two-years training programme on environmental quality of products and services aimed at stimulating green purchasing demand by public administrations, carried out on behalf of *CONFCOMMERCIO* (the Italian confederation of commerce, tourism and service sectors)
- Member of several Committees within national and international

Certification Bodies (namely: *RINA* – Registro Italiano Navale, *DNV - Det Norske Veritas*, *TUV – Rehinland*, *ICIM*, *ICPREV*) for the management and surveillance of the following voluntary certification schemes: International EPD®system, EMAS, ISO 14001, OHSAS 18001, SA 8000.

- Co-operation with the Italian *Ministry of the Environment* and of the *National Environmental Agency* in the conception, design and drafting of the “Posizione sugli Ambiti Produttivi Omogenei”, reference document for the EMAS-based environmental certification of industrial clusters.
- Support to the *Swedish Environmental Management Council* (SEMC) in the Revision of the EPD®system into an International EPD®system as member of the EPD Revision Group (Auxiliary Competent Body).
- Founder and Member of the *CHARTA Foundation* (Centre for Health-Associated Research and Technology Assessment)
- Member of the Scientific Committee of the *International Institute for Economic Cooperation* in Italy
- Consultant on Environmental management, audit, life-cycle assessment and marketing (2000 - today), supporting some of the most important corporations operating in Italy and in the EU, among which: *ABBOT*, *ABB GROUP*, *ALCANTARA*, *ALUSUISSE*, *ARCELOR GROUP*, *ASHLAND*, *ATOFINA ITALIA*, *BENETTON GROUP*, *BRACCO GROUP*, *BRIDGESTONE EUROPE NV/SA*, *DEXIA-CREDIOP*, *ECOFUEL S.p.A.*, *ENDESA*, *ENEL*, *ENI*, *GALBANI-DANONE*, *GEORGIA PACIFIC*, *JOHNSON DIVERSEY*, *KARTOGROUP*, *KRAFT FOODS*, *LECA GROUP*, *PROCTER & GAMBLE*, *SOFIDEL*, *UNICREDIT GROUP*.

Annexes

ANNEX I – Research experience

ANNEX II – Selected publications

-o0o-

ANNEX I – Research experience

The main research fields in which Prof. Fabio Iraldo operates are the following:

- o *Corporate Environmental Management*: several researches on the design and implementation of environmental management systems and the greening of corporate strategies, involving both SMEs and multinational corporations.

- *Life-Cycle Management*: research projects on operational application of LCA (use of software tools and databases such as Bousted, Simapro and others), product design based on LCA, Life Cycle Costing and communication tools based on Life Cycle Thinking (e.g.: the EPD® International System on ISO 14025- based Environmental Product Declarations).
- *Economics and Management of Voluntary Certification Schemes*: considerable research experience in the area of environmental certifications at EU and international level (involved as expert in ISO 14001 and EMAS – related initiatives by governments – including the European Commission – and private organizations managing certification schemes).
- *Green procurement and Sustainable supply-chain management*: empirical studies and support activities to private and public organizations in the development of tools and management solutions for purchasing goods and services on the basis of environmentally-sound criteria.
- *Environment and Competitiveness*: several projects investigating the relationship between environmental policies and management and competitive / market performances.
- *Stakeholder engagement*: development of innovative methodologies for stakeholder engagement on environmental issues to be effectively used by companies and public administrations for consensus-building.
- *Sustainable marketing and Environmental reporting*: pioneer research projects on the definition and implementation of environment- and sustainability-oriented strategies by the most significant industrial sectors in the EU and studies on the diffusion of Environmental Reports and EMAS statements.
- *Environmental Innovation and Green technologies*: research projects related to the application of the Integrated Pollution Prevention and Control – IPPC Directive in the EU. Participation in the working group for the definition of sectoral BAT – Best Available Technologies. Several researches on the innovation dynamics (e.g.: motivation process and barriers) tackled by companies for the development and adoption of green technologies.
- *Corporate Social Responsibility*: co-ordination of the first and most innovative research projects funded by the European Commission on the adoption of CSR practices and tools by SMEs and in the supply-chain management.
- *Health and Safety Management*: front-running research on the development of health and safety management tools and organizational solutions, especially related with the occupational H&S management system defined by OHSAS 18001 standard. Specific research experience on workers training and information on H&S-related issues.
- *Environmental Economics*: leading experience in research on the economic policy instruments (taxes, tradable permits, etc.) carried out on behalf of international institutions (e.g.: Eurostat).
- *Public Policies for Sustainable Local Development*: relevant research experience in Local Agenda 21 projects carried out by local governments, and in the implementation of environmental management projects within industrial clusters and homogeneous productive territorial areas.

In detail, Prof. Fabio Iraldo has been responsible for the research-design and implementation of the following international projects (all funded through public call for tenders):

- **1994, The EcoManagement and Audit Scheme (EMAS) in the chemical sector**, funded by European Commission DGXI (Directorate General Environment)
- **1995, CoordEMAS**, coordination of EMAS pilot projects, funded by European Commission DGXI (Directorate General Environment)
- **1996, EMAS in the food sector**, funded within the Euromanagement-environment Action Programme by European Commission DGXXIII (Directorate General Small Enterprises)

- 1996, **EMAS in the ceramic-tile industry**, within the Euromanagement-environment Action Programme, funded by DGXXIII (Directorate General: Small Enterprises)
- 1997, **ENVIS** (Environmental Innovation and SMEs), in co-operation with the Brighton University, Universidade Moderna de Lisboa, TNO in Delft and Danish Technology Institute in Copenhagen, funded by Directorate General XXIII (Directorate General Small Enterprises)
- 1998, **Disseminating EcoDesign to SMEs**, in partnership with IPTS in Sevilla and TNO in Delft (Fifth Research Framework Programme, European Commission)
- 1998, **AIMS EMAS** - Assessing the Implementation of the Eco-Management and Audit Scheme, in partnership with the Imperial College of Science and Technology in London, funded by European Commission DGXI (Directorate General Environment)
- 1999, **Economic Instruments for Sustainable Development**: improving the external and working environment, in partnership with National School for Advances Studies in Agronomic Science di Montpellier and Roskilde University, funded by the European foundation for the Improvement of Working and Living Conditions in Dublin
- 1999, Marketing Study: **promotion and Diffusion of the EU Eco-label** funded by European Commission Directorate General XI, (Directorate General Environment – Eco-Label Unit)
- 2000, **EcoEfficiency Indicators**, 3-years project for the definition of Eco-Efficiency indicators for the industrial branches at NACE code 2 digit level, funded by EUROSTAT
- 2003, **PIONEER** (Paper Industry Operating in Network: an Experiment for EMAS Revision) funded by the LIFE Programme – European Commission, Directorate General Environment
- 2003, **INTEND** (International System for ISO14025 EPDs - Environmental Product Declarations), funded by the Life Programme – European Commission, Directorate General Environment
- 2004, **ESEMPLA** (Esperienza Sperimentale di EMAS nel Monitoraggio e nella Pianificazione Locale dell'Ambiente) – funded by the ECOSIND Action, within the INTERREG III Programme of the European Commission
- 2005, **MARRAKEMAS** (experimental project for the EMAS Registration of the Municipality of Marrakesh), funded by the European Commission Life "third Countries" Programme - Directorate General Environment
- 2005, **INTER-ECO-TUR** – Project for the diffusion of environmental management tools in the Tourism sector, funded by the TREND action, within the INTERREG III European Commission Programme
- 2005, **EVER** (Evaluation of EMAS and Eco-label for their Revision), study for the support of the revision processes, funded by Directorate General Environment, EMAS and Eco-label Unit
- 2006, **COOPERATE** (Corporations Operating in a Transparent and Ethic Environment), funded within the action programme “Mainstreaming CSR to SMEs”, by European Commission Directorate General Enterprise
- 2006, **PAMLED** – Building effective Partnerships among European and Mediterranean Municipalities for Local Sustainable Touristic Development, funded by the European Commission EUROMED programme.
- 2006, **PROGRESLAND**: PROgram for valorising the RESources of the LANDscape, funded by the INTERREG III C programme.

- 2007, **ENVIRONMENT AND COMPETITIVENESS**, in partnership with the Wuppertal Institute, IEEP London, FFU Berlin and Adelphi Consult, funded by European Commission Directorate General Environment
- 2007, **EMPIRE** (Environmental regulation and Market-forces Providing Incentives for Resource Efficiency), as a part of the SKEP study, funded within the Sixth Research Framework Programme of the European Commission
- 2008, **Technical review guidance for LCA – Life Cycle Assessment, embedded into an accredited certification scheme**, funded by Institute for Environment and Sustainability of the European Commission – Directorate General JRC (Joint Research Center) in Ispra
- 2008, **ECCELSA** (ECAP application based on Cluster Experiences and Local SME-oriented Approaches), funded by the Life+ Environmental Programme of the European Commission Directorate General Environment
- 2008, **COSMIC** (CSR-Oriented Supply-chain Management to Improve Sustainability), funded by the European Commission – Directorate General Enterprise
- 2009, **IMAGINE** (Innovations for a “Made Green in Europe”), funded by the ECOINNOVATION initiative by the European Commission CIP – Competition and Innovation Programme
- 2009, **MED_IPPC_NET** (Study on the application of the EC Directive 96/61 on Integrated Pollution Prevention and Control), funded by the INTERREG MED Programme, in partnership with IAT – Istituto Andaluso de Tecnologia.
- 2009, **RESMAR** (RESeu pour l’environnement dans l’espace MARitime), funded by “Italie-France Marittime” INTERREG Programme, European Commission.
- 2010, **BAT4MED** (Boosting Best Available Techniques in the Mediterranean Partner Countries) approved and funded by the European Commission Seventh Framework Research Programme.
- 2010, **LAIKA** (Local Authorities Improving Kyoto Actions), funded by Life+ Environment, European Commission - Directorate General Environment.
- 2011, **BRAVE** (Better Regulation Aimed at Valorising EMAS), funded by Life+ Environment, European Commission - Directorate General Environment.
- 2011, **Economic Analysis of Environmental Policies and of sustainable development**, framework contract for consultancy services with European Commission – DG Environment.
- 2011, **Industrial competitiveness for a Sustainable Future**, Multiple Framework Contract for consultancy services with European Commission – DG Enterprise.
- 2012, **SCP - Sustainable Consumption and Production Impact assessment Study**, within the Economic Analysis of Environmental Policies and of sustainable development framework contract for consultancy services with European Commission – DG Environment (including a thorough and wide Stakeholder consultation exercise).
- 2012, **GPP – Green Public Procurement Impact assessment Study**, within the Economic Analysis of Environmental Policies and of sustainable development framework contract for consultancy services with European Commission – DG Environment (including a thorough and wide Stakeholder consultation exercise).
- 2012, **Green procurement strategies for the international exhibition EXPO Milan 2015**, 4-years study on behalf of the Organiser of the EXPO 2012 in Milan.

ANNEX II - Selected publications

- *Guidelines for participation by small and medium enterprises in the Eco-Management and Audit Scheme (EMAS)*, with V. Biondi and M. Frey, edited with the support of the European Commission, Milan, June 1995
- "EMAS: first evaluation of a policy instrument", with V. Biondi and M. Frey, Working Paper, proceedings of the international workshop "The economics and law of voluntary approaches in environmental policy", organised by CERNA (Ecole de Mines, Paris) and FEEM (Fondazione E. Mattei, Venice), Venice, November 18th-19th 1996
- "Creating jobs through links between Large and Small Companies", ERT - European Round Table Working Papers, 1997.
- "Developing the Eco-label through networks: an application in the EU", proceedings of the *International Conference Green Goods V – Eco-labelling for a sustainable future*, organised by the OECD and by the Ministry of the Environment, Palais am Festungsgraben, Berlin, Oct. 1998
- "Networks for environmental product management", proceedings of the conference *The Environmental State under pressure: the issues and the research agenda*, organized by International Sociological Association Research Committee, Chicago, USA, Aug 1999.
- "New competitive challenges for SMEs: responses, innovation and synergies", proceedings of the *Euro Info Centers Conference*, organized by the European Commission – DG Enterprise, Rhodes, October 1999
- "Achieving sustainability through environmental innovation", with Biondi V. e Meredith S., *Journal of Enterprise Resource Management*, vol.4, 2000.
- "Environmental management systems and SMEs: barriers, motivations and opportunities", con V. Biondi e M. Frey, *Greener Management International*, Greenleaf Publishing, n. 29, 2000.
- "Integration of environmental aspects in organisations", in EFILWC - European Foundation for the Improvement of Living and Working Conditions, *Economic instruments for sustainable development: improving the external and working environments*, Official Publications of the European Communities, Dublin, 2000.
- "A framework for Eco-Efficiency Indicators", with M. Amonini, report IEFE-Bocconi for EUROSTAT, Milan, 2000.
- "Sustainability and environmental innovation: the role of SMEs", with Biondi V. e Meredith S., *International Journal of Technology Management*, vol.24, Issue 5/6, 2002.
- Evaluation of EMAS and Eco-label: preliminary findings, 2005, Workshop for the revision of EC Regulation nr. 761/2001 and nr. 1980/2000, European Commission, 21-22/09/2005, Bruxelles.
- "Modularity in the application of LCA: standardization requirements and supporting tools", 2006, with A. Del Borghi, P. L. Gaggero, M. Fieschi, G. L. Baldo, M. Frey, Proceedings SETAC Europe 16th Annual Meeting, SETAC - Society of Environmental Toxicology And Chemistry, 7-11 May 2006, The Hague.
- "Environmental Competitive Attributes of Hot Dip Galvanizing", proceedings of the conference Intergalva – International Galvanising Conference, organised by the European General Galvaniser Association, Naples, 14 June 2006.
- "Sustainability performance and competitiveness: an empirical analysis of the Italian banking system", 2007, with M. Frey and M. Melis, edited by European Business Ethics Network (EBEN) as proceedings of the "Finance and Society in Ethical Perspective – EUROPEAN BUSINESS ETHICS NETWORK Research Conference 2007", 21-23/06/2007, Bergamo.
- "The Impact of Wide Scale Sport Events on Local Development: An Assessment of the XXth Torino Olympics through the Sustainability Report", 2007, with M. Frey and M. Melis, edited by the Regional Studies Association (RSA) as proceedings of the "Region In Focus" – Regional Studies Association International Conference, 2-5/04/2007, Lisbon.
- "Eco-labelling and product development", with F. Rubik e D. Scheer, *International Journal of Product Development*, Vol. 6, N. 3/4, 2008.
- "Is environmental performance able to influence competitiveness? The case of the Eco-Management and Audit Scheme in the European Union", *Journal of Cleaner Production* (IF: 1,32), accepted for publication.

- “Adoption of an Eco-label by SMEs: networking with the stakeholders”, *Corporate Environmental Strategy – International Journal of Corporate Sustainability*, Elsevier, submitted.
- “A cluster-based approach as an effective way to implement the ECAP (Environmental Compliance Assistance Programme): evidence from some good practices”, con T. Daddi e F. Testa, *Local Environment*, Routledge – Taylor & Francis, 2010, Vol. 15, n. 1, 73 – 82.
- “Shadows and lights of GSCM (Green Supply Chain Management): determinants and effects of these practices based on a multi-national study”, con F. Testa e N. Johnstone, *Journal of Cleaner Production*, Elsevier (Impact Factor: 1,67), 2010, Vol. 18, n. 10-11, 953 – 962.
- “An Innovative Model to Promote CSR among SMEs Operating in Industrial Clusters: Evidence from an EU Project”, con M. Battaglia, L. Bianchi e M. Frey, *Corporate Social Responsibility and Environmental Management*, John Wiley & sons, 2010, DOI: 10.1002/csr.224.
- “Towards an integrated design of voluntary approaches and standardization processes: An analysis of issues and trends in the Italian regulation on ground coupled heat pumps”, with F. Rizzi and M. Frey, *Energy Conversion and Management Journal*, issue 52, 2011, pp. 3120–3131.
- “The effect of environmental regulation on firms’ competitive performance: the case of the Building & Construction sector in some EU regions”, with M. Frey and F. Testa, *Journal of Environmental Management*, issue n. 92, 2011.
- “A Literature Review on the Links between Environmental Regulation and Competitiveness”, with M. Frey, M. Melis and F. Testa, *Environmental Policy and Governance*, issue n. 21, 2011, pp. 210-222.
- ”Do environmental management systems improve environmental performance? Empirical evidence from Italian companies”. *Environment, Development and Sustainability* - Volume 13, Number 5, Pages 845-862, 2011, with Tiberio Daddi, Marco Frey, Michele Magistrelli
- “The European experience on environmental management system: the revision of the Eco Management And Audit Scheme (EMAS)”, in "*Environmental Management: Systems, Sustainability and Current Issues*", Editor: Henry C. Dupont, Nova Publisher (NY-USA), 2011 4th quarter, ISBN: 978-1-61324-733-4, 2011, with Francesco Testa, Tiberio Daddi.
- “Special Issue on Exploring the Link between CSR and Competitiveness”, *International Journal of Technology Management (IJTM)* - Volume 58 - Issue 1/2 – 2012, 2012, Edited with Marco Frey, Massimo Battaglia.
- “Strategies and approaches for green advertising: an empirical analysis of the Italian context”, *International Journal of Environment and Sustainable Development*, vol. 10, n. 4, 2012. With Francesco Testa, Marco Frey, Sara Tessitore.
- “Case study evidence that direct regulation remains the main driver of industrial pollution avoidance and may benefit operational efficiency” , *Journal of Cleaner Production*, Vol. 21, pag. 1-10, 2012, with Francesco Testa, David Styles.